ATTACHMENT 4

KEY TO FILE CODES

ATTACHMENT 4

*.STA	-	STAMINA output file
*.OPT	-	OPTIMA output file
CAS1	-	Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; first-floor Casitas modeled receivers 1 through 22; building shielding; no noise barriers.
CAS2	-	Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; second-floor Casitas modeled receivers 1 through 22; building shielding; no noise barriers.
WCAS1	-	Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; first-floor Casitas modeled receivers 1 through 22; building shielding; with noise barriers.
WCAS2	-	Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; second-floor Casitas modeled receivers 1 through 22; building shielding; with noise barriers.
SCH1	-	Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; first-floor school modeled receivers 23 through 26; building shielding; no noise barriers.
SCH2	-	Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; second-floor school modeled receivers 23 through 26; building shielding; no noise barriers.
WSCH1	-	Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; first-floor school modeled receivers 23 through 26; building shielding; with noise barriers.
WSCH2	-	Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; second-floor school modeled receivers 23 through 26; building shielding; with noise barriers.
MULTFAM1	-	Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; first-floor multi-family modeled receivers 27 through 41; building shielding; no noise barriers.

MULTFAM2 - Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; second-floor multi-family modeled receivers 27 through 41; building shielding; no noise barriers.

WMLTFAM1 - Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; first-floor multi-family modeled receivers 27 through 41; building shielding; with noise barriers.

WMLTFAM2 - Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; second-floor multi-family modeled receivers 27 through 41; building shielding; with noise barriers.

SGLFAMA1 - Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; first-floor single family modeled receivers 42 through 81; building shielding; no noise barriers.

SGLFAMA2 - Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; second-floor single family modeled receivers 42 through 81; building shielding; no noise barriers.

WSFLFMA1 - Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; first-floor single family modeled receivers 42 through 81; building shielding; with noise barriers.

WSGLFMA2 - Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; second-floor single family modeled receivers 42 through 81; building shielding; with noise barriers.

SGLFAMB1 - Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; first-floor single family modeled receivers 82 through 121; building shielding; no noise barriers.

SGLFAMB2 - Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; second-floor single family modeled receivers 82 through 121; building shielding; no noise barriers.

WSFLFMB1 - Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; first-floor single family modeled receivers 82 through 121; building shielding; with noise barriers.

WSGLFMB2 - Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; second-floor single family modeled receivers 82 through 121; building shielding; with noise barriers.

SGLFAMC1 - Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; first-floor single family modeled receivers 122 through 137; building shielding; no noise barriers.

SGLFAMC2 - Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; second-floor single family modeled receivers 122 through 137; building shielding; no noise barriers.

WSFLFMC1 - Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; first-floor single family modeled receivers 122 through 137; building shielding; with noise barriers.

WSGLFMC2 - Meadowood Traffic Noise; Future Conditions; All roadways except I-15; Average Daytime Hour; second-floor single family modeled receivers 122 through 137; building shielding; with noise barriers.

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                    *************************
                          STAM2VU1
                        Version 1.20
                    *************************
                      STAMINA 2.0/BCR
            MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
                TRAFFIC NOISE PREDICTION MODEL

        MODIFIED TO:
          1.   ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
          2.   CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY
               USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
          3.   PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A
               DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE
               LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.
                    *************************
          MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
               BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
                    AND BOWLBY & ASSOCIATES, INC.
                       2014 BROADWAY, SUITE 210
                       NASHVILLE, TN 37203-2425
                  TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE
HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK
CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE
*.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.

        (INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH )

 Meadowood - Casitas 1st Floor (Receivers 1-22)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

     HEIGHT       CODE           DESCRIPTION
        .00         1      RECEIVER HEIGHT ADJUSTMENT
       1.00         2      A-WEIGHTED SOUND LEVEL ONLY
        .00         3      HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
        .00         4      HEIGHT ADJUSTMENT FOR HEAVY TRUCKS   (HT)
        .00         5      HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS  (MT)
       .000         6      HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4)
                           CARS--CALVENO
                           C0 =       5.20  C1 =      38.80  S0 =       .00
      2.300         7      HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5)
                           MT--CALVENO
                           C0 =      35.30  C1 =      25.60  S0 =       .00
      8.000         8      HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6)
                           HT--CALVENO
                           C0 =      50.40  C1 =      19.20  S0 =       .00

0ROADWAY   1     HRC nb (76 to Pankey)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS               0.          30.0
                     HT                 0.          30.0
                     MT                 0.          30.0
                     VEH4             415.          40.0
                     VEH5              13.          40.0
                     VEH6               9.          40.0
0                  ------------COORDINATES-------------
                        X           Y              Z      GRADE
 1                 6287767.4   2067284.0        276.0       0
 2                 6287704.7   2067456.2        276.0       0
 3                 6287629.7   2067702.5        279.0       0
 4                 6287568.8   2067936.5        284.0       0
 5                 6287512.3   2068148.3        284.0       0
 6                 6287446.9   2068359.4        282.0       0
 7                 6287374.5   2068606.6        279.0       0

0ROADWAY   2     HRC nb (Pankey to School)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS               0.          30.0
                     HT                 0.          30.0
                     MT                 0.          30.0
                     VEH4             695.          40.0
                     VEH5              22.          40.0
                     VEH6              15.          40.0
0                  ------------COORDINATES-------------
                        X           Y              Z      GRADE
 7                 6287374.5   2068606.6        279.0       0
 8                 6287273.9   2068832.6        278.0       0
 9                 6287137.9   2069057.7        278.0       0
 10                6287017.0   2069263.4        280.0       0
 11                6286760.9   2069688.9        285.0       0
 12                6286533.2   2070137.4        290.0       0
 13                6286310.7   2070587.7        296.0       0

0ROADWAY   3     HRC nb (School to 26)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS               0.          30.0
                     HT                 0.          30.0
                     MT                 0.          30.0
                     VEH4             689.          40.0
                     VEH5              22.          40.0
                     VEH6              15.          40.0
0                  ------------COORDINATES-------------
                        X           Y              Z      GRADE
 13                6286310.7   2070587.7        296.0       0
 14                6286086.4   2071030.0        302.0       0

0ROADWAY   4     HRC nb (26 to Harvest Glen)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS               0.          30.0
                     HT                 0.          30.0
                     MT                 0.          30.0
                     VEH4             634.          40.0
                     VEH5              20.          40.0
                     VEH6              13.          40.0
0                  ------------COORDINATES-------------
                        X           Y              Z      GRADE
 14                6286086.4   2071030.0        302.0       0
 15                6285859.5   2071475.8        308.0       0
 16                6285540.8   2072106.2        311.0       0
 17                6285403.1   2072385.2        310.0       0

0ROADWAY   5     HRC nb (Harvest Glen to Longspur)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS               0.          30.0
                     HT                 0.          30.0
                     MT                 0.          30.0
                     VEH4             488.          40.0
                     VEH5              15.          40.0
                     VEH6              10.          40.0
0                  ------------COORDINATES-------------
                        X           Y              Z      GRADE
 17                6285403.1   2072385.2        310.0       0
 18                6285328.1   2072574.1        310.0       0
 19                6285298.0   2072673.9        310.0       0
 20                6285270.7   2072773.6        311.0       0
 21                6285221.2   2073078.2        314.0       0
 22                6285201.8   2073673.3        322.0       0
 23                6285188.6   2074037.0        338.0       0

0ROADWAY   6     HRC nb (Longspur to Baltimore)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS               0.          30.0
                     HT                 0.          30.0
                     MT                 0.          30.0
                     VEH4             347.          40.0
                     VEH5              11.          40.0
                     VEH6               7.          40.0
0                  ------------COORDINATES-------------
                        X           Y              Z      GRADE
 23                6285188.6   2074037.0        338.0       0
 24                6285145.3   2074308.9        346.0       0
 25                6285056.1   2074546.4        351.0       0
 26                6284650.0   2075149.4        356.0       0

0ROADWAY   7     HRC sb (Baltimore to Longspur)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS               0.          30.0
                     HT                 0.          30.0
                     MT                 0.          30.0
                     VEH4             347.          40.0
                     VEH5              11.          40.0
                     VEH6               7.          40.0
0                  ------------COORDINATES-------------
                        X           Y              Z      GRADE
 1                 6284621.8   2075132.6        356.0       0
 2                 6285015.5   2074527.9        351.0       0
 3                 6285099.4   2074300.1        346.0       0
 4                 6285141.8   2074033.5        338.0       0
 5                 6285159.4   2073671.5        322.0       0

0ROADWAY   8     HRC sb (Longspur to Harvest Glen)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS               0.          30.0
                     HT                 0.          30.0
                     MT                 0.          30.0
                     VEH4             488.          40.0
                     VEH5              15.          40.0
                     VEH6              10.          40.0
0                  ------------COORDINATES-------------
                        X           Y              Z      GRADE
 5                 6285159.4   2073671.5        322.0       0
 6                 6285181.5   2073072.9        314.0       0
 7                 6285228.3   2072759.5        311.0       0
 8                 6285256.5   2072658.0        310.0       0
 9                 6285287.4   2072557.3        310.0       0
 10                6285368.7   2072369.3        310.0       0
 11                6285504.6   2072087.7        311.0       0

0ROADWAY   9     HRC sb (Harvest Glen to 26)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS               0.          30.0
                     HT                 0.          30.0
                     MT                 0.          30.0
                     VEH4             634.          40.0
                     VEH5              20.          40.0
                     VEH6              13.          40.0
0                  ------------COORDINATES-------------
                        X           Y              Z      GRADE
 11                6285504.6   2072087.7        311.0       0
 12                6285818.9   2071457.3        308.0       0
 13                6286045.8   2071007.9        302.0       0
 14                6286269.2   2070567.4        296.0       0

0ROADWAY  10     HRC sb (26 to School)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS               0.          30.0
                     HT                 0.          30.0
                     MT                 0.          30.0
                     VEH4             689.          40.0
                     VEH5              22.          40.0
                     VEH6              14.          40.0
0                  ------------COORDINATES-------------
                        X           Y              Z      GRADE
 14                6286269.2   2070567.4        296.0       0
 15                6286493.4   2070122.4        290.0       0

0ROADWAY  11     HRC sb (School to Pankey)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS               0.          30.0
                     HT                 0.          30.0
                     MT                 0.          30.0
                     VEH4             695.          40.0
                     VEH5              22.          40.0
                     VEH6              15.          40.0
0                  ------------COORDINATES-------------
                        X           Y              Z      GRADE
 15                6286493.4   2070122.4        290.0       0
 16                6286720.3   2069667.7        285.0       0
 17                6286977.2   2069239.6        280.0       0
 18                6287102.6   2069033.0        278.0       0
 19                6287238.6   2068813.1        278.0       0
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20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0

	COORDINATES X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

1

BARRIER 1 TYPE(A) Casitas Pad Edges 1

	COORDINATES X	Y	Z	Z0	DELZ	P
29	6287206.9	2067402.8	283.0	283.0	.0	0
1	6287604.1	2067456.6	282.0	282.0		
2	6287556.7	2067611.1	282.0	282.0		
3	6287522.5	2067745.3	281.0	281.0		
4	6287464.5	2067976.1	281.0	281.0		
5	6287454.6	2068015.7	282.0	282.0		
6	6287323.5	2068473.5	278.0	278.0		

1

BARRIER 2 TYPE(A) Casitas Pad Edges 2

	COORDINATES X	Y	Z	Z0	DELZ	P
7a	6287289.2	2068526.0	278.0	278.0	.0	0
7b	6287308.7	2068535.6	278.0	278.0		
8	6287229.9	2068717.4	279.0	279.0		
9	6287128.1	2068905.3	280.0	280.0		
10	6287014.0	2069093.0	280.0	280.0		
10b	6286997.0	2069082.5	280.0	280.0		

1

BARRIER 3 TYPE(A) Casitas Pad Edges 3

	COORDINATES X	Y	Z	Z0	DELZ	P
11a	6286968.3	2069123.7	280.0	280.0	.0	0
11b	6286988.0	2069135.7	280.0	280.0		
12	6286743.4	2069547.7	282.0	282.0		
13	6286725.9	2069542.1	282.0	282.0		
14	6286765.9	2068976.7	281.0	281.0		
15	6286777.9	2068737.8	280.0	280.0		
16	6286837.9	2068587.8	280.0	280.0		
17	6286891.7	2068511.8	280.0	280.0		
18	6286906.9	2068334.1	278.0	278.0		
19	6287116.7	2068459.9	278.0	278.0		

1

BARRIER 4 TYPE(A) Casitas Pad Edges 4

	COORDINATES X	Y	Z	Z0	DELZ	P
20	6287150.1	2068366.2	277.0	277.0	.0	0
21	6287134.3	2068401.8	277.0	277.0		
22	6286900.0	2068252.6	277.0	277.0		
23	6286818.7	2068179.5	276.0	276.0		
24	6286828.9	2068007.0	277.0	277.0		
25	6286839.7	2067846.7	278.0	278.0		
26	6286850.6	2067683.4	281.0	281.0		
27	6286860.1	2067542.5	282.0	282.0		
28	6286869.1	2067378.1	282.0	282.0		
29	6287206.9	2067402.8	283.0	283.0		

1

BARRIER 5 TYPE(A) Casitas Building 1

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6287497.3	2067458.5	302.0	282.0	.0	0
2	6287525.1	2067616.7	302.0	282.0		
3	6287387.6	2067647.9	302.0	282.0		
4	6287361.7	2067482.3	302.0	282.0		
1	6287497.3	2067458.5	302.0	282.0		

1

BARRIER 6 TYPE(A) Casitas Building 2

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6287377.4	2067888.6	301.0	281.0	.0	0
2	6287409.2	2067761.8	301.0	281.0		
3	6287490.6	2067771.9	301.0	281.0		
4	6287453.7	2067918.0	301.0	281.0		
1	6287377.4	2067888.6	301.0	281.0		

1

BARRIER 7 TYPE(A) Casitas Building 3

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6287312.3	2068240.1	299.0	279.0	.0	0
2	6287375.3	2068155.1	302.0	282.0		
3	6287370.5	2068144.6	302.0	282.0		
4	6287446.1	2068032.8	302.0	282.0		
5	6287315.3	2067948.4	302.0	282.0		
6	6287177.5	2068176.3	299.0	279.0		
1	6287312.3	2068240.1	299.0	279.0		

1

BARRIER 8 TYPE(A) Casitas Building 4

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6287319.6	2068419.7	298.0	278.0	.0	0
2	6287360.3	2068274.7	298.0	278.0		
3	6287243.1	2068251.4	298.0	278.0		
4	6287203.8	2068377.5	298.0	278.0		
1	6287319.6	2068419.7	298.0	278.0		

1

BARRIER 9 TYPE(A) Casitas Building 5

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6287260.5	2068558.5	298.0	278.0	.0	0
2	6287207.1	2068708.5	298.0	278.0		
3	6287124.2	2068857.1	298.0	278.0		
4	6287032.0	2068779.0	298.0	278.0		
5	6287101.2	2068664.2	298.0	278.0		
6	6287156.3	2068526.9	298.0	278.0		
1	6287260.5	2068558.5	298.0	278.0		

1

BARRIER 10 TYPE(A) Casitas Building 6

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6287009.5	2069059.4	300.0	280.0	.0	0
2	6286866.6	2068963.8	300.0	280.0		
3	6286848.9	2068934.9	300.0	280.0		
4	6286839.3	2068915.6	300.0	280.0		
5	6286878.5	2068816.4	300.0	280.0		
6	6286921.8	2068803.8	300.0	280.0		
7	6286958.5	2068787.7	300.0	280.0		
8	6286950.1	2068760.1	300.0	280.0		
9	6287008.0	2068739.9	300.0	280.0		
10	6287050.2	2068848.7	300.0	280.0		

1

BARRIER 11 TYPE(A) Casitas Building 6 cont.

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
10	6287050.2	2068848.7	300.0	280.0	.0	0
11	6286994.5	2068869.8	300.0	280.0		
12	6286984.0	2068885.6	300.0	280.0		
13	6287076.3	2068944.5	300.0	280.0		
1	6287009.5	2069059.4	300.0	280.0		

1

BARRIER 12 TYPE(A) Casitas Building 7

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6286962.4	2069131.0	300.0	280.0	.0	0
2	6286906.6	2069240.8	300.0	280.0		
3	6286806.8	2069180.9	300.0	280.0		
4	6286820.1	2069112.3	300.0	280.0		
5	6286847.7	2069065.5	300.0	280.0		
1	6286962.4	2069131.0	300.0	280.0		

1

BARRIER 13 TYPE(A) Casitas Building 8

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6286919.7	2068586.0	298.0	278.0	.0	0
2	6286975.4	2068445.9	298.0	278.0		
3	6287085.1	2068493.1	298.0	278.0		
4	6287067.7	2068536.8	298.0	278.0		
5	6287037.8	2068526.8	298.0	278.0		
6	6287011.4	2068608.3	298.0	278.0		
1	6286919.7	2068586.0	298.0	278.0		

1

BARRIER 14 TYPE(A) Casitas Building 9

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6286923.9	2068215.3	296.0	276.0	.0	0
2	6286835.4	2068093.4	296.0	276.0		
3	6286940.2	2068028.8	296.0	276.0		
4	6286989.9	2068155.0	296.0	276.0		
1	6286923.9	2068215.3	296.0	276.0		

1

BARRIER 15 TYPE(A) Casitas Building 10 and 11

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6286841.2	2068002.8	297.0	277.0	.0	0
2	6286851.3	2067852.5	297.0	277.0		
1	6286863.2	2067826.9	298.0	278.0		
2	6286871.6	2067705.5	298.0	278.0		
3	6286971.5	2067707.9	298.0	278.0		
4	6286971.6	2067840.2	298.0	278.0		
3	6286973.3	2067870.0	297.0	277.0		
4	6286964.4	2068001.7	297.0	277.0		
1	6286841.2	2068002.8	297.0	277.0		

1

BARRIER 16 TYPE(A) Casitas Building 12

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6286863.0	2067678.2	300.0	280.0	.0	0
2	6286870.7	2067553.9	300.0	280.0		
3	6286904.5	2067556.2	300.0	280.0		
4	6286983.9	2067633.8	300.0	280.0		
5	6286986.1	2067679.0	300.0	280.0		
1	6286863.0	2067678.2	300.0	280.0		

1

BARRIER 17 TYPE(A) Casitas Building 13

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6287022.0	2067602.5	302.0	282.0	.0	0
2	6286881.6	2067531.7	302.0	282.0		
3	6286959.8	2067397.1	302.0	282.0		
4	6287056.7	2067467.7	302.0	282.0		
5	6287099.5	2067532.8	302.0	282.0		
1	6287022.0	2067602.5	302.0	282.0		

1

BARRIER 18 TYPE(A) Casitas Building 14

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6287070.3	2067443.8	302.0	282.0	.0	0
2	6287069.5	2067409.8	302.0	282.0		
3	6287185.4	2067419.7	302.0	282.0		
4	6287171.1	2067519.2	302.0	282.0		
5	6287137.3	2067516.5	302.0	282.0		
6	6287140.8	2067450.4	302.0	282.0		
1	6287070.3	2067443.8	302.0	282.0		

1

BARRIER 19 TYPE(A) Casitas Building 15

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6287196.7	2067529.8	302.0	282.0	.0	0
2	6287205.1	2067425.2	302.0	282.0		
3	6287359.9	2067441.9	302.0	282.0		
4	6287350.0	2067548.3	302.0	282.0		
1	6287196.7	2067529.8	302.0	282.0		

1

BARRIER 20 TYPE(A) Casitas Building 16

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6287093.0	2067613.4	300.0	280.0	.0	0
2	6287269.9	2067629.2	301.0	281.0		
3	6287322.9	2067690.9	301.0	281.0		
4	6287306.7	2067915.3	300.0	280.0		
5	6287241.1	2068012.1	300.0	280.0		
6	6287137.3	2068171.3	297.0	277.0		
7	6287043.6	2068104.3	297.0	277.0		
8	6287037.1	2067916.5	299.0	279.0		
9	6287058.4	2067690.4	300.0	280.0		
1	6287093.0	2067613.4	300.0	280.0		

1

Casitas Receivers @ 5'

	----------COORDINATES----------		
	X	Y	Z
1	6287456.1	2067441.2	287.0
2	6287521.9	2067664.8	285.0
3	6287487.2	2067848.9	286.0
4	6287409.8	2068101.8	287.0
5	6287367.5	2068243.5	284.0
6	6287348.9	2068349.7	283.0
7	6287235.0	2068658.2	282.0
8	6287168.3	2068808.5	284.0
9	6287048.5	2069012.2	285.0
10	6286940.7	2069192.7	285.0
11	6286744.0	2069524.7	285.0
12	6286804.6	2069126.5	285.0
13	6286832.2	2068935.2	286.0
14	6286896.7	2068794.2	285.0
15	6286880.3	2068556.4	282.0
16	6287010.9	2068302.2	282.0
17	6286859.3	2068179.1	281.0
18	6286841.4	2067923.4	282.0
19	6286855.4	2067766.2	283.0
20	6286919.2	2067384.1	287.0
21	6287123.6	2067405.7	287.0
22	6287290.3	2067421.2	287.0

1

ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
13 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
14 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
16 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								

1

SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								

```
 4 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 5 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 6 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 7 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 8 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 9 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
10 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
11 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
12 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
13 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
14 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
15 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
16 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
17 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
18 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
1

 RECEIVER    LEQ(H)   L10
 1            69.7   72.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            50.1 43.9 29.2 25.2 22.7 21.2
    2        1    2    3    4    5    6
            21.3 19.9 18.3 19.9 18.0 16.3
    3        1
            14.8
    4        1    2    3
            13.1 13.2  8.4
    5        1    2    3    4    5    6
             4.8  1.6  1.3  5.7  7.6  4.6
    6        1    3
             1.4  4.3
    7        1    3    4
             4.4  1.2  3.1
    8        1    2    3    4    5    6
             7.6  5.8  1.4  1.6  4.9  7.3
    9        1    2    3
            13.2 13.2 14.3
   10        1
            16.2
   11        1    2    3    4    5    6
            18.1 19.9 18.5 20.0 21.3 23.5
   12        1    2    3    4    5
            22.8 25.6 29.8 45.5 51.4
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            38.6 43.7 38.8 46.1 48.4 51.2 54.2 58.1 61.7 59.6

            55.4 51.9 45.8 43.6
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            43.7 45.9 51.3 56.1 60.2 62.8 58.7 54.2 51.8 48.5

            45.3 40.5 44.1 38.7
   15        1    2    3    4    5    6    7    8    9   10

            36.5 25.6 17.9 16.6 15.5 14.5 13.8 13.2 12.9 18.5

   16        1    2    3    4    5    6    7    8    9   10

            18.6 12.9 13.3 13.8 14.6 15.5 16.7 17.9 25.5 36.5

   17        1    2    3    4    5    6    7
            19.2 20.4 21.0 21.8 24.1 26.0 21.2
   18        1    2    3    4    5    6    7
            21.0 26.1 24.3 21.5 20.7 20.4 19.1
1

 RECEIVER    LEQ(H)   L10
 2            65.7   69.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            44.5 55.7 55.6 47.7 42.4 38.6
    2        1    2    3    4    5    6
            36.8 29.1 25.8 25.9 23.9 22.2
    3        1
            20.6
    4        1    2    3
            18.9 18.9 14.0
    5        1    2    3    4    5    6
            10.4  7.1  6.9 11.2 13.2 10.2
    6        1    2    3
             7.1  6.4 10.1
    7        1    2    3    4
            10.1  6.2  7.0  8.7
    8        1    2    3    4    5    6
            13.2 11.3  7.0  7.2 10.5 12.9
    9        1    2    3
            18.9 18.8 20.1
   10        1
            22.0
   11        1    2    3    4    5    6
            24.0 26.0 24.6 28.5 31.4 40.2
   12        1    2    3    4    5
            42.1 47.6 57.5 58.0 44.2
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            22.1 27.0 22.0 29.1 31.1 33.2 34.7 36.4 45.4 52.2

            52.8 52.5 50.1 47.9
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            48.1 50.2 52.7 53.6 52.6 45.6 36.9 34.9 33.8 31.3

            28.4 23.8 27.5 22.2
   15        1    2    3    4    5    6    7    8    9   10

            24.7 27.4 21.1 20.6 20.1 19.5 18.9 18.1 17.5 22.4

   16        1    2    3    4    5    6    7    8    9   10

            22.4 17.4 18.2 18.7 19.3 20.0 20.5 20.9 27.3 24.5

   17        1    2    3    4    5    6    7
            25.2 26.3 25.6 25.1 27.2 27.4 22.6
   18        1    2    3    4    5    6    7
            22.6 27.6 27.2 24.7 25.3 26.4 25.0
1

 RECEIVER    LEQ(H)   L10
 3            67.2   70.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            44.6 51.2 58.8 54.9 48.2 44.7
    2        1    2    3    4    5    6
            40.2 30.9 27.1 28.5 26.4 24.6
    3        1
            22.9
    4        1    2    3
            21.1 21.2 16.3
    5        1    2    3    4    5    6
            12.6  9.3  9.1 13.4 15.4 12.6
    6        1    2    3
             9.5  8.7 12.5
    7        1    2    3    4
            12.5  8.5  9.3 11.0
    8        1    2    3    4    5    6
            15.4 13.5  9.1  9.4 12.6 15.1
    9        1    2    3
            21.2 21.2 22.5
   10        1
            24.4
   11        1    2    3    4    5    6
            26.5 28.6 27.2 29.2 35.7 44.0
   12        1    2    3    4    5
            48.4 56.6 62.5 51.6 43.1
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            17.7 22.7 17.7 24.9 26.9 29.1 31.2 34.0 40.7 51.9

            52.8 51.7 49.6 47.7
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            47.9 49.7 51.8 53.5 52.7 40.2 34.1 31.1 29.5 27.0

            24.1 19.4 23.0 17.8
   15        1    2    3    4    5    6    7    8    9   10

            18.9 19.5 12.7 12.1 11.5 10.7 10.0  9.2  8.4 12.9

   16        1    2    3    4    5    6    7    8    9   10

            12.9  8.3  9.2  9.8 10.6 11.4 12.0 12.4 19.4 18.7

   17        1    2    3    4    5    6    7
            27.3 25.7 23.3 21.5 21.1 20.4 15.3
   18        1    2    3    4    5    6    7
            15.1 20.6 21.4 21.4 23.3 25.9 26.8
1

 RECEIVER    LEQ(H)   L10
 4            66.1   69.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            25.7 37.7 50.3 57.2 56.2 49.6
    2        1    2    3    4    5    6
            46.1 41.2 31.4 32.5 30.2 28.2
    3        1
            26.5
    4        1    2    3
            24.6 24.5 19.5
    5        1    2    3    4    5    6
            15.8 12.5 12.2 16.6 18.5 15.6
    6        1    2    3
            12.5 11.8 15.5
    7        1    2    3    4
            15.6 11.6 12.4 14.1
    8        1    2    3    4    5    6
            18.5 16.7 12.3 12.5 15.9 18.4
    9        1    2    3
            24.5 24.6 26.0
   10        1
            28.1
   11        1    2    3    4    5    6
            30.2 32.5 31.3 39.2 45.2 52.2
   12        1    2    3    4    5
            58.9 60.6 48.0 29.6 24.7
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            17.4 22.3 17.3 24.4 26.1 28.0 29.0 29.9 31.7 39.8

            49.5 49.7 48.2 46.8
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            47.0 48.3 49.8 50.7 38.4 31.9 30.2 29.0 28.5 26.3

            23.6 19.0 22.7 17.5
   15        1    2    3    4    5    6    7    8    9   10

            18.6 19.9 13.2 12.5 11.7 11.0 10.3  9.5  8.7 13.0

   16        1    2    3    4    5    6    7    8    9   10
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          13.0  8.5  9.4 10.1 10.8 11.5 12.3 13.0 19.8 18.4

  17        1    2    3    4    5    6    7
          38.8 29.1 25.2 22.8 22.1 20.9 15.4
  18        1    2    3    4    5    6    7
          15.2 21.0 22.3 22.9 25.1 29.3 39.3
1

 RECEIVER    LEQ(H)   L10
 5            65.9   69.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          34.6 39.1 45.2 52.2 58.2 54.0
   2        1    2    3    4    5    6
          47.7 40.8 25.3 25.8 22.9 20.6
   3        1
          18.5
   4        1    2    3
          16.5 16.4 11.3
   5        1    2    3    4    5    6
           7.7  4.4  4.1  8.4 10.3  7.3
   6        1    2    3
           4.0  3.2  7.0
   7        1    2    3    4
           7.0  3.0  3.9  5.7
   8        1    2    3    4    5    6
          10.3  8.4  4.2  4.4  7.7 10.2
   9        1    2    3
          16.4 16.6 18.2
  10        1
          20.5
  11        1    2    3    4    5    6
          23.0 25.8 25.5 31.5 47.6 57.4
  12        1    2    3    4    5
          61.6 53.0 44.8 37.2 26.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.1 25.0 20.0 26.9 28.7 30.4 31.5 32.5 34.4 42.0

          44.8 46.6 47.4 46.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          46.4 47.5 46.7 45.3 41.8 34.6 32.7 31.3 30.9 28.8

          26.1 21.6 25.4 20.2
  15        1    2    3    4    5    6    7    8    9   10

          21.3 29.1 28.1 20.3 19.0 17.6 16.6 15.6 14.9 19.7

  16        1    2    3    4    5    6    7    8    9   10

          19.8 14.9 15.7 16.5 17.6 18.9 20.4 28.4 28.5 21.1

  17        1    2    3    4    5    6    7
          40.2 32.0 34.8 32.3 25.5 23.9 18.3
  18        1    2    3    4    5    6    7
          18.1 23.9 25.7 29.6 35.1 32.4 41.2
1

 RECEIVER    LEQ(H)   L10
 6            67.5   71.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          34.2 38.5 44.0 49.2 56.8 58.2
   2        1    2    3    4    5    6
          51.8 44.7 39.4 36.9 26.3 23.9
   3        1
          21.9
   4        1    2    3
          19.8 19.5 14.5
   5        1    2    3    4    5    6
          10.8  7.5  7.3 11.5 16.2 19.5
   6        1    2    3
          17.4 16.8 20.5
   7        1    2    3    4
          19.8 16.5 17.3 16.6
   8        1    2    3    4    5    6
          15.0 11.6  7.3  7.4 10.6 13.2
   9        1    2    3
          19.4 19.6 21.3
  10        1
          23.8
  11        1    2    3    4    5    6
          26.3 29.6 38.1 43.9 51.1 63.9
  12        1    2    3    4    5
          59.2 48.7 42.5 37.7 33.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          16.9 21.8 16.7 23.7 25.3 26.8 28.2 30.2 34.3 42.5

          46.6 48.0 46.9 45.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          46.0 47.0 48.0 48.6 42.0 34.3 30.3 27.9 27.4 25.4

          22.9 18.3 22.2 17.1
  15        1    2    3    4    5    6    7    8    9   10

          18.0 19.9 13.7 13.0 12.2 11.3 10.4  9.5  8.7 13.3

  16        1    2    3    4    5    6    7    8    9   10

          13.3  8.6  9.5 10.2 11.2 12.1 13.0 13.5 19.8 17.8

  17        1    2    3    4    5    6    7
          48.1 30.7 26.6 23.5 22.1 20.6 15.0
  18        1    2    3    4    5    6    7
          14.8 20.6 22.2 23.5 26.7 31.2 49.0
1

 RECEIVER    LEQ(H)   L10
 7            67.0   70.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          31.0 34.5 37.7 40.8 44.8 53.2
   2        1    2    3    4    5    6
          61.0 52.4 44.3 42.5 38.3 35.3
   3        1
          33.0
   4        1    2    3
          30.7 30.3 25.1
   5        1    2    3    4    5    6
          21.2 17.9 17.6 21.9 23.8 20.8
   6        1    2    3
          17.7 16.9 20.8
   7        1    2    3    4
          20.7 16.7 17.6 19.2
   8        1    2    3    4    5    6
          23.8 22.0 17.7 17.9 21.3 24.0
   9        1    2    3
          30.4 30.8 32.6
  10        1
          35.2
  11        1    2    3    4    5    6
          38.4 42.5 44.2 52.8 63.7 55.3
  12        1    2    3    4    5
          44.9 41.2 37.4 32.3 24.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          16.5 21.2 16.1 22.9 24.3 25.4 26.4 28.0 31.1 39.3

          42.0 42.4 42.7 42.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          43.0 42.7 42.5 42.4 38.9 31.3 28.2 26.2 25.9 24.4

          22.2 17.8 21.6 16.5
  15        1    2    3    4    5    6    7    8    9   10

          17.1 19.8 14.1 13.7 13.0 12.1 11.2 10.2  9.4 13.9

  16        1    2    3    4    5    6    7    8    9   10

          13.9  9.3 10.2 11.0 12.0 12.9 13.6 13.9 19.6 16.9

  17        1    2    3    4    5    6    7
          48.5 30.5 25.9 22.7 21.3 19.8 14.3
  18        1    2    3    4    5    6    7
          14.0 19.9 21.3 22.7 25.8 30.1 47.7
1

 RECEIVER    LEQ(H)   L10
 8            67.9   71.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          30.0 33.4 36.8 39.3 42.2 48.7
   2        1    2    3    4    5    6
          58.7 60.5 51.9 46.9 40.6 37.2
   3        1
          34.7
   4        1    2    3
          32.3 31.8 26.4
   5        1    2    3    4    5    6
          22.6 19.2 18.9 23.3 25.4 22.8
   6        1    2    3
          20.2 19.6 23.4
   7        1    2    3    4
          23.2 19.2 19.9 21.1
   8        1    2    3    4    5    6
          25.3 23.3 18.9 19.2 22.5 25.2
   9        1    2    3
          31.7 32.1 34.0
  10        1
          36.8
  11        1    2    3    4    5    6
          40.3 45.7 50.2 63.5 60.7 49.3
  12        1    2    3    4    5
          42.1 39.3 33.7 25.1 22.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          16.5 21.3 16.2 23.2 24.6 26.1 27.0 28.1 30.0 37.1

          41.1 43.6 44.2 43.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          43.5 44.2 45.0 41.5 36.4 30.0 28.3 26.8 26.6 24.7

          22.4 17.8 21.7 16.6
  15        1    2    3    4    5    6    7    8    9   10

          17.0 19.7 14.4 14.2 13.8 13.1 12.4 11.5 10.7 15.1

  16        1    2    3    4    5    6    7    8    9   10

          15.1 10.6 11.5 12.1 12.9 13.5 14.0 14.2 19.5 16.9

  17        1    2    3    4    5    6    7
          41.0 28.7 24.7 22.0 20.9 19.5 14.1
  18        1    2    3    4    5    6    7
          13.9 19.6 20.9 22.0 24.8 28.6 40.4
1

 RECEIVER    LEQ(H)   L10
 9            68.1   71.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          22.8 25.6 27.1 33.0 38.3 41.7
   2        1    2    3    4    5    6
          51.1 59.5 59.8 53.2 45.0 41.2
   3        1
          38.5
   4        1    2    3
          36.0 35.4 29.9
   5        1    2    3    4    5    6
          25.8 22.4 22.1 26.4 28.1 26.0
   6        1    2    3
          22.6 21.7 25.5
   7        1    2    3    4
          25.4 21.5 22.5 24.1
   8        1    2    3    4    5    6
          28.1 26.5 21.7 20.8 24.1 26.8
   9        1    2    3
          33.4 34.1 36.2
  10        1
          39.3
  11        1    2    3    4    5    6
          43.6 52.5 63.2 62.1 49.4 43.9
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 12        1    2    3    4    5
          34.7 28.5 26.7 21.5 18.8
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          15.9 20.5 15.3 22.0 23.2 24.0 24.7 25.7 27.4 31.1

          38.7 40.4 42.8 42.3
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          42.4 43.0 40.4 39.0 30.8 27.4 25.8 24.5 24.6 23.3

          21.2 17.0 20.9 16.0
 15        1    2    3    4    5    6    7    8    9   10

          16.0 19.4 14.5 14.3 13.9 13.0 12.2 11.2 10.3 14.6

 16        1    2    3    4    5    6    7    8    9   10

          14.6 10.2 11.2 12.0 12.9 13.7 14.2 14.3 19.3 15.9

 17        1    2    3    4    5    6    7
          32.5 25.0 22.1 20.1 19.5 18.5 13.3
 18        1    2    3    4    5    6    7
          13.0 18.5 19.4 20.1 22.0 24.9 32.0
1

 RECEIVER    LEQ(H)   L10
 10           68.2   71.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          20.3 23.0 24.3 26.6 35.8 38.5
   2        1    2    3    4    5    6
          45.9 52.4 60.2 59.6 47.6 41.6
   3        1
          37.9
   4        1    2    3
          34.9 33.9 28.2
   5        1    2    3    4    5    6
          24.2 20.9 20.6 25.0 27.3 25.2
   6        1    2    3
          23.1 22.1 25.9
   7        1    2    3    4
          25.8 21.9 22.6 23.5
   8        1    2    3    4    5    6
          27.1 24.9 20.5 20.7 24.1 26.8
   9        1    2    3
          33.6 34.5 36.9
  10        1
          40.5
  11        1    2    3    4    5    6
          46.3 61.9 63.8 51.5 44.6 40.7
  12        1    2    3    4    5
          28.3 25.4 24.3 23.0 20.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.5 20.2 14.9 21.5 22.6 23.7 24.2 25.2 27.3 30.7

          36.7 40.6 42.0 41.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          41.4 42.0 40.6 37.0 30.4 27.3 25.4 24.1 24.3 22.7

          20.8 16.5 20.6 15.6
  15        1    2    3    4    5    6    7    8    9   10

          15.5 19.1 14.5 14.5 14.2 13.5 12.7 11.6 10.7 15.0

  16        1    2    3    4    5    6    7    8    9   10

          14.9 10.6 11.6 12.5 13.3 14.0 14.4 14.2 18.9 15.4

  17        1    2    3    4    5    6    7
          28.5 23.9 21.1 19.0 18.4 17.7 12.7
  18        1    2    3    4    5    6    7
          12.5 17.7 18.4 18.9 21.1 24.0 27.9
1

 RECEIVER    LEQ(H)   L10
 11           68.4   71.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          20.7 23.3 24.6 25.2 30.6 34.1
   2        1    2    3    4    5    6
          38.5 41.9 46.4 62.5 55.7 47.0
   3        1
          42.6
   4        1    2    3
          39.2 38.0 32.4
   5        1    2    3    4    5    6
          28.5 25.1 24.7 29.0 30.7 27.4
   6        1    2    3
          23.9 23.0 26.6
   7        1    2    3    4
          26.6 22.8 23.8 25.8
   8        1    2    3    4    5    6
          30.7 29.1 24.8 25.1 28.5 31.3
   9        1    2    3
          38.0 39.2 42.1
  10        1
          46.8
  11        1    2    3    4    5    6
          56.3 65.9 45.6 41.3 38.3 36.1
  12        1    2    3    4    5
          26.3 25.4 24.0 22.5 20.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.1 36.2 30.8 36.9 37.3 37.4 34.8 29.0 29.7 31.2

          34.5 36.9 37.4 37.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.9 37.4 36.8 34.9 30.9 29.2 28.8 34.5 37.9 37.5

          36.2 32.3 36.6 32.2
  15        1    2    3    4    5    6    7    8    9   10

          30.9 37.2 33.9 34.3 34.3 33.9 33.2 32.3 31.3 35.6

  16        1    2    3    4    5    6    7    8    9   10

          35.6 31.2 32.2 33.0 33.7 34.1 34.1 33.7 37.1 30.9

  17        1    2    3    4    5    6    7
          22.9 22.8 29.5 31.2 31.7 32.0 27.8
  18        1    2    3    4    5    6    7
          27.5 31.9 31.6 31.0 29.1 23.3 22.9
1

 RECEIVER    LEQ(H)   L10
 12           55.3   58.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          20.6 23.3 24.7 25.2 24.0 24.8
   2        1    2    3    4    5    6
          26.6 30.2 33.7 43.7 45.3 39.7
   3        1
          36.6
   4        1    2    3
          33.8 33.1 27.6
   5        1    2    3    4    5    6
          23.7 20.3 19.9 24.2 26.0 22.7
   6        1    2    3
          19.5 18.7 22.4
   7        1    2    3    4
          22.4 18.5 19.4 21.2
   8        1    2    3    4    5    6
          26.0 24.3 20.0 20.3 23.7 26.5
   9        1    2    3
          33.2 33.9 36.2
  10        1
          39.6
  11        1    2    3    4    5    6
          45.8 46.4 35.1 30.6 27.8 27.9
  12        1    2    3    4    5
          25.6 25.7 24.7 23.8 20.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.0 36.4 31.1 37.6 38.5 39.1 36.2 30.7 31.4 31.4

          30.2 27.2 23.9 21.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.9 23.9 27.2 30.6 31.0 31.0 30.5 35.8 39.6 38.7

          36.9 32.8 36.9 32.1
  15        1    2    3    4    5    6    7    8    9   10

          31.8 37.4 33.6 33.7 33.9 33.6 32.9 31.9 31.0 35.2

  16        1    2    3    4    5    6    7    8    9   10

          35.2 30.9 31.9 32.7 33.4 33.6 33.5 33.4 37.3 31.8

  17        1    2    3    4    5    6    7
          25.4 25.8 33.3 34.4 34.3 33.8 29.0
  18        1    2    3    4    5    6    7
          28.7 33.8 34.3 34.2 32.9 26.2 25.9
1

 RECEIVER    LEQ(H)   L10
 13           56.3   59.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          14.0 16.7 17.7 18.9 20.5 23.2
   2        1    2    3    4    5    6
          28.0 32.2 47.5 38.5 43.2 38.6
   3        1
          36.0
   4        1    2    3
          33.5 33.0 27.6
   5        1    2    3    4    5    6
          23.7 20.3 19.9 24.2 26.0 22.7
   6        1    2    3
          19.6 18.9 22.7
   7        1    2    3    4
          22.7 18.7 19.6 21.2
   8        1    2    3    4    5    6
          26.0 24.3 20.0 20.3 23.8 26.5
   9        1    2    3
          33.1 33.6 35.6
  10        1
          38.5
  11        1    2    3    4    5    6
          43.7 41.2 48.1 32.8 28.5 25.6
  12        1    2    3    4    5
          20.6 19.1 17.9 16.7 14.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          33.4 37.7 32.4 38.9 39.8 40.5 36.9 31.8 30.4 24.5

          23.8 23.6 22.5 21.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.8 22.6 23.5 24.2 24.3 29.9 31.6 36.6 41.0 40.0

          38.2 34.1 38.2 33.5
  15        1    2    3    4    5    6    7    8    9   10

          33.5 39.7 36.1 36.0 35.4 34.4 33.4 32.3 31.3 35.4

  16        1    2    3    4    5    6    7    8    9   10

          35.5 31.2 32.3 33.2 34.3 35.2 35.8 35.9 39.5 33.4

  17        1    2    3    4    5    6    7
          22.8 25.3 36.7 36.6 36.3 35.5 30.7
  18        1    2    3    4    5    6    7
          30.4 35.4 36.2 36.4 36.5 25.3 22.6
1

 RECEIVER    LEQ(H)   L10
 14           54.5   57.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          23.4 25.9 28.3 30.9 31.8 31.4
   2        1    2    3    4    5    6
```

```
          33.5 32.9 30.3 29.3 24.7 21.6
   3        1
          19.1
   4        1    2    3
          16.7 16.3 11.1
   5        1    2    3    4    5    6
           7.3  4.0  3.7  8.0  9.8  6.4
   6        1    2    3
           3.1  2.1  5.9
   7        1    2    3    4
           5.9  2.0  3.0  4.9
   8        1    2    3    4    5    6
           9.8  8.1  3.8  4.1  7.4 10.0
   9        1    2    3
          16.3 16.8 18.7
  10        1
          21.5
  11        1    2    3    4    5    6
          24.9 29.7 31.2 34.0 34.2 34.5
  12        1    2    3    4    5
          30.9 30.5 26.6 25.1 23.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.7 37.3 32.1 38.8 40.0 41.0 35.3 32.6 33.2 34.3

          35.5 35.6 34.0 27.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.8 34.0 35.6 35.9 34.0 32.8 32.4 34.6 41.5 40.2

          38.1 33.7 37.7 32.8
  15        1    2    3    4    5    6    7    8    9   10

          33.3 38.4 33.4 33.5 33.2 32.4 31.5 30.5 29.6 33.9

  16        1    2    3    4    5    6    7    8    9   10

          33.9 29.5 30.5 31.3 32.2 33.0 33.4 33.2 38.2 33.2

  17        1    2    3    4    5    6    7
          40.7 39.7 38.2 38.3 37.3 36.0 30.6
  18        1    2    3    4    5    6    7
          30.4 35.9 37.2 38.1 37.8 39.0 40.8
1

 RECEIVER    LEQ(H)   L10
 15           56.6   59.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.0 26.1 26.6 27.1 27.9 29.2
   2        1    2    3    4    5    6
          31.8 34.5 32.2 34.4 39.4 35.3
   3        1
          32.9
   4        1    2    3
          30.6 30.3 25.0
   5        1    2    3    4    5    6
          21.2 17.9 17.6 21.9 23.8 20.6
   6        1    2    3
          17.5 16.7 20.5
   7        1    2    3    4
          20.5 16.5 17.4 19.1
   8        1    2    3    4    5    6
          23.8 22.0 17.7 17.9 21.3 23.9
   9        1    2    3
          30.3 30.7 32.5
  10        1
          35.1
  11        1    2    3    4    5    6
          40.3 36.5 31.7 34.2 32.6 32.0
  12        1    2    3    4    5
          28.4 27.9 27.4 25.5 22.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          34.6 39.3 34.1 40.9 42.3 42.8 36.0 33.7 34.2 34.8

          33.3 30.9 29.0 27.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.6 29.0 30.9 33.8 34.4 33.9 33.5 35.4 43.4 42.5

          40.2 35.8 39.7 34.7
  15        1    2    3    4    5    6    7    8    9   10

          35.9 39.8 34.3 33.6 32.6 31.3 30.1 29.0 28.0 32.3

  16        1    2    3    4    5    6    7    8    9   10

          32.4 28.0 29.0 30.0 31.2 32.4 33.5 34.1 39.6 35.7

  17        1    2    3    4    5    6    7
          30.7 41.4 45.4 43.2 41.4 39.2 33.4
  18        1    2    3    4    5    6    7
          33.1 39.2 41.3 42.9 44.9 40.5 30.5
1

 RECEIVER    LEQ(H)   L10
 16           65.6   69.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.4 27.9 30.0 31.5 34.0 43.2
   2        1    2    3    4    5    6
          40.5 33.1 31.0 31.7 28.9 27.7
   3        1
          30.3
   4        1    2    3
          29.9 29.6 24.4
   5        1    2    3    4    5    6
          20.6 17.2 16.9 21.3 23.2 19.7
   6        1    2    3
          12.7 11.9 19.5
   7        1    2    3    4
          20.3 11.7 16.0 18.7
   8        1    2    3    4    5    6
          23.2 21.4 17.0 17.3 20.6 23.3
   9        1    2    3
          29.6 29.8 31.5
  10        1
          29.6
  11        1    2    3    4    5    6
          29.3 31.8 30.0 32.4 40.1 46.5
  12        1    2    3    4    5
          33.8 30.8 29.6 27.6 24.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          25.6 30.4 25.4 32.5 34.3 36.0 35.9 35.6 36.0 35.9

          35.5 34.7 33.8 33.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          33.1 33.9 34.7 36.0 35.6 35.8 35.5 35.6 36.6 34.4

          31.7 27.1 30.8 25.7
  15        1    2    3    4    5    6    7    8    9   10

          31.1 40.6 36.0 35.1 34.1 32.1 29.6 28.6 28.2 34.4

  16        1    2    3    4    5    6    7    8    9   10

          34.4 29.2 28.6 29.5 32.7 34.0 35.0 35.8 41.0 31.1

  17        1    2    3    4    5    6    7
          47.6 58.6 59.0 46.4 42.4 39.1 32.8
  18        1    2    3    4    5    6    7
          32.6 39.1 42.6 45.8 59.6 58.6 47.0
1

 RECEIVER    LEQ(H)   L10
 17           64.5   67.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          19.2 22.2 23.9 25.4 27.3 38.3
   2        1    2    3    4    5    6
          37.1 31.1 29.2 32.9 37.1 38.0
   3        1
          36.0
   4        1    2    3
          33.9 33.6 28.6
   5        1    2    3    4    5    6
          24.9 21.6 21.3 25.7 27.6 24.5
   6        1    2    3
          21.1 20.3 24.1
   7        1    2    3    4
          24.1 20.1 21.0 22.9
   8        1    2    3    4    5    6
          27.6 25.8 21.4 21.6 24.9 27.5
   9        1    2    3
          33.6 33.9 35.5
  10        1
          37.9
  11        1    2    3    4    5    6
          38.5 34.9 27.8 30.4 36.5 41.7
  12        1    2    3    4    5
          27.7 25.7 24.2 22.4 19.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.5 41.9 36.8 43.3 44.4 41.5 33.4 32.0 31.1 29.7

          28.5 28.0 26.7 25.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          25.7 26.8 27.9 29.0 29.6 31.3 32.5 33.5 42.8 44.7

          42.8 38.5 42.4 37.7
  15        1    2    3    4    5    6    7    8    9   10

          40.7 44.0 37.1 36.0 34.8 33.6 32.5 31.3 30.4 34.8

  16        1    2    3    4    5    6    7    8    9   10

          34.8 30.4 31.4 32.3 33.5 34.7 35.9 36.9 43.7 40.5

  17        1    2    3    4    5    6    7
          41.7 45.7 55.6 57.1 49.9 45.2 38.4
  18        1    2    3    4    5    6    7
          38.1 45.1 49.8 58.6 56.2 45.8 42.1
1

 RECEIVER    LEQ(H)   L10
 18           62.5   65.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          18.3 21.3 22.3 22.6 22.5 22.2
   2        1    2    3    4    5    6
          22.9 22.7 22.7 29.1 35.6 35.6
   3        1
          35.1
   4        1    2    3
          33.1 33.0 28.0
   5        1    2    3    4    5    6
          24.3 21.0 20.8 25.1 27.1 24.0
   6        1    2    3
          20.7 19.8 23.7
   7        1    2    3    4
          23.7 19.6 20.6 22.5
   8        1    2    3    4    5    6
          27.1 25.2 20.9 21.1 24.4 26.9
   9        1    2    3
          33.0 33.1 34.7
  10        1
          35.8
  11        1    2    3    4    5    6
          36.3 32.7 23.3 23.1 23.3 24.8
  12        1    2    3    4    5
          23.0 23.1 22.8 21.7 18.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          39.9 45.0 40.1 47.4 49.7 51.7 48.1 33.6 30.5 28.8

          27.3 26.4 24.8 23.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.3 24.8 26.4 27.8 28.7 30.6 34.0 46.2 52.3 49.9

          46.7 41.9 45.4 40.0
  15        1    2    3    4    5    6    7    8    9   10

          43.4 44.7 36.7 35.5 34.2 33.0 31.9 30.9 30.0 34.5

  16        1    2    3    4    5    6    7    8    9   10
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```
          34.6 30.0 30.9 31.8 32.9 34.1 35.4 36.6 44.5 43.1

  17        1    2    3    4    5    6    7
          21.8 25.1 32.6 50.6 52.1 48.6 41.0
  18        1    2    3    4    5    6    7
          40.9 48.8 52.8 50.9 30.6 25.0 21.9
1

 RECEIVER    LEQ(H)   L10
 19           62.0   64.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          19.1 21.9 22.6 22.2 21.6 21.6
   2        1    2    3    4    5    6
          23.3 23.7 23.6 26.4 34.4 33.9
   3        1
          33.6
   4        1    2    3
          32.6 32.5 27.6
   5        1    2    3    4    5    6
          24.0 20.7 20.4 24.8 26.8 23.7
   6        1    2    3
          20.4 19.5 23.4
   7        1    2    3    4
          23.4 19.3 20.3 22.2
   8        1    2    3    4    5    6
          26.8 24.9 20.5 20.7 24.0 26.5
   9        1    2    3
          32.6 32.7 33.5
  10        1
          34.4
  11        1    2    3    4    5    6
          35.2 29.0 24.2 24.1 23.8 24.1
  12        1    2    3    4    5
          22.0 22.7 23.1 22.3 19.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          40.3 45.5 40.8 48.2 50.8 53.3 46.9 36.1 32.5 29.7

          27.9 26.7 24.9 23.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.5 25.0 26.7 28.4 29.6 32.7 36.5 46.9 52.1 51.0

          47.5 42.5 46.0 40.4
  15        1    2    3    4    5    6    7    8    9   10

          44.3 44.6 36.1 34.8 33.6 32.4 31.4 30.4 29.6 34.2

  16        1    2    3    4    5    6    7    8    9   10

          34.3 29.6 30.5 31.3 32.4 33.5 34.8 36.0 44.4 43.9

  17        1    2    3    4    5    6    7
          21.8 25.4 29.3 46.0 49.3 48.3 41.4
  18        1    2    3    4    5    6    7
          41.3 48.6 49.8 45.0 28.6 25.3 21.6
1

 RECEIVER    LEQ(H)   L10
 20           69.5   72.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          40.3 30.3 24.7 23.6 22.8 22.4
   2        1    2    3    4    5    6
          23.4 22.9 21.8 24.3 23.4 22.4
   3        1
          21.3
   4        1    2    3
          20.3 24.0 23.6
   5        1    2    3    4    5    6
          20.0 16.7 16.4 20.8 20.8 13.4
   6        1    2    3
          10.3  9.6 15.8
   7        1    2    3    4
          17.0  9.4 10.2 11.9
   8        1    2    3    4    5    6
          22.1 20.9 16.5 16.8 20.0 22.5
   9        1    2    3
          26.2 21.1 21.1
  10        1
          22.4
  11        1    2    3    4    5    6
          23.7 25.0 22.6 23.0 23.7 24.8
  12        1    2    3    4    5
          23.0 24.3 25.1 30.8 40.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          41.2 46.5 42.0 49.7 53.1 57.9 61.7 59.6 55.5 51.8

          49.2 43.7 33.9 31.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.7 33.6 42.2 49.6 51.7 55.7 60.5 62.6 58.9 53.2

          49.0 43.7 46.9 41.2
  15        1    2    3    4    5    6    7    8    9   10

          44.7 41.4 33.5 32.5 31.6 31.0 30.1 29.3 28.6 33.4

  16        1    2    3    4    5    6    7    8    9   10

          33.4 28.5 29.3 30.0 30.9 31.6 32.5 33.5 41.4 44.4

  17        1    2    3    4    5    6    7
          21.2 23.4 24.6 30.9 39.5 41.2 37.7
  18        1    2    3    4    5    6    7
          37.7 41.4 39.7 30.0 23.8 23.4 21.5
1

 RECEIVER    LEQ(H)   L10
 21           69.3   71.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          39.4 32.8 24.5 22.0 20.4 19.3
   2        1    2    3    4    5    6
          19.6 18.5 16.8 18.3 16.5 14.8
   3        1
          13.1
   4        1    2    3
          11.4 11.4  6.6
   5        1    4    5    6
           3.0  3.9  5.9  2.9
   6        3
           2.6
   7        1    4
           2.7  1.4
   8        1    2    5    6
           5.9  4.0  3.1  5.4
   9        1    2    3
          11.4 11.5 12.8
  10        1
          14.6
  11        1    2    3    4    5    6
          16.6 18.4 16.8 18.5 19.8 21.6
  12        1    2    3    4    5
          20.5 22.4 24.9 33.8 40.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          40.1 45.3 40.7 48.2 51.1 54.9 59.2 61.4 58.6 54.3

          49.4 45.2 36.3 29.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.4 34.2 44.4 49.5 54.3 59.1 62.6 59.8 55.6 51.2

          47.4 42.4 45.7 40.2
  15        1    2    3    4    5    6    7    8    9   10

          40.3 23.3 13.3 12.3 11.3 10.3  9.5  8.7  8.1 13.2

  16        1    2    3    4    5    6    7    8    9   10

          13.3  8.1  8.7  9.4 10.3 11.2 12.2 13.2 23.3 40.1

  17        1    2    3    4    5    6    7
          17.5 19.0 19.6 20.3 22.1 23.2 20.0
  18        1    2    3    4    5    6    7
          20.0 23.5 22.4 20.3 19.6 19.2 17.4
1

 RECEIVER    LEQ(H)   L10
 22           69.4   71.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          46.1 36.5 26.6 23.3 21.1 19.7
   2        1    2    3    4    5    6
          19.9 18.7 16.8 18.3 16.4 14.7
   3        1
          13.1
   4        1    2    3
          11.3 11.3  6.5
   5        1    4    5    6
           2.9  3.8  5.8  2.8
   6        3
           2.5
   7        1    4
           2.5  1.3
   8        1    2    5    6
           5.8  3.9  2.9  5.4
   9        1    2    3
          11.4 11.3 12.6
  10        1
          14.5
  11        1    2    3    4    5    6
          16.5 18.4 16.9 18.7 20.0 22.0
  12        1    2    3    4    5
          21.2 23.6 27.1 37.7 46.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          39.4 44.5 39.7 47.1 49.7 52.9 56.6 60.5 61.0 56.8

          53.0 48.6 40.4 32.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.1 38.3 47.2 53.6 57.0 62.0 61.6 56.8 53.5 49.7

          46.3 41.4 44.9 39.4
  15        1    2    3    4    5    6    7    8    9   10

          36.3 23.4 13.7 12.6 11.7 10.7 10.0  9.2  8.8 13.9

  16        1    2    3    4    5    6    7    8    9   10

          14.0  8.7  9.3  9.9 10.7 11.6 12.7 13.7 23.4 36.3

  17        1    2    3    4    5    6    7
          17.7 19.0 19.2 19.6 21.2 23.1 19.9
  18        1    2    3    4    5    6    7
          19.9 23.3 21.4 19.6 19.3 19.1 17.5
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                    *************************
                           STAM2VU1
                         Version 1.20
                    *************************
                        STAMINA 2.0/BCR
              MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
                  TRAFFIC NOISE PREDICTION MODEL

        MODIFIED TO:
          1.   ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
          2.   CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY
               USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
          3.   PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A
               DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE
               LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.
                    *************************
           MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
               BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
                       AND BOWLBY & ASSOCIATES, INC.
                          2014 BROADWAY, SUITE 210
                          NASHVILLE, TN 37203-2425
                     TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE
HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK
CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE
*.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.


          (INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH )


 Meadowood - Casitas 2nd Floor (Receivers 1-22)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

      HEIGHT       CODE            DESCRIPTION
         .00          1       RECEIVER HEIGHT ADJUSTMENT
        1.00          2       A-WEIGHTED SOUND LEVEL ONLY
         .00          3       HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
         .00          4       HEIGHT ADJUSTMENT FOR HEAVY TRUCKS   (HT)
         .00          5       HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS  (MT)
        .000          6       HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4)
                              CARS--CALVENO
                              C0 =      5.20  C1 =      38.80  S0 =        .00
       2.300          7       HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5)
                              MT--CALVENO
                              C0 =     35.30  C1 =      25.60  S0 =        .00
       8.000          8       HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6)
                              HT--CALVENO
                              C0 =     50.40  C1 =      19.20  S0 =        .00


0ROADWAY   1      HRC nb (76 to Pankey)


                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                      CARS                 0.        30.0
                      HT                   0.        30.0
                      MT                   0.        30.0
                      VEH4               415.        40.0
                      VEH5                13.        40.0
                      VEH6                 9.        40.0
0                   ------------COORDINATES-------------
                          X           Y            Z     GRADE
 1                    6287767.4   2067284.0      276.0      0
 2                    6287704.7   2067456.2      276.0      0
 3                    6287629.7   2067702.5      279.0      0
 4                    6287568.8   2067936.5      284.0      0
 5                    6287512.3   2068148.3      284.0      0
 6                    6287446.9   2068359.4      282.0      0
 7                    6287374.5   2068606.6      279.0      0


0ROADWAY   2      HRC nb (Pankey to School)


                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                      CARS                 0.        30.0
                      HT                   0.        30.0
                      MT                   0.        30.0
                      VEH4               695.        40.0
                      VEH5                22.        40.0
                      VEH6                15.        40.0
0                   ------------COORDINATES-------------
                          X           Y            Z     GRADE
 7                    6287374.5   2068606.6      279.0      0
 8                    6287273.9   2068832.6      278.0      0
 9                    6287137.9   2069057.7      278.0      0
 10                   6287017.0   2069263.4      280.0      0
 11                   6286760.9   2069688.9      285.0      0
 12                   6286533.2   2070137.4      290.0      0
 13                   6286310.7   2070587.7      296.0      0


0ROADWAY   3      HRC nb (School to 26)


                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                      CARS                 0.        30.0
                      HT                   0.        30.0
                      MT                   0.        30.0
                      VEH4               689.        40.0
                      VEH5                22.        40.0
                      VEH6                15.        40.0
0                   ------------COORDINATES-------------
                          X           Y            Z     GRADE
 13                   6286310.7   2070587.7      296.0      0
 14                   6286086.4   2071030.0      302.0      0


0ROADWAY   4      HRC nb (26 to Harvest Glen)


                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                      CARS                 0.        30.0
                      HT                   0.        30.0
                      MT                   0.        30.0
                      VEH4               634.        40.0
                      VEH5                20.        40.0
                      VEH6                13.        40.0
0                   ------------COORDINATES-------------
                          X           Y            Z     GRADE
 14                   6286086.4   2071030.0      302.0      0
 15                   6285859.5   2071475.8      308.0      0
 16                   6285540.8   2072106.2      311.0      0
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 17                   6285403.1   2072385.2      310.0      0


0ROADWAY   5      HRC nb (Harvest Glen to Longspur)


                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                      CARS                 0.        30.0
                      HT                   0.        30.0
                      MT                   0.        30.0
                      VEH4               488.        40.0
                      VEH5                15.        40.0
                      VEH6                10.        40.0
0                   ------------COORDINATES-------------
                          X           Y            Z     GRADE
 17                   6285403.1   2072385.2      310.0      0
 18                   6285328.1   2072574.1      310.0      0
 19                   6285298.0   2072673.9      310.0      0
 20                   6285270.7   2072773.6      311.0      0
 21                   6285221.2   2073078.2      314.0      0
 22                   6285201.8   2073673.3      322.0      0
 23                   6285188.6   2074037.0      338.0      0


0ROADWAY   6      HRC nb (Longspur to Baltimore)


                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                      CARS                 0.        30.0
                      HT                   0.        30.0
                      MT                   0.        30.0
                      VEH4               347.        40.0
                      VEH5                11.        40.0
                      VEH6                 7.        40.0
0                   ------------COORDINATES-------------
                          X           Y            Z     GRADE
 23                   6285188.6   2074037.0      338.0      0
 24                   6285145.3   2074308.9      346.0      0
 25                   6285056.1   2074546.4      351.0      0
 26                   6284650.0   2075149.4      356.0      0


0ROADWAY   7      HRC sb (Baltimore to Longspur)


                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                      CARS                 0.        30.0
                      HT                   0.        30.0
                      MT                   0.        30.0
                      VEH4               347.        40.0
                      VEH5                11.        40.0
                      VEH6                 7.        40.0
0                   ------------COORDINATES-------------
                          X           Y            Z     GRADE
 1                    6284621.8   2075132.6      356.0      0
 2                    6285015.5   2074527.9      351.0      0
 3                    6285099.4   2074300.1      346.0      0
 4                    6285141.8   2074033.5      338.0      0
 5                    6285159.4   2073671.5      322.0      0


0ROADWAY   8      HRC sb (Longspur to Harvest Glen)


                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                      CARS                 0.        30.0
                      HT                   0.        30.0
                      MT                   0.        30.0
                      VEH4               488.        40.0
                      VEH5                15.        40.0
                      VEH6                10.        40.0
0                   ------------COORDINATES-------------
                          X           Y            Z     GRADE
 5                    6285159.4   2073671.5      322.0      0
 6                    6285181.5   2073072.9      314.0      0
 7                    6285228.3   2072759.5      311.0      0
 8                    6285256.5   2072658.0      310.0      0
 9                    6285287.4   2072557.3      310.0      0
 10                   6285368.7   2072369.3      310.0      0
 11                   6285504.6   2072087.7      311.0      0


0ROADWAY   9      HRC sb (Harvest Glen to 26)


                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                      CARS                 0.        30.0
                      HT                   0.        30.0
                      MT                   0.        30.0
                      VEH4               634.        40.0
                      VEH5                20.        40.0
                      VEH6                13.        40.0
0                   ------------COORDINATES-------------
                          X           Y            Z     GRADE
 11                   6285504.6   2072087.7      311.0      0
 12                   6285818.9   2071457.3      308.0      0
 13                   6286045.8   2071007.9      302.0      0
 14                   6286269.2   2070567.4      296.0      0


0ROADWAY  10      HRC sb (26 to School)


                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                      CARS                 0.        30.0
                      HT                   0.        30.0
                      MT                   0.        30.0
                      VEH4               689.        40.0
                      VEH5                22.        40.0
                      VEH6                14.        40.0
0                   ------------COORDINATES-------------
                          X           Y            Z     GRADE
 14                   6286269.2   2070567.4      296.0      0
 15                   6286493.4   2070122.4      290.0      0


0ROADWAY  11      HRC sb (School to Pankey)


                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                      CARS                 0.        30.0
                      HT                   0.        30.0
                      MT                   0.        30.0
                      VEH4               695.        40.0
                      VEH5                22.        40.0
                      VEH6                15.        40.0
0                   ------------COORDINATES-------------
                          X           Y            Z     GRADE
 15                   6286493.4   2070122.4      290.0      0
 16                   6286720.3   2069667.7      285.0      0
 17                   6286977.2   2069239.6      280.0      0
 18                   6287102.6   2069033.0      278.0      0
 19                   6287238.6   2068813.1      278.0      0
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20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0

	COORDINATES X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

1

BARRIER 1 TYPE(A) Casitas Pad Edges 1

	COORDINATES X	Y	Z	Z0	DELZ	P
29	6287206.9	2067402.8	283.0	283.0	.0	0
1	6287604.1	2067456.6	282.0	282.0		
2	6287556.7	2067611.1	282.0	282.0		
3	6287522.5	2067745.3	281.0	281.0		
4	6287464.5	2067976.1	281.0	281.0		
5	6287454.6	2068015.7	282.0	282.0		
6	6287323.5	2068473.5	278.0	278.0		

1

BARRIER 2 TYPE(A) Casitas Pad Edges 2

	COORDINATES X	Y	Z	Z0	DELZ	P
7a	6287289.2	2068526.0	278.0	278.0	.0	0
7b	6287308.7	2068535.6	278.0	278.0		
8	6287229.9	2068717.4	279.0	279.0		
9	6287128.1	2068905.3	280.0	280.0		
10	6287014.0	2069093.0	280.0	280.0		
10b	6286997.0	2069082.5	280.0	280.0		

1

BARRIER 3 TYPE(A) Casitas Pad Edges 3

	COORDINATES X	Y	Z	Z0	DELZ	P
11a	6286968.3	2069123.7	280.0	280.0	.0	0
11b	6286988.0	2069135.7	280.0	280.0		
12	6286743.4	2069547.7	282.0	282.0		
13	6286725.9	2069542.1	282.0	282.0		
14	6286765.9	2068976.7	281.0	281.0		
15	6286777.9	2068737.8	280.0	280.0		
16	6286837.9	2068587.8	280.0	280.0		
17	6286891.7	2068511.8	280.0	280.0		
18	6286906.9	2068334.1	278.0	278.0		
19	6287116.7	2068459.9	278.0	278.0		

1

BARRIER 4 TYPE(A) Casitas Pad Edges 4

	COORDINATES X	Y	Z	Z0	DELZ	P
20	6287150.1	2068366.2	277.0	277.0	.0	0
21	6287134.3	2068401.8	277.0	277.0		
22	6286900.0	2068252.6	277.0	277.0		
23	6286818.7	2068179.5	276.0	276.0		
24	6286828.9	2068007.0	277.0	277.0		
25	6286839.7	2067846.7	278.0	278.0		
26	6286850.6	2067683.4	281.0	281.0		
27	6286860.1	2067542.5	282.0	282.0		
28	6286869.1	2067378.1	282.0	282.0		
29	6287206.9	2067402.8	283.0	283.0		

1

BARRIER 5 TYPE(A) Casitas Building 1

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6287497.3	2067458.5	302.0	282.0	.0	0
2	6287525.1	2067616.7	302.0	282.0		
3	6287387.6	2067647.9	302.0	282.0		
4	6287361.7	2067482.3	302.0	282.0		
1	6287497.3	2067458.5	302.0	282.0		

1

BARRIER 6 TYPE(A) Casitas Building 2

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6287377.4	2067888.6	301.0	281.0	.0	0
2	6287409.2	2067761.8	301.0	281.0		
3	6287490.6	2067771.9	301.0	281.0		
4	6287453.7	2067918.0	301.0	281.0		
1	6287377.4	2067888.6	301.0	281.0		

1

BARRIER 7 TYPE(A) Casitas Building 3

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6287312.3	2068240.1	299.0	279.0	.0	0
2	6287375.3	2068155.1	302.0	282.0		
3	6287370.5	2068144.6	302.0	282.0		
4	6287446.1	2068032.8	302.0	282.0		
5	6287315.3	2067948.4	302.0	282.0		
6	6287177.5	2068176.3	299.0	279.0		
1	6287312.3	2068240.1	299.0	279.0		

1

BARRIER 8 TYPE(A) Casitas Building 4

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
1	6287319.6	2068419.7	298.0	278.0	.0	0
2	6287360.3	2068274.7	298.0	278.0		
3	6287243.1	2068251.4	298.0	278.0		
4	6287203.8	2068377.5	298.0	278.0		
1	6287319.6	2068419.7	298.0	278.0		

1

BARRIER 9 TYPE(A) Casitas Building 5

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
1	6287260.5	2068558.5	298.0	278.0	.0	0
2	6287207.1	2068708.5	298.0	278.0		
3	6287124.2	2068857.1	298.0	278.0		
4	6287032.0	2068779.0	298.0	278.0		
5	6287101.2	2068664.2	298.0	278.0		
6	6287156.3	2068526.9	298.0	278.0		
1	6287260.5	2068558.5	298.0	278.0		

1

BARRIER 10 TYPE(A) Casitas Building 6

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
1	6287009.5	2069059.4	300.0	280.0	.0	0
2	6286866.6	2068963.8	300.0	280.0		
3	6286848.9	2068934.9	300.0	280.0		
4	6286839.3	2068915.6	300.0	280.0		
5	6286878.5	2068816.4	300.0	280.0		
6	6286921.8	2068803.8	300.0	280.0		
7	6286958.5	2068787.7	300.0	280.0		
8	6286950.1	2068760.1	300.0	280.0		
9	6287008.0	2068739.9	300.0	280.0		
10	6287050.2	2068848.7	300.0	280.0		

1

BARRIER 11 TYPE(A) Casitas Building 6 cont.

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
10	6287050.2	2068848.7	300.0	280.0	.0	0
11	6286994.5	2068869.8	300.0	280.0		
12	6286984.0	2068885.6	300.0	280.0		
13	6287076.3	2068944.5	300.0	280.0		
1	6287009.5	2069059.4	300.0	280.0		

1

BARRIER 12 TYPE(A) Casitas Building 7

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
1	6286962.4	2069131.0	300.0	280.0	.0	0
2	6286906.6	2069240.8	300.0	280.0		
3	6286806.8	2069180.9	300.0	280.0		
4	6286820.1	2069112.3	300.0	280.0		
5	6286847.7	2069065.5	300.0	280.0		
1	6286962.4	2069131.0	300.0	280.0		

1

BARRIER 13 TYPE(A) Casitas Building 8

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
1	6286919.7	2068586.0	298.0	278.0	.0	0
2	6286975.4	2068445.9	298.0	278.0		
3	6287085.1	2068493.1	298.0	278.0		
4	6287067.7	2068536.8	298.0	278.0		
5	6287037.8	2068526.8	298.0	278.0		
6	6287011.4	2068608.3	298.0	278.0		
1	6286919.7	2068586.0	298.0	278.0		

1

BARRIER 14 TYPE(A) Casitas Building 9

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
1	6286923.9	2068215.3	296.0	276.0	.0	0
2	6286835.4	2068093.4	296.0	276.0		
3	6286940.2	2068028.8	296.0	276.0		
4	6286989.9	2068155.0	296.0	276.0		
1	6286923.9	2068215.3	296.0	276.0		

1

BARRIER 15 TYPE(A) Casitas Building 10 and 11

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
1	6286841.2	2068002.8	297.0	277.0	.0	0
2	6286851.3	2067852.5	297.0	277.0		
1	6286863.2	2067826.9	298.0	278.0		
2	6286871.6	2067705.5	298.0	278.0		
3	6286971.5	2067707.9	298.0	278.0		
4	6286971.6	2067840.2	298.0	278.0		
3	6286973.3	2067870.0	297.0	277.0		
4	6286964.4	2068001.7	297.0	277.0		
1	6286841.2	2068002.8	297.0	277.0		

1

BARRIER 16 TYPE(A) Casitas Building 12

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
1	6286863.0	2067678.2	300.0	280.0	.0	0
2	6286870.7	2067553.9	300.0	280.0		
3	6286904.5	2067556.2	300.0	280.0		
4	6286983.9	2067633.8	300.0	280.0		
5	6286986.1	2067679.0	300.0	280.0		
1	6286863.0	2067678.2	300.0	280.0		

1

BARRIER 17 TYPE(A) Casitas Building 13

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
1	6287022.0	2067602.5	302.0	282.0	.0	0
2	6286881.6	2067531.7	302.0	282.0		
3	6286959.8	2067397.1	302.0	282.0		
4	6287056.7	2067467.7	302.0	282.0		
5	6287099.5	2067532.8	302.0	282.0		
1	6287022.0	2067602.5	302.0	282.0		

1

BARRIER 18 TYPE(A) Casitas Building 14

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
1	6287070.3	2067443.8	302.0	282.0	.0	0
2	6287069.5	2067409.8	302.0	282.0		
3	6287185.4	2067419.7	302.0	282.0		
4	6287171.1	2067519.2	302.0	282.0		
5	6287137.3	2067516.5	302.0	282.0		
6	6287140.8	2067450.4	302.0	282.0		
1	6287070.3	2067443.8	302.0	282.0		

1

BARRIER 19 TYPE(A) Casitas Building 15

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
1	6287196.7	2067529.8	302.0	282.0	.0	0
2	6287205.1	2067425.2	302.0	282.0		
3	6287359.9	2067441.9	302.0	282.0		
4	6287350.0	2067548.3	302.0	282.0		
1	6287196.7	2067529.8	302.0	282.0		

1

BARRIER 20 TYPE(A) Casitas Building 16

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
1	6287093.0	2067613.4	300.0	280.0	.0	0
2	6287269.9	2067629.2	301.0	281.0		
3	6287322.9	2067690.9	301.0	281.0		
4	6287306.7	2067915.3	300.0	280.0		
5	6287241.1	2068012.1	300.0	280.0		
6	6287137.3	2068171.3	297.0	277.0		
7	6287043.6	2068104.3	297.0	277.0		
8	6287037.1	2067916.5	299.0	279.0		
9	6287058.4	2067690.4	300.0	280.0		
1	6287093.0	2067613.4	300.0	280.0		

1

Casitas Receivers @ 15'

------------COORDINATES------------

	X	Y	Z
1	6287456.1	2067441.2	297.0
2	6287521.9	2067664.8	295.0
3	6287487.2	2067848.9	296.0
4	6287409.8	2068101.8	297.0
5	6287367.5	2068243.5	294.0
6	6287348.9	2068349.7	293.0
7	6287235.0	2068658.2	292.0
8	6287168.3	2068808.5	294.0
9	6287048.5	2069012.2	295.0
10	6286940.7	2069192.7	295.0
11	6286744.0	2069524.7	295.0
12	6286804.6	2069126.5	295.0
13	6286832.2	2068935.2	296.0
14	6286896.7	2068794.2	295.0
15	6286880.3	2068556.4	292.0
16	6287010.9	2068302.2	292.0
17	6286859.3	2068179.1	291.0
18	6286841.4	2067923.4	292.0
19	6286855.4	2067766.2	293.0
20	6286919.2	2067384.1	297.0
21	6287123.6	2067405.7	297.0
22	6287290.3	2067421.2	297.0

1

ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
13 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
14 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
16 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								

1

SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								

```
 4 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 5 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 6 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 7 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 8 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 9 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
10 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
11 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
12 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
13 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
14 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
15 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
16 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
17 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
18 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
1

 RECEIVER    LEQ(H)   L10
 1            69.8   72.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           50.1 46.8 36.9 33.3 30.9 29.4
   2        1    2    3    4    5    6
           29.5 28.2 26.6 28.2 26.4 24.8
   3        1
           23.2
   4        1    2    3
           21.5 21.7 16.9
   5        1    2    3    4    5    6
           13.3 10.1  9.8 14.2 16.1 13.1
   6        1    2    3
            9.9  9.2 12.9
   7        1    2    3    4
           13.0  9.0  9.8 11.6
   8        1    2    3    4    5    6
           16.1 14.3  9.9 10.1 13.4 15.8
   9        1    2    3
           21.7 21.6 22.8
  10        1
           24.7
  11        1    2    3    4    5    6
           26.5 28.1 26.3 28.1 29.6 31.7
  12        1    2    3    4    5
           31.0 33.6 37.1 47.8 51.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           38.6 43.7 38.8 46.1 48.4 51.2 54.2 58.1 61.7 59.6

           55.4 52.3 49.3 47.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           47.1 49.3 52.3 56.1 60.2 62.8 58.7 54.2 51.8 48.5

           45.3 40.5 44.0 38.7
  15        1    2    3    4    5    6    7    8    9   10

           37.2 31.3 24.3 23.4 22.5 21.6 21.0 20.3 19.8 25.0

  16        1    2    3    4    5    6    7    8    9   10

           24.9 19.8 20.3 20.9 21.6 22.4 23.4 24.3 31.2 37.1

  17        1    2    3    4    5    6    7
           24.3 27.4 25.8 25.1 28.7 30.0 25.6
  18        1    2    3    4    5    6    7
           25.3 30.0 28.7 24.5 25.1 27.1 23.3
1

 RECEIVER    LEQ(H)   L10
 2            67.5   70.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           48.2 56.8 56.4 48.8 44.7 42.3
   2        1    2    3    4    5    6
           40.7 32.0 30.1 31.6 29.7 28.0
   3        1
           26.4
   4        1    2    3
           24.7 24.8 19.9
   5        1    2    3    4    5    6
           16.3 13.0 12.8 17.1 19.2 16.2
   6        1    2    3
           13.1 12.3 16.1
   7        1    2    3    4
           16.1 12.1 13.0 14.7
   8        1    2    3    4    5    6
           19.1 17.2 12.9 13.1 16.3 18.8
   9        1    2    3
           24.8 24.7 25.9
  10        1
           27.9
  11        1    2    3    4    5    6
           29.8 30.7 29.1 31.7 34.1 43.7

  12        1    2    3    4    5
           44.7 49.1 59.1 59.7 48.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           28.2 33.1 28.1 35.2 37.1 39.3 40.9 42.5 49.5 56.1

           54.8 52.8 50.1 47.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           48.1 50.2 53.0 55.7 56.5 49.6 43.0 40.9 39.8 37.3

           34.4 29.8 33.5 28.3
  15        1    2    3    4    5    6    7    8    9   10

           29.6 31.4 25.3 24.8 24.2 23.5 22.9 22.1 21.5 26.4

  16        1    2    3    4    5    6    7    8    9   10

           26.4 21.4 22.2 22.7 23.4 24.1 24.7 25.2 31.3 29.4

  17        1    2    3    4    5    6    7
           26.7 29.2 27.5 26.1 28.4 30.0 25.1
  18        1    2    3    4    5    6    7
           25.0 29.9 28.3 25.6 27.0 29.2 26.2
1

 RECEIVER    LEQ(H)   L10
 3            67.3   70.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           44.6 51.2 58.7 54.9 48.2 44.7
   2        1    2    3    4    5    6
           43.6 35.3 31.6 33.1 31.1 29.3
   3        1
           27.7
   4        1    2    3
           25.9 25.9 21.0
   5        1    2    3    4    5    6
           17.4 14.1 13.9 18.2 20.2 17.3
   6        1    2    3
           14.2 13.4 17.2
   7        1    2    3    4
           17.2 13.2 14.0 15.8
   8        1    2    3    4    5    6
           20.2 18.3 13.9 14.2 17.4 19.9
   9        1    2    3
           25.9 26.0 27.2
  10        1
           29.2
  11        1    2    3    4    5    6
           31.2 32.3 30.8 33.4 40.0 46.9
  12        1    2    3    4    5
           48.4 56.5 62.4 51.6 44.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           25.8 30.8 25.8 33.0 35.0 37.3 39.2 41.2 44.0 53.1

           52.8 51.7 49.5 47.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           47.9 49.7 51.8 53.5 53.3 43.7 41.2 38.9 37.7 35.1

           32.2 27.5 31.1 25.9
  15        1    2    3    4    5    6    7    8    9   10

           26.9 27.6 21.1 20.5 19.9 19.2 18.5 17.7 16.9 21.5

  16        1    2    3    4    5    6    7    8    9   10

           21.5 16.9 17.6 18.3 19.1 19.8 20.4 20.9 27.4 26.7

  17        1    2    3    4    5    6    7
           29.2 31.0 29.6 26.2 28.9 28.3 23.1
  18        1    2    3    4    5    6    7
           22.9 28.4 29.1 25.8 29.3 30.8 28.7
1

 RECEIVER    LEQ(H)   L10
 4            66.2   69.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           31.6 40.8 50.3 57.1 56.2 49.6
   2        1    2    3    4    5    6
           46.9 43.8 35.0 35.5 33.3 31.6
   3        1
           30.0
   4        1    2    3
           28.0 27.8 22.9
   5        1    2    3    4    5    6
           19.2 15.9 15.6 20.0 21.9 18.9
   6        1    2    3
           15.7 14.8 18.6
   7        1    2    3    4
           18.6 14.6 15.5 17.4
   8        1    2    3    4    5    6
           21.9 20.1 15.7 15.9 19.3 21.7
   9        1    2    3
           27.8 28.0 29.5
  10        1
           31.4
  11        1    2    3    4    5    6
           32.9 34.5 33.4 40.9 47.0 52.1
  12        1    2    3    4    5
           58.8 60.5 48.2 35.5 31.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           23.3 28.2 23.2 30.3 32.1 34.1 35.6 37.1 39.7 43.8

           50.1 49.7 48.2 46.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           47.0 48.3 49.8 50.7 42.9 39.7 37.2 35.4 34.6 32.2

           29.5 24.9 28.6 23.4
  15        1    2    3    4    5    6    7    8    9   10

           24.5 26.2 20.3 20.0 19.5 18.8 18.2 17.3 16.5 20.9

  16        1    2    3    4    5    6    7    8    9   10
```

```
          20.9 16.4 17.3 17.9 18.6 19.3 19.8 20.1 25.9 24.3

  17        1    2    3    4    5    6    7
          39.6 34.2 32.2 28.0 28.3 26.9 21.3
  18        1    2    3    4    5    6    7
          21.1 27.0 28.5 27.3 31.9 34.4 39.7
1

 RECEIVER    LEQ(H)   L10
 5            66.4   69.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          39.4 43.4 47.0 52.2 58.2 53.9
   2        1    2    3    4    5    6
          49.4 43.9 33.9 34.5 31.8 29.5
   3        1
          27.5
   4        1    2    3
          25.5 25.4 20.4
   5        1    2    3    4    5    6
          16.7 13.4 13.1 17.4 19.4 16.4
   6        1    2    3
          13.2 12.3 16.2
   7        1    2    3    4
          16.1 12.1 13.1 14.8
   8        1    2    3    4    5    6
          19.4 17.5 13.2 13.4 16.7 19.3
   9        1    2    3
          25.4 25.6 27.1
  10        1
          29.4
  11        1    2    3    4    5    6
          31.8 34.5 34.0 37.7 49.6 57.4
  12        1    2    3    4    5
          61.5 53.0 47.1 40.6 29.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.3 32.1 27.1 33.9 35.6 36.9 36.9 37.2 38.2 46.6

          48.9 48.6 47.4 46.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          46.4 47.5 48.7 49.5 46.5 38.0 37.0 36.5 37.3 35.8

          33.2 28.7 32.5 27.5
  15        1    2    3    4    5    6    7    8    9   10

          28.5 33.8 31.5 26.5 25.6 24.6 23.8 22.9 22.1 26.9

  16        1    2    3    4    5    6    7    8    9   10

          26.9 22.1 22.9 23.6 24.5 25.5 26.5 31.7 33.3 28.3

  17        1    2    3    4    5    6    7
          41.9 36.0 37.4 33.8 30.8 30.8 25.4
  18        1    2    3    4    5    6    7
          25.2 30.8 30.8 31.2 37.3 36.0 42.5
1

 RECEIVER    LEQ(H)   L10
 6            67.7   71.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          38.5 42.2 45.2 49.2 56.8 58.2
   2        1    2    3    4    5    6
          51.8 47.3 42.6 39.8 32.9 30.4
   3        1
          28.4
   4        1    2    3
          26.3 26.0 20.9
   5        1    2    3    4    5    6
          17.2 13.9 13.7 18.1 21.0 23.2
   6        1    2    3
          21.1 20.3 23.9
   7        1    2    3    4
          23.1 20.1 21.0 19.9
   8        1    2    3    4    5    6
          20.6 18.1 13.7 13.9 17.1 19.7
   9        1    2    3
          25.9 26.1 27.7
  10        1
          30.1
  11        1    2    3    4    5    6
          32.6 35.9 40.1 46.9 52.3 63.8
  12        1    2    3    4    5
          59.1 49.5 45.2 42.2 37.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.6 28.5 23.4 30.6 32.4 34.4 35.5 36.3 37.3 46.5

          48.1 48.0 46.9 45.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          46.0 47.0 48.0 48.6 46.7 37.0 36.1 35.1 34.9 32.5

          29.8 25.0 28.9 23.7
  15        1    2    3    4    5    6    7    8    9   10

          24.5 26.2 20.1 19.7 19.0 18.3 17.5 16.6 15.8 20.4

  16        1    2    3    4    5    6    7    8    9   10

          20.4 15.8 16.6 17.3 18.1 18.9 19.5 19.9 26.0 24.4

  17        1    2    3    4    5    6    7
          48.8 36.7 32.4 29.3 28.1 26.7 21.2
  18        1    2    3    4    5    6    7
          21.1 26.8 28.2 29.3 32.3 36.6 49.6
1

 RECEIVER    LEQ(H)   L10
 7            67.9   71.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          33.9 38.6 41.0 43.2 46.7 53.7
   2        1    2    3    4    5    6
          60.9 54.6 48.3 46.9 42.7 39.7
   3        1
          37.3
   4        1    2    3
          34.9 34.5 29.4
   5        1    2    3    4    5    6
          25.6 22.3 22.0 26.4 28.2 25.1
   6        1    2    3
          21.8 20.9 24.7
   7        1    2    3    4
          24.7 20.7 21.7 23.6
   8        1    2    3    4    5    6
          28.2 26.5 22.1 22.4 25.7 28.2
   9        1    2    3
          34.5 35.0 36.8
  10        1
          39.1
  11        1    2    3    4    5    6
          41.6 45.7 48.4 55.2 64.2 56.6
  12        1    2    3    4    5
          46.8 43.3 41.1 34.3 28.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.9 26.7 21.7 28.7 30.4 32.0 33.2 33.9 35.0 42.7

          45.8 45.9 45.0 44.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          44.4 45.1 45.9 46.3 43.4 34.6 33.7 32.7 32.5 30.4

          27.9 23.3 27.0 21.9
  15        1    2    3    4    5    6    7    8    9   10

          22.5 24.7 19.1 18.8 18.2 17.5 16.8 15.8 15.0 19.5

  16        1    2    3    4    5    6    7    8    9   10

          19.5 14.9 15.8 16.5 17.3 18.1 18.7 18.9 24.6 22.4

  17        1    2    3    4    5    6    7
          49.5 35.2 30.7 27.6 26.3 24.9 19.5
  18        1    2    3    4    5    6    7
          19.2 25.0 26.4 27.6 30.7 35.4 48.7
1

 RECEIVER    LEQ(H)   L10
 8            68.0   71.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          31.7 36.3 39.4 41.2 44.0 48.9
   2        1    2    3    4    5    6
          58.6 60.4 51.9 49.0 43.9 40.6
   3        1
          38.0
   4        1    2    3
          35.5 35.0 29.8
   5        1    2    3    4    5    6
          26.1 22.7 22.5 26.8 28.6 25.5
   6        1    2    3
          22.1 21.2 25.0
   7        1    2    3    4
          25.0 21.0 22.0 24.0
   8        1    2    3    4    5    6
          28.7 26.9 22.5 22.8 26.1 28.7
   9        1    2    3
          35.0 35.6 37.5
  10        1
          40.4
  11        1    2    3    4    5    6
          44.0 49.1 52.3 63.4 60.6 51.2
  12        1    2    3    4    5
          43.9 41.3 36.4 30.8 26.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          25.8 30.6 25.5 32.5 33.8 35.2 33.8 33.5 34.1 40.6

          44.8 45.0 44.2 43.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          43.5 44.2 45.0 45.3 41.4 33.7 33.2 33.3 35.6 33.9

          31.7 27.2 31.0 25.9
  15        1    2    3    4    5    6    7    8    9   10

          26.3 29.2 23.9 23.7 23.3 22.6 21.9 21.0 20.2 24.7

  16        1    2    3    4    5    6    7    8    9   10

          24.7 20.1 21.0 21.7 22.4 23.1 23.5 23.7 29.0 26.2

  17        1    2    3    4    5    6    7
          41.6 33.1 30.2 30.4 30.0 28.7 23.4
  18        1    2    3    4    5    6    7
          23.2 28.7 30.0 30.9 30.4 33.5 41.2
1

 RECEIVER    LEQ(H)   L10
 9            68.1   71.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.6 29.5 31.3 35.4 41.0 44.5
   2        1    2    3    4    5    6
          51.0 59.5 59.7 53.2 46.0 42.0
   3        1
          39.1
   4        1    2    3
          36.5 35.8 30.5
   5        1    2    3    4    5    6
          26.7 23.4 23.1 27.4 29.2 26.0
   6        1    2    3
          22.6 21.7 25.5
   7        1    2    3    4
          25.4 21.5 22.5 24.5
   8        1    2    3    4    5    6
          29.2 27.4 23.1 23.4 26.8 29.4
   9        1    2    3
          35.8 36.5 38.6
  10        1
          41.9
  11        1    2    3    4    5    6
          46.1 53.4 63.0 61.9 51.3 46.4
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 12        1    2    3    4    5
          36.9 32.3 30.6 26.5 24.5
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          22.8 27.5 22.4 29.2 30.7 31.9 32.1 32.2 32.8 36.3

          42.6 43.7 43.0 42.3
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          42.4 43.0 43.7 43.0 35.9 32.4 31.9 31.8 32.5 30.8

          28.4 24.0 27.9 22.9
 15        1    2    3    4    5    6    7    8    9   10

          23.1 26.0 21.1 21.0 20.7 20.0 19.4 18.5 17.6 22.0

 16        1    2    3    4    5    6    7    8    9   10

          22.0 17.5 18.4 19.1 19.9 20.5 20.9 20.9 25.9 23.0

 17        1    2    3    4    5    6    7
          33.1 30.1 28.1 27.4 26.6 25.6 20.2
 18        1    2    3    4    5    6    7
          19.9 25.5 26.6 27.4 27.9 30.3 32.6
1

 RECEIVER    LEQ(H)   L10
 10           68.2   71.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.8 27.9 29.5 30.4 37.9 41.9
   2        1    2    3    4    5    6
          47.1 52.4 60.1 59.5 48.4 43.5
   3        1
          40.2
   4        1    2    3
          37.3 36.5 31.1
   5        1    2    3    4    5    6
          27.3 24.0 23.6 27.9 29.7 26.5
   6        1    2    3
          23.1 22.1 25.9
   7        1    2    3    4
          25.8 21.9 23.0 24.9
   8        1    2    3    4    5    6
          29.7 28.0 23.7 24.0 27.4 30.0
   9        1    2    3
          36.5 37.4 39.7
  10        1
          43.3
  11        1    2    3    4    5    6
          48.5 61.8 63.6 52.6 47.2 42.6
  12        1    2    3    4    5
          32.0 30.3 28.7 25.3 23.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.2 27.0 21.8 28.7 30.1 31.4 31.3 31.2 31.8 34.7

          40.2 42.7 42.0 41.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          41.4 42.0 42.7 40.5 34.3 31.3 31.0 31.0 32.0 30.2

          28.0 23.5 27.4 22.3
  15        1    2    3    4    5    6    7    8    9   10

          22.4 25.3 20.6 20.6 20.3 19.7 19.0 18.1 17.2 21.6

  16        1    2    3    4    5    6    7    8    9   10

          21.5 17.2 18.1 18.8 19.6 20.1 20.5 20.4 25.2 22.3

  17        1    2    3    4    5    6    7
          29.1 27.8 27.1 26.5 25.8 24.8 19.6
  18        1    2    3    4    5    6    7
          19.3 24.8 25.9 26.4 26.9 28.2 28.6
1

 RECEIVER    LEQ(H)   L10
 11           68.5   72.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          21.6 25.3 27.4 28.3 33.0 37.9
   2        1    2    3    4    5    6
          42.6 45.6 48.9 62.4 55.7 47.0
   3        1
          42.6
   4        1    2    3
          39.2 38.0 32.4
   5        1    2    3    4    5    6
          28.5 25.1 24.7 29.0 30.7 27.4
   6        1    2    3
          23.9 23.0 26.6
   7        1    2    3    4
          26.6 22.8 23.8 25.8
   8        1    2    3    4    5    6
          30.7 29.1 24.8 25.1 28.5 31.3
   9        1    2    3
          38.0 39.2 42.1
  10        1
          46.8
  11        1    2    3    4    5    6
          56.3 65.8 49.1 45.6 42.6 37.5
  12        1    2    3    4    5
          28.7 27.5 25.9 23.2 21.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          34.9 39.4 34.1 40.6 41.5 42.0 38.4 29.5 30.2 33.0

          37.2 41.1 40.4 39.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          39.8 40.4 41.0 37.8 32.5 29.7 29.2 36.9 42.5 41.7

          39.9 35.7 39.8 35.0
  15        1    2    3    4    5    6    7    8    9   10

          34.4 38.2 33.9 34.3 34.3 33.9 33.2 32.3 31.3 35.6

  16        1    2    3    4    5    6    7    8    9   10

          35.6 31.2 32.2 33.0 33.7 34.1 34.1 33.7 38.0 34.3

  17        1    2    3    4    5    6    7
          23.9 23.7 30.5 34.2 36.4 36.2 31.4
  18        1    2    3    4    5    6    7
          31.2 36.2 36.4 35.1 29.7 24.2 23.6
1

 RECEIVER    LEQ(H)   L10
 12           58.5   60.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          23.0 25.2 28.9 29.9 30.1 31.9
   2        1    2    3    4    5    6
          34.5 37.4 40.6 47.0 47.5 43.4
   3        1
          40.1
   4        1    2    3
          37.3 36.5 31.1
   5        1    2    3    4    5    6
          27.3 23.9 23.6 27.9 29.7 26.4
   6        1    2    3
          23.0 22.1 25.8
   7        1    2    3    4
          25.8 21.9 22.9 24.9
   8        1    2    3    4    5    6
          29.7 28.0 23.7 24.0 27.3 30.0
   9        1    2    3
          36.5 37.4 39.7
  10        1
          43.3
  11        1    2    3    4    5    6
          48.0 48.5 40.4 37.4 35.4 34.0
  12        1    2    3    4    5
          30.2 29.4 26.5 24.5 22.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.0 40.6 35.4 42.0 43.0 43.6 38.4 31.4 32.0 33.9

          35.4 33.7 31.2 29.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.0 31.3 33.6 35.8 33.5 31.5 31.1 38.5 44.0 43.2

          41.3 37.0 41.0 36.1
  15        1    2    3    4    5    6    7    8    9   10

          36.1 40.0 35.5 35.6 35.2 34.4 33.5 32.4 31.4 35.5

  16        1    2    3    4    5    6    7    8    9   10

          35.5 31.3 32.4 33.3 34.2 35.0 35.4 35.3 39.8 36.0

  17        1    2    3    4    5    6    7
          26.8 27.3 34.6 35.8 38.9 38.5 33.4
  18        1    2    3    4    5    6    7
          33.1 38.4 39.1 35.2 33.8 27.7 27.3
1

 RECEIVER    LEQ(H)   L10
 13           58.7   61.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          23.7 26.3 27.0 28.2 29.8 32.7
   2        1    2    3    4    5    6
          37.4 38.9 48.0 41.5 44.8 42.0
   3        1
          39.1
   4        1    2    3
          36.5 35.9 30.6
   5        1    2    3    4    5    6
          26.8 23.4 23.1 27.4 29.3 26.0
   6        1    2    3
          22.6 21.7 25.5
   7        1    2    3    4
          25.4 21.5 22.5 24.5
   8        1    2    3    4    5    6
          29.3 27.5 23.2 23.5 26.8 29.4
   9        1    2    3
          35.9 36.6 38.7
  10        1
          41.9
  11        1    2    3    4    5    6
          45.8 42.9 48.4 38.4 36.3 34.8
  12        1    2    3    4    5
          30.7 28.5 26.5 25.0 23.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.5 41.2 36.0 42.7 43.8 44.7 39.9 32.5 33.1 33.5

          33.2 33.0 32.0 31.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.3 32.1 33.0 33.6 33.1 32.6 32.2 39.4 45.2 44.0

          42.0 37.7 41.6 36.6
  15        1    2    3    4    5    6    7    8    9   10

          37.0 40.8 36.1 36.0 35.4 34.4 33.4 32.3 31.3 35.4

  16        1    2    3    4    5    6    7    8    9   10

          35.5 31.2 32.3 33.2 34.3 35.2 35.8 35.9 40.6 36.9

  17        1    2    3    4    5    6    7
          29.3 29.5 37.7 39.7 40.8 39.7 34.4
  18        1    2    3    4    5    6    7
          34.1 39.7 40.7 41.4 37.4 29.6 29.8
1

 RECEIVER    LEQ(H)   L10
 14           57.7   59.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.5 27.0 29.6 32.2 33.6 35.1
   2        1    2    3    4    5    6
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```
          38.2 39.7 37.1 37.3 33.1 30.0
   3        1
          27.6
   4        1    2    3
          25.2 24.8 19.6
   5        1    2    3    4    5    6
          15.8 12.5 12.2 16.5 18.3 15.0
   6        1    2    3
          11.7 10.8 14.5
   7        1    2    3    4
          14.5 10.6 11.6 13.5
   8        1    2    3    4    5    6
          18.3 16.6 12.3 12.6 15.9 18.5
   9        1    2    3
          24.8 25.3 27.2
  10        1
          30.0
  11        1    2    3    4    5    6
          33.3 37.1 36.9 39.6 37.3 36.9
  12        1    2    3    4    5
          32.0 31.7 27.5 25.9 24.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.8 41.6 36.4 43.2 44.4 45.1 36.8 33.4 33.9 35.4

          37.4 38.1 37.4 34.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          34.5 37.4 38.1 37.8 35.0 33.5 33.1 35.9 45.6 44.6

          42.4 38.1 42.0 36.9
  15        1    2    3    4    5    6    7    8    9   10

          37.6 41.2 36.2 35.8 35.1 34.1 33.0 31.9 30.9 35.2

  16        1    2    3    4    5    6    7    8    9   10

          35.2 30.8 31.9 32.9 33.9 34.9 35.7 35.9 41.0 37.5

  17        1    2    3    4    5    6    7
          40.7 39.8 39.4 41.5 42.0 40.6 35.0
  18        1    2    3    4    5    6    7
          34.8 40.5 41.9 43.1 39.2 39.1 40.9
1

 RECEIVER    LEQ(H)   L10
 15           59.9   62.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.1 27.1 28.9 32.2 33.3 35.2
   2        1    2    3    4    5    6
          36.2 36.4 33.4 36.5 40.2 38.5
   3        1
          37.4
   4        1    2    3
          35.1 34.7 29.5
   5        1    2    3    4    5    6
          25.8 22.4 22.2 26.5 28.4 25.2
   6        1    2    3
          21.8 20.9 24.7
   7        1    2    3    4
          24.7 20.8 21.7 23.7
   8        1    2    3    4    5    6
          28.4 26.6 22.2 22.5 25.8 28.4
   9        1    2    3
          34.7 35.1 37.0
  10        1
          38.8
  11        1    2    3    4    5    6
          40.7 37.5 32.7 35.7 35.1 37.3
  12        1    2    3    4    5
          32.6 30.3 28.3 26.4 23.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.6 42.4 37.4 44.2 45.7 46.7 37.7 34.5 35.0 35.9

          36.9 36.8 35.4 34.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          34.3 35.4 36.8 37.2 35.5 34.6 34.2 37.0 46.9 45.8

          43.5 39.0 42.9 37.7
  15        1    2    3    4    5    6    7    8    9   10

          39.0 42.4 36.9 36.2 35.2 34.1 33.0 31.8 30.8 35.1

  16        1    2    3    4    5    6    7    8    9   10

          35.1 30.7 31.8 32.8 33.9 35.1 36.1 36.6 42.2 38.8

  17        1    2    3    4    5    6    7
          34.8 42.3 49.2 47.5 44.9 42.6 36.6
  18        1    2    3    4    5    6    7
          36.4 42.6 44.9 47.2 48.8 42.8 35.0
1

 RECEIVER    LEQ(H)   L10
 16           67.2   70.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.9 29.1 31.4 33.1 35.9 44.8
   2        1    2    3    4    5    6
          41.5 34.4 32.6 34.5 33.7 31.9
   3        1
          33.4
   4        1    2    3
          33.1 33.2 28.1
   5        1    2    3    4    5    6
          24.2 20.6 20.3 24.6 26.4 22.9
   6        1    2    3
          15.9 15.0 23.3
   7        1    2    3    4
          24.1 14.9 19.9 21.9
   8        1    2    3    4    5    6
          26.5 24.8 20.5 20.9 24.3 27.0
   9        1    2    3
          33.4 33.2 34.4
  10        1
          32.7
  11        1    2    3    4    5    6
          34.0 34.0 30.9 33.4 40.9 47.9

  12        1    2    3    4    5
          35.4 31.8 30.7 28.7 25.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.3 36.0 31.0 38.0 39.5 40.3 37.4 36.6 37.0 37.6

          38.4 38.1 37.0 36.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.3 37.0 38.1 38.7 37.2 36.7 36.5 36.9 40.8 39.7

          37.4 32.7 36.5 31.4
  15        1    2    3    4    5    6    7    8    9   10

          35.9 42.4 36.0 35.1 34.1 32.9 31.9 30.9 30.0 34.4

  16        1    2    3    4    5    6    7    8    9   10

          34.4 29.9 30.9 31.8 32.9 34.0 35.0 35.8 42.2 36.0

  17        1    2    3    4    5    6    7
          49.8 59.0 60.1 50.1 45.1 43.3 37.4
  18        1    2    3    4    5    6    7
          37.2 43.1 45.0 48.0 61.6 60.3 49.6
1

 RECEIVER    LEQ(H)   L10
 17           67.0   70.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.8 29.2 30.1 30.7 33.1 40.5
   2        1    2    3    4    5    6
          37.7 32.0 30.2 34.2 38.5 38.0
   3        1
          36.0
   4        1    2    3
          33.9 33.6 28.6
   5        1    2    3    4    5    6
          24.9 21.6 21.3 25.7 27.6 24.5
   6        1    2    3
          21.1 20.3 24.1
   7        1    2    3    4
          24.1 20.1 21.0 22.9
   8        1    2    3    4    5    6
          27.6 25.8 21.4 21.6 24.9 27.5
   9        1    2    3
          33.6 33.9 35.5
  10        1
          37.9
  11        1    2    3    4    5    6
          39.2 35.5 28.5 31.3 37.0 43.4
  12        1    2    3    4    5
          32.5 29.7 29.1 28.3 24.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          38.9 43.9 39.0 46.0 47.9 46.1 39.5 37.1 37.3 37.0

          36.8 36.2 34.9 33.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          33.9 35.0 36.2 37.3 36.5 37.0 37.0 39.3 47.0 48.1

          45.4 40.7 44.4 39.0
  15        1    2    3    4    5    6    7    8    9   10

          41.5 44.0 37.1 36.0 34.8 33.6 32.5 31.3 30.4 34.8

  16        1    2    3    4    5    6    7    8    9   10

          34.8 30.4 31.4 32.3 33.5 34.7 35.9 36.9 43.7 41.3

  17        1    2    3    4    5    6    7
          43.9 50.0 58.5 59.8 51.5 46.4 39.3
  18        1    2    3    4    5    6    7
          39.1 46.4 51.7 61.3 58.3 48.3 42.9
1

 RECEIVER    LEQ(H)   L10
 18           62.8   65.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          23.4 25.9 26.7 26.9 27.1 27.5
   2        1    2    3    4    5    6
          29.5 29.9 28.0 32.7 38.3 36.9
   3        1
          35.1
   4        1    2    3
          33.1 33.0 28.0
   5        1    2    3    4    5    6
          24.3 21.0 20.8 25.1 27.1 24.0
   6        1    2    3
          20.7 19.8 23.7
   7        1    2    3    4
          23.7 19.6 20.6 22.5
   8        1    2    3    4    5    6
          27.1 25.2 20.9 21.1 24.4 26.9
   9        1    2    3
          33.0 33.1 34.7
  10        1
          36.9
  11        1    2    3    4    5    6
          38.9 33.9 26.6 29.0 29.6 31.0
  12        1    2    3    4    5
          27.9 27.9 28.0 26.4 23.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          39.9 45.0 40.1 47.4 49.7 51.7 49.3 39.2 37.0 34.3

          32.3 31.1 29.3 27.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.7 29.3 31.1 32.8 34.2 37.2 39.3 48.9 52.4 49.9

          46.7 41.9 45.4 40.0
  15        1    2    3    4    5    6    7    8    9   10

          43.4 44.7 36.7 35.5 34.2 33.0 31.9 30.9 30.0 34.5

  16        1    2    3    4    5    6    7    8    9   10
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          34.6 30.0 30.9 31.8 32.9 34.1 35.4 36.6 44.5 43.1

  17        1    2    3    4    5    6    7
          28.0 31.6 35.6 50.9 52.1 48.5 41.0
  18        1    2    3    4    5    6    7
          40.9 48.8 52.8 51.2 33.6 31.6 27.9
1

 RECEIVER    LEQ(H)   L10
 19           62.9   65.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.3 28.5 30.1 29.5 30.0 30.1
   2        1    2    3    4    5    6
          30.4 28.9 27.5 31.1 37.2 36.3
   3        1
          34.5
   4        1    2    3
          32.6 32.5 27.6
   5        1    2    3    4    5    6
          24.0 20.7 20.4 24.8 26.8 23.7
   6        1    2    3
          20.4 19.5 23.4
   7        1    2    3    4
          23.4 19.3 20.3 22.2
   8        1    2    3    4    5    6
          26.8 24.9 20.5 20.7 24.0 26.5
   9        1    2    3
          32.6 32.7 34.1
  10        1
          36.2
  11        1    2    3    4    5    6
          38.1 31.9 25.7 27.9 29.8 31.5
  12        1    2    3    4    5
          29.0 29.2 29.5 28.2 26.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          40.3 45.5 40.8 48.2 50.8 53.3 51.2 41.5 40.1 37.6

          35.5 34.1 32.2 30.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.7 32.2 34.0 35.9 37.5 40.1 41.5 51.0 54.0 51.0

          47.5 42.5 46.0 40.4
  15        1    2    3    4    5    6    7    8    9   10

          44.3 44.6 36.1 34.8 33.6 32.4 31.4 30.4 29.6 34.2

  16        1    2    3    4    5    6    7    8    9   10

          34.3 29.6 30.5 31.3 32.4 33.5 34.8 36.0 44.4 43.9

  17        1    2    3    4    5    6    7
          29.2 31.6 30.7 46.7 49.3 48.3 41.4
  18        1    2    3    4    5    6    7
          41.3 48.6 49.8 46.7 29.9 31.7 28.6
1

 RECEIVER    LEQ(H)   L10
 20           69.6   72.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          40.3 31.5 30.9 30.2 27.9 28.2
   2        1    2    3    4    5    6
          29.4 27.0 25.8 29.3 29.5 28.2
   3        1
          26.9
   4        1    2    3
          25.4 27.8 26.7
   5        1    2    3    4    5    6
          23.1 19.9 19.6 24.0 24.1 17.7
   6        1    2    3
          14.5 13.7 19.1
   7        1    2    3    4
          20.0 13.5 14.4 16.2
   8        1    2    3    4    5    6
          25.3 24.1 19.7 19.9 23.2 25.6
   9        1    2    3
          29.5 25.8 26.5
  10        1
          28.1
  11        1    2    3    4    5    6
          29.7 28.9 24.0 25.7 28.4 29.2
  12        1    2    3    4    5
          26.9 29.3 30.4 31.6 40.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          41.2 46.5 41.9 49.7 53.1 57.9 61.6 59.6 55.5 51.8

          49.2 46.7 38.2 36.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.9 38.0 45.6 49.6 51.7 55.7 60.5 62.6 58.9 53.2

          49.0 43.7 46.9 41.2
  15        1    2    3    4    5    6    7    8    9   10

          45.2 43.1 34.2 33.1 32.0 31.0 30.1 29.3 28.6 33.4

  16        1    2    3    4    5    6    7    8    9   10

          33.4 28.5 29.3 30.0 30.9 31.9 33.0 34.1 43.0 44.8

  17        1    2    3    4    5    6    7
          26.3 29.3 25.4 35.5 43.4 44.8 40.1
  18        1    2    3    4    5    6    7
          40.0 45.1 43.7 34.5 24.6 29.3 25.2
1

 RECEIVER    LEQ(H)   L10
 21           69.4   71.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          43.3 34.8 31.9 28.9 26.8 25.5
   2        1    2    3    4    5    6
          25.7 24.5 22.8 24.4 22.6 20.9
   3        1
          19.4
   4        1    2    3
          17.6 17.7 12.9
   5        1    2    3    4    5    6
           9.3  6.1  5.8 10.2 12.2  9.2
   6        1    2    3
           5.9  5.1  9.0
   7        1    2    3    4
           9.0  4.9  5.8  7.7
   8        1    2    3    4    5    6
          12.2 10.3  5.9  6.1  9.4 11.8
   9        1    2    3
          17.8 17.7 19.0
  10        1
          20.8
  11        1    2    3    4    5    6
          22.7 24.4 23.3 24.5 25.9 27.7
  12        1    2    3    4    5
          27.3 29.6 31.9 35.3 43.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          40.1 45.3 40.7 48.2 51.1 54.9 59.2 61.4 58.6 54.3

          51.1 48.8 40.4 36.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.3 39.1 48.2 51.6 54.3 59.1 62.6 59.8 55.6 51.1

          47.4 42.4 45.7 40.2
  15        1    2    3    4    5    6    7    8    9   10

          40.9 30.6 21.0 20.0 18.9 18.0 17.2 16.5 16.0 21.1

  16        1    2    3    4    5    6    7    8    9   10

          21.2 16.0 16.6 17.1 17.9 18.9 20.0 21.0 30.5 40.7

  17        1    2    3    4    5    6    7
          24.0 24.8 24.6 26.1 28.6 30.4 26.9
  18        1    2    3    4    5    6    7
          27.0 30.6 28.9 25.9 24.1 25.0 23.1
1

 RECEIVER    LEQ(H)   L10
 22           69.5   72.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          46.1 39.1 34.0 31.0 28.7 27.2
   2        1    2    3    4    5    6
          27.3 26.1 24.3 25.8 24.1 22.4
   3        1
          20.8
   4        1    2    3
          19.1 19.1 14.4
   5        1    2    3    4    5    6
          10.8  7.6  7.3 11.7 13.7 10.7
   6        1    2    3
           7.5  6.7 10.5
   7        1    2    3    4
          10.5  6.5  7.4  9.1
   8        1    2    3    4    5    6
          13.7 11.8  7.3  7.5 10.8 13.3
   9        1    2    3
          19.2 19.2 20.4
  10        1
          22.3
  11        1    2    3    4    5    6
          24.1 26.0 25.0 27.0 27.4 29.4
  12        1    2    3    4    5
          29.2 32.0 34.3 40.0 47.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          39.4 44.5 39.7 47.1 49.7 52.9 56.6 60.5 61.0 56.7

          53.0 50.5 44.7 38.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          38.1 42.5 50.4 53.6 57.0 61.9 61.6 56.8 53.5 49.7

          46.3 41.4 44.9 39.4
  15        1    2    3    4    5    6    7    8    9   10

          39.0 30.7 21.8 20.8 19.9 19.0 18.3 17.5 17.0 22.1

  16        1    2    3    4    5    6    7    8    9   10

          22.1 17.0 17.6 18.1 19.0 19.8 20.8 21.7 30.6 38.9

  17        1    2    3    4    5    6    7
          24.2 26.2 25.0 26.3 29.1 30.5 27.0
  18        1    2    3    4    5    6    7
          26.8 30.8 29.4 25.7 24.7 26.3 23.2
```

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                    *************************
                           STAM2VU1
                         Version 1.20
                   *************************
                       STAMINA 2.0/BCR
            MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
                 TRAFFIC NOISE PREDICTION MODEL

        MODIFIED TO:
          1.   ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
          2.   CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY
               USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
          3.   PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A
               DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE
               LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.
                    *************************
           MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
               BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
                      AND BOWLBY & ASSOCIATES, INC.
                        2014 BROADWAY, SUITE 210
                        NASHVILLE, TN 37203-2425
                   TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE
HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK
CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE
*.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.


        (INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH )


 Meadowood - Casitas 1st Floor (Receivers 1-22)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

     HEIGHT      CODE          DESCRIPTION
        .00        1      RECEIVER HEIGHT ADJUSTMENT
       1.00        2      A-WEIGHTED SOUND LEVEL ONLY
        .00        3      HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
        .00        4      HEIGHT ADJUSTMENT FOR HEAVY TRUCKS   (HT)
        .00        5      HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS  (MT)
       .000        6      HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4)
                          CARS--CALVENO
                          C0 =      5.20  C1 =      38.80  S0 =        .00
      2.300        7      HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5)
                          MT--CALVENO
                          C0 =     35.30  C1 =      25.60  S0 =        .00
      8.000        8      HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6)
                          HT--CALVENO
                          C0 =     50.40  C1 =      19.20  S0 =        .00


0ROADWAY   1     HRC nb (76 to Pankey)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS              0.          30.0
                     HT                0.          30.0
                     MT                0.          30.0
                     VEH4            415.          40.0
                     VEH5             13.          40.0
                     VEH6              9.          40.0
0                  ------------COORDINATES-------------
                     X            Y              Z      GRADE
 1               6287767.4   2067284.0       276.0       0
 2               6287704.7   2067456.2       276.0       0
 3               6287629.7   2067702.5       279.0       0
 4               6287568.8   2067936.5       284.0       0
 5               6287512.3   2068148.3       284.0       0
 6               6287446.9   2068359.4       282.0       0
 7               6287374.5   2068606.6       279.0       0

0ROADWAY   2     HRC nb (Pankey to School)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS              0.          30.0
                     HT                0.          30.0
                     MT                0.          30.0
                     VEH4            695.          40.0
                     VEH5             22.          40.0
                     VEH6             15.          40.0
0                  ------------COORDINATES-------------
                     X            Y              Z      GRADE
 7               6287374.5   2068606.6       279.0       0
 8               6287273.9   2068832.6       278.0       0
 9               6287137.9   2069057.7       278.0       0
 10              6287017.0   2069263.4       280.0       0
 11              6286760.9   2069688.9       285.0       0
 12              6286533.2   2070137.4       290.0       0
 13              6286310.7   2070587.7       296.0       0

0ROADWAY   3     HRC nb (School to 26)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS              0.          30.0
                     HT                0.          30.0
                     MT                0.          30.0
                     VEH4            689.          40.0
                     VEH5             22.          40.0
                     VEH6             15.          40.0
0                  ------------COORDINATES-------------
                     X            Y              Z      GRADE
 13              6286310.7   2070587.7       296.0       0
 14              6286086.4   2071030.0       302.0       0

0ROADWAY   4     HRC nb (26 to Harvest Glen)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS              0.          30.0
                     HT                0.          30.0
                     MT                0.          30.0
                     VEH4            634.          40.0
                     VEH5             20.          40.0
                     VEH6             13.          40.0
0                  ------------COORDINATES-------------
                     X            Y              Z      GRADE
 14              6286086.4   2071030.0       302.0       0
 15              6285859.5   2071475.8       308.0       0
 16              6285540.8   2072106.2       311.0       0
 17              6285403.1   2072385.2       310.0       0

0ROADWAY   5     HRC nb (Harvest Glen to Longspur)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS              0.          30.0
                     HT                0.          30.0
                     MT                0.          30.0
                     VEH4            488.          40.0
                     VEH5             15.          40.0
                     VEH6             10.          40.0
0                  ------------COORDINATES-------------
                     X            Y              Z      GRADE
 17              6285403.1   2072385.2       310.0       0
 18              6285328.1   2072574.1       310.0       0
 19              6285298.0   2072673.9       310.0       0
 20              6285270.7   2072773.6       311.0       0
 21              6285221.2   2073078.2       314.0       0
 22              6285201.8   2073673.3       322.0       0
 23              6285188.6   2074037.0       338.0       0

0ROADWAY   6     HRC nb (Longspur to Baltimore)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS              0.          30.0
                     HT                0.          30.0
                     MT                0.          30.0
                     VEH4            347.          40.0
                     VEH5             11.          40.0
                     VEH6              7.          40.0
0                  ------------COORDINATES-------------
                     X            Y              Z      GRADE
 23              6285188.6   2074037.0       338.0       0
 24              6285145.3   2074308.9       346.0       0
 25              6285056.1   2074546.4       351.0       0
 26              6284650.0   2075149.4       356.0       0

0ROADWAY   7     HRC sb (Baltimore to Longspur)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS              0.          30.0
                     HT                0.          30.0
                     MT                0.          30.0
                     VEH4            347.          40.0
                     VEH5             11.          40.0
                     VEH6              7.          40.0
0                  ------------COORDINATES-------------
                     X            Y              Z      GRADE
 1               6284621.8   2075132.6       356.0       0
 2               6285015.5   2074527.9       351.0       0
 3               6285099.4   2074300.1       346.0       0
 4               6285141.8   2074033.5       338.0       0
 5               6285159.4   2073671.5       322.0       0

0ROADWAY   8     HRC sb (Longspur to Harvest Glen)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS              0.          30.0
                     HT                0.          30.0
                     MT                0.          30.0
                     VEH4            488.          40.0
                     VEH5             15.          40.0
                     VEH6             10.          40.0
0                  ------------COORDINATES-------------
                     X            Y              Z      GRADE
 5               6285159.4   2073671.5       322.0       0
 6               6285181.5   2073072.9       314.0       0
 7               6285228.3   2072759.5       311.0       0
 8               6285256.5   2072658.0       310.0       0
 9               6285287.4   2072557.3       310.0       0
 10              6285368.7   2072369.3       310.0       0
 11              6285504.6   2072087.7       311.0       0

0ROADWAY   9     HRC sb (Harvest Glen to 26)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS              0.          30.0
                     HT                0.          30.0
                     MT                0.          30.0
                     VEH4            634.          40.0
                     VEH5             20.          40.0
                     VEH6             13.          40.0
0                  ------------COORDINATES-------------
                     X            Y              Z      GRADE
 11              6285504.6   2072087.7       311.0       0
 12              6285818.9   2071457.3       308.0       0
 13              6286045.8   2071007.9       302.0       0
 14              6286269.2   2070567.4       296.0       0

0ROADWAY  10     HRC sb (26 to School)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS              0.          30.0
                     HT                0.          30.0
                     MT                0.          30.0
                     VEH4            689.          40.0
                     VEH5             22.          40.0
                     VEH6             14.          40.0
0                  ------------COORDINATES-------------
                     X            Y              Z      GRADE
 14              6286269.2   2070567.4       296.0       0
 15              6286493.4   2070122.4       290.0       0

0ROADWAY  11     HRC sb (School to Pankey)

                 VEHICLE TYPE   VEHICLES/HOUR      SPEED
                     CARS              0.          30.0
                     HT                0.          30.0
                     MT                0.          30.0
                     VEH4            695.          40.0
                     VEH5             22.          40.0
                     VEH6             15.          40.0
0                  ------------COORDINATES-------------
                     X            Y              Z      GRADE
 15              6286493.4   2070122.4       290.0       0
 16              6286720.3   2069667.7       285.0       0
 17              6286977.2   2069239.6       280.0       0
 18              6287102.6   2069033.0       278.0       0
 19              6287238.6   2068813.1       278.0       0
```

20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0

	COORDINATES X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

1

BARRIER 1 TYPE(A) Casitas Pad Edges 1

	COORDINATES X	Y	Z	Z0	DELZ	P
29	6287206.9	2067402.8	293.0	283.0	1.0	3
1	6287604.1	2067456.6	292.0	282.0		
2	6287556.7	2067611.1	292.0	282.0		
3	6287522.5	2067745.3	291.0	281.0		
4	6287464.5	2067976.1	291.0	281.0		
5	6287454.6	2068015.7	292.0	282.0		
6	6287323.5	2068473.5	288.0	278.0		

1

BARRIER 2 TYPE(A) Casitas Pad Edges 2

	COORDINATES X	Y	Z	Z0	DELZ	P
7a	6287289.2	2068526.0	288.0	278.0	1.0	3
7b	6287308.7	2068535.6	288.0	278.0		
8	6287229.9	2068717.4	289.0	279.0		
9	6287128.1	2068905.3	290.0	280.0		
10	6287014.0	2069093.0	290.0	280.0		
10b	6286997.0	2069082.5	290.0	280.0		

1

BARRIER 3 TYPE(A) Casitas Pad Edges 3

	COORDINATES X	Y	Z	Z0	DELZ	P
11a	6286968.3	2069123.7	290.0	280.0	1.0	3
11b	6286988.0	2069135.7	290.0	280.0		
12	6286743.4	2069547.7	292.0	282.0		
13	6286725.9	2069542.1	292.0	282.0		
14	6286765.9	2068976.7	291.0	281.0		
15	6286777.9	2068737.8	290.0	280.0		
16	6286837.9	2068587.8	290.0	280.0		
17	6286891.7	2068511.8	290.0	280.0		
18	6286906.9	2068334.1	288.0	278.0		
19	6287116.7	2068459.9	288.0	278.0		

1

BARRIER 4 TYPE(A) Casitas Pad Edges 4

	COORDINATES X	Y	Z	Z0	DELZ	P
20	6287150.1	2068366.2	287.0	277.0	1.0	3
21	6287134.3	2068401.8	287.0	277.0		
22	6286900.0	2068252.6	287.0	277.0		
23	6286818.7	2068179.5	286.0	276.0		
24	6286828.9	2068007.0	287.0	277.0		
25	6286839.7	2067846.7	288.0	278.0		
26	6286850.6	2067683.4	291.0	281.0		
27	6286860.1	2067542.5	292.0	282.0		
28	6286869.1	2067378.1	292.0	282.0		
29	6287206.9	2067402.8	293.0	283.0		

1

BARRIER 5 TYPE(A) Casitas Building 1

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6287497.3	2067458.5	302.0	282.0	.0	0
2	6287525.1	2067616.7	302.0	282.0		
3	6287387.6	2067647.9	302.0	282.0		
4	6287361.7	2067482.3	302.0	282.0		
1	6287497.3	2067458.5	302.0	282.0		

1

BARRIER 6 TYPE(A) Casitas Building 2

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6287377.4	2067888.6	301.0	281.0	.0	0
2	6287409.2	2067761.8	301.0	281.0		
3	6287490.6	2067771.9	301.0	281.0		
4	6287453.7	2067918.0	301.0	281.0		
1	6287377.4	2067888.6	301.0	281.0		

1

BARRIER 7 TYPE(A) Casitas Building 3

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6287312.3	2068240.1	299.0	279.0	.0	0
2	6287375.3	2068155.1	302.0	282.0		
3	6287370.5	2068144.6	302.0	282.0		
4	6287446.1	2068032.8	302.0	282.0		
5	6287315.3	2067948.4	302.0	282.0		
6	6287177.5	2068176.3	299.0	279.0		
1	6287312.3	2068240.1	299.0	279.0		

1

BARRIER 8 TYPE(A) Casitas Building 4

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6287319.6	2068419.7	298.0	278.0	.0	0
2	6287360.3	2068274.7	298.0	278.0		
3	6287243.1	2068251.4	298.0	278.0		
4	6287203.8	2068377.5	298.0	278.0		
1	6287319.6	2068419.7	298.0	278.0		

1

BARRIER 9 TYPE(A) Casitas Building 5

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6287260.5	2068558.5	298.0	278.0	.0	0
2	6287207.1	2068708.5	298.0	278.0		
3	6287124.2	2068857.1	298.0	278.0		
4	6287032.0	2068779.0	298.0	278.0		
5	6287101.2	2068664.2	298.0	278.0		
6	6287156.3	2068526.9	298.0	278.0		
1	6287260.5	2068558.5	298.0	278.0		

1

BARRIER 10 TYPE(A) Casitas Building 6

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6287009.5	2069059.4	300.0	280.0	.0	0
2	6286866.6	2068963.8	300.0	280.0		
3	6286848.9	2068934.9	300.0	280.0		
4	6286839.3	2068915.6	300.0	280.0		
5	6286878.5	2068816.4	300.0	280.0		
6	6286921.8	2068803.8	300.0	280.0		
7	6286958.5	2068787.7	300.0	280.0		
8	6286950.1	2068760.1	300.0	280.0		
9	6287008.0	2068739.9	300.0	280.0		
10	6287050.2	2068848.7	300.0	280.0		

1

BARRIER 11 TYPE(A) Casitas Building 6 cont.

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
10	6287050.2	2068848.7	300.0	280.0	.0	0
11	6286994.5	2068869.8	300.0	280.0		
12	6286984.0	2068885.6	300.0	280.0		
13	6287076.3	2068944.5	300.0	280.0		
1	6287009.5	2069059.4	300.0	280.0		

1

BARRIER 12 TYPE(A) Casitas Building 7

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6286962.4	2069131.0	300.0	280.0	.0	0
2	6286906.6	2069240.8	300.0	280.0		
3	6286806.8	2069180.9	300.0	280.0		
4	6286820.1	2069112.3	300.0	280.0		
5	6286847.7	2069065.5	300.0	280.0		
1	6286962.4	2069131.0	300.0	280.0		

1

BARRIER 13 TYPE(A) Casitas Building 8

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6286919.7	2068586.0	298.0	278.0	.0	0
2	6286975.4	2068445.9	298.0	278.0		
3	6287085.1	2068493.1	298.0	278.0		
4	6287067.7	2068536.8	298.0	278.0		
5	6287037.8	2068526.8	298.0	278.0		
6	6287011.4	2068608.3	298.0	278.0		
1	6286919.7	2068586.0	298.0	278.0		

1

BARRIER 14 TYPE(A) Casitas Building 9

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6286923.9	2068215.3	296.0	276.0	.0	0
2	6286835.4	2068093.4	296.0	276.0		
3	6286940.2	2068028.8	296.0	276.0		
4	6286989.9	2068155.0	296.0	276.0		
1	6286923.9	2068215.3	296.0	276.0		

1

BARRIER 15 TYPE(A) Casitas Building 10 and 11

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6286841.2	2068002.8	297.0	277.0	.0	0
2	6286851.3	2067852.5	297.0	277.0		
1	6286863.2	2067826.9	298.0	278.0		
2	6286871.6	2067705.5	298.0	278.0		
3	6286971.5	2067707.9	298.0	278.0		
4	6286971.6	2067840.2	298.0	278.0		
3	6286973.3	2067870.0	297.0	277.0		
4	6286964.4	2068001.7	297.0	277.0		
1	6286841.2	2068002.8	297.0	277.0		

1

BARRIER 16 TYPE(A) Casitas Building 12

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6286863.0	2067678.2	300.0	280.0	.0	0
2	6286870.7	2067553.9	300.0	280.0		
3	6286904.5	2067556.2	300.0	280.0		
4	6286983.9	2067633.8	300.0	280.0		
5	6286986.1	2067679.0	300.0	280.0		
1	6286863.0	2067678.2	300.0	280.0		

1

BARRIER 17 TYPE(A) Casitas Building 13

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6287022.0	2067602.5	302.0	282.0	.0	0
2	6286881.6	2067531.7	302.0	282.0		
3	6286959.8	2067397.1	302.0	282.0		
4	6287056.7	2067467.7	302.0	282.0		
5	6287099.5	2067532.8	302.0	282.0		
1	6287022.0	2067602.5	302.0	282.0		

1

BARRIER 18 TYPE(A) Casitas Building 14

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6287070.3	2067443.8	302.0	282.0	.0	0
2	6287069.5	2067409.8	302.0	282.0		
3	6287185.4	2067419.7	302.0	282.0		
4	6287171.1	2067519.2	302.0	282.0		
5	6287137.3	2067516.5	302.0	282.0		
6	6287140.8	2067450.4	302.0	282.0		
1	6287070.3	2067443.8	302.0	282.0		

1

BARRIER 19 TYPE(A) Casitas Building 15

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6287196.7	2067529.8	302.0	282.0	.0	0
2	6287205.1	2067425.2	302.0	282.0		
3	6287359.9	2067441.9	302.0	282.0		
4	6287350.0	2067548.3	302.0	282.0		
1	6287196.7	2067529.8	302.0	282.0		

1

BARRIER 20 TYPE(A) Casitas Building 16

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6287093.0	2067613.4	300.0	280.0	.0	0
2	6287269.9	2067629.2	301.0	281.0		
3	6287322.9	2067690.9	301.0	281.0		
4	6287306.7	2067915.3	300.0	280.0		
5	6287241.1	2068012.1	300.0	280.0		
6	6287137.3	2068171.3	297.0	277.0		
7	6287043.6	2068104.3	297.0	277.0		
8	6287037.1	2067916.5	299.0	279.0		
9	6287058.4	2067690.4	300.0	280.0		
1	6287093.0	2067613.4	300.0	280.0		

1

Casitas Receivers @ 5'

	----------COORDINATES----------		
	X	Y	Z
1	6287456.1	2067441.2	287.0
2	6287521.9	2067664.8	285.0
3	6287487.2	2067848.9	286.0
4	6287409.8	2068101.8	287.0
5	6287367.5	2068243.5	284.0
6	6287348.9	2068349.7	283.0
7	6287235.0	2068658.2	282.0
8	6287168.3	2068808.5	284.0
9	6287048.5	2069012.2	285.0
10	6286940.7	2069192.7	285.0
11	6286744.0	2069524.7	285.0
12	6286804.6	2069126.5	285.0
13	6286832.2	2068935.2	286.0
14	6286896.7	2068794.2	285.0
15	6286880.3	2068556.4	282.0
16	6287010.9	2068302.2	282.0
17	6286859.3	2068179.1	281.0
18	6286841.4	2067923.4	282.0
19	6286855.4	2067766.2	283.0
20	6286919.2	2067384.1	287.0
21	6287123.6	2067405.7	287.0
22	6287290.3	2067421.2	287.0

1

ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
13 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
14 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
16 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								

1

SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0								

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 4 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 5 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 6 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 7 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 8 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 9 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
10 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
11 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
12 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
13 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
14 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
15 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
16 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
17 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
18 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
1

 RECEIVER    LEQ(H)   L10
 1            56.4   58.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            37.5 38.0 29.2 25.2 22.7 21.2
    2        1    2    3    4    5    6
            21.3 19.9 18.3 19.9 18.0 16.3
    3        1
            14.8
    4        1    2    3
            13.1 13.2  8.4
    5        1    2    3    4    5    6
             4.8  1.6  1.3  5.7  7.6  4.6
    6        1    3
             1.4  4.3
    7        1    3    4
             4.4  1.2  3.1
    8        1    2    3    4    5    6
             7.6  5.8  1.4  1.6  4.9  7.3
    9        1    2    3
            13.2 13.2 14.3
   10        1
            16.2
   11        1    2    3    4    5    6
            18.1 19.9 18.5 20.0 21.3 23.5
   12        1    2    3    4    5
            22.8 25.6 29.7 38.3 38.1
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            27.3 32.3 27.5 34.7 37.1 39.3 41.1 42.8 45.0 44.1

            43.0 43.9 42.5 40.4
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            40.5 42.6 44.5 44.2 44.8 46.1 43.8 41.5 40.3 37.6

            34.3 29.4 32.9 27.6
   15        1    2    3    4    5    6    7    8    9   10

            30.0 25.6 17.9 16.6 15.5 14.5 13.8 13.2 12.9 18.5

   16        1    2    3    4    5    6    7    8    9   10

            18.6 12.9 13.3 13.8 14.6 15.5 16.7 17.9 25.5 29.9

   17        1    2    3    4    5    6    7
            19.1 20.3 21.3 21.7 24.1 26.0 21.2
   18        1    2    3    4    5    6    7
            21.0 26.1 24.3 21.5 21.4 20.4 19.0
1

 RECEIVER    LEQ(H)   L10
 2            56.6   59.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            36.8 43.1 43.6 39.9 36.9 35.1
    2        1    2    3    4    5    6
            34.7 29.1 25.8 25.9 23.9 22.2
    3        1
            20.6
    4        1    2    3
            18.9 18.9 14.0
    5        1    2    3    4    5    6
            10.4  7.1  6.9 11.2 13.2 10.2
    6        1    2    3
             7.1  6.4 10.1
    7        1    2    3    4
            10.1  6.2  7.0  8.7
    8        1    2    3    4    5    6
            13.2 11.3  7.0  7.2 10.5 12.9
    9        1    2    3
            18.9 18.8 20.1
   10        1
            22.0
   11        1    2    3    4    5    6
            24.0 26.0 24.6 28.5 31.0 37.7
   12        1    2    3    4    5
            37.8 41.2 46.2 45.4 37.9
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            22.1 27.0 22.0 29.1 31.1 33.2 34.7 36.4 42.4 47.6

            43.4 40.6 37.4 35.1
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            35.3 37.5 40.6 44.2 47.8 42.5 36.9 34.9 33.8 31.3

            28.4 23.8 27.5 22.2
   15        1    2    3    4    5    6    7    8    9   10

            24.7 27.4 21.1 20.6 20.1 19.5 18.9 18.1 17.5 22.4

   16        1    2    3    4    5    6    7    8    9   10

            22.4 17.4 18.2 18.7 19.3 20.0 20.5 20.9 27.3 24.5

   17        1    2    3    4    5    6    7
            25.2 27.6 25.2 25.0 27.2 27.4 22.6
   18        1    2    3    4    5    6    7
            22.6 27.6 27.2 24.6 23.3 26.0 25.0
1

 RECEIVER    LEQ(H)   L10
 3            56.1   59.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            34.8 39.9 44.9 42.7 38.9 36.5
    2        1    2    3    4    5    6
            36.4 30.2 27.1 28.5 26.4 24.6
    3        1
            22.9
    4        1    2    3
            21.1 21.2 16.3
    5        1    2    3    4    5    6
            12.6  9.3  9.1 13.4 15.4 12.6
    6        1    2    3
             9.5  8.7 12.5
    7        1    2    3    4
            12.5  8.5  9.3 11.0
    8        1    2    3    4    5    6
            15.4 13.5  9.1  9.4 12.6 15.1
    9        1    2    3
            21.2 21.2 22.5
   10        1
            24.4
   11        1    2    3    4    5    6
            26.5 28.6 27.2 29.2 33.7 39.8
   12        1    2    3    4    5
            40.4 45.6 48.6 41.4 35.9
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            17.7 22.7 17.7 24.9 26.9 29.1 31.2 34.0 40.0 45.5

            41.8 39.1 36.4 34.2
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            34.4 36.5 39.3 42.4 45.6 39.6 34.1 31.1 29.5 27.0

            24.1 19.4 23.0 17.8
   15        1    2    3    4    5    6    7    8    9   10

            18.9 19.5 12.7 12.1 11.5 10.7 10.0  9.2  8.4 12.9

   16        1    2    3    4    5    6    7    8    9   10

            12.9  8.3  9.2  9.8 10.6 11.4 12.0 12.4 19.4 18.7

   17        1    2    3    4    5    6    7
            27.3 25.7 23.3 21.2 21.1 20.4 15.3
   18        1    2    3    4    5    6    7
            15.1 20.6 21.3 21.8 24.8 27.6 26.8
1

 RECEIVER    LEQ(H)   L10
 4            57.4   60.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            25.7 33.4 41.8 47.1 46.5 41.9
    2        1    2    3    4    5    6
            40.1 38.3 31.4 32.5 30.2 28.2
    3        1
            26.5
    4        1    2    3
            24.6 24.5 19.5
    5        1    2    3    4    5    6
            15.8 12.5 12.2 16.6 18.6 15.6
    6        1    2    3
            12.5 11.8 15.5
    7        1    2    3    4
            15.6 11.6 12.4 14.1
    8        1    2    3    4    5    6
            18.5 16.7 12.3 12.5 15.9 18.4
    9        1    2    3
            24.5 24.6 26.0
   10        1
            28.1
   11        1    2    3    4    5    6
            30.2 32.5 31.3 36.3 40.8 45.0
   12        1    2    3    4    5
            49.3 50.4 40.5 29.6 24.7
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            17.4 22.3 17.3 24.4 26.1 28.0 29.0 29.9 31.7 36.8

            42.7 41.3 39.1 37.3
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            37.5 39.2 41.3 43.4 36.1 31.9 30.2 29.0 28.5 26.3

            23.6 19.0 22.7 17.5
   15        1    2    3    4    5    6    7    8    9   10

            18.6 19.9 13.2 12.5 11.7 11.0 10.3  9.5  8.7 13.0

   16        1    2    3    4    5    6    7    8    9   10
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          13.0  8.5  9.4 10.1 10.8 11.5 12.3 13.0 19.8 18.4

   17       1    2    3    4    5    6    7
          38.1 29.0 25.1 22.6 22.1 20.9 15.4
   18       1    2    3    4    5    6    7
          15.2 21.0 22.2 22.7 25.1 30.5 38.4
1

 RECEIVER    LEQ(H)   L10
 5            56.5   60.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
          31.2 35.1 38.3 42.1 46.2 43.6
    2       1    2    3    4    5    6
          41.4 38.8 25.3 25.8 22.9 20.6
    3       1
          18.5
    4       1    2    3
          16.5 16.4 11.3
    5       1    2    3    4    5    6
           7.7  4.4  4.1  8.4 10.3  7.3
    6       1    2    3
           4.0  3.2  7.0
    7       1    2    3    4
           7.0  3.0  3.9  5.7
    8       1    2    3    4    5    6
          10.3  8.4  4.2  4.4  7.7 10.2
    9       1    2    3
          16.4 16.6 18.2
   10       1
          20.5
   11       1    2    3    4    5    6
          23.0 25.8 25.5 30.0 43.5 47.7
   12       1    2    3    4    5
          49.7 44.0 39.3 34.2 26.3
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          20.1 25.0 20.0 26.9 28.7 30.3 31.5 32.5 34.4 39.8

          40.3 38.7 36.8 35.0
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          35.2 36.9 38.8 40.9 39.6 34.6 32.7 31.3 30.9 28.8

          26.1 21.6 25.4 20.2
   15       1    2    3    4    5    6    7    8    9   10

          21.3 27.8 26.3 20.3 19.0 17.6 16.6 15.6 14.9 19.7

   16       1    2    3    4    5    6    7    8    9   10

          19.8 14.9 15.7 16.5 17.6 18.9 20.4 26.6 27.3 21.1

   17       1    2    3    4    5    6    7
          38.9 31.9 31.5 27.8 25.4 23.9 18.3
   18       1    2    3    4    5    6    7
          18.1 23.9 25.6 27.1 31.1 33.9 39.4
1

 RECEIVER    LEQ(H)   L10
 6            56.8   60.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
          29.9 33.3 35.7 38.4 42.7 43.9
    2       1    2    3    4    5    6
          41.7 41.3 37.1 35.5 26.3 23.9
    3       1
          21.9
    4       1    2    3
          19.8 19.5 14.5
    5       1    2    3    4    5    6
          10.8  7.5  7.3 11.6 16.2 18.6
    6       1    2    3
          16.1 15.3 19.0
    7       1    2    3    4
          18.5 15.1 16.0 16.0
    8       1    2    3    4    5    6
          15.0 11.6  7.3  7.4 10.6 13.2
    9       1    2    3
          19.4 19.6 21.3
   10       1
          23.8
   11       1    2    3    4    5    6
          26.3 29.6 35.6 40.2 44.9 49.7
   12       1    2    3    4    5
          45.9 40.4 37.1 34.2 30.6
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          16.9 21.8 16.7 23.7 25.3 26.8 28.2 30.2 34.3 39.5

          37.9 35.9 33.7 32.1
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          32.2 33.8 35.9 38.5 39.6 34.3 30.3 27.9 27.4 25.4

          22.9 18.3 22.2 17.1
   15       1    2    3    4    5    6    7    8    9   10

          18.0 19.9 13.7 13.0 12.2 11.3 10.4  9.5  8.7 13.3

   16       1    2    3    4    5    6    7    8    9   10

          13.3  8.6  9.5 10.2 11.2 12.1 12.9 13.5 19.8 17.8

   17       1    2    3    4    5    6    7
          47.5 30.7 26.6 23.3 22.0 20.6 15.0
   18       1    2    3    4    5    6    7
          14.8 20.6 22.2 23.3 26.6 31.0 48.1
1

 RECEIVER    LEQ(H)   L10
 7            57.2   60.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
          29.1 32.4 34.4 36.6 39.5 42.8
    2       1    2    3    4    5    6
          47.1 43.4 39.5 39.6 36.4 33.8
    3       1
          31.6
    4       1    2    3
          29.4 29.1 23.9
    5       1    2    3    4    5    6
          20.2 16.8 16.4 20.7 22.3 18.9
    6       1    2    3
          15.4 14.5 18.3
    7       1    2    3    4
          18.4 14.4 15.4 17.4
    8       1    2    3    4    5    6
          22.4 20.9 16.6 16.9 20.3 22.9
    9       1    2    3
          29.3 29.7 31.4
   10       1
          34.0
   11       1    2    3    4    5    6
          36.9 40.1 40.2 44.6 50.2 46.9
   12       1    2    3    4    5
          39.9 36.9 35.0 30.6 24.8
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          16.5 21.2 16.1 22.9 24.3 25.4 26.4 28.0 31.1 37.7

          39.0 37.7 35.2 33.5
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          33.6 35.3 37.7 39.4 37.5 31.3 28.2 26.2 25.9 24.4

          22.2 17.8 21.6 16.5
   15       1    2    3    4    5    6    7    8    9   10

          17.1 19.8 14.1 13.7 13.0 12.1 11.2 10.2  9.4 13.9

   16       1    2    3    4    5    6    7    8    9   10

          13.9  9.3 10.2 11.0 12.0 12.9 13.6 13.9 19.6 16.9

   17       1    2    3    4    5    6    7
          46.4 30.5 25.7 22.6 21.2 19.8 14.3
   18       1    2    3    4    5    6    7
          14.0 19.9 21.3 22.5 25.7 30.1 45.9
1

 RECEIVER    LEQ(H)   L10
 8            56.4   59.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
          28.5 31.9 34.0 35.7 37.5 40.3
    2       1    2    3    4    5    6
          45.5 46.4 41.6 40.9 37.3 34.3
    3       1
          31.9
    4       1    2    3
          29.6 29.2 24.0
    5       1    2    3    4    5    6
          20.2 16.8 16.4 20.7 22.2 18.6
    6       1    2    3
          15.1 14.1 17.9
    7       1    2    3    4
          18.0 14.0 15.1 17.2
    8       1    2    3    4    5    6
          22.4 20.9 16.6 17.0 20.3 23.0
    9       1    2    3
          29.4 29.9 31.8
   10       1
          34.6
   11       1    2    3    4    5    6
          37.9 41.9 43.0 49.2 47.8 43.7
   12       1    2    3    4    5
          38.1 35.8 31.6 25.1 22.0
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          16.5 21.3 16.2 23.2 24.6 26.1 27.0 28.1 30.0 36.1

          39.3 37.6 35.0 33.0
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          33.2 35.0 37.6 39.7 35.3 30.0 28.3 26.8 26.6 24.7

          22.4 17.8 21.7 16.6
   15       1    2    3    4    5    6    7    8    9   10

          17.0 19.7 14.4 14.2 13.8 13.1 12.4 11.5 10.7 15.1

   16       1    2    3    4    5    6    7    8    9   10

          15.1 10.6 11.5 12.1 12.9 13.5 14.0 14.2 19.5 16.9

   17       1    2    3    4    5    6    7
          38.2 28.7 24.5 21.9 20.9 19.5 14.1
   18       1    2    3    4    5    6    7
          13.9 19.6 20.9 21.8 24.5 28.5 38.0
1

 RECEIVER    LEQ(H)   L10
 9            56.7   60.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
          22.8 25.6 27.1 31.2 35.3 37.6
    2       1    2    3    4    5    6
          41.9 46.7 46.9 44.2 39.1 35.3
    3       1
          32.5
    4       1    2    3
          29.9 29.3 24.0
    5       1    2    3    4    5    6
          20.1 16.8 16.5 20.7 22.6 19.2
    6       1    2    3
          15.7 14.7 18.5
    7       1    2    3    4
          18.6 14.6 15.7 17.8
    8       1    2    3    4    5    6
          22.6 20.8 16.5 16.8 20.2 22.8
    9       1    2    3
          29.3 30.0 32.0
   10       1
          35.1
   11       1    2    3    4    5    6
          39.1 45.3 49.7 48.9 42.8 40.1
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  12        1    2    3    4    5
          32.6 28.5 26.7 21.5 18.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.9 20.5 15.3 22.0 23.2 24.0 24.7 25.7 27.4 31.1

          37.5 37.3 35.3 33.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          33.6 35.3 37.3 37.8 30.8 27.4 25.8 24.5 24.6 23.3

          21.2 17.0 20.9 16.0
  15        1    2    3    4    5    6    7    8    9   10

          16.0 19.4 14.5 14.3 13.9 13.0 12.2 11.2 10.3 14.6

  16        1    2    3    4    5    6    7    8    9   10

          14.6 10.2 11.2 12.0 12.9 13.7 14.2 14.3 19.3 15.9

  17        1    2    3    4    5    6    7
          29.3 25.1 21.9 20.1 19.5 18.5 13.3
  18        1    2    3    4    5    6    7
          13.0 18.5 19.4 20.0 21.8 24.9 29.4
1

 RECEIVER    LEQ(H)   L10
 10           56.4   59.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          20.3 23.0 24.3 26.6 31.5 34.2
   2        1    2    3    4    5    6
          38.9 42.2 46.6 47.4 40.5 36.5
   3        1
          33.6
   4        1    2    3
          31.0 30.3 24.9
   5        1    2    3    4    5    6
          21.1 17.6 17.2 21.4 23.0 19.2
   6        1    2    3
          15.6 14.6 18.4
   7        1    2    3    4
          18.5 14.5 15.6 17.7
   8        1    2    3    4    5    6
          23.1 21.7 17.5 17.8 21.3 24.0
   9        1    2    3
          30.6 31.4 33.6
  10        1
          36.9
  11        1    2    3    4    5    6
          41.5 49.8 49.9 43.4 39.1 36.4
  12        1    2    3    4    5
          28.1 25.4 24.2 23.0 20.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.5 20.2 14.9 21.5 22.6 23.7 24.2 25.2 27.3 30.7

          34.1 35.3 34.0 32.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.2 34.0 35.3 34.4 30.4 27.3 25.4 24.1 24.3 22.7

          20.8 16.5 20.6 15.6
  15        1    2    3    4    5    6    7    8    9   10

          15.5 19.1 14.5 14.5 14.2 13.5 12.7 11.6 10.7 15.0

  16        1    2    3    4    5    6    7    8    9   10

          14.9 10.6 11.6 12.5 13.3 14.0 14.4 14.2 18.9 15.4

  17        1    2    3    4    5    6    7
          26.3 25.0 21.5 18.9 18.4 17.7 12.7
  18        1    2    3    4    5    6    7
          12.5 17.7 18.4 18.9 20.9 24.0 26.3
1

 RECEIVER    LEQ(H)   L10
 11           55.2   58.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          20.7 23.3 24.6 25.2 29.5 31.8
   2        1    2    3    4    5    6
          34.6 36.5 38.6 47.7 42.8 34.2
   3        1
          29.8
   4        1    2    3
          26.5 25.3 19.7
   5        1    2    3    4    5    6
          15.8 12.3 12.0 16.2 18.0 14.6
   6        1    2    3
          11.2 10.3 14.0
   7        1    2    3    4
          14.0 10.1 11.1 13.1
   8        1    2    3    4    5    6
          18.0 16.3 12.1 12.4 15.8 18.6
   9        1    2    3
          25.3 26.5 29.4
  10        1
          34.0
  11        1    2    3    4    5    6
          43.3 51.3 40.0 37.4 35.5 33.8
  12        1    2    3    4    5
          26.3 25.4 23.9 22.5 20.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.6 28.6 23.4 30.5 32.5 34.8 33.8 29.0 29.7 31.2

          33.7 33.9 31.1 29.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.3 31.1 33.9 34.1 30.9 29.2 28.8 33.5 35.3 32.6

          29.9 25.1 29.0 23.7
  15        1    2    3    4    5    6    7    8    9   10

          24.2 26.5 21.3 21.3 21.3 20.5 19.7 18.7 17.7 21.9

  16        1    2    3    4    5    6    7    8    9   10

          21.9 17.6 18.6 19.5 20.4 21.1 21.1 21.1 26.2 24.1

  17        1    2    3    4    5    6    7
          23.1 22.8 25.3 28.6 28.2 26.8 21.3
  18        1    2    3    4    5    6    7
          21.1 26.8 28.3 28.5 25.2 23.2 23.0
1

 RECEIVER    LEQ(H)   L10
 12           52.2   54.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          20.6 23.3 24.6 25.2 24.0 24.8
   2        1    2    3    4    5    6
          26.6 30.2 33.7 40.3 41.8 37.5
   3        1
          34.1
   4        1    2    3
          31.2 30.4 24.8
   5        1    2    3    4    5    6
          20.9 17.5 17.2 21.5 23.4 20.4
   6        1    2    3
          17.2 16.4 20.2
   7        1    2    3    4
          20.1 16.2 17.1 18.8
   8        1    2    3    4    5    6
          23.3 21.5 17.2 17.5 20.9 23.6
   9        1    2    3
          30.3 31.1 33.5
  10        1
          37.1
  11        1    2    3    4    5    6
          41.7 42.2 35.1 30.6 27.8 27.9
  12        1    2    3    4    5
          25.6 25.7 24.7 23.8 20.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.8 32.6 27.4 34.5 36.0 37.8 35.3 30.7 31.4 31.3

          30.2 27.2 23.9 21.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.9 23.9 27.2 30.6 31.0 31.0 30.5 35.0 38.3 36.1

          33.7 29.1 33.0 27.9
  15        1    2    3    4    5    6    7    8    9   10

          28.1 31.3 26.7 26.8 26.3 25.5 24.6 23.6 22.6 26.8

  16        1    2    3    4    5    6    7    8    9   10

          26.8 22.5 23.5 24.4 25.3 26.1 26.6 26.5 31.1 28.0

  17        1    2    3    4    5    6    7
          25.4 26.1 28.8 31.5 31.9 30.8 25.4
  18        1    2    3    4    5    6    7
          25.2 30.7 31.9 31.3 28.7 26.4 25.9
1

 RECEIVER    LEQ(H)   L10
 13           54.1   57.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          14.0 16.7 17.7 18.9 20.5 23.2
   2        1    2    3    4    5    6
          28.1 32.2 46.7 38.5 39.8 36.6
   3        1
          33.7
   4        1    2    3
          31.1 30.4 25.0
   5        1    2    3    4    5    6
          21.2 17.8 17.5 21.8 23.7 20.6
   6        1    2    3
          17.4 16.5 20.3
   7        1    2    3    4
          20.3 16.3 17.3 19.1
   8        1    2    3    4    5    6
          23.7 21.9 17.5 17.8 21.2 23.9
   9        1    2    3
          30.4 31.1 33.2
  10        1
          36.4
  11        1    2    3    4    5    6
          39.8 39.4 47.3 32.8 28.5 25.5
  12        1    2    3    4    5
          20.6 19.1 17.8 16.7 14.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.7 34.5 29.3 36.3 37.7 38.8 36.0 31.9 30.4 24.5

          23.8 23.6 22.5 21.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.8 22.6 23.5 24.2 24.3 29.9 31.6 35.7 39.4 37.9

          35.5 31.0 34.9 29.8
  15        1    2    3    4    5    6    7    8    9   10

          30.1 33.8 29.1 28.9 28.4 27.5 26.5 25.4 24.5 28.7

  16        1    2    3    4    5    6    7    8    9   10

          28.7 24.4 25.4 26.3 27.3 28.2 28.8 28.8 33.6 30.0

  17        1    2    3    4    5    6    7
          22.8 25.4 31.3 33.6 33.8 32.8 27.5
  18        1    2    3    4    5    6    7
          27.3 32.8 33.7 33.4 31.2 25.2 22.6
1

 RECEIVER    LEQ(H)   L10
 14           52.9   55.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          23.4 25.9 28.3 30.9 31.8 31.4
   2        1    2    3    4    5    6
```

```
          33.5 32.9 30.2 29.3 24.7 21.6
  3         1
          19.1
  4         1    2    3
          16.7 16.3 11.1
  5         1    2    3    4    5    6
           7.3  4.0  3.7  8.0  9.8  6.4
  6         1    2    3
           3.1  2.1  5.9
  7         1    2    3    4
           5.9  2.0  3.0  4.9
  8         1    2    3    4    5    6
           9.8  8.1  3.8  4.1  7.4 10.0
  9         1    2    3
          16.3 16.8 18.7
 10         1
          21.5
 11         1    2    3    4    5    6
          24.9 29.7 31.1 34.0 34.2 34.5
 12         1    2    3    4    5
          30.9 30.5 26.6 25.1 23.2
 13         1    2    3    4    5    6    7    8    9   10

 11        12   13   14
          30.0 34.7 29.5 36.4 37.9 39.1 35.1 32.7 33.2 34.3

          35.5 35.6 34.0 27.8
 14         1    2    3    4    5    6    7    8    9   10

 11        12   13   14
          27.8 34.0 35.6 35.9 34.0 32.8 32.5 34.5 39.7 38.1

          35.7 31.2 35.1 30.1
 15         1    2    3    4    5    6    7    8    9   10

          30.5 34.7 29.7 29.5 28.9 28.0 27.0 25.9 25.0 29.3

 16         1    2    3    4    5    6    7    8    9   10

          29.3 24.9 25.9 26.8 27.8 28.7 29.4 29.5 34.6 30.4

 17         1    2    3    4    5    6    7
          40.7 39.8 32.7 34.5 34.3 33.1 27.8
 18         1    2    3    4    5    6    7
          27.6 33.1 34.2 34.3 32.7 39.0 40.8
1

 RECEIVER    LEQ(H)   L10
 15           50.5   52.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
          24.0 26.1 26.6 27.1 27.9 29.2
   2         1    2    3    4    5    6
          31.8 34.5 32.2 34.4 36.5 34.1
   3         1
          31.7
   4         1    2    3
          29.3 28.9 23.6
   5         1    2    3    4    5    6
          19.7 16.4 16.1 20.4 22.4 19.4
   6         1    2    3
          16.3 15.5 19.3
   7         1    2    3    4
          19.3 15.3 16.2 17.9
   8         1    2    3    4    5    6
          22.4 20.5 16.1 16.4 19.8 22.4
   9         1    2    3
          28.8 29.3 31.2
  10         1
          33.8
  11         1    2    3    4    5    6
          36.5 34.9 31.6 35.0 32.6 32.0
  12         1    2    3    4    5
          28.4 27.9 27.3 25.5 22.8
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          22.5 27.4 22.4 29.5 31.3 32.9 33.6 33.6 34.2 34.8

          33.3 30.9 29.0 27.6
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          27.6 29.0 30.9 33.8 34.4 33.9 33.4 33.2 33.5 31.4

          28.7 24.0 27.8 22.6
  15         1    2    3    4    5    6    7    8    9   10

          23.9 27.3 21.9 21.7 21.2 20.4 19.6 18.6 17.6 21.9

  16         1    2    3    4    5    6    7    8    9   10

          21.8 17.5 18.5 19.4 20.2 21.0 21.5 21.7 27.1 23.7

  17         1    2    3    4    5    6    7
          30.7 34.4 35.5 32.7 29.9 27.4 21.4
  18         1    2    3    4    5    6    7
          21.2 27.5 30.0 32.7 35.8 34.4 30.5
1

 RECEIVER    LEQ(H)   L10
 16           55.7   59.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
          25.4 27.9 30.0 31.5 34.0 38.8
   2         1    2    3    4    5    6
          36.9 33.1 31.0 31.6 28.9 27.4
   3         1
          25.4
   4         1    2    3
          23.2 22.9 17.8
   5         1    2    3    4    5    6
          14.1 10.8 10.5 14.8 16.8 13.7
   6         1    2    3
          10.4  9.6 13.4
   7         1    2    3    4
          13.4  9.4 10.3 12.2
   8         1    2    3    4    5    6
          16.7 14.9 10.6 10.8 14.1 16.7
   9         1    2    3
          22.9 23.2 24.9
  10         1
          27.3
  11         1    2    3    4    5    6
          29.3 31.7 30.0 32.4 35.9 41.3

  12         1    2    3    4    5
          33.8 30.8 29.5 27.6 24.2
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          25.6 30.4 25.4 32.5 34.3 36.0 35.9 35.6 36.0 35.9

          35.5 34.7 33.8 33.0
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          33.1 33.9 34.7 36.0 35.6 35.8 35.5 35.6 36.6 34.4

          31.7 27.1 30.8 25.7
  15         1    2    3    4    5    6    7    8    9   10

          29.7 35.2 27.1 25.7 24.4 23.0 22.0 20.9 20.0 24.6

  16         1    2    3    4    5    6    7    8    9   10

          24.6 20.0 20.9 21.8 23.0 24.3 25.7 26.9 35.0 29.7

  17         1    2    3    4    5    6    7
          41.4 45.8 45.8 39.9 38.3 36.1 30.5
  18         1    2    3    4    5    6    7
          30.3 36.1 38.2 38.8 46.2 46.3 41.2
1

 RECEIVER    LEQ(H)   L10
 17           54.9   58.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
          19.2 22.2 23.9 25.4 27.3 35.1
   2         1    2    3    4    5    6
          33.9 31.1 29.2 32.1 30.8 28.5
   3         1
          26.4
   4         1    2    3
          24.2 24.0 18.9
   5         1    2    3    4    5    6
          15.2 11.9 11.6 15.9 17.9 14.8
   6         1    2    3
          11.6 10.8 14.6
   7         1    2    3    4
          14.6 10.6 11.5 13.3
   8         1    2    3    4    5    6
          17.9 16.0 11.7 11.9 15.2 17.8
   9         1    2    3
          24.0 24.3 25.9
  10         1
          28.3
  11         1    2    3    4    5    6
          30.9 31.9 27.8 31.1 32.8 37.8
  12         1    2    3    4    5
          27.7 25.8 24.2 22.4 19.3
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          30.5 35.5 30.5 37.9 40.2 39.2 33.4 32.0 31.1 29.7

          28.5 28.0 26.7 25.6
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          25.7 26.8 27.9 29.0 29.5 31.3 32.5 33.5 39.8 40.3

          37.1 32.2 35.9 30.5
  15         1    2    3    4    5    6    7    8    9   10

          32.8 35.1 28.5 27.0 25.7 24.3 23.2 22.1 21.3 25.8

  16         1    2    3    4    5    6    7    8    9   10

          25.8 21.2 22.2 23.1 24.3 25.6 27.0 28.3 34.9 32.6

  17         1    2    3    4    5    6    7
          37.3 39.9 44.1 45.5 41.0 36.8 30.2
  18         1    2    3    4    5    6    7
          30.0 36.8 41.1 45.6 43.5 39.4 36.8
1

 RECEIVER    LEQ(H)   L10
 18           51.3   53.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
          18.2 21.3 22.3 22.6 22.5 22.2
   2         1    2    3    4    5    6
          22.9 22.7 22.7 28.6 33.5 30.4
   3         1
          27.5
   4         1    2    3
          24.8 24.2 18.7
   5         1    2    3    4    5    6
          14.9 11.5 11.3 15.6 17.8 15.1
   6         1    2    3
          12.1 11.3 15.1
   7         1    2    3    4
          15.0 11.0 11.8 13.4
   8         1    2    3    4    5    6
          17.7 15.6 11.2 11.5 14.8 17.5
   9         1    2    3
          24.0 24.6 26.8
  10         1
          30.1
  11         1    2    3    4    5    6
          33.7 30.4 23.3 23.1 23.3 24.7
  12         1    2    3    4    5
          23.0 23.1 22.7 21.6 18.4
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          25.3 30.6 25.9 33.6 36.4 40.4 41.8 33.6 30.5 28.8

          27.3 26.4 24.8 23.3
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          23.3 24.8 26.4 27.8 28.7 30.6 34.0 41.7 41.0 36.4

          32.8 27.6 31.0 25.3
  15         1    2    3    4    5    6    7    8    9   10

          28.6 29.3 21.7 20.7 19.7 18.6 17.6 16.5 15.5 20.0

  16         1    2    3    4    5    6    7    8    9   10
```

```
          20.0 15.5 16.5 17.4 18.5 19.5 20.6 21.5 29.0 28.3

   17       1    2    3    4    5    6    7
          21.7 25.1 31.2 38.7 37.0 32.7 25.5
   18       1    2    3    4    5    6    7
          25.4 32.9 37.6 38.9 30.7 25.1 21.8
1

 RECEIVER    LEQ(H)   L10
 19           51.5   53.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
          19.0 21.9 22.6 22.2 21.6 21.6
    2       1    2    3    4    5    6
          23.3 23.7 23.6 26.4 32.5 30.6
    3       1
          27.9
    4       1    2    3
          25.3 24.7 19.2
    5       1    2    3    4    5    6
          15.4 12.0 11.8 16.2 18.3 15.7
    6       1    2    3
          12.7 12.0 15.8
    7       1    2    3    4
          15.6 11.6 12.5 14.0
    8       1    2    3    4    5    6
          18.2 16.1 11.7 12.0 15.3 17.9
    9       1    2    3
          24.5 25.1 27.3
   10       1
          30.0
   11       1    2    3    4    5    6
          33.1 28.3 24.2 24.1 23.8 24.1
   12       1    2    3    4    5
          22.0 22.7 23.1 22.3 19.2
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          25.6 30.8 26.1 33.9 36.9 40.9 42.6 36.1 32.5 29.7

          27.9 26.7 24.9 23.4
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          23.5 25.0 26.7 28.4 29.6 32.7 36.5 42.7 41.6 37.0

          33.1 27.9 31.2 25.6
   15       1    2    3    4    5    6    7    8    9   10

          29.2 29.2 21.6 20.7 19.7 18.6 17.6 16.6 15.7 20.1

   16       1    2    3    4    5    6    7    8    9   10

          20.2 15.6 16.6 17.5 18.5 19.5 20.6 21.4 29.0 28.8

   17       1    2    3    4    5    6    7
          21.7 25.5 29.3 36.4 35.3 33.1 25.8
   18       1    2    3    4    5    6    7
          25.7 33.3 35.9 36.5 28.6 25.3 21.5
1

 RECEIVER    LEQ(H)   L10
 20           54.7   56.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
          31.6 28.1 24.7 23.6 22.8 22.4
    2       1    2    3    4    5    6
          23.4 22.9 21.8 24.3 23.4 22.4
    3       1
          21.3
    4       1    2    3
          20.3 23.0 21.3
    5       1    2    3    4    5    6
          17.6 14.3 14.1 18.5 19.0 13.4
    6       1    2    3
          10.3  9.6 14.6
    7       1    2    3    4
          15.3  9.4 10.2 11.9
    8       1    2    3    4    5    6
          19.9 18.6 14.1 14.4 17.6 20.1
    9       1    2    3
          24.5 21.1 21.1
   10       1
          22.4
   11       1    2    3    4    5    6
          23.7 25.0 22.5 23.1 23.7 24.8
   12       1    2    3    4    5
          23.0 24.3 25.1 28.4 31.9
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          27.3 32.4 27.7 35.1 38.1 41.5 43.8 42.5 40.7 39.3

          39.2 40.6 33.9 31.6
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          31.7 33.6 40.2 40.4 39.7 41.3 43.6 44.8 42.7 38.5

          34.7 29.7 33.0 27.5
   15       1    2    3    4    5    6    7    8    9   10

          34.9 34.4 26.7 25.8 24.9 23.9 23.1 22.3 21.6 26.3

   16       1    2    3    4    5    6    7    8    9   10

          26.4 21.5 22.3 23.0 23.9 24.8 25.7 26.5 34.2 34.6

   17       1    2    3    4    5    6    7
          21.2 23.3 25.7 29.2 34.9 36.0 30.9
   18       1    2    3    4    5    6    7
          30.8 36.2 35.1 28.4 23.5 24.7 21.5
1

 RECEIVER    LEQ(H)   L10
 21           56.4   58.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
          34.3 30.2 24.5 22.0 20.4 19.3
    2       1    2    3    4    5    6
          19.6 18.5 16.8 18.3 16.5 14.8
    3       1
          13.1
    4       1    2    3
          11.4 11.4  6.6
    5       1    4    5    6
           3.0  3.9  5.9  2.9
    6       3
           2.6
    7       1    4
           2.7  1.4
    8       1    2    5    6
           5.9  4.0  3.1  5.4
    9       1    2    3
          11.4 11.5 12.8
   10       1
          14.6
   11       1    2    3    4    5    6
          16.6 18.4 16.9 18.5 19.8 21.6
   12       1    2    3    4    5
          20.5 22.4 24.9 31.0 34.7
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          29.0 34.1 29.4 36.7 39.4 42.4 44.9 46.1 44.8 42.8

          42.0 42.0 35.9 29.4
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          29.4 34.2 41.8 42.8 43.2 45.5 47.3 45.6 43.3 39.7

          36.2 31.2 34.7 29.2
   15       1    2    3    4    5    6    7    8    9   10

          32.4 23.3 13.3 12.3 11.3 10.3  9.5  8.7  8.1 13.2

   16       1    2    3    4    5    6    7    8    9   10

          13.3  8.1  8.7  9.4 10.3 11.2 12.2 13.2 23.3 32.3

   17       1    2    3    4    5    6    7
          17.5 18.9 19.7 20.1 22.1 23.2 20.0
   18       1    2    3    4    5    6    7
          20.0 23.5 22.4 20.2 19.8 19.1 17.4
1

 RECEIVER    LEQ(H)   L10
 22           56.0   58.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
          35.6 33.3 26.6 23.3 21.1 19.7
    2       1    2    3    4    5    6
          19.9 18.7 16.8 18.3 16.4 14.7
    3       1
          13.1
    4       1    2    3
          11.3 11.3  6.5
    5       1    4    5    6
           2.9  3.8  5.8  2.8
    6       3
           2.5
    7       1    4
           2.5  1.3
    8       1    2    5    6
           5.8  3.9  2.9  5.4
    9       1    2    3
          11.4 11.3 12.6
   10       1
          14.5
   11       1    2    3    4    5    6
          16.5 18.4 16.9 18.7 20.0 22.0
   12       1    2    3    4    5
          21.2 23.6 27.1 33.9 36.0
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          28.3 33.3 28.5 35.8 38.3 40.9 42.9 44.8 45.3 43.2

          42.2 42.7 39.1 32.8
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          32.1 37.6 43.2 43.2 43.7 46.2 46.0 43.4 41.8 38.7

          35.3 30.4 33.9 28.5
   15       1    2    3    4    5    6    7    8    9   10

          30.9 23.4 13.7 12.6 11.7 10.7 10.0  9.2  8.8 13.9

   16       1    2    3    4    5    6    7    8    9   10

          14.0  8.7  9.3  9.9 10.7 11.6 12.7 13.7 23.4 30.8

   17       1    2    3    4    5    6    7
          17.7 18.9 19.4 19.4 21.2 23.1 19.9
   18       1    2    3    4    5    6    7
          19.9 23.3 21.4 19.5 19.4 19.0 17.5
```

```
                    *************************
                          OPTIMA-VU1
                    *************************
                 BARRIER OPTIMIZATION PROGRAM USING
               PARTIAL SOUND ENERGIES COMPUTED BY THE
                       STAMINA 2.0 PROGRAM
           MODIFIED FROM THE FHWA VAX VERSON -- MARCH 1983

         MODIFIED TO:
            1.   PLACE BARRIER COST DATA IN A DATA FILE CALLED
                 OPTCOST.DTA TO ALLOW USER TO USE COSTS OTHER THAN
                 THE FHWA NATIONAL AVERAGES.
                         *************************
            MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
                          IN JUNE 1991 BY
            VANDERBILT ENGINEERING CENTER FOR TRANSPORTATION
                  OPERATIONS AND RESEARCH (VECTOR)
         BOX 96-B, VANDERBILT UNIVERSITY, NASHVILLE, TENNESSEE 37235
                          (615) 322-3683
                         ************************

     PROBLEM TITLE
     *************
 Meadowood - Casitas 1st Floor (Receivers 1-22)No 15

            EFFECTIVENESS/COST RATIO AND BARRIER HEIGHT MATRICES
            ****************************************************
BARRIER SECTION        EFFECTIVENESS/COST                 CORRESPONDING
  NO  IDENT                  RATIO                         BARRIER HEIGHTS(IN
FT)

 HEIGHT INDEX   1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8
    1  29             *  35.  31.  29.  26.  23.  22.  21.   0. 7. 8.
9.10.11.12.13.
    2  1              *  21.  21.  21.  20.  19.  18.  18.   0. 7. 8.
9.10.11.12.13.
    3  2              *  32.  29.  27.  25.  23.  21.  21.   0. 7. 8.
9.10.11.12.13.
    4  3              *  32.  30.  28.  25.  22.  21.  20.   0. 7. 8.
9.10.11.12.13.
    5  4              *  13.  14.  14.  13.  12.  11.  11.   0. 7. 8.
9.10.11.12.13.
    6  5              *  33.  30.  29.  27.  24.  23.  22.   0. 7. 8.
9.10.11.12.13.
    7  7a             *  28.  27.  26.  26.  25.  24.  24.   0. 7. 8.
9.10.11.12.13.
    8  7b             *  31.  28.  27.  24.  22.  21.  20.   0. 7. 8.
9.10.11.12.13.
    9  8              *  33.  29.  28.  25.  23.  21.  21.   0. 7. 8.
9.10.11.12.13.
   10  9              *  33.  30.  28.  26.  23.  22.  21.   0. 7. 8.
9.10.11.12.13.
   11  10             *  27.  25.  25.  24.  23.  22.  22.   0. 7. 8.
9.10.11.12.13.
   12  11a            *  26.  25.  25.  23.  22.  21.  20.   0. 7. 8.
9.10.11.12.13.
   13  11b            *  32.  28.  27.  24.  22.  20.  19.   0. 7. 8.
9.10.11.12.13.
   14  12             *  36.  32.  31.  28.  26.  24.  24.   0. 7. 8.
9.10.11.12.13.
   15  13             *  15.  14.  14.  13.  11.  11.  11.   0. 7. 8.
9.10.11.12.13.
   16  14             *  16.  15.  15.  14.  13.  13.  13.   0. 7. 8.
9.10.11.12.13.
   17  15             *  16.  17.  17.  16.  15.  15.  15.   0. 7. 8.
9.10.11.12.13.
   18  16             *  24.  22.  20.  18.  16.  16.  15.   0. 7. 8.
9.10.11.12.13.
   19  17             *  -2.  -3.  -4.  -5.  -7.  -7.  -8.   0. 7. 8.
9.10.11.12.13.
   20  18             * 14.  11.   9.   7.   4.   3.   2.   0. 7. 8.
9.10.11.12.13.
   21  20             *  22.  21.  21.  20.  19.  18.  18.   0. 7. 8.
9.10.11.12.13.
   22  21             *  29.  25.  24.  21.  19.  18.  17.   0. 7. 8.
9.10.11.12.13.
   23  22             *  30.  26.  24.  22.  20.  18.  17.   0. 7. 8.
9.10.11.12.13.
   24  23             *  26.  24.  23.  21.  20.  19.  18.   0. 7. 8.
9.10.11.12.13.
   25  24             *  29.  25.  23.  20.  18.  16.  16.   0. 7. 8.
9.10.11.12.13.
   26  25             *  27.  24.  22.  20.  17.  16.  15.   0. 7. 8.
9.10.11.12.13.
   27  26             *  12.  11.  11.  10.   8.   8.   7.   0. 7. 8.
9.10.11.12.13.
   28  27             *  18.  16.  16.  14.  13.  12.  11.   0. 7. 8.
9.10.11.12.13.
   29  28             *  35.  31.  28.  25.  23.  21.  20.   0. 7. 8.
9.10.11.12.13.
   30  1          *   0.                              0.20.
   31  2          *   0.                              0.20.
   32  3          *   0.                              0.20.
   33  4          *   0.                              0.20.
   34  1          *   0.                              0.20.
   35  2          *   0.                              0.20.
   36  3          *   0.                              0.20.
   37  4          *   0.                              0.20.
   38  1          *   0.                              0.20.
   39  2          *   0.                              0.20.
   40  3          *   0.                              0.20.
   41  4          *   0.                              0.20.
   42  5          *   0.                              0.20.
   43  6          *   0.                              0.20.
   44  1          *   0.                              0.20.
   45  2          *   0.                              0.20.
   46  3          *   0.                              0.20.
   47  4          *   0.                              0.20.
   48  1          *   0.                              0.20.
   49  2          *   0.                              0.20.
   50  3          *   0.                              0.20.
   51  4          *   0.                              0.20.
   52  5          *   0.                              0.20.
   53  6          *   0.                              0.20.
   54  1          *   0.                              0.20.
   55  2          *   0.                              0.20.
   56  3          *   0.                              0.20.
   57  4          *   0.                              0.20.
   58  5          *   0.                              0.20.
   59  6          *   0.                              0.20.
   60  7          *   0.                              0.20.
   61  8          *   0.                              0.20.
   62  9          *   0.                              0.20.
   63  10         *   0.                              0.20.
   64  11         *   0.                              0.20.
   65  12         *   0.                              0.20.
   66  13         *   0.                              0.20.
   67  1          *   0.                              0.20.
   68  2          *   0.                              0.20.
   69  3          *   0.                              0.20.
   70  4          *   0.                              0.20.
   71  5          *   0.                              0.20.
   72  1          *   0.                              0.20.
   73  2          *   0.                              0.20.
   74  3          *   0.                              0.20.
   75  4          *   0.                              0.20.
   76  5          *   0.                              0.20.
   77  6          *   0.                              0.20.
   78  1          *   0.                              0.20.
   79  2          *   0.                              0.20.
   80  3          *   0.                              0.20.
   81  4          *   0.                              0.20.
   82  1          *   0.                              0.20.
   83  2          *   0.                              0.20.
   84  1          *   0.                              0.20.
   85  2          *   0.                              0.20.
   86  3          *   0.                              0.20.
   87  4          *   0.                              0.20.
   88  3          *   0.                              0.20.
   89  4          *   0.                              0.20.
   90  1          *   0.                              0.20.
   91  2          *   0.                              0.20.
   92  3          *   0.                              0.20.
   93  4          *   0.                              0.20.
   94  5          *   0.                              0.20.
   95  1          *   0.                              0.20.
   96  2          *   0.                              0.20.
   97  3          *   0.                              0.20.
   98  4          *   0.                              0.20.
   99  5          *   0.                              0.20.
  100  1          *   0.                              0.20.
  101  2          *   0.                              0.20.
  102  3          *   0.                              0.20.
  103  4          *   0.                              0.20.
  104  5          *   0.                              0.20.
  105  6          *   0.                              0.20.
  106  1          *   0.                              0.20.
  107  2          *   0.                              0.20.
  108  3          *   0.                              0.20.
  109  4          *   0.                              0.20.
  110  1          *   0.                              0.20.
  111  2          *   0.                              0.20.
  112  3          *   0.                              0.20.
  113  4          *   0.                              0.20.
  114  5          *   0.                              0.20.
  115  6          *   0.                              0.20.
  116  7          *   0.                              0.20.
  117  8          *   0.                              0.20.
  118  9          *   0.                              0.20.

HEIGHT INDEX   1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8

Meadowood - Casitas 1st Floor (Receivers 1-22)No 15


BARRIER HEIGHT INDEX FOR EACH BARRIER SECTION
  4  4  4  4  4  5  5  5  5  5  4  4  4  4  2  2  2  2  2  2  3  3  3  2  2
  2  2  3  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2
  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2
  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2
  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2
CORRESPONDING BARRIER HEIGHTS FOR EACH SECTION
  9. 9. 9. 9. 9.10.10.10.10.10. 9. 9. 9. 9. 7. 7. 7. 7. 7. 7. 8. 8. 8. 7. 7.
  7. 7. 8. 9.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.
20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.
20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.
20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.

     R E S U L T S
     *************

REC     REC ID          LEQ      LEQ(Z(0))      IL
  1     1               57.5      69.9         12.4
  2     2               57.5      66.5          9.1
  3     3               57.3      68.1         10.8
  4     4               57.4      67.4         10.1
  5     5               56.6      66.7         10.1
  6     6               56.8      68.4         11.6
  7     7               57.2      67.6         10.4
  8     8               56.4      68.1         11.7
  9     9               56.7      68.2         11.5
 10     10              57.6      68.2         10.6
 11     11              56.4      68.1         11.7
 12     12              53.0      63.1         10.0
 13     13              54.6      62.1          7.5
 14     14              53.5      62.0          8.5
 15     15              51.9      60.7          8.8
 16     16              57.3      66.0          8.7
 17     17              57.1      65.9          8.8
 18     18              54.6      65.0         10.4
 19     19              54.2      65.0         10.8
 20     20              55.9      69.5         13.7
 21     21              57.6      69.5         12.0
 22     22              57.2      69.6         12.4

BARRIER TYPE          COST                  AREA (SQ. FT.)
FH-BERM                   0.                   0.
FH-MASON            1356300.              246248.
FH-WOOD                   0.                   0.
FH-CONC                   0.                   0.
FH-STEEL                  0.                   0.
*******************************************************************
 TOTALS:          $ 1356300.              246248.

END OF ALL CASES
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                    *************************
                           STAM2VU1
                         Version 1.20
                    *************************
                       STAMINA 2.0/BCR
              MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
                 TRAFFIC NOISE PREDICTION MODEL

        MODIFIED TO:
          1.   ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
          2.   CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY
               USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
          3.   PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A
               DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE
               LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.
                    *************************
           MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
              BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
                    AND BOWLBY & ASSOCIATES, INC.
                      2014 BROADWAY, SUITE 210
                      NASHVILLE, TN 37203-2425
                 TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE
HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK
CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE
*.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.


        (INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH )


 Meadowood - Casitas 2nd Floor (Receivers 1-22)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

      HEIGHT       CODE          DESCRIPTION
         .00          1     RECEIVER HEIGHT ADJUSTMENT
        1.00          2     A-WEIGHTED SOUND LEVEL ONLY
         .00          3     HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
         .00          4     HEIGHT ADJUSTMENT FOR HEAVY TRUCKS   (HT)
         .00          5     HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS  (MT)
        .000          6     HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4)
                            CARS--CALVENO
                            C0 =       5.20  C1 =      38.80  S0 =         .00
       2.300          7     HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5)
                            MT--CALVENO
                            C0 =      35.30  C1 =      25.60  S0 =         .00
       8.000          8     HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6)
                            HT--CALVEN0
                            C0 =      50.40  C1 =      19.20  S0 =         .00

0ROADWAY   1     HRC nb (76 to Pankey)

                  VEHICLE TYPE   VEHICLES/HOUR      SPEED
                      CARS                0.         30.0
                      HT                  0.         30.0
                      MT                  0.         30.0
                      VEH4              415.         40.0
                      VEH5               13.         40.0
                      VEH6                9.         40.0
0                    ------------COORDINATES-------------
                         X           Y              Z      GRADE
 1                   6287767.4   2067284.0        276.0       0
 2                   6287704.7   2067456.2        276.0       0
 3                   6287629.7   2067702.5        279.0       0
 4                   6287568.8   2067936.5        284.0       0
 5                   6287512.3   2068148.3        284.0       0
 6                   6287446.9   2068359.4        282.0       0
 7                   6287374.5   2068606.6        279.0       0

0ROADWAY   2     HRC nb (Pankey to School)

                  VEHICLE TYPE   VEHICLES/HOUR      SPEED
                      CARS                0.         30.0
                      HT                  0.         30.0
                      MT                  0.         30.0
                      VEH4              695.         40.0
                      VEH5               22.         40.0
                      VEH6               15.         40.0
0                    ------------COORDINATES-------------
                         X           Y              Z      GRADE
 7                   6287374.5   2068606.6        279.0       0
 8                   6287273.9   2068832.6        278.0       0
 9                   6287137.9   2069057.7        278.0       0
 10                  6287017.0   2069263.4        280.0       0
 11                  6286760.9   2069688.9        285.0       0
 12                  6286533.2   2070137.4        290.0       0
 13                  6286310.7   2070587.7        296.0       0

0ROADWAY   3     HRC nb (School to 26)

                  VEHICLE TYPE   VEHICLES/HOUR      SPEED
                      CARS                0.         30.0
                      HT                  0.         30.0
                      MT                  0.         30.0
                      VEH4              689.         40.0
                      VEH5               22.         40.0
                      VEH6               15.         40.0
0                    ------------COORDINATES-------------
                         X           Y              Z      GRADE
 13                  6286310.7   2070587.7        296.0       0
 14                  6286086.4   2071030.0        302.0       0

0ROADWAY   4     HRC nb (26 to Harvest Glen)

                  VEHICLE TYPE   VEHICLES/HOUR      SPEED
                      CARS                0.         30.0
                      HT                  0.         30.0
                      MT                  0.         30.0
                      VEH4              634.         40.0
                      VEH5               20.         40.0
                      VEH6               13.         40.0
0                    ------------COORDINATES-------------
                         X           Y              Z      GRADE
 14                  6286086.4   2071030.0        302.0       0
 15                  6285859.5   2071475.8        308.0       0
 16                  6285540.8   2072106.2        311.0       0
 17                  6285403.1   2072385.2        310.0       0

0ROADWAY   5     HRC nb (Harvest Glen to Longspur)

                  VEHICLE TYPE   VEHICLES/HOUR      SPEED
                      CARS                0.         30.0
                      HT                  0.         30.0
                      MT                  0.         30.0
                      VEH4              488.         40.0
                      VEH5               15.         40.0
                      VEH6               10.         40.0
0                    ------------COORDINATES-------------
                         X           Y              Z      GRADE
 17                  6285403.1   2072385.2        310.0       0
 18                  6285328.1   2072574.1        310.0       0
 19                  6285298.0   2072673.9        310.0       0
 20                  6285270.7   2072773.6        311.0       0
 21                  6285221.2   2073078.2        314.0       0
 22                  6285201.8   2073673.3        322.0       0
 23                  6285188.6   2074037.0        338.0       0

0ROADWAY   6     HRC nb (Longspur to Baltimore)

                  VEHICLE TYPE   VEHICLES/HOUR      SPEED
                      CARS                0.         30.0
                      HT                  0.         30.0
                      MT                  0.         30.0
                      VEH4              347.         40.0
                      VEH5               11.         40.0
                      VEH6                7.         40.0
0                    ------------COORDINATES-------------
                         X           Y              Z      GRADE
 23                  6285188.6   2074037.0        338.0       0
 24                  6285145.3   2074308.9        346.0       0
 25                  6285056.1   2074546.4        351.0       0
 26                  6284650.0   2075149.4        356.0       0

0ROADWAY   7     HRC sb (Baltimore to Longspur)

                  VEHICLE TYPE   VEHICLES/HOUR      SPEED
                      CARS                0.         30.0
                      HT                  0.         30.0
                      MT                  0.         30.0
                      VEH4              347.         40.0
                      VEH5               11.         40.0
                      VEH6                7.         40.0
0                    ------------COORDINATES-------------
                         X           Y              Z      GRADE
 1                   6284621.8   2075132.6        356.0       0
 2                   6285015.5   2074527.9        351.0       0
 3                   6285099.4   2074300.1        346.0       0
 4                   6285141.8   2074033.5        338.0       0
 5                   6285159.4   2073671.5        322.0       0

0ROADWAY   8     HRC sb (Longspur to Harvest Glen)

                  VEHICLE TYPE   VEHICLES/HOUR      SPEED
                      CARS                0.         30.0
                      HT                  0.         30.0
                      MT                  0.         30.0
                      VEH4              488.         40.0
                      VEH5               15.         40.0
                      VEH6               10.         40.0
0                    ------------COORDINATES-------------
                         X           Y              Z      GRADE
 5                   6285159.4   2073671.5        322.0       0
 6                   6285181.5   2073072.9        314.0       0
 7                   6285228.3   2072759.5        311.0       0
 8                   6285256.5   2072658.0        310.0       0
 9                   6285287.4   2072557.3        310.0       0
 10                  6285368.7   2072369.3        310.0       0
 11                  6285504.6   2072087.7        311.0       0

0ROADWAY   9     HRC sb (Harvest Glen to 26)

                  VEHICLE TYPE   VEHICLES/HOUR      SPEED
                      CARS                0.         30.0
                      HT                  0.         30.0
                      MT                  0.         30.0
                      VEH4              634.         40.0
                      VEH5               20.         40.0
                      VEH6               13.         40.0
0                    ------------COORDINATES-------------
                         X           Y              Z      GRADE
 11                  6285504.6   2072087.7        311.0       0
 12                  6285818.9   2071457.3        308.0       0
 13                  6286045.8   2071007.9        302.0       0
 14                  6286269.2   2070567.4        296.0       0

0ROADWAY  10     HRC sb (26 to School)

                  VEHICLE TYPE   VEHICLES/HOUR      SPEED
                      CARS                0.         30.0
                      HT                  0.         30.0
                      MT                  0.         30.0
                      VEH4              689.         40.0
                      VEH5               22.         40.0
                      VEH6               14.         40.0
0                    ------------COORDINATES-------------
                         X           Y              Z      GRADE
 14                  6286269.2   2070567.4        296.0       0
 15                  6286493.4   2070122.4        290.0       0

0ROADWAY  11     HRC sb (School to Pankey)

                  VEHICLE TYPE   VEHICLES/HOUR      SPEED
                      CARS                0.         30.0
                      HT                  0.         30.0
                      MT                  0.         30.0
                      VEH4              695.         40.0
                      VEH5               22.         40.0
                      VEH6               15.         40.0
0                    ------------COORDINATES-------------
                         X           Y              Z      GRADE
 15                  6286493.4   2070122.4        290.0       0
 16                  6286720.3   2069667.7        285.0       0
 17                  6286977.2   2069239.6        280.0       0
 18                  6287102.6   2069033.0        278.0       0
 19                  6287238.6   2068813.1        278.0       0
```

20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

1

BARRIER 1 TYPE(A) Casitas Pad Edges 1

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
29	6287206.9	2067402.8	293.0	283.0	1.0	3
1	6287604.1	2067456.6	292.0	282.0		
2	6287556.7	2067611.1	292.0	282.0		
3	6287522.5	2067745.3	291.0	281.0		
4	6287464.5	2067976.1	291.0	281.0		
5	6287454.6	2068015.7	292.0	282.0		
6	6287323.5	2068473.5	288.0	278.0		

1

BARRIER 2 TYPE(A) Casitas Pad Edges 2

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
7a	6287289.2	2068526.0	288.0	278.0	1.0	3
7b	6287308.7	2068535.6	288.0	278.0		
8	6287229.9	2068717.4	289.0	279.0		
9	6287128.1	2068905.3	290.0	280.0		
10	6287014.0	2069093.0	290.0	280.0		
10b	6286997.0	2069082.5	290.0	280.0		

1

BARRIER 3 TYPE(A) Casitas Pad Edges 3

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
11a	6286968.3	2069123.7	290.0	280.0	1.0	3
11b	6286988.0	2069135.7	290.0	280.0		
12	6286743.4	2069547.7	292.0	282.0		
13	6286725.9	2069542.1	292.0	282.0		
14	6286765.9	2068976.7	291.0	281.0		
15	6286777.9	2068737.8	290.0	280.0		
16	6286837.9	2068587.8	290.0	280.0		
17	6286891.7	2068511.8	290.0	280.0		
18	6286906.9	2068334.1	288.0	278.0		
19	6287116.7	2068459.9	288.0	278.0		

1

BARRIER 4 TYPE(A) Casitas Pad Edges 4

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
20	6287150.1	2068366.2	287.0	277.0	1.0	3
21	6287134.3	2068401.8	287.0	277.0		
22	6286900.0	2068252.6	287.0	277.0		
23	6286818.7	2068179.5	286.0	276.0		
24	6286828.9	2068007.0	287.0	277.0		
25	6286839.7	2067846.7	288.0	278.0		
26	6286850.6	2067683.4	291.0	281.0		
27	6286860.1	2067542.5	292.0	282.0		
28	6286869.1	2067378.1	292.0	282.0		
29	6287206.9	2067402.8	293.0	283.0		

1

BARRIER 5 TYPE(A) Casitas Building 1

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
1	6287497.3	2067458.5	302.0	282.0	.0	0
2	6287525.1	2067616.7	302.0	282.0		
3	6287387.6	2067647.9	302.0	282.0		
4	6287361.7	2067482.3	302.0	282.0		
1	6287497.3	2067458.5	302.0	282.0		

1

BARRIER 6 TYPE(A) Casitas Building 2

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
1	6287377.4	2067888.6	301.0	281.0	.0	0
2	6287409.2	2067761.8	301.0	281.0		
3	6287490.6	2067771.9	301.0	281.0		
4	6287453.7	2067918.0	301.0	281.0		
1	6287377.4	2067888.6	301.0	281.0		

1

BARRIER 7 TYPE(A) Casitas Building 3

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
1	6287312.3	2068240.1	299.0	279.0	.0	0
2	6287375.3	2068155.1	302.0	282.0		
3	6287370.5	2068144.6	302.0	282.0		
4	6287446.1	2068032.8	302.0	282.0		
5	6287315.3	2067948.4	302.0	282.0		
6	6287177.5	2068176.3	299.0	279.0		
1	6287312.3	2068240.1	299.0	279.0		

```
1
 BARRIER   8   TYPE(A)      Casitas Building 4

           ---------COORDINATES----------
                  X          Y           Z           Z0        DELZ          P
 1         6287319.6 2068419.7      298.0       278.0          .0          0
 2         6287360.3 2068274.7      298.0       278.0
 3         6287243.1 2068251.4      298.0       278.0
 4         6287203.8 2068377.5      298.0       278.0
 1         6287319.6 2068419.7      298.0       278.0
1
 BARRIER   9   TYPE(A)      Casitas Building 5

           ---------COORDINATES----------
                  X          Y           Z           Z0        DELZ          P
 1         6287260.5 2068558.5      298.0       278.0          .0          0
 2         6287207.1 2068708.5      298.0       278.0
 3         6287124.2 2068857.1      298.0       278.0
 4         6287032.0 2068779.0      298.0       278.0
 5         6287101.2 2068664.2      298.0       278.0
 6         6287156.3 2068526.9      298.0       278.0
 1         6287260.5 2068558.5      298.0       278.0
1
 BARRIER  10   TYPE(A)      Casitas Building 6

           ---------COORDINATES----------
                  X          Y           Z           Z0        DELZ          P
 1         6287009.5 2069059.4      300.0       280.0          .0          0
 2         6286866.6 2068963.8      300.0       280.0
 3         6286848.9 2068934.9      300.0       280.0
 4         6286839.3 2068915.6      300.0       280.0
 5         6286878.5 2068816.4      300.0       280.0
 6         6286921.8 2068803.8      300.0       280.0
 7         6286958.5 2068787.7      300.0       280.0
 8         6286950.1 2068760.1      300.0       280.0
 9         6287008.0 2068739.9      300.0       280.0
 10        6287050.2 2068848.7      300.0       280.0
1
 BARRIER  11   TYPE(A)      Casitas Building 6 cont.

           ---------COORDINATES----------
                  X          Y           Z           Z0        DELZ          P
 10        6287050.2 2068848.7      300.0       280.0          .0          0
 11        6286994.5 2068869.8      300.0       280.0
 12        6286984.0 2068885.6      300.0       280.0
 13        6287076.3 2068944.5      300.0       280.0
 1         6287009.5 2069059.4      300.0       280.0
1
 BARRIER  12   TYPE(A)      Casitas Building 7

           ---------COORDINATES----------
                  X          Y           Z           Z0        DELZ          P
 1         6286962.4 2069131.0      300.0       280.0          .0          0
 2         6286906.6 2069240.8      300.0       280.0
 3         6286806.8 2069180.9      300.0       280.0
 4         6286820.1 2069112.3      300.0       280.0
 5         6286847.7 2069065.5      300.0       280.0
 1         6286962.4 2069131.0      300.0       280.0
1
 BARRIER  13   TYPE(A)      Casitas Building 8

           ---------COORDINATES----------
                  X          Y           Z           Z0        DELZ          P
 1         6286919.7 2068586.0      298.0       278.0          .0          0
 2         6286975.4 2068445.9      298.0       278.0
 3         6287085.1 2068493.1      298.0       278.0
 4         6287067.7 2068536.8      298.0       278.0
 5         6287037.8 2068526.8      298.0       278.0
 6         6287011.4 2068608.3      298.0       278.0
 1         6286919.7 2068586.0      298.0       278.0
1
 BARRIER  14   TYPE(A)      Casitas Building 9

           ---------COORDINATES----------
                  X          Y           Z           Z0        DELZ          P
 1         6286923.9 2068215.3      296.0       276.0          .0          0
 2         6286835.4 2068093.4      296.0       276.0
 3         6286940.2 2068028.8      296.0       276.0
 4         6286989.9 2068155.0      296.0       276.0
 1         6286923.9 2068215.3      296.0       276.0
1
 BARRIER  15   TYPE(A)      Casitas Building 10 and 11

           ---------COORDINATES----------
                  X          Y           Z           Z0        DELZ          P
 1         6286841.2 2068002.8      297.0       277.0          .0          0
 2         6286851.3 2067852.5      297.0       277.0
 1         6286863.2 2067826.9      298.0       278.0
 2         6286871.6 2067705.5      298.0       278.0
 3         6286971.5 2067707.9      298.0       278.0
 4         6286971.6 2067840.2      298.0       278.0
 3         6286973.3 2067870.0      297.0       277.0
 4         6286964.4 2068001.7      297.0       277.0
 1         6286841.2 2068002.8      297.0       277.0
1
 BARRIER  16   TYPE(A)      Casitas Building 12

           ---------COORDINATES----------
                  X          Y           Z           Z0        DELZ          P
 1         6286863.0 2067678.2      300.0       280.0          .0          0
 2         6286870.7 2067553.9      300.0       280.0
 3         6286904.5 2067556.2      300.0       280.0
 4         6286983.9 2067633.8      300.0       280.0
 5         6286986.1 2067679.0      300.0       280.0
 1         6286863.0 2067678.2      300.0       280.0
1
 BARRIER  17   TYPE(A)      Casitas Building 13

           ---------COORDINATES----------
                  X          Y           Z           Z0        DELZ          P
 1         6287022.0 2067602.5      302.0       282.0          .0          0
 2         6286881.6 2067531.7      302.0       282.0
 3         6286959.8 2067397.1      302.0       282.0
 4         6287056.7 2067467.7      302.0       282.0
 5         6287099.5 2067532.8      302.0       282.0
 1         6287022.0 2067602.5      302.0       282.0
1
 BARRIER  18   TYPE(A)      Casitas Building 14

           ---------COORDINATES----------
                  X          Y           Z           Z0        DELZ          P
 1         6287070.3 2067443.8      302.0       282.0          .0          0
 2         6287069.5 2067409.8      302.0       282.0
 3         6287185.4 2067419.7      302.0       282.0
 4         6287171.1 2067519.2      302.0       282.0
 5         6287137.3 2067516.5      302.0       282.0
 6         6287140.8 2067450.4      302.0       282.0
 1         6287070.3 2067443.8      302.0       282.0
1
 BARRIER  19   TYPE(A)      Casitas Building 15

           ---------COORDINATES----------
                  X          Y           Z           Z0        DELZ          P
 1         6287196.7 2067529.8      302.0       282.0          .0          0
 2         6287205.1 2067425.2      302.0       282.0
 3         6287359.9 2067441.9      302.0       282.0
 4         6287350.0 2067548.3      302.0       282.0
 1         6287196.7 2067529.8      302.0       282.0
1
 BARRIER  20   TYPE(A)      Casitas Building 16

           ---------COORDINATES----------
                  X          Y           Z           Z0        DELZ          P
 1         6287093.0 2067613.4      300.0       280.0          .0          0
 2         6287269.9 2067629.2      301.0       281.0
 3         6287322.9 2067690.9      301.0       281.0
 4         6287306.7 2067915.3      300.0       280.0
 5         6287241.1 2068012.1      300.0       280.0
 6         6287137.3 2068171.3      297.0       277.0
 7         6287043.6 2068104.3      297.0       277.0
 8         6287037.1 2067916.5      299.0       279.0
 9         6287058.4 2067690.4      300.0       280.0
 1         6287093.0 2067613.4      300.0       280.0
1
 Casitas Receivers @ 15'


                          ------------COORDINATES-------------
                                X            Y              Z
 1                          6287450.1   2067435.2         297.0
 2                          6287521.9   2067664.8         295.0
 3                          6287487.2   2067848.9         296.0
 4                          6287409.8   2068101.8         297.0
 5                          6287367.5   2068243.5         294.0
 6                          6287348.9   2068349.7         293.0
 7                          6287235.0   2068658.2         292.0
 8                          6287168.3   2068808.5         294.0
 9                          6287048.5   2069012.2         295.0
 10                         6286940.7   2069192.7         295.0
 11                         6286744.0   2069524.7         295.0
 12                         6286804.6   2069126.5         295.0
 13                         6286832.2   2068935.2         296.0
 14                         6286896.7   2068794.2         295.0
 15                         6286880.3   2068556.4         292.0
 16                         6287010.9   2068302.2         292.0
 17                         6286859.3   2068179.1         291.0
 18                         6286841.4   2067923.4         292.0
 19                         6286855.4   2067766.2         293.0
 20                         6286919.2   2067384.1         297.0
 21                         6287123.6   2067405.7         297.0
 22                         6287290.3   2067421.2         297.0
1
  ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

   1 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
   2 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
   3 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
   4 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
   5 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
   6 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
   7 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
   8 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
   9 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
  10 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
  11 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
  12 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
  13 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
  14 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
  15 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
  16 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
  17 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
  18 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
1
  SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

   1 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
   2 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
   3 *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
         .0   .0
```

```
 4 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 5 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 6 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 7 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 8 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
 9 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
10 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
11 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
12 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
13 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
14 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
15 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
16 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
17 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
18 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0
1

 RECEIVER    LEQ(H)   L10
 1            69.8   72.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            49.9 44.0 37.4 33.9 31.5 30.0
    2        1    2    3    4    5    6
            30.2 28.9 27.3 28.9 27.1 25.5
    3        1
            24.0
    4        1    2    3
            22.3 22.4 17.6
    5        1    2    3    4    5    6
            14.1 10.8 10.6 14.9 16.8 13.9
    6        1    2    3
            10.7 10.0 13.7
    7        1    2    3    4
            13.8  9.8 10.6 12.4
    8        1    2    3    4    5    6
            16.9 15.0 10.6 10.9 14.1 16.5
    9        1    2    3
            22.4 22.3 23.5
   10        1
            25.3
   11        1    2    3    4    5    6
            27.2 28.5 26.6 28.4 30.2 32.4
   12        1    2    3    4    5
            31.1 34.1 37.1 45.7 51.4
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            38.7 43.7 38.9 46.1 48.5 51.3 54.3 58.3 61.9 59.6

            55.3 52.1 44.7 42.7
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            42.8 44.8 51.5 56.0 60.1 63.0 58.9 54.3 51.8 48.5

            45.3 40.5 44.1 38.7
   15        1    2    3    4    5    6    7    8    9   10

            37.1 31.3 24.6 23.8 22.9 22.1 21.4 20.8 20.3 25.4

   16        1    2    3    4    5    6    7    8    9   10

            25.4 20.2 20.8 21.4 22.1 22.9 23.8 24.5 31.2 37.1

   17        1    2    3    4    5    6    7
            24.3 26.5 24.1 25.2 28.8 30.1 25.6
   18        1    2    3    4    5    6    7
            25.4 30.0 28.7 24.4 21.8 25.1 23.3
1

 RECEIVER    LEQ(H)   L10
 2            63.9   66.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            43.4 52.7 52.3 45.0 40.5 37.6
    2        1    2    3    4    5    6
            36.5 32.0 30.1 31.6 29.7 28.0
    3        1
            26.4
    4        1    2    3
            24.7 24.8 19.9
    5        1    2    3    4    5    6
            16.3 13.0 12.8 17.1 19.2 16.2
    6        1    2    3
            13.1 12.3 16.1
    7        1    2    3    4
            16.1 12.1 12.9 14.7
    8        1    2    3    4    5    6
            19.1 17.2 12.9 13.1 16.3 18.8
    9        1    2    3
            24.8 24.7 25.9
   10        1
            27.9
   11        1    2    3    4    5    6
            29.8 30.7 29.3 31.7 33.5 39.4
   12        1    2    3    4    5
            40.0 44.7 53.7 54.3 43.3
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            28.2 33.1 28.1 35.2 37.1 39.3 40.9 42.5 46.6 51.3

            51.5 51.3 50.1 47.9
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            48.1 50.2 51.6 52.3 51.5 46.8 43.0 40.9 39.8 37.3

            34.4 29.8 33.5 28.3
   15        1    2    3    4    5    6    7    8    9   10

            29.6 31.4 25.3 24.8 24.2 23.5 22.9 22.1 21.5 26.4

   16        1    2    3    4    5    6    7    8    9   10

            26.4 21.4 22.2 22.7 23.4 24.1 24.7 25.2 31.3 29.4

   17        1    2    3    4    5    6    7
            26.6 28.6 25.6 26.0 28.4 30.0 25.1
   18        1    2    3    4    5    6    7
            25.0 29.9 28.3 25.4 23.5 27.0 26.1
1

 RECEIVER    LEQ(H)   L10
 3            67.1   70.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            43.7 51.2 58.7 54.9 48.2 42.6
    2        1    2    3    4    5    6
            39.2 33.9 31.6 33.1 31.1 29.3
    3        1
            27.7
    4        1    2    3
            25.9 25.9 21.0
    5        1    2    3    4    5    6
            17.4 14.1 13.9 18.2 20.2 17.3
    6        1    2    3
            14.2 13.4 17.2
    7        1    2    3    4
            17.2 13.2 14.0 15.7
    8        1    2    3    4    5    6
            20.2 18.3 13.9 14.2 17.4 19.9
    9        1    2    3
            25.9 26.0 27.2
   10        1
            29.2
   11        1    2    3    4    5    6
            31.2 32.3 30.8 33.4 36.7 42.4
   12        1    2    3    4    5
            46.0 56.5 62.4 49.6 41.0
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            25.8 30.8 25.8 33.0 35.0 37.3 39.2 41.2 43.5 51.1

            52.8 51.7 49.5 47.7
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            47.9 49.7 51.8 53.5 52.4 43.4 41.2 38.9 37.7 35.1

            32.2 27.5 31.1 25.9
   15        1    2    3    4    5    6    7    8    9   10

            26.9 27.6 21.1 20.5 19.9 19.2 18.5 17.7 16.9 21.5

   16        1    2    3    4    5    6    7    8    9   10

            21.5 16.9 17.6 18.3 19.1 19.8 20.4 20.9 27.4 26.7

   17        1    2    3    4    5    6    7
            29.2 30.6 27.7 26.1 28.9 28.3 23.1
   18        1    2    3    4    5    6    7
            22.9 28.4 28.9 25.7 25.5 28.7 28.7
1

 RECEIVER    LEQ(H)   L10
 4            65.3   68.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            31.6 38.0 48.4 57.1 56.2 48.4
    2        1    2    3    4    5    6
            43.7 39.4 35.0 35.5 33.3 31.6
    3        1
            30.0
    4        1    2    3
            28.0 27.8 22.9
    5        1    2    3    4    5    6
            19.2 15.9 15.6 20.0 21.9 18.9
    6        1    2    3
            15.7 14.8 18.6
    7        1    2    3    4
            18.6 14.6 15.5 17.4
    8        1    2    3    4    5    6
            21.9 20.1 15.7 15.9 19.3 21.7
    9        1    2    3
            27.8 28.0 29.5
   10        1
            31.4
   11        1    2    3    4    5    6
            32.9 34.5 33.4 38.1 42.6 49.0
   12        1    2    3    4    5
            57.5 59.1 44.9 35.5 31.1
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            23.3 28.2 23.2 30.3 32.1 34.1 35.6 37.1 39.7 42.2

            48.8 49.7 48.2 46.8
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            47.0 48.3 49.8 50.7 41.7 39.7 37.2 35.4 34.6 32.2

            29.5 24.9 28.6 23.4
   15        1    2    3    4    5    6    7    8    9   10

            24.5 26.2 20.3 20.0 19.5 18.8 18.2 17.3 16.5 20.9

   16        1    2    3    4    5    6    7    8    9   10
```

```
          20.9 16.4 17.3 17.9 18.6 19.3 19.8 20.1 25.9 24.3

  17        1    2    3    4    5    6    7
          38.5 34.5 31.7 27.9 28.2 26.9 21.3
  18        1    2    3    4    5    6    7
          21.1 27.0 28.4 27.2 29.2 32.3 38.7
1

 RECEIVER    LEQ(H)   L10
 5            63.8   67.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          34.4 38.5 42.7 50.0 56.4 51.8
   2        1    2    3    4    5    6
          45.2 40.5 33.9 34.5 31.8 29.5
   3        1
          27.5
   4        1    2    3
          25.5 25.4 20.4
   5        1    2    3    4    5    6
          16.7 13.4 13.1 17.4 19.4 16.4
   6        1    2    3
          13.2 12.3 16.2
   7        1    2    3    4
          16.1 12.1 13.1 14.8
   8        1    2    3    4    5    6
          19.4 17.5 13.2 13.4 16.7 19.3
   9        1    2    3
          25.4 25.6 27.1
  10        1
          29.4
  11        1    2    3    4    5    6
          31.8 34.5 34.0 37.1 45.4 54.2
  12        1    2    3    4    5
          58.8 49.1 42.3 37.0 29.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.3 32.1 27.1 33.9 35.6 36.9 36.9 37.2 38.2 42.6

          44.3 45.8 46.9 46.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          46.4 47.1 45.9 44.8 42.5 38.0 37.0 36.5 37.3 35.8

          33.2 28.7 32.5 27.5
  15        1    2    3    4    5    6    7    8    9   10

          28.5 31.8 28.4 26.5 25.6 24.6 23.8 22.9 22.1 26.9

  16        1    2    3    4    5    6    7    8    9   10

          26.9 22.1 22.9 23.6 24.5 25.5 26.5 28.3 31.4 28.3

  17        1    2    3    4    5    6    7
          40.4 36.8 34.2 30.1 30.8 30.8 25.4
  18        1    2    3    4    5    6    7
          25.2 30.8 30.7 28.9 31.8 35.1 40.5
1

 RECEIVER    LEQ(H)   L10
 6            67.3   70.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          33.7 37.7 42.1 48.6 56.8 58.2
   2        1    2    3    4    5    6
          50.1 43.4 38.6 37.7 32.9 30.4
   3        1
          28.4
   4        1    2    3
          26.3 25.9 20.9
   5        1    2    3    4    5    6
          17.2 13.9 13.7 18.1 21.0 19.8
   6        1    2    3
          17.2 16.5 20.3
   7        1    2    3    4
          19.9 16.3 17.0 17.9
   8        1    2    3    4    5    6
          20.6 18.1 13.7 13.9 17.1 19.7
   9        1    2    3
          25.9 26.1 27.7
  10        1
          30.1
  11        1    2    3    4    5    6
          32.6 35.9 37.3 42.2 48.8 63.8
  12        1    2    3    4    5
          59.1 46.3 40.8 37.3 33.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.6 28.5 23.4 30.6 32.4 34.4 35.5 36.3 37.3 42.3

          45.8 48.0 46.9 45.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          46.0 47.0 48.0 48.6 42.3 37.0 36.1 35.1 34.8 32.5

          29.8 25.0 28.9 23.7
  15        1    2    3    4    5    6    7    8    9   10

          24.5 26.2 20.1 19.7 19.0 18.3 17.5 16.6 15.8 20.4

  16        1    2    3    4    5    6    7    8    9   10

          20.4 15.8 16.6 17.3 18.1 18.9 19.5 19.9 26.0 24.4

  17        1    2    3    4    5    6    7
          48.0 36.6 32.3 29.2 28.1 26.7 21.2
  18        1    2    3    4    5    6    7
          21.1 26.8 28.2 29.4 33.4 37.5 48.6
1

 RECEIVER    LEQ(H)   L10
 7            63.8   67.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          30.8 34.1 36.4 38.8 42.3 50.1
   2        1    2    3    4    5    6
          57.6 50.0 43.4 42.0 37.8 34.8
   3        1
          32.6
   4        1    2    3
          30.3 30.0 24.8
   5        1    2    3    4    5    6
          21.0 17.7 17.4 21.7 23.6 20.7
   6        1    2    3
          17.6 16.8 20.6
   7        1    2    3    4
          20.6 16.6 17.4 19.1
   8        1    2    3    4    5    6
          23.6 21.8 17.5 17.7 21.1 23.7
   9        1    2    3
          30.0 30.4 32.1
  10        1
          34.7
  11        1    2    3    4    5    6
          37.8 41.7 43.2 50.1 59.7 52.0
  12        1    2    3    4    5
          42.1 38.6 36.1 32.8 28.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.9 26.7 21.7 28.7 30.4 32.0 33.2 33.9 35.0 39.6

          41.5 42.0 42.1 42.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          42.4 42.2 42.0 41.9 39.2 34.7 33.7 32.7 32.4 30.4

          27.9 23.3 27.0 21.9
  15        1    2    3    4    5    6    7    8    9   10

          22.5 24.7 19.1 18.8 18.2 17.5 16.8 15.8 15.0 19.5

  16        1    2    3    4    5    6    7    8    9   10

          19.5 14.9 15.8 16.5 17.3 18.1 18.7 18.9 24.6 22.4

  17        1    2    3    4    5    6    7
          46.8 35.2 30.5 27.5 26.3 24.9 19.5
  18        1    2    3    4    5    6    7
          19.2 25.0 26.4 27.6 30.6 35.4 46.4
1

 RECEIVER    LEQ(H)   L10
 8            66.8   70.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          29.7 32.8 34.9 36.8 39.7 46.8
   2        1    2    3    4    5    6
          58.6 60.4 50.1 45.0 39.6 36.5
   3        1
          34.1
   4        1    2    3
          31.8 31.4 26.1
   5        1    2    3    4    5    6
          22.3 19.0 18.7 23.0 25.2 22.5
   6        1    2    3
          19.9 19.4 23.2
   7        1    2    3    4
          23.0 19.0 19.6 20.9
   8        1    2    3    4    5    6
          25.1 23.1 18.7 18.9 22.2 24.9
   9        1    2    3
          31.2 31.7 33.5
  10        1
          36.1
  11        1    2    3    4    5    6
          39.3 44.3 47.7 61.9 59.1 46.6
  12        1    2    3    4    5
          39.2 36.6 33.7 30.8 26.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          25.8 30.6 25.5 32.5 33.8 35.2 33.8 33.5 34.1 38.4

          40.4 42.7 44.2 43.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          43.5 44.2 45.0 40.9 37.9 33.8 33.2 33.3 35.6 33.9

          31.7 27.2 31.0 25.9
  15        1    2    3    4    5    6    7    8    9   10

          26.3 29.2 23.9 23.7 23.3 22.6 21.9 21.0 20.2 24.7

  16        1    2    3    4    5    6    7    8    9   10

          24.7 20.1 21.0 21.7 22.4 23.1 23.5 23.7 29.0 26.2

  17        1    2    3    4    5    6    7
          38.6 33.0 30.1 30.4 30.0 28.7 23.4
  18        1    2    3    4    5    6    7
          23.2 28.7 30.0 30.3 30.4 33.9 38.7
1

 RECEIVER    LEQ(H)   L10
 9            66.7   70.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.6 29.5 31.3 33.2 36.2 40.1
   2        1    2    3    4    5    6
          49.4 59.5 59.7 52.6 43.2 40.0
   3        1
          37.5
   4        1    2    3
          35.1 34.7 29.3
   5        1    2    3    4    5    6
          25.4 22.0 21.7 26.0 27.8 25.5
   6        1    2    3
          22.6 21.7 25.5
   7        1    2    3    4
          25.4 21.5 22.5 23.7
   8        1    2    3    4    5    6
          27.8 26.1 21.4 20.4 23.7 26.4
   9        1    2    3
          32.9 33.4 35.4
  10        1
          38.3
  11        1    2    3    4    5    6
          41.9 49.7 60.9 59.9 46.9 41.7
```

```
 12        1    2    3    4    5
         34.8 32.3 30.6 26.5 24.5
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         22.8 27.5 22.4 29.2 30.7 31.9 32.1 32.3 32.8 36.3

         38.6 39.9 42.4 42.3
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         42.4 43.0 39.8 39.0 35.9 32.4 32.1 31.8 32.5 30.8

         28.4 24.0 27.9 22.9
 15        1    2    3    4    5    6    7    8    9   10

         23.1 26.0 21.1 21.0 20.7 20.0 19.4 18.5 17.6 22.0

 16        1    2    3    4    5    6    7    8    9   10

         22.0 17.5 18.4 19.1 19.9 20.5 20.9 20.9 25.9 23.0

 17        1    2    3    4    5    6    7
         29.9 29.6 27.3 27.3 26.6 25.6 20.2
 18        1    2    3    4    5    6    7
         19.9 25.5 26.6 27.3 28.2 30.2 30.5
1

RECEIVER    LEQ(H)   L10
10           67.1   70.6

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         24.8 27.9 29.6 30.4 34.0 37.4
  2        1    2    3    4    5    6
         43.9 51.3 60.1 59.5 45.7 40.4
  3        1
         37.1
  4        1    2    3
         34.3 33.4 27.9
  5        1    2    3    4    5    6
         23.9 20.6 20.3 24.7 27.0 24.9
  6        1    2    3
         22.6 22.1 25.9
  7        1    2    3    4
         25.8 21.9 22.2 23.2
  8        1    2    3    4    5    6
         26.8 24.6 20.2 20.4 23.8 26.5
  9        1    2    3
         33.1 33.9 36.1
 10        1
         39.4
 11        1    2    3    4    5    6
         44.2 60.2 62.1 48.7 42.8 38.8
 12        1    2    3    4    5
         31.9 30.3 28.6 25.3 23.3
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         22.2 27.0 21.8 28.7 30.1 31.4 31.3 31.3 31.8 34.7

         37.1 40.0 41.7 41.3
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         41.4 41.7 40.0 37.4 34.3 31.3 31.1 30.9 32.0 30.2

         28.0 23.5 27.4 22.3
 15        1    2    3    4    5    6    7    8    9   10

         22.4 25.3 20.6 20.6 20.3 19.7 19.0 18.1 17.2 21.6

 16        1    2    3    4    5    6    7    8    9   10

         21.5 17.2 18.1 18.8 19.6 20.1 20.5 20.4 25.2 22.3

 17        1    2    3    4    5    6    7
         27.0 27.3 25.9 26.4 25.8 24.8 19.6
 18        1    2    3    4    5    6    7
         19.3 24.8 25.9 26.4 26.5 27.9 27.5
1

RECEIVER    LEQ(H)   L10
11           66.4   69.9

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         21.6 25.3 27.4 28.3 30.5 33.5
  2        1    2    3    4    5    6
         38.0 41.1 44.8 61.3 53.6 46.4
  3        1
         42.6
  4        1    2    3
         39.2 38.0 32.4
  5        1    2    3    4    5    6
         28.5 25.1 24.7 29.0 30.7 27.4
  6        1    2    3
         23.9 23.0 26.6
  7        1    2    3    4
         26.6 22.8 23.8 25.8
  8        1    2    3    4    5    6
         30.7 29.1 24.8 25.1 28.5 31.3
  9        1    2    3
         38.0 39.2 42.1
 10        1
         46.2
 11        1    2    3    4    5    6
         54.1 63.1 44.3 40.7 37.7 34.7
 12        1    2    3    4    5
         28.7 27.5 25.8 23.2 21.2
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         31.9 36.0 30.6 36.7 37.1 37.2 34.6 29.5 30.2 33.0

         35.3 36.7 37.1 37.5
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         37.6 37.1 36.6 35.7 32.5 29.7 29.2 34.3 37.7 37.3

         36.0 32.1 36.4 32.0
 15        1    2    3    4    5    6    7    8    9   10

         30.7 36.6 33.4 34.3 34.3 33.9 33.2 32.3 31.3 35.6

 16        1    2    3    4    5    6    7    8    9   10

         35.6 31.2 32.2 33.0 33.7 34.1 34.1 33.2 36.5 30.7

 17        1    2    3    4    5    6    7
         23.6 23.5 26.3 30.4 31.5 31.7 27.5
 18        1    2    3    4    5    6    7
         27.2 31.6 31.4 30.2 26.1 24.1 23.8
1

RECEIVER    LEQ(H)   L10
12           55.3   57.2

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         23.0 25.2 28.8 29.9 30.1 31.9
  2        1    2    3    4    5    6
         34.5 37.4 40.6 44.5 42.9 38.7
  3        1
         35.9
  4        1    2    3
         33.3 32.7 27.3
  5        1    2    3    4    5    6
         23.4 20.0 19.7 23.9 25.8 22.5
  6        1    2    3
         19.3 18.4 22.2
  7        1    2    3    4
         22.2 18.3 19.2 21.0
  8        1    2    3    4    5    6
         25.8 24.1 19.8 20.1 23.5 26.2
  9        1    2    3
         32.8 33.4 35.6
 10        1
         38.7
 11        1    2    3    4    5    6
         42.7 45.5 40.4 37.4 35.4 34.0
 12        1    2    3    4    5
         30.2 29.4 26.5 24.5 22.3
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         31.8 36.2 30.9 37.4 38.3 38.8 36.1 31.4 32.0 33.9

         35.4 33.7 31.2 29.9
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         30.0 31.3 33.6 35.8 33.5 31.5 31.1 35.8 39.3 38.5

         36.7 32.5 36.7 31.9
 15        1    2    3    4    5    6    7    8    9   10

         31.5 36.8 32.9 32.9 33.0 32.6 32.0 31.1 30.3 34.5

 16        1    2    3    4    5    6    7    8    9   10

         34.5 30.2 31.1 31.8 32.5 32.8 32.7 32.6 36.6 31.5

 17        1    2    3    4    5    6    7
         27.3 27.2 30.3 33.5 34.1 33.6 28.7
 18        1    2    3    4    5    6    7
         28.4 33.5 34.0 33.2 30.1 27.7 27.3
1

RECEIVER    LEQ(H)   L10
13           56.3   59.2

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         23.7 26.3 27.0 28.2 29.8 32.7
  2        1    2    3    4    5    6
         37.4 38.9 47.1 41.5 40.6 37.5
  3        1
         35.1
  4        1    2    3
         32.9 32.5 27.2
  5        1    2    3    4    5    6
         23.3 19.9 19.6 23.9 25.7 22.4
  6        1    2    3
         19.3 18.6 22.4
  7        1    2    3    4
         22.4 18.4 19.3 20.9
  8        1    2    3    4    5    6
         25.8 24.0 19.7 20.0 23.4 26.1
  9        1    2    3
         32.5 33.0 34.8
 10        1
         37.5
 11        1    2    3    4    5    6
         40.5 41.6 47.6 38.5 36.3 34.7
 12        1    2    3    4    5
         30.7 28.5 26.5 25.0 23.4
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         33.0 37.4 32.1 38.5 39.4 40.0 36.9 32.5 33.1 33.5

         33.2 33.0 32.0 31.3
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         31.3 32.1 33.0 33.6 33.1 32.6 32.2 36.6 40.6 39.6

         37.8 33.7 37.8 33.1
 15        1    2    3    4    5    6    7    8    9   10

         32.9 38.6 35.2 35.2 35.4 34.4 33.4 32.3 31.3 35.4

 16        1    2    3    4    5    6    7    8    9   10

         35.5 31.2 32.3 33.2 34.3 35.2 35.0 35.0 38.4 32.9

 17        1    2    3    4    5    6    7
         29.3 29.7 33.3 35.9 35.8 35.0 30.1
 18        1    2    3    4    5    6    7
         29.8 34.9 35.8 35.6 32.9 29.8 29.8
1

RECEIVER    LEQ(H)   L10
14           55.2   57.7

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         24.5 27.0 29.6 32.2 33.6 35.1
  2        1    2    3    4    5    6
```

```
          38.2 39.7 37.1 37.3 33.1 30.0
  3         1
          27.6
  4         1    2    3
          25.2 24.8 19.6
  5         1    2    3    4    5    6
          15.8 12.5 12.2 16.5 18.3 15.0
  6         1    2    3
          11.7 10.8 14.5
  7         1    2    3    4
          14.5 10.6 11.6 13.5
  8         1    2    3    4    5    6
          18.3 16.6 12.3 12.6 15.9 18.5
  9         1    2    3
          24.8 25.3 27.2
 10         1
          30.0
 11         1    2    3    4    5    6
          33.3 37.2 36.9 40.9 37.3 36.9
 12         1    2    3    4    5
          32.0 31.7 27.5 25.9 24.2
 13         1    2    3    4    5    6    7    8    9   10

 11        12   13   14
          32.4 37.0 31.8 38.5 39.7 40.6 36.3 33.4 33.9 35.4

          37.4 38.1 37.4 34.5
 14         1    2    3    4    5    6    7    8    9   10

 11        12   13   14
          34.5 37.4 38.1 37.8 35.0 33.5 33.1 35.7 41.1 39.9

          37.8 33.5 37.4 32.5
 15         1    2    3    4    5    6    7    8    9   10

          32.9 37.5 32.5 32.5 32.1 31.3 30.5 29.6 28.7 33.1

 16         1    2    3    4    5    6    7    8    9   10

          33.1 28.6 29.6 30.3 31.2 31.9 32.3 32.2 37.3 32.8

 17         1    2    3    4    5    6    7
          40.7 39.9 34.9 37.4 36.9 35.6 30.2
 18         1    2    3    4    5    6    7
          30.0 35.6 36.9 37.1 34.6 39.2 40.9
1

 RECEIVER    LEQ(H)   L10
 15           56.4   58.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
          25.1 27.1 28.9 32.2 33.3 35.2
   2         1    2    3    4    5    6
          36.2 36.4 33.4 36.5 37.1 34.8
   3         1
          32.6
   4         1    2    3
          30.3 30.0 24.8
   5         1    2    3    4    5    6
          21.1 17.7 17.4 21.7 23.7 20.5
   6         1    2    3
          17.3 16.5 20.3
   7         1    2    3    4
          20.3 16.3 17.2 19.0
   8         1    2    3    4    5    6
          23.7 21.9 17.5 17.8 21.1 23.7
   9         1    2    3
          30.0 30.4 32.2
  10         1
          34.7
  11         1    2    3    4    5    6
          37.2 36.2 32.6 36.8 35.1 37.3
  12         1    2    3    4    5
          32.6 30.3 28.2 26.4 23.7
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          34.4 39.1 34.0 40.7 42.0 42.5 37.5 34.5 35.0 35.9

          36.9 36.8 35.4 34.3
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          34.3 35.4 36.8 37.2 35.5 34.6 34.2 37.0 43.1 42.2

          40.0 35.6 39.5 34.5
  15         1    2    3    4    5    6    7    8    9   10

          35.5 39.4 33.9 33.2 32.2 30.9 29.8 28.7 27.8 32.1

  16         1    2    3    4    5    6    7    8    9   10

          32.1 27.7 28.7 29.7 30.8 32.0 33.1 33.6 39.2 35.4

  17         1    2    3    4    5    6    7
          34.8 35.9 43.0 42.6 40.7 38.8 33.1
  18         1    2    3    4    5    6    7
          32.8 38.7 40.7 42.4 42.1 36.3 35.0
1

 RECEIVER    LEQ(H)   L10
 16           62.0   65.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
          26.9 29.1 31.4 33.1 35.9 40.4
   2         1    2    3    4    5    6
          38.1 34.4 32.7 34.5 33.7 31.9
   3         1
          30.9
   4         1    2    3
          29.4 29.2 24.1
   5         1    2    3    4    5    6
          20.3 17.0 16.7 21.1 23.0 19.8
   6         1    2    3
          15.9 15.0 19.7
   7         1    2    3    4
          20.1 14.9 16.5 18.4
   8         1    2    3    4    5    6
          23.0 21.2 16.8 17.1 20.4 23.0
   9         1    2    3
          29.2 29.4 31.0
  10         1
          32.1
  11         1    2    3    4    5    6
          34.0 34.0 31.3 34.4 36.9 42.7

  12         1    2    3    4    5
          35.4 31.8 30.7 28.8 25.2
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          31.3 36.0 31.0 38.0 39.5 40.3 37.3 36.6 37.0 37.6

          38.4 38.1 37.0 36.1
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          36.3 37.0 38.1 38.7 37.2 36.7 36.5 36.9 40.8 39.7

          37.4 32.7 36.5 31.4
  15         1    2    3    4    5    6    7    8    9   10

          33.5 39.9 36.0 35.1 34.1 31.9 28.9 28.0 27.8 34.4

  16         1    2    3    4    5    6    7    8    9   10

          34.4 29.0 28.0 28.8 32.7 34.0 35.0 35.8 40.8 33.4

  17         1    2    3    4    5    6    7
          44.8 54.5 55.5 44.3 40.8 38.5 32.4
  18         1    2    3    4    5    6    7
          32.2 38.5 40.7 41.6 54.3 53.8 43.6
1

 RECEIVER    LEQ(H)   L10
 17           60.6   64.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
          24.8 29.9 30.1 30.7 33.1 36.6
   2         1    2    3    4    5    6
          34.7 32.0 30.2 33.5 36.6 38.0
   3         1
          36.0
   4         1    2    3
          33.9 33.6 28.6
   5         1    2    3    4    5    6
          24.9 21.6 21.3 25.7 27.6 24.5
   6         1    2    3
          21.1 20.3 24.1
   7         1    2    3    4
          24.1 20.1 21.0 22.9
   8         1    2    3    4    5    6
          27.6 25.8 21.4 21.6 24.9 27.5
   9         1    2    3
          33.6 33.9 35.5
  10         1
          37.9
  11         1    2    3    4    5    6
          38.2 33.2 28.4 31.8 33.4 38.7
  12         1    2    3    4    5
          32.9 29.8 29.0 28.4 24.3
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          36.9 41.3 36.2 42.7 43.8 42.8 39.5 37.1 37.3 37.0

          36.8 36.2 34.9 33.9
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          33.9 35.0 36.2 37.3 36.5 37.0 37.0 39.4 43.7 44.1

          42.1 37.9 41.8 37.1
  15         1    2    3    4    5    6    7    8    9   10

          39.5 44.0 37.1 36.0 34.8 33.6 32.5 31.3 30.4 34.8

  16         1    2    3    4    5    6    7    8    9   10

          34.8 30.4 31.4 32.3 33.5 34.7 35.9 36.9 43.7 39.3

  17         1    2    3    4    5    6    7
          39.2 43.5 50.9 52.7 47.0 43.2 36.9
  18         1    2    3    4    5    6    7
          36.6 43.0 47.0 51.4 48.0 42.2 38.1
1

 RECEIVER    LEQ(H)   L10
 18           62.5   65.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
          23.3 25.9 26.7 26.9 27.1 27.5
   2         1    2    3    4    5    6
          29.5 29.9 28.0 32.1 34.7 34.9
   3         1
          35.1
   4         1    2    3
          33.1 33.0 28.0
   5         1    2    3    4    5    6
          24.3 21.0 20.8 25.1 27.1 24.0
   6         1    2    3
          20.7 19.8 23.7
   7         1    2    3    4
          23.7 19.6 20.6 22.5
   8         1    2    3    4    5    6
          27.1 25.2 20.9 21.1 24.4 26.9
   9         1    2    3
          33.0 33.1 34.7
  10         1
          35.1
  11         1    2    3    4    5    6
          35.4 31.6 26.6 29.6 29.6 31.0
  12         1    2    3    4    5
          27.9 27.9 28.0 26.4 23.7
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          39.9 45.0 40.1 47.4 49.7 51.7 45.8 39.2 37.0 34.3

          32.3 31.1 29.3 27.7
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          27.7 29.3 31.1 32.8 34.2 37.2 39.3 45.6 52.2 49.9

          46.7 41.9 45.4 40.0
  15         1    2    3    4    5    6    7    8    9   10

          43.4 44.7 36.7 35.5 34.2 33.0 31.9 30.9 30.0 34.5

  16         1    2    3    4    5    6    7    8    9   10
```

```
          34.6 30.0 30.9 31.8 32.9 34.1 35.4 36.6 44.5 43.1

   17       1    2    3    4    5    6    7
          27.8 32.4 35.1 50.5 52.1 48.5 41.0
   18       1    2    3    4    5    6    7
          40.9 48.8 52.8 50.8 32.8 32.6 27.7
1

 RECEIVER    LEQ(H)   L10
 19           62.0   64.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
          26.3 28.5 30.2 29.5 30.0 30.1
    2       1    2    3    4    5    6
          30.4 28.9 27.5 31.1 33.9 33.3
    3       1
          33.0
    4       1    2    3
          31.8 32.5 27.6
    5       1    2    3    4    5    6
          24.0 20.7 20.4 24.8 26.8 23.7
    6       1    2    3
          20.4 19.5 23.4
    7       1    2    3    4
          23.4 19.3 20.3 22.2
    8       1    2    3    4    5    6
          26.8 24.9 20.5 20.7 24.0 26.5
    9       1    2    3
          32.6 32.2 32.8
   10       1
          33.8
   11       1    2    3    4    5    6
          34.4 30.8 25.8 28.7 31.0 31.5
   12       1    2    3    4    5
          29.0 29.1 29.9 29.5 26.2
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          40.3 45.5 40.8 48.2 50.8 53.3 46.9 41.5 40.1 37.6

          35.5 34.1 32.2 30.6
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          30.7 32.2 34.0 35.9 37.5 40.1 41.5 46.9 51.2 51.0

          47.5 42.5 46.0 40.4
   15       1    2    3    4    5    6    7    8    9   10

          44.3 44.6 36.1 34.8 33.6 32.4 31.4 30.4 29.6 34.2

   16       1    2    3    4    5    6    7    8    9   10

          34.3 29.6 30.5 31.3 32.4 33.5 34.8 36.0 44.4 43.9

   17       1    2    3    4    5    6    7
          29.3 32.1 31.6 43.4 49.3 48.3 41.4
   18       1    2    3    4    5    6    7
          41.3 48.6 49.8 43.1 29.2 30.2 28.8
1

 RECEIVER    LEQ(H)   L10
 20           69.5   71.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
          40.2 29.7 31.1 30.2 27.9 28.2
    2       1    2    3    4    5    6
          29.4 27.0 25.8 29.3 29.5 28.2
    3       1
          26.9
    4       1    2    3
          25.4 26.6 23.4
    5       1    2    3    4    5    6
          19.7 16.4 16.2 20.6 21.8 17.7
    6       1    2    3
          14.5 13.7 18.1
    7       1    2    3    4
          18.5 13.5 14.4 16.2
    8       1    2    3    4    5    6
          22.3 20.7 16.3 16.5 19.8 22.2
    9       1    2    3
          27.2 25.8 26.5
   10       1
          28.1
   11       1    2    3    4    5    6
          29.7 29.0 24.3 26.3 29.1 29.2
   12       1    2    3    4    5
          26.9 29.9 31.3 29.7 39.8
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          41.2 46.5 41.9 49.7 53.1 57.9 61.6 59.6 55.5 51.8

          49.2 43.1 38.2 36.8
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          36.9 38.0 42.1 49.6 51.7 55.7 60.5 62.6 58.9 53.2

          49.0 43.7 46.9 41.2
   15       1    2    3    4    5    6    7    8    9   10

          44.1 40.3 32.5 31.5 30.7 29.9 29.5 29.0 28.6 33.4

   16       1    2    3    4    5    6    7    8    9   10

          33.4 28.5 29.3 29.4 29.9 30.7 31.5 32.4 40.2 43.8

   17       1    2    3    4    5    6    7
          26.3 27.5 26.2 32.8 38.7 40.3 36.6
   18       1    2    3    4    5    6    7
          36.5 40.6 39.0 32.2 23.7 25.7 25.2
1

 RECEIVER    LEQ(H)   L10
 21           69.3   71.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
          38.4 32.8 31.9 28.9 26.8 25.5
    2       1    2    3    4    5    6
          25.7 24.5 22.8 24.4 22.6 20.9
    3       1
          19.4
    4       1    2    3
          17.6 17.7 12.9
    5       1    2    3    4    5    6
           9.3  6.1  5.8 10.2 12.2  9.2
    6       1    2    3
           5.9  5.1  9.0
    7       1    2    3    4
           9.0  4.9  5.8  7.7
    8       1    2    3    4    5    6
          12.2 10.3  5.9  6.1  9.4 11.8
    9       1    2    3
          17.8 17.7 19.0
   10       1
          20.8
   11       1    2    3    4    5    6
          22.7 24.4 23.4 24.5 25.9 27.7
   12       1    2    3    4    5
          27.3 29.6 31.8 32.7 39.6
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          40.1 45.3 40.7 48.2 51.1 54.9 59.2 61.4 58.6 54.3

          48.7 44.5 39.6 36.5
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          36.3 39.1 43.9 48.3 54.3 59.1 62.6 59.8 55.6 51.1

          47.4 42.4 45.7 40.2
   15       1    2    3    4    5    6    7    8    9   10

          40.5 30.6 21.0 20.0 18.9 18.0 17.2 16.5 16.0 21.1

   16       1    2    3    4    5    6    7    8    9   10

          21.2 16.0 16.6 17.1 17.9 18.9 20.0 21.0 30.5 40.4

   17       1    2    3    4    5    6    7
          24.0 26.2 25.5 26.1 28.6 30.4 26.9
   18       1    2    3    4    5    6    7
          27.0 30.6 28.9 25.6 23.0 25.0 23.0
1

 RECEIVER    LEQ(H)   L10
 22           69.4   71.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
          46.1 36.6 34.0 31.0 28.7 27.2
    2       1    2    3    4    5    6
          27.3 26.1 24.3 25.9 24.1 22.4
    3       1
          20.8
    4       1    2    3
          19.1 19.1 14.4
    5       1    2    3    4    5    6
          10.8  7.6  7.3 11.7 13.7 10.7
    6       1    2    3
           7.5  6.7 10.5
    7       1    2    3    4
          10.5  6.5  7.4  9.1
    8       1    2    3    4    5    6
          13.7 11.8  7.3  7.5 10.8 13.3
    9       1    2    3
          19.2 19.2 20.4
   10       1
          22.3
   11       1    2    3    4    5    6
          24.1 26.0 25.1 27.0 27.4 29.4
   12       1    2    3    4    5
          29.2 32.0 34.3 37.2 45.3
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          39.4 44.5 39.7 47.1 49.7 52.9 56.6 60.5 61.0 56.7

          53.0 47.3 41.6 38.3
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          38.1 41.0 46.6 53.6 57.0 61.9 61.6 56.8 53.5 49.3

          46.1 41.4 44.9 39.4
   15       1    2    3    4    5    6    7    8    9   10

          36.2 30.7 21.8 20.8 19.9 19.0 18.3 17.5 17.0 22.1

   16       1    2    3    4    5    6    7    8    9   10

          22.1 17.0 17.6 18.1 19.0 19.8 20.8 21.7 30.6 36.2

   17       1    2    3    4    5    6    7
          24.2 26.6 24.7 26.4 29.1 30.5 27.0
   18       1    2    3    4    5    6    7
          26.8 30.8 29.4 25.5 22.5 25.1 23.1
```

```
                    *************************
                           OPTIMA-VU1
                    *************************
               BARRIER OPTIMIZATION PROGRAM USING
             PARTIAL SOUND ENERGIES COMPUTED BY THE
                      STAMINA 2.0 PROGRAM
         MODIFIED FROM THE FHWA VAX VERSON -- MARCH 1983

      MODIFIED TO:
         1.   PLACE BARRIER COST DATA IN A DATA FILE CALLED
              OPTCOST.DTA TO ALLOW USER TO USE COSTS OTHER THAN
              THE FHWA NATIONAL AVERAGES.
                    *************************
        MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
                         IN JUNE 1991 BY
        VANDERBILT ENGINEERING CENTER FOR TRANSPORTATION
                 OPERATIONS AND RESEARCH (VECTOR)
      BOX 96-B, VANDERBILT UNIVERSITY, NASHVILLE, TENNESSEE 37235
                         (615) 322-3683
                    ************************

     PROBLEM TITLE
     *************
 Meadowood - Casitas 2nd Floor (Receivers 1-22)No 15

             EFFECTIVENESS/COST RATIO AND BARRIER HEIGHT MATRICES
             ****************************************************
BARRIER SECTION       EFFECTIVENESS/COST                 CORRESPONDING
  NO  IDENT                 RATIO                          BARRIER HEIGHTS(IN
FT)

 HEIGHT INDEX  1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8
    1   29         *  22.  22.  23.  22.  19.  17.  16.   0. 7. 8.
9.10.11.12.13.
    2   1          *  26.  24.  22.  20.  18.  18.  18.   0. 7. 8.
9.10.11.12.13.
    3   2          *  32.  35.  36.  34.  31.  29.  29.   0. 7. 8.
9.10.11.12.13.
    4   3          *  19.  23.  25.  24.  20.  17.  15.   0. 7. 8.
9.10.11.12.13.
    5   4          *  17.  15.  13.  11.   9.   9.   9.   0. 7. 8.
9.10.11.12.13.
    6   5          *  25.  31.  34.  33.  29.  26.  25.   0. 7. 8.
9.10.11.12.13.
    7   7a         *  31.  30.  28.  25.  23.  22.  22.   0. 7. 8.
9.10.11.12.13.
    8   7b         *  32.  36.  36.  34.  30.  29.  29.   0. 7. 8.
9.10.11.12.13.
    9   8          *  25.  28.  33.  35.  31.  27.  27.   0. 7. 8.
9.10.11.12.13.
   10   9          *  25.  26.  32.  36.  30.  28.  28.   0. 7. 8.
9.10.11.12.13.
   11   10         *  24.  29.  30.  29.  25.  22.  21.   0. 7. 8.
9.10.11.12.13.
   12   11a        *  21.  28.  28.  26.  21.  18.  17.   0. 7. 8.
9.10.11.12.13.
   13   11b        *  23.  31.  35.  35.  31.  28.  28.   0. 7. 8.
9.10.11.12.13.
   14   12         *  21.  29.  39.  40.  36.  32.  30.   0. 7. 8.
9.10.11.12.13.
   15   13         *  18.  19.  19.  17.  14.  11.   9.   0. 7. 8.
9.10.11.12.13.
   16   14         *  20.  20.  20.  18.  15.  13.  11.   0. 7. 8.
9.10.11.12.13.
   17   15         *  22.  20.  18.  16.  13.  12.  11.   0. 7. 8.
9.10.11.12.13.
   18   16         *  25.  28.  31.  29.  23.  22.  23.   0. 7. 8.
9.10.11.12.13.
   19   17         *   1.   6.  10.   6.   3.   1.   0.   0. 7. 8.
9.10.11.12.13.
   20   18         *  17.  14.  13.  11.   8.   7.   6.   0. 7. 8.
9.10.11.12.13.
   21   20         *  26.  24.  23.  21.  19.  19.  19.   0. 7. 8.
9.10.11.12.13.
   22   21         *  32.  33.  32.  30.  27.  27.  26.   0. 7. 8.
9.10.11.12.13.
   23   22         *  33.  32.  30.  28.  26.  25.  24.   0. 7. 8.
9.10.11.12.13.
   24   23         *  28.  30.  29.  27.  24.  22.  22.   0. 7. 8.
9.10.11.12.13.
   25   24         *  16.  20.  21.  20.  16.  13.  11.   0. 7. 8.
9.10.11.12.13.
   26   25         *  21.  23.  25.  25.  21.  17.  16.   0. 7. 8.
9.10.11.12.13.
   27   26         *  12.  10.  11.  10.  10.  10.  10.   0. 7. 8.
9.10.11.12.13.
   28   27         *  17.  21.  22.  21.  16.  13.  12.   0. 7. 8.
9.10.11.12.13.
   29   28         *  12.  15.  20.  20.  16.  13.  11.   0. 7. 8.
9.10.11.12.13.
   30   1       *   0.                                0.20.
   31   2       *   0.                                0.20.
   32   3       *   0.                                0.20.
   33   4       *   0.                                0.20.
   34   1       *   0.                                0.20.
   35   2       *   0.                                0.20.
   36   3       *   0.                                0.20.
   37   4       *   0.                                0.20.
   38   1       *   0.                                0.20.
   39   2       *   0.                                0.20.
   40   3       *   0.                                0.20.
   41   4       *   0.                                0.20.
   42   5       *   0.                                0.20.
   43   6       *   0.                                0.20.
   44   1       *   0.                                0.20.
   45   2       *   0.                                0.20.
   46   3       *   0.                                0.20.
   47   4       *   0.                                0.20.
   48   1       *   0.                                0.20.
   49   2       *   0.                                0.20.
   50   3       *   0.                                0.20.
   51   4       *   0.                                0.20.
   52   5       *   0.                                0.20.
   53   6       *   0.                                0.20.
   54   1       *   0.                                0.20.
   55   2       *   0.                                0.20.
   56   3       *   0.                                0.20.
   57   4       *   0.                                0.20.
   58   5       *   0.                                0.20.
   59   6       *   0.                                0.20.
   60   7       *   0.                                0.20.
   61   8       *   0.                                0.20.
   62   9       *   0.                                0.20.
   63   10      *   0.                                0.20.
   64   11      *   0.                                0.20.
   65   12      *   0.                                0.20.
   66   13      *   0.                                0.20.
   67   1       *   0.                                0.20.
   68   2       *   0.                                0.20.
   69   3       *   0.                                0.20.
   70   4       *   0.                                0.20.
   71   5       *   0.                                0.20.
   72   1       *   0.                                0.20.
   73   2       *   0.                                0.20.
   74   3       *   0.                                0.20.
   75   4       *   0.                                0.20.
   76   5       *   0.                                0.20.
   77   6       *   0.                                0.20.
   78   1       *   0.                                0.20.
   79   2       *   0.                                0.20.
   80   3       *   0.                                0.20.
   81   4       *   0.                                0.20.
   82   1       *   0.                                0.20.
   83   2       *   0.                                0.20.
   84   1       *   0.                                0.20.
   85   2       *   0.                                0.20.
   86   3       *   0.                                0.20.
   87   4       *   0.                                0.20.
   88   3       *   0.                                0.20.
   89   4       *   0.                                0.20.
   90   1       *   0.                                0.20.
   91   2       *   0.                                0.20.
   92   3       *   0.                                0.20.
   93   4       *   0.                                0.20.
   94   5       *   0.                                0.20.
   95   1       *   0.                                0.20.
   96   2       *   0.                                0.20.
   97   3       *   0.                                0.20.
   98   4       *   0.                                0.20.
   99   5       *   0.                                0.20.
  100   1       *   0.                                0.20.
  101   2       *   0.                                0.20.
  102   3       *   0.                                0.20.
  103   4       *   0.                                0.20.
  104   5       *   0.                                0.20.
  105   6       *   0.                                0.20.
  106   1       *   0.                                0.20.
  107   2       *   0.                                0.20.
  108   3       *   0.                                0.20.
  109   4       *   0.                                0.20.
  110   1       *   0.                                0.20.
  111   2       *   0.                                0.20.
  112   3       *   0.                                0.20.
  113   4       *   0.                                0.20.
  114   5       *   0.                                0.20.
  115   6       *   0.                                0.20.
  116   7       *   0.                                0.20.
  117   8       *   0.                                0.20.
  118   9       *   0.                                0.20.

HEIGHT INDEX  1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8

Meadowood - Casitas 2nd Floor (Receivers 1-22)No 15


BARRIER HEIGHT INDEX FOR EACH BARRIER SECTION
  4  4  4  4  4  5  5  5  5  5  4  4  4  4  2  2  2  2  2  2  3  3  3  2  2
  2  2  3  4  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2
  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2
  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2
  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2
CORRESPONDING BARRIER HEIGHTS FOR EACH SECTION
 9. 9. 9. 9. 9.10.10.10.10.10. 9. 9. 9. 9. 7. 7. 7. 7. 7. 7. 8. 8. 8. 7. 7.
 7. 7. 8. 9.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.
20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.
20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.
20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.

    R E S U L T S
    *************

REC     REC ID          LEQ      LEQ(Z(0))       IL
  1     1               69.8      70.1           .3
  2     2               65.0      68.7          3.7
  3     3               67.2      68.1           .9
  4     4               64.9      67.4          2.5
  5     5               63.3      67.2          3.9
  6     6               67.3      68.5          1.2
  7     7               63.8      68.5          4.7
  8     8               66.5      68.3          1.8
  9     9               66.3      68.4          2.1
 10     10              67.7      68.4           .8
 11     11              67.7      68.5           .8
 12     12              56.3      63.5          7.2
 13     13              57.1      62.4          5.3
 14     14              56.1      62.5          6.4
 15     15              59.0      62.5          3.5
 16     16              64.2      67.8          3.6
 17     17              62.9      67.4          4.6
 18     18              62.7      64.8          2.1
 19     19              62.5      64.7          2.2
 20     20              69.5      69.7           .1
 21     21              69.3      69.7           .3
 22     22              69.4      69.8           .3

BARRIER TYPE          COST                   AREA (SQ. FT.)
FH-BERM                   0.                     0.
FH-MASON            1356300.                246248.
FH-WOOD                   0.                     0.
FH-CONC                   0.                     0.
FH-STEEL                  0.                     0.
*****************************************************************
 TOTALS:         $  1356300.                246248.

END OF ALL CASES
```

****
STAM2VU1
Version 1.20
****
STAMINA 2.0/BCR
MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
TRAFFIC NOISE PREDICTION MODEL

MODIFIED TO:
1. ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
2. CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
3. PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.

****
MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
AND BOWLBY & ASSOCIATES, INC.
2014 BROADWAY, SUITE 210
NASHVILLE, TN 37203-2425
TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE *.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.

(INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH)

Meadowood - School 1st Floor (Receivers 23-26)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

HEIGHT	CODE	DESCRIPTION
.00	1	RECEIVER HEIGHT ADJUSTMENT
1.00	2	A-WEIGHTED SOUND LEVEL ONLY
.00	3	HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
.00	4	HEIGHT ADJUSTMENT FOR HEAVY TRUCKS (HT)
.00	5	HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS (MT)
.000	6	HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4) CARS--CALVENO C0 = 5.20 C1 = 38.80 S0 = .00
2.300	7	HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5) MT--CALVENO C0 = 35.30 C1 = 25.60 S0 = .00
8.000	8	HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6) HT--CALVEN0 C0 = 50.40 C1 = 19.20 S0 = .00

0ROADWAY 1 HRC nb (76 to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6287767.4	2067284.0	276.0	0
2	6287704.7	2067456.2	276.0	0
3	6287629.7	2067702.5	279.0	0
4	6287568.8	2067936.5	284.0	0
5	6287512.3	2068148.3	284.0	0
6	6287446.9	2068359.4	282.0	0
7	6287374.5	2068606.6	279.0	0

0ROADWAY 2 HRC nb (Pankey to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
7	6287374.5	2068606.6	279.0	0
8	6287273.9	2068832.6	278.0	0
9	6287137.9	2069057.7	278.0	0
10	6287017.0	2069263.4	280.0	0
11	6286760.9	2069688.9	285.0	0
12	6286533.2	2070137.4	290.0	0
13	6286310.7	2070587.7	296.0	0

0ROADWAY 3 HRC nb (School to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
13	6286310.7	2070587.7	296.0	0
14	6286086.4	2071030.0	302.0	0

0ROADWAY 4 HRC nb (26 to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286086.4	2071030.0	302.0	0
15	6285859.5	2071475.8	308.0	0
16	6285540.8	2072106.2	311.0	0
17	6285403.1	2072385.2	310.0	0

0ROADWAY 5 HRC nb (Harvest Glen to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
17	6285403.1	2072385.2	310.0	0
18	6285328.1	2072574.1	310.0	0
19	6285298.0	2072673.9	310.0	0
20	6285270.7	2072773.6	311.0	0
21	6285221.2	2073078.2	314.0	0
22	6285201.8	2073673.3	322.0	0
23	6285188.6	2074037.0	338.0	0

0ROADWAY 6 HRC nb (Longspur to Baltimore)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
23	6285188.6	2074037.0	338.0	0
24	6285145.3	2074308.9	346.0	0
25	6285056.1	2074546.4	351.0	0
26	6284650.0	2075149.4	356.0	0

0ROADWAY 7 HRC sb (Baltimore to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6284621.8	2075132.6	356.0	0
2	6285015.5	2074527.9	351.0	0
3	6285099.4	2074300.1	346.0	0
4	6285141.8	2074033.5	338.0	0
5	6285159.4	2073671.5	322.0	0

0ROADWAY 8 HRC sb (Longspur to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
5	6285159.4	2073671.5	322.0	0
6	6285181.5	2073072.9	314.0	0
7	6285228.3	2072759.5	311.0	0
8	6285256.5	2072658.0	310.0	0
9	6285287.4	2072557.3	310.0	0
10	6285368.7	2072369.3	310.0	0
11	6285504.6	2072087.7	311.0	0

0ROADWAY 9 HRC sb (Harvest Glen to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
11	6285504.6	2072087.7	311.0	0
12	6285818.9	2071457.3	308.0	0
13	6286045.8	2071007.9	302.0	0
14	6286269.2	2070567.4	296.0	0

0ROADWAY 10 HRC sb (26 to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	14.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286269.2	2070567.4	296.0	0
15	6286493.4	2070122.4	290.0	0

0ROADWAY 11 HRC sb (School to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
15	6286493.4	2070122.4	290.0	0
16	6286720.3	2069667.7	285.0	0
17	6286977.2	2069239.6	280.0	0
18	6287102.6	2069033.0	278.0	0
19	6287238.6	2068813.1	278.0	0

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 20                   6287334.8   2068585.4       279.0       0
 21                   6287408.1   2068344.3       282.0       0

0ROADWAY  12      HRC sb (Pankey to 76)

                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                         CARS                0.        30.0
                         HT                  0.        30.0
                         MT                  0.        30.0
                         VEH4              415.        40.0
                         VEH5               13.        40.0
                         VEH6                9.        40.0
0                     ------------COORDINATES-------------
                           X           Y             Z      GRADE
 21                   6287408.1   2068344.3       282.0       0
 22                   6287465.5   2068135.1       284.0       0
 23                   6287525.5   2067923.2       284.0       0
 24                   6287585.5   2067689.3       279.0       0
 25                   6287658.8   2067442.1       276.0       0
 26                   6287712.7   2067264.6       276.0       0

0ROADWAY  13      SR-76 eastbound

                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                         CARS                0.        30.0
                         HT                  0.        30.0
                         MT                  0.        30.0
                         VEH4              877.        55.0
                         VEH5               48.        55.0
                         VEH6              102.        55.0
0                     ------------COORDINATES-------------
                           X           Y             Z      GRADE
 1                    6285343.2   2066573.4       260.0       0
 2                    6285453.8   2066619.2       260.0       0
 3                    6285731.0   2066734.9       260.0       0
 4                    6285804.7   2066766.7       260.0       0
 5                    6286102.2   2066891.3       264.0       0
 6                    6286411.1   2067020.9       269.0       0
 7                    6286732.8   2067107.4       274.0       0
 8                    6287029.0   2067131.5       275.0       0
 9                    6287307.4   2067153.2       276.0       0
 10                   6287604.9   2067197.7       277.0       0
 11                   6287877.0   2067284.1       278.0       0
 12                   6288121.1   2067404.9       278.5       0
 13                   6288353.7   2067568.9       279.0       0
 14                   6288530.5   2067735.4       280.0       0
 15                   6288663.9   2067896.9       280.0       0

0ROADWAY  14      SR-76 westbound

                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                         CARS                0.        30.0
                         HT                  0.        30.0
                         MT                  0.        30.0
                         VEH4              877.        55.0
                         VEH5               48.        55.0
                         VEH6              102.        55.0
0                     ------------COORDINATES-------------
                           X           Y             Z      GRADE
 1                    6288633.4   2067914.7       280.0       0
 2                    6288502.5   2067755.8       280.0       0
 3                    6288330.9   2067594.3       279.0       0
 4                    6288107.1   2067437.9       278.5       0
 5                    6287847.7   2067310.8       278.0       0
 6                    6287596.0   2067232.0       277.0       0
 7                    6287306.2   2067190.0       276.0       0
 8                    6287023.9   2067168.4       275.0       0
 9                    6286746.8   2067144.3       274.0       0
 10                   6286395.9   2067052.7       269.0       0
 11                   6286083.1   2066921.8       264.0       0
 12                   6285841.6   2066821.3       260.0       0
 13                   6285738.6   2066778.1       260.0       0
 14                   6285441.1   2066653.5       260.0       0
 15                   6285330.5   2066606.5       260.0       0

0ROADWAY  15      Pala Mesa northbound

                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                         CARS                0.        30.0
                         HT                  0.        30.0
                         MT                  0.        30.0
                         VEH4              229.        45.0
                         VEH5                7.        45.0
                         VEH6                5.        45.0
0                     ------------COORDINATES-------------
                           X           Y             Z      GRADE
 1                    6286331.5   2067087.9       276.0       0
 2                    6286125.7   2067571.3       268.0       0
 3                    6285838.3   2068252.8       284.0       0
 4                    6285745.1   2068433.4       288.0       0
 5                    6285618.9   2068594.6       292.0       0
 6                    6285471.4   2068740.2       296.0       0
 7                    6285300.5   2068854.7       300.0       0
 8                    6285108.3   2068936.3       304.0       0
 9                    6284908.3   2068984.8       308.0       0
 10                   6284702.5   2069002.3       312.0       0
 11                   6283840.4   2069023.6       318.0       0

0ROADWAY  16      Pala Mesa southbound

                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                         CARS                0.        30.0
                         HT                  0.        30.0
                         MT                  0.        30.0
                         VEH4              229.        45.0
                         VEH5                7.        45.0
                         VEH6                5.        45.0
0                     ------------COORDINATES-------------
                           X           Y             Z      GRADE
 1                    6283838.5   2069002.3       318.0       0
 2                    6284702.5   2068980.9       312.0       0
 3                    6284904.4   2068965.4       308.0       0
 4                    6285104.4   2068916.9       304.0       0
 5                    6285288.9   2068835.3       300.0       0
 6                    6285457.8   2068722.7       296.0       0
 7                    6285605.3   2068582.9       292.0       0
 8                    6285727.7   2068419.8       288.0       0
 9                    6285817.0   2068241.2       284.0       0
 10                   6286098.5   2067559.7       268.0       0
 11                   6286300.4   2067072.4       276.0       0

0ROADWAY  17      Pankey westbound

                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                         CARS                0.        30.0
                         HT                  0.        30.0
                         MT                  0.        30.0
                         VEH4              314.        45.0
                         VEH5               10.        45.0
                         VEH6                7.        45.0
0                     ------------COORDINATES-------------
                           X           Y             Z      GRADE
 1                    6287324.0   2068517.0       280.0       0
 2                    6287161.1   2068460.3       276.0       0
 3                    6286985.2   2068362.3       272.0       0
 4                    6286825.8   2068239.5       270.0       0
 5                    6286684.1   2068102.5       272.0       0
 6                    6286501.1   2067920.7       270.0       0
 7                    6286255.5   2067692.9       268.0       0
 8                    6286131.6   2067622.0       268.0       0

0ROADWAY  18      Pankey eastbound

                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                         CARS                0.        30.0
                         HT                  0.        30.0
                         MT                  0.        30.0
                         VEH4              314.        45.0
                         VEH5               10.        45.0
                         VEH6                7.        45.0
0                     ------------COORDINATES-------------
                           X           Y             Z      GRADE
 1                    6286146.9   2067609.0       268.0       0
 2                    6286265.0   2067676.3       268.0       0
 3                    6286514.1   2067905.4       270.0       0
 4                    6286698.3   2068089.6       272.0       0
 5                    6286839.9   2068224.2       270.0       0
 6                    6286993.4   2068348.1       272.0       0
 7                    6287172.9   2068437.9       276.0       0
 8                    6287331.1   2068498.1       280.0       0
1

 BARRIER    1   TYPE(A)      School Pad Edges 1

            ---------COORDINATES----------
                  X         Y          Z          Z0       DELZ          P
 1          6287131.7 2069541.1     283.0      283.0          .0          0
 2          6286944.3 2069454.4     283.0      283.0
 3          6286794.9 2069695.7     289.0      289.0
 4          6286649.9 2069981.4     295.0      295.0
 5          6286535.1 2070224.4     300.0      300.0
 6          6286656.2 2070294.3     300.0      300.0
1

 Sch Rec @ 5'


                      ------------COORDINATES-------------
                           X           Y             Z
 23                   6286963.7   2069559.7       290.0
 24                   6287084.6   2069633.1       290.0
 25                   6286778.4   2069903.1       298.0
 25b                  6286967.5   2069991.2       298.0
 25c                  6287154.9   2070081.6       298.0
 26                   6286629.3   2070142.5       303.0
 26b                  6287051.2   2070386.2       303.0
1

  ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

  1 *  .0   .0   .0   .0   .0   .0   .0
  2 *  .0   .0   .0   .0   .0   .0   .0
  3 *  .0   .0   .0   .0   .0   .0   .0
  4 *  .0   .0   .0   .0   .0   .0   .0
  5 *  .0   .0   .0   .0   .0   .0   .0
  6 *  .0   .0   .0   .0   .0   .0   .0
  7 *  .0   .0   .0   .0   .0   .0   .0
  8 *  .0   .0   .0   .0   .0   .0   .0
  9 *  .0   .0   .0   .0   .0   .0   .0
 10 *  .0   .0   .0   .0   .0   .0   .0
 11 *  .0   .0   .0   .0   .0   .0   .0
 12 *  .0   .0   .0   .0   .0   .0   .0
 13 *  .0   .0   .0   .0   .0   .0   .0
 14 *  .0   .0   .0   .0   .0   .0   .0
 15 *  .0   .0   .0   .0   .0   .0   .0
 16 *  .0   .0   .0   .0   .0   .0   .0
 17 *  .0   .0   .0   .0   .0   .0   .0
 18 *  .0   .0   .0   .0   .0   .0   .0
1

  SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

  1 *  .0   .0   .0   .0   .0   .0   .0
  2 *  .0   .0   .0   .0   .0   .0   .0
  3 *  .0   .0   .0   .0   .0   .0   .0
  4 *  .0   .0   .0   .0   .0   .0   .0
  5 *  .0   .0   .0   .0   .0   .0   .0
  6 *  .0   .0   .0   .0   .0   .0   .0
  7 *  .0   .0   .0   .0   .0   .0   .0
  8 *  .0   .0   .0   .0   .0   .0   .0
  9 *  .0   .0   .0   .0   .0   .0   .0
 10 *  .0   .0   .0   .0   .0   .0   .0
 11 *  .0   .0   .0   .0   .0   .0   .0
 12 *  .0   .0   .0   .0   .0   .0   .0
 13 *  .0   .0   .0   .0   .0   .0   .0
 14 *  .0   .0   .0   .0   .0   .0   .0
 15 *  .0   .0   .0   .0   .0   .0   .0
 16 *  .0   .0   .0   .0   .0   .0   .0
 17 *  .0   .0   .0   .0   .0   .0   .0
 18 *  .0   .0   .0   .0   .0   .0   .0
1

 RECEIVER     LEQ(H)   L10
 23             63.9   67.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY   SEGMENT

    1          1    2    3    4    5    6
             30.9 33.4 34.3 35.2 36.6 39.0
    2          1    2    3    4    5    6
             43.4 45.9 49.1 59.6 49.3 40.4
    3          1
             36.5
    4          1    2    3
             33.6 32.6 27.0
    5          1    2    3    4    5    6
             23.0 19.6 19.2 23.5 25.3 26.2
    6          1    2    3
             23.8 22.9 26.5
    7          1    2    3    4
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          26.3 22.7 23.7 23.1
   8        1    2    3    4    5    6
          25.3 23.6 19.3 19.6 23.0 25.8
   9        1    2    3
          32.6 33.6 36.3
  10        1
          40.7
  11        1    2    3    4    5    6
          49.0 57.8 48.8 45.7 43.3 41.2
  12        1    2    3    4    5
          36.5 35.2 34.3 33.4 30.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          33.7 38.1 32.8 39.5 40.8 41.7 41.6 41.4 41.7 41.4

          41.2 41.5 40.9 40.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          40.4 40.9 41.4 41.6 41.2 41.7 41.6 41.5 42.2 40.9

          38.7 34.4 38.5 33.8
  15        1    2    3    4    5    6    7    8    9   10

          33.1 37.4 32.9 33.1 33.1 32.6 32.0 31.2 30.3 34.7

  16        1    2    3    4    5    6    7    8    9   10

          34.7 30.2 31.1 31.8 32.5 32.9 33.0 32.7 37.3 33.1

  17        1    2    3    4    5    6    7
          37.6 37.9 36.3 34.6 34.8 34.6 29.9
  18        1    2    3    4    5    6    7
          29.6 34.5 34.7 34.6 36.1 37.7 37.3
1

 RECEIVER    LEQ(H)   L10
 24           60.6   63.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          30.7 33.2 34.2 35.0 36.4 38.3
   2        1    2    3    4    5    6
          42.1 44.6 47.2 53.9 47.4 39.3
   3        1
          36.4
   4        1    2    3
          33.6 36.2 32.2
   5        1    2    3    4    5    6
          28.3 24.9 24.6 28.8 30.6 27.3
   6        1    2    3
          23.9 22.9 26.6
   7        1    2    3    4
          26.6 22.7 23.7 25.8
   8        1    2    3    4    5    6
          30.6 28.9 24.6 24.9 28.3 31.0
   9        1    2    3
          33.3 33.6 35.9
  10        1
          39.8
  11        1    2    3    4    5    6
          46.9 52.8 46.6 44.2 41.9 40.3
  12        1    2    3    4    5
          36.3 35.0 34.1 33.2 30.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.0 35.7 30.4 37.4 38.9 40.3 40.9 40.8 41.3 41.3

          41.1 41.5 40.9 40.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          40.5 40.9 41.4 41.5 41.1 41.3 41.0 40.7 40.8 39.0

          36.6 32.0 36.1 31.0
  15        1    2    3    4    5    6    7    8    9   10

          30.5 33.6 29.1 29.3 29.2 28.7 28.1 27.3 26.5 31.0

  16        1    2    3    4    5    6    7    8    9   10

          31.0 26.4 27.3 27.9 28.6 29.0 29.1 28.9 33.4 30.4

  17        1    2    3    4    5    6    7
          36.8 36.3 34.4 32.9 33.0 32.5 27.5
  18        1    2    3    4    5    6    7
          27.2 32.5 33.1 32.9 34.3 36.1 36.5
1

 RECEIVER    LEQ(H)   L10
 25           62.5   66.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          28.0 30.7 32.0 32.6 33.2 34.6
   2        1    2    3    4    5    6
          37.5 39.2 41.8 51.3 58.3 45.5
   3        1
          39.9
   4        1    2    3
          36.0 34.4 28.6
   5        1    2    3    4    5    6
          24.6 21.1 20.8 24.9 26.6 23.2
   6        1    2    3
          19.8 18.9 22.5
   7        1    2    3    4
          22.5 18.7 19.7 21.7
   8        1    2    3    4    5    6
          26.6 25.0 20.8 21.2 24.6 27.4
   9        1    2    3
          34.4 36.0 39.4
  10        1
          45.9
  11        1    2    3    4    5    6
          56.4 50.2 40.9 39.1 37.5 36.8
  12        1    2    3    4    5
          33.2 32.6 31.8 30.7 27.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.1 36.4 31.0 37.4 38.3 38.8 38.4 38.1 38.5 39.0

          39.2 39.4 38.8 38.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          38.3 38.8 39.4 39.6 38.7 38.5 38.3 38.2 39.3 38.4

          36.7 32.5 36.8 32.2
  15        1    2    3    4    5    6    7    8    9   10

          30.7 35.6 31.5 32.2 32.7 32.5 32.1 31.3 30.6 35.0

  16        1    2    3    4    5    6    7    8    9   10

          35.0 30.4 31.3 31.8 32.3 32.5 32.1 31.3 35.5 30.7

  17        1    2    3    4    5    6    7
          32.7 32.4 31.5 30.8 31.6 31.8 27.5
  18        1    2    3    4    5    6    7
          27.2 31.8 31.6 30.7 31.3 32.3 32.9
1

 RECEIVER    LEQ(H)   L10
 25b          58.3   60.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          27.8 30.6 31.9 32.4 33.1 34.3
   2        1    2    3    4    5    6
          37.3 38.9 41.3 48.6 48.8 42.9
   3        1
          43.7
   4        1    2    3
          40.8 39.3 33.5
   5        1    2    3    4    5    6
          29.5 26.1 25.7 29.9 31.6 28.2
   6        1    2    3
          24.8 23.8 27.4
   7        1    2    3    4
          27.4 23.6 24.6 26.7
   8        1    2    3    4    5    6
          31.6 30.0 25.7 26.1 29.5 32.3
   9        1    2    3
          39.2 40.7 41.8
  10        1
          43.0
  11        1    2    3    4    5    6
          48.5 47.2 41.2 38.7 37.2 36.4
  12        1    2    3    4    5
          33.0 32.4 31.9 30.6 27.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.5 34.0 28.7 35.4 36.7 38.1 38.2 38.3 38.9 39.3

          39.6 40.0 39.5 39.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          39.1 39.5 40.0 39.9 39.0 38.9 38.5 38.1 38.6 36.8

          34.6 30.2 34.4 29.6
  15        1    2    3    4    5    6    7    8    9   10

          28.5 32.1 27.8 28.2 28.3 28.2 27.8 27.2 26.5 31.1

  16        1    2    3    4    5    6    7    8    9   10

          31.1 26.4 27.1 27.6 28.0 28.2 28.1 27.6 32.0 28.4

  17        1    2    3    4    5    6    7
          32.9 32.2 30.7 29.7 30.2 30.0 25.3
  18        1    2    3    4    5    6    7
          25.1 30.0 30.2 29.6 30.6 32.1 32.8
1

 RECEIVER    LEQ(H)   L10
 25c          57.5   59.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          29.1 31.4 32.2 32.8 33.9 35.9
   2        1    2    3    4    5    6
          39.5 41.6 40.6 46.0 44.4 44.2
   3        1
          43.9
   4        1    2    3
          40.4 39.1 33.3
   5        1    2    3    4    5    6
          29.4 26.0 25.6 29.8 31.6 28.2
   6        1    2    3
          24.8 23.8 27.4
   7        1    2    3    4
          27.4 23.6 24.6 26.7
   8        1    2    3    4    5    6
          31.5 29.9 25.6 26.0 29.4 32.2
   9        1    2    3
          39.0 40.4 43.3
  10        1
          43.3
  11        1    2    3    4    5    6
          44.4 44.7 39.5 41.2 39.4 38.0
  12        1    2    3    4    5
          33.8 32.8 32.2 31.4 29.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.8 33.4 28.0 34.9 36.3 37.6 37.8 39.5 39.9 39.7

          39.6 40.0 39.6 39.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          39.2 39.5 40.0 40.0 39.5 39.9 39.6 37.6 38.1 36.4

          34.1 29.6 33.8 28.9
  15        1    2    3    4    5    6    7    8    9   10

          28.1 31.2 26.6 26.9 27.0 26.8 26.5 25.9 25.3 30.0

  16        1    2    3    4    5    6    7    8    9   10

          30.0 25.2 25.9 26.3 26.7 26.9 26.8 26.5 31.1 28.0

  17        1    2    3    4    5    6    7
          34.2 32.9 30.1 29.0 29.5 29.2 24.6
  18        1    2    3    4    5    6    7
          24.4 29.3 29.5 28.9 30.0 33.0 34.0
1

 RECEIVER    LEQ(H)   L10
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26            62.4   65.8

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         26.1 28.7 30.3 30.9 31.7 32.6
  2        1    2    3    4    5    6
         35.3 36.7 38.0 44.7 56.8 53.9
  3        1
         43.6
  4        1    2    3
         38.8 36.9 30.7
  5        1    2    3    4    5    6
         26.5 23.0 22.6 26.7 28.4 25.0
  6        1    2    3
         21.7 20.8 24.4
  7        1    2    3    4
         24.4 20.6 21.6 23.5
  8        1    2    3    4    5    6
         28.4 26.8 22.7 23.0 26.6 29.5
  9        1    2    3
         36.8 38.8 43.0
 10        1
         53.5
 11        1    2    3    4    5    6
         56.0 44.7 37.4 36.2 35.4 34.6
 12        1    2    3    4    5
         31.3 30.6 30.1 28.5 26.0
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         33.0 36.9 31.4 37.6 38.0 38.2 37.6 37.1 37.1 36.8

         38.2 38.5 37.9 37.6
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         37.6 37.8 38.4 38.6 36.6 37.1 37.3 37.4 38.6 38.2

         36.8 32.9 37.3 33.1
 15        1    2    3    4    5    6    7    8    9   10

         30.8 35.6 31.4 31.9 32.2 32.2 31.9 31.3 30.6 35.2

 16        1    2    3    4    5    6    7    8    9   10

         35.1 30.5 31.3 31.7 32.0 32.0 31.8 31.2 35.5 30.8

 17        1    2    3    4    5    6    7
         29.8 30.3 30.0 29.7 30.7 31.3 27.3
 18        1    2    3    4    5    6    7
         27.0 31.3 30.7 29.5 29.8 30.2 29.7
1

RECEIVER    LEQ(H)   L10
26b          57.4   59.3

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCREDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         28.0 30.2 30.9 31.4 32.4 34.2
  2        1    2    3    4    5    6
         37.6 38.1 37.1 43.0 42.5 48.3
  3        1
         46.1
  4        1    2    3
         42.2 40.5 34.5
  5        1    2    3    4    5    6
         30.5 27.0 26.6 30.8 32.5 29.1
  6        1    2    3
         25.6 24.6 28.1
  7        1    2    3    4
         28.1 24.3 25.4 27.5
  8        1    2    3    4    5    6
         32.5 30.9 26.7 27.0 30.5 33.3
  9        1    2    3
         40.4 42.1 45.3
 10        1
         47.6
 11        1    2    3    4    5    6
         42.7 41.7 36.9 36.7 37.5 36.3
 12        1    2    3    4    5
         32.2 31.4 30.9 30.2 28.0
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         27.8 32.3 26.9 33.7 35.0 36.3 36.6 36.8 38.5 38.6

         38.5 38.9 38.4 38.0
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         38.1 38.4 38.8 38.9 38.4 38.5 37.0 36.4 36.8 35.1

         32.9 28.5 32.7 27.9
 15        1    2    3    4    5    6    7    8    9   10

         26.5 29.9 25.5 25.9 26.1 26.0 25.8 25.3 24.8 29.6

 16        1    2    3    4    5    6    7    8    9   10

         29.6 24.6 25.2 25.6 25.8 25.9 25.8 25.3 29.8 26.5

 17        1    2    3    4    5    6    7
         31.4 29.5 28.3 27.3 27.9 27.9 23.2
 18        1    2    3    4    5    6    7
         23.0 27.9 27.9 27.3 28.1 29.4 31.3
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****
STAM2VU1
Version 1.20
****
STAMINA 2.0/BCR
MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
TRAFFIC NOISE PREDICTION MODEL

MODIFIED TO:
1. ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
2. CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
3. PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.

****

MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
AND BOWLBY & ASSOCIATES, INC.
2014 BROADWAY, SUITE 210
NASHVILLE, TN 37203-2425
TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE *.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.

(INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH)

Meadowood - School 2nd Floor (Receivers 23-26)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

HEIGHT	CODE	DESCRIPTION
.00	1	RECEIVER HEIGHT ADJUSTMENT
1.00	2	A-WEIGHTED SOUND LEVEL ONLY
.00	3	HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
.00	4	HEIGHT ADJUSTMENT FOR HEAVY TRUCKS (HT)
.00	5	HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS (MT)
.000	6	HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4) CARS--CALVENO C0 = 5.20 C1 = 38.80 S0 = .00
2.300	7	HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5) MT--CALVENO C0 = 35.30 C1 = 25.60 S0 = .00
8.000	8	HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6) HT--CALVENO C0 = 50.40 C1 = 19.20 S0 = .00

0ROADWAY 1 HRC nb (76 to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6287767.4	2067284.0	276.0	0
2	6287704.7	2067456.2	276.0	0
3	6287629.7	2067702.5	279.0	0
4	6287568.8	2067936.5	284.0	0
5	6287512.3	2068148.3	284.0	0
6	6287446.9	2068359.4	282.0	0
7	6287374.5	2068606.6	279.0	0

0ROADWAY 2 HRC nb (Pankey to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
7	6287374.5	2068606.6	279.0	0
8	6287273.9	2068832.6	278.0	0
9	6287137.9	2069057.7	278.0	0
10	6287017.0	2069263.4	280.0	0
11	6286760.9	2069688.9	285.0	0
12	6286533.2	2070137.4	290.0	0
13	6286310.7	2070587.7	296.0	0

0ROADWAY 3 HRC nb (School to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
13	6286310.7	2070587.7	296.0	0
14	6286086.4	2071030.0	302.0	0

0ROADWAY 4 HRC nb (26 to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286086.4	2071030.0	302.0	0
15	6285859.5	2071475.8	308.0	0
16	6285540.8	2072106.2	311.0	0
17	6285403.1	2072385.2	310.0	0

0ROADWAY 5 HRC nb (Harvest Glen to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
17	6285403.1	2072385.2	310.0	0
18	6285328.1	2072574.1	310.0	0
19	6285298.0	2072673.9	310.0	0
20	6285270.7	2072773.6	311.0	0
21	6285221.2	2073078.2	314.0	0
22	6285201.8	2073673.3	322.0	0
23	6285188.6	2074037.0	338.0	0

0ROADWAY 6 HRC nb (Longspur to Baltimore)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
23	6285188.6	2074037.0	338.0	0
24	6285145.3	2074308.9	346.0	0
25	6285056.1	2074546.4	351.0	0
26	6284650.0	2075149.4	356.0	0

0ROADWAY 7 HRC sb (Baltimore to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6284621.8	2075132.6	356.0	0
2	6285015.5	2074527.9	351.0	0
3	6285099.4	2074300.1	346.0	0
4	6285141.8	2074033.5	338.0	0
5	6285159.4	2073671.5	322.0	0

0ROADWAY 8 HRC sb (Longspur to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
5	6285159.4	2073671.5	322.0	0
6	6285181.5	2073072.9	314.0	0
7	6285228.3	2072759.5	311.0	0
8	6285256.5	2072658.0	310.0	0
9	6285287.4	2072557.3	310.0	0
10	6285368.7	2072369.3	310.0	0
11	6285504.6	2072087.7	311.0	0

0ROADWAY 9 HRC sb (Harvest Glen to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
11	6285504.6	2072087.7	311.0	0
12	6285818.9	2071457.3	308.0	0
13	6286045.8	2071007.9	302.0	0
14	6286269.2	2070567.4	296.0	0

0ROADWAY 10 HRC sb (26 to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	14.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286269.2	2070567.4	296.0	0
15	6286493.4	2070122.4	290.0	0

0ROADWAY 11 HRC sb (School to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
15	6286493.4	2070122.4	290.0	0
16	6286720.3	2069667.7	285.0	0
17	6286977.2	2069239.6	280.0	0
18	6287102.6	2069033.0	278.0	0
19	6287238.6	2068813.1	278.0	0

	X	Y	Z	GRADE
20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

1

BARRIER 1 TYPE(A) School Pad Edges 1

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
1	6287131.7	2069541.1	283.0	283.0	.0	0
2	6286944.3	2069454.4	283.0	283.0		
3	6286794.9	2069695.7	289.0	289.0		
4	6286649.9	2069981.4	295.0	295.0		
5	6286535.1	2070224.4	300.0	300.0		
6	6286656.2	2070294.3	300.0	300.0		

1

Sch Rec @ 15'

------------COORDINATES-------------

	X	Y	Z
23	6286963.7	2069559.7	300.0
24	6287084.6	2069633.1	300.0
25	6286778.4	2069903.1	308.0
25b	6286967.5	2069991.2	308.0
25c	6287154.9	2070081.6	308.0
26	6286629.3	2070142.5	313.0
26b	6287051.2	2070386.2	313.0

1

ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1	*	.0	.0	.0	.0	.0	.0	.0
2	*	.0	.0	.0	.0	.0	.0	.0
3	*	.0	.0	.0	.0	.0	.0	.0
4	*	.0	.0	.0	.0	.0	.0	.0
5	*	.0	.0	.0	.0	.0	.0	.0
6	*	.0	.0	.0	.0	.0	.0	.0
7	*	.0	.0	.0	.0	.0	.0	.0
8	*	.0	.0	.0	.0	.0	.0	.0
9	*	.0	.0	.0	.0	.0	.0	.0
10	*	.0	.0	.0	.0	.0	.0	.0
11	*	.0	.0	.0	.0	.0	.0	.0
12	*	.0	.0	.0	.0	.0	.0	.0
13	*	.0	.0	.0	.0	.0	.0	.0
14	*	.0	.0	.0	.0	.0	.0	.0
15	*	.0	.0	.0	.0	.0	.0	.0
16	*	.0	.0	.0	.0	.0	.0	.0
17	*	.0	.0	.0	.0	.0	.0	.0
18	*	.0	.0	.0	.0	.0	.0	.0

1

SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1	*	.0	.0	.0	.0	.0	.0	.0
2	*	.0	.0	.0	.0	.0	.0	.0
3	*	.0	.0	.0	.0	.0	.0	.0
4	*	.0	.0	.0	.0	.0	.0	.0
5	*	.0	.0	.0	.0	.0	.0	.0
6	*	.0	.0	.0	.0	.0	.0	.0
7	*	.0	.0	.0	.0	.0	.0	.0
8	*	.0	.0	.0	.0	.0	.0	.0
9	*	.0	.0	.0	.0	.0	.0	.0
10	*	.0	.0	.0	.0	.0	.0	.0
11	*	.0	.0	.0	.0	.0	.0	.0
12	*	.0	.0	.0	.0	.0	.0	.0
13	*	.0	.0	.0	.0	.0	.0	.0
14	*	.0	.0	.0	.0	.0	.0	.0
15	*	.0	.0	.0	.0	.0	.0	.0
16	*	.0	.0	.0	.0	.0	.0	.0
17	*	.0	.0	.0	.0	.0	.0	.0
18	*	.0	.0	.0	.0	.0	.0	.0

1

RECEIVER	LEQ(H)	L10
23	65.9	69.0

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING 1.0 DBA

ROADWAY SEGMENT

1	1	2	3	4	5	6
	30.9	33.4	34.3	35.2	36.6	39.0
2	1	2	3	4	5	6
	43.4	46.7	50.6	62.2	50.9	41.2
3	1					
	37.0					
4	1	2	3			
	34.0	33.0	27.4			
5	1	2	3	4	5	6
	23.4	20.0	19.7	23.9	25.7	26.2
6	1	2	3			
	23.8	22.9	26.5			
7	1	2	3	4		

```
          26.3 22.7 23.7 23.2
   8        1    2    3    4    5    6
          25.7 24.0 19.7 20.0 23.4 26.2
   9        1    2    3
          33.0 34.0 36.8
  10        1
          41.6
  11        1    2    3    4    5    6
          52.3 60.1 50.3 46.5 43.3 41.2
  12        1    2    3    4    5
          36.5 35.2 34.3 33.4 30.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          34.5 39.0 33.7 40.3 41.2 41.8 41.6 41.4 41.7 41.4

          41.2 41.5 40.9 40.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          40.4 40.9 41.4 41.6 41.2 41.7 41.6 41.5 42.3 41.3

          39.5 35.3 39.4 34.5
  15        1    2    3    4    5    6    7    8    9   10

          33.9 37.4 32.9 33.1 33.1 32.6 32.0 31.2 30.3 34.7

  16        1    2    3    4    5    6    7    8    9   10

          34.7 30.2 31.1 31.8 32.5 32.9 33.0 32.7 37.3 33.9

  17        1    2    3    4    5    6    7
          37.6 37.9 37.1 36.0 36.0 35.7 30.9
  18        1    2    3    4    5    6    7
          30.7 35.7 35.9 35.9 36.9 37.7 37.3
1

 RECEIVER    LEQ(H)   L10
 24           61.8   64.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          30.7 33.2 34.2 35.0 36.4 38.8
   2        1    2    3    4    5    6
          43.1 46.1 49.3 55.2 48.3 39.9
   3        1
          37.0
   4        1    2    3
          34.0 36.2 32.2
   5        1    2    3    4    5    6
          28.3 24.9 24.6 28.8 30.6 27.3
   6        1    2    3
          23.9 22.9 26.6
   7        1    2    3    4
          26.6 22.7 23.7 25.8
   8        1    2    3    4    5    6
          30.6 28.9 24.6 24.9 28.3 31.0
   9        1    2    3
          33.6 33.9 36.5
  10        1
          40.5
  11        1    2    3    4    5    6
          48.7 54.2 48.8 45.8 42.9 40.9
  12        1    2    3    4    5
          36.3 35.0 34.1 33.2 30.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          34.1 38.6 33.3 39.9 40.8 41.4 41.3 41.1 41.5 41.3

          41.1 41.5 40.9 40.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          40.5 40.9 41.4 41.5 41.1 41.5 41.3 41.2 41.9 41.0

          39.1 34.9 39.0 34.2
  15        1    2    3    4    5    6    7    8    9   10

          33.5 36.7 32.2 32.3 32.3 31.9 31.3 30.5 29.7 34.2

  16        1    2    3    4    5    6    7    8    9   10

          34.2 29.6 30.5 31.1 31.7 32.1 32.2 32.0 36.6 33.4

  17        1    2    3    4    5    6    7
          37.2 37.4 36.5 35.4 35.4 35.2 30.4
  18        1    2    3    4    5    6    7
          30.1 35.1 35.4 35.3 36.3 37.2 36.9
1

 RECEIVER    LEQ(H)   L10
 25           64.4   67.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          29.3 31.7 32.5 33.1 34.2 36.3
   2        1    2    3    4    5    6
          40.0 42.4 42.7 51.7 59.2 47.1
   3        1
          40.8
   4        1    2    3
          37.7 36.8 30.9
   5        1    2    3    4    5    6
          26.7 23.2 22.8 27.0 28.8 25.7
   6        1    2    3
          23.2 22.6 26.4
   7        1    2    3    4
          26.4 22.4 23.1 24.2
   8        1    2    3    4    5    6
          28.8 27.1 22.8 23.2 26.7 29.7
   9        1    2    3
          36.7 37.7 40.3
  10        1
          48.6
  11        1    2    3    4    5    6
          59.8 53.4 43.7 41.9 40.0 38.4
  12        1    2    3    4    5
          34.2 33.1 32.4 31.7 29.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          33.7 38.2 32.8 39.3 40.1 40.6 40.3 40.0 40.3 39.9

          39.7 40.0 39.4 38.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          38.9 39.4 39.9 40.1 39.7 40.3 40.2 40.1 41.1 40.3

          38.5 34.4 38.6 33.8
  15        1    2    3    4    5    6    7    8    9   10

          32.8 36.4 32.1 32.5 32.7 32.5 32.1 31.3 30.6 35.0

  16        1    2    3    4    5    6    7    8    9   10

          35.0 30.4 31.3 31.8 32.3 32.5 32.4 31.9 36.3 32.7

  17        1    2    3    4    5    6    7
          34.8 35.3 34.7 34.0 34.3 34.3 29.7
  18        1    2    3    4    5    6    7
          29.4 34.3 34.2 33.9 34.6 35.1 34.6
1

 RECEIVER    LEQ(H)   L10
 25b          59.6   62.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          29.2 31.6 32.4 33.0 34.1 36.2
   2        1    2    3    4    5    6
          39.9 42.1 42.2 48.7 50.5 43.6
   3        1
          43.8
   4        1    2    3
          40.8 39.3 33.5
   5        1    2    3    4    5    6
          29.5 26.1 25.7 29.9 31.6 28.2
   6        1    2    3
          24.8 23.8 27.4
   7        1    2    3    4
          27.4 23.6 24.6 26.7
   8        1    2    3    4    5    6
          31.6 30.0 25.7 26.1 29.5 32.3
   9        1    2    3
          39.2 40.7 42.0
  10        1
          43.8
  11        1    2    3    4    5    6
          50.6 48.4 42.0 41.6 39.8 38.3
  12        1    2    3    4    5
          34.1 33.0 32.4 31.6 29.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          33.3 37.8 32.4 38.9 39.7 40.2 40.0 39.8 40.1 39.9

          39.7 40.0 39.5 39.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          39.1 39.5 40.0 40.1 39.6 40.1 40.0 39.8 40.7 39.8

          38.1 34.0 38.2 33.4
  15        1    2    3    4    5    6    7    8    9   10

          32.3 35.6 31.2 31.5 31.6 31.4 31.0 30.4 29.7 34.2

  16        1    2    3    4    5    6    7    8    9   10

          34.2 29.5 30.3 30.8 31.3 31.4 31.4 31.0 35.5 32.2

  17        1    2    3    4    5    6    7
          34.6 34.9 34.3 33.4 33.7 33.7 29.1
  18        1    2    3    4    5    6    7
          28.9 33.7 33.7 33.3 34.1 34.8 34.3
1

 RECEIVER    LEQ(H)   L10
 25c          58.3   60.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          29.1 31.4 32.2 32.8 33.9 35.9
   2        1    2    3    4    5    6
          39.5 41.6 41.4 46.2 45.4 44.4
   3        1
          43.9
   4        1    2    3
          40.4 39.1 33.3
   5        1    2    3    4    5    6
          29.4 26.0 25.6 29.8 31.6 28.2
   6        1    2    3
          24.8 23.8 27.4
   7        1    2    3    4
          27.4 23.6 24.6 26.7
   8        1    2    3    4    5    6
          31.6 29.9 25.6 26.0 29.4 32.2
   9        1    2    3
          39.0 40.4 43.3
  10        1
          43.6
  11        1    2    3    4    5    6
          45.4 45.9 40.8 41.3 39.4 38.0
  12        1    2    3    4    5
          33.8 32.8 32.1 31.4 29.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.8 37.3 31.9 38.4 39.3 39.8 39.6 39.5 39.9 39.7

          39.6 40.0 39.6 39.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          39.2 39.5 40.0 40.0 39.5 39.9 39.6 39.5 40.3 39.4

          37.6 33.5 37.7 32.9
  15        1    2    3    4    5    6    7    8    9   10

          31.7 34.9 30.3 30.6 30.7 30.5 30.1 29.5 28.8 33.5

  16        1    2    3    4    5    6    7    8    9   10

          33.5 28.7 29.4 29.9 30.3 30.5 30.5 30.1 34.8 31.7

  17        1    2    3    4    5    6    7
          34.2 34.4 33.7 32.8 33.1 33.1 28.5
  18        1    2    3    4    5    6    7
          28.3 33.1 33.1 32.7 33.6 34.3 34.0
1

 RECEIVER    LEQ(H)   L10
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26           65.8   69.2

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          28.3 30.6 31.3 31.8 32.8 34.7
   2        1    2    3    4    5    6
          37.8 38.5 39.5 46.6 60.1 57.6
   3        1
          48.1
   4        1    2    3
          42.9 40.8 34.7
   5        1    2    3    4    5    6
          30.6 27.1 26.7 30.8 32.4 29.0
   6        1    2    3
          25.4 24.4 28.0
   7        1    2    3    4
          28.0 24.2 25.3 27.4
   8        1    2    3    4    5    6
          32.4 30.9 26.8 27.1 30.6 33.5
   9        1    2    3
          40.8 42.9 47.5
  10        1
          57.7
  11        1    2    3    4    5    6
          59.7 48.9 39.9 38.7 38.1 36.8
  12        1    2    3    4    5
          32.8 31.9 31.3 30.6 28.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          33.2 37.7 32.3 38.7 39.4 39.8 39.4 39.1 39.3 39.0

          38.7 39.0 38.4 37.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.9 38.4 38.9 39.1 38.7 39.3 39.3 39.2 40.3 39.5

          37.9 33.8 38.1 33.3
  15        1    2    3    4    5    6    7    8    9   10

          32.0 35.6 31.4 31.9 32.2 32.2 31.9 31.3 30.6 35.2

  16        1    2    3    4    5    6    7    8    9   10

          35.1 30.5 31.3 31.7 32.0 32.0 31.8 31.2 35.5 32.0

  17        1    2    3    4    5    6    7
          33.2 33.7 33.3 32.7 33.1 33.3 28.9
  18        1    2    3    4    5    6    7
          28.6 33.3 33.1 32.6 33.2 33.6 33.0
1

RECEIVER    LEQ(H)   L10
26b          57.9   59.8

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          28.0 30.2 30.9 31.4 32.4 34.2
   2        1    2    3    4    5    6
          37.6 38.6 37.9 43.2 43.2 48.3
   3        1
          46.1
   4        1    2    3
          42.2 40.5 34.5
   5        1    2    3    4    5    6
          30.5 27.0 26.6 30.8 32.5 29.1
   6        1    2    3
          25.6 24.6 28.1
   7        1    2    3    4
          28.1 24.3 25.4 27.5
   8        1    2    3    4    5    6
          32.5 30.9 26.7 27.0 30.5 33.3
   9        1    2    3
          40.4 42.1 45.3
  10        1
          47.7
  11        1    2    3    4    5    6
          43.2 42.6 37.8 37.8 37.5 36.3
  12        1    2    3    4    5
          32.2 31.4 30.9 30.2 28.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.6 36.0 30.6 37.3 38.4 38.9 38.6 38.4 38.8 38.6

          38.5 38.9 38.4 38.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          38.1 38.4 38.8 38.9 38.4 38.8 38.6 38.5 39.3 38.6

          36.5 32.2 36.1 31.7
  15        1    2    3    4    5    6    7    8    9   10

          30.9 33.5 29.5 29.8 30.0 29.9 29.7 29.2 28.6 33.4

  16        1    2    3    4    5    6    7    8    9   10

          33.4 28.5 29.1 29.5 29.8 29.9 29.7 29.3 33.5 30.2

  17        1    2    3    4    5    6    7
          32.4 32.3 30.8 29.8 30.7 30.8 26.3
  18        1    2    3    4    5    6    7
          26.1 30.8 30.7 29.8 30.7 32.3 32.2
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                                STAM2VU1
                              Version 1.20
                        ************************
                             STAMINA 2.0/BCR
                  MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
                        TRAFFIC NOISE PREDICTION MODEL

          MODIFIED TO:
            1.   ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
            2.   CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY
                 USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
            3.   PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A
                 DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE
                 LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.
                         ************************
             MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
                 BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
                        AND BOWLBY & ASSOCIATES, INC.
                          2014 BROADWAY, SUITE 210
                          NASHVILLE, TN 37203-2425
                     TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE
HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK
CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE
*.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.


          (INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH )


 Meadowood - School 1st Floor (Receivers 23-26)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

      HEIGHT      CODE          DESCRIPTION
         .00         1     RECEIVER HEIGHT ADJUSTMENT
        1.00         2     A-WEIGHTED SOUND LEVEL ONLY
         .00         3     HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
         .00         4     HEIGHT ADJUSTMENT FOR HEAVY TRUCKS   (HT)
         .00         5     HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS  (MT)
        .000         6     HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4)
                           CARS--CALVENO
                           C0 =       5.20  C1 =      38.80  S0 =        .00
       2.300         7     HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5)
                           MT--CALVENO
                           C0 =      35.30  C1 =      25.60  S0 =        .00
       8.000         8     HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6)
                           HT--CALVEN0
                           C0 =      50.40  C1 =      19.20  S0 =        .00


0ROADWAY   1     HRC nb (76 to Pankey)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                 0.      30.0
                         HT                   0.      30.0
                         MT                   0.      30.0
                         VEH4               415.      40.0
                         VEH5                13.      40.0
                         VEH6                 9.      40.0
0                      ------------COORDINATES------------
                           X            Y            Z    GRADE
 1                     6287767.4   2067284.0     276.0      0
 2                     6287704.7   2067456.2     276.0      0
 3                     6287629.7   2067702.5     279.0      0
 4                     6287568.8   2067936.5     284.0      0
 5                     6287512.3   2068148.3     284.0      0
 6                     6287446.9   2068359.4     282.0      0
 7                     6287374.5   2068606.6     279.0      0

0ROADWAY   2     HRC nb (Pankey to School)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                 0.      30.0
                         HT                   0.      30.0
                         MT                   0.      30.0
                         VEH4               695.      40.0
                         VEH5                22.      40.0
                         VEH6                15.      40.0
0                      ------------COORDINATES------------
                           X            Y            Z    GRADE
 7                     6287374.5   2068606.6     279.0      0
 8                     6287273.9   2068832.6     278.0      0
 9                     6287137.9   2069057.7     278.0      0
 10                    6287017.0   2069263.4     280.0      0
 11                    6286760.9   2069688.9     285.0      0
 12                    6286533.2   2070137.4     290.0      0
 13                    6286310.7   2070587.7     296.0      0

0ROADWAY   3     HRC nb (School to 26)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                 0.      30.0
                         HT                   0.      30.0
                         MT                   0.      30.0
                         VEH4               689.      40.0
                         VEH5                22.      40.0
                         VEH6                15.      40.0
0                      ------------COORDINATES------------
                           X            Y            Z    GRADE
 13                    6286310.7   2070587.7     296.0      0
 14                    6286086.4   2071030.0     302.0      0

0ROADWAY   4     HRC nb (26 to Harvest Glen)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                 0.      30.0
                         HT                   0.      30.0
                         MT                   0.      30.0
                         VEH4               634.      40.0
                         VEH5                20.      40.0
                         VEH6                13.      40.0
0                      ------------COORDINATES------------
                           X            Y            Z    GRADE
 14                    6286086.4   2071030.0     302.0      0
 15                    6285859.5   2071475.8     308.0      0
 16                    6285540.8   2072106.2     311.0      0
 17                    6285403.1   2072385.2     310.0      0

0ROADWAY   5     HRC nb (Harvest Glen to Longspur)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                 0.      30.0
                         HT                   0.      30.0
                         MT                   0.      30.0
                         VEH4               488.      40.0
                         VEH5                15.      40.0
                         VEH6                10.      40.0
0                      ------------COORDINATES------------
                           X            Y            Z    GRADE
 17                    6285403.1   2072385.2     310.0      0
 18                    6285328.1   2072574.1     310.0      0
 19                    6285298.0   2072673.9     310.0      0
 20                    6285270.7   2072773.6     311.0      0
 21                    6285221.2   2073078.2     314.0      0
 22                    6285201.8   2073673.3     322.0      0
 23                    6285188.6   2074037.0     338.0      0

0ROADWAY   6     HRC nb (Longspur to Baltimore)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                 0.      30.0
                         HT                   0.      30.0
                         MT                   0.      30.0
                         VEH4               347.      40.0
                         VEH5                11.      40.0
                         VEH6                 7.      40.0
0                      ------------COORDINATES------------
                           X            Y            Z    GRADE
 23                    6285188.6   2074037.0     338.0      0
 24                    6285145.3   2074308.9     346.0      0
 25                    6285056.1   2074546.4     351.0      0
 26                    6284650.0   2075149.4     356.0      0

0ROADWAY   7     HRC sb (Baltimore to Longspur)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                 0.      30.0
                         HT                   0.      30.0
                         MT                   0.      30.0
                         VEH4               347.      40.0
                         VEH5                11.      40.0
                         VEH6                 7.      40.0
0                      ------------COORDINATES------------
                           X            Y            Z    GRADE
 1                     6284621.8   2075132.6     356.0      0
 2                     6285015.5   2074527.9     351.0      0
 3                     6285099.4   2074300.1     346.0      0
 4                     6285141.8   2074033.5     338.0      0
 5                     6285159.4   2073671.5     322.0      0

0ROADWAY   8     HRC sb (Longspur to Harvest Glen)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                 0.      30.0
                         HT                   0.      30.0
                         MT                   0.      30.0
                         VEH4               488.      40.0
                         VEH5                15.      40.0
                         VEH6                10.      40.0
0                      ------------COORDINATES------------
                           X            Y            Z    GRADE
 5                     6285159.4   2073671.5     322.0      0
 6                     6285181.5   2073072.9     314.0      0
 7                     6285228.3   2072759.5     311.0      0
 8                     6285256.5   2072658.0     310.0      0
 9                     6285287.4   2072557.3     310.0      0
 10                    6285368.7   2072369.3     310.0      0
 11                    6285504.6   2072087.7     311.0      0

0ROADWAY   9     HRC sb (Harvest Glen to 26)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                 0.      30.0
                         HT                   0.      30.0
                         MT                   0.      30.0
                         VEH4               634.      40.0
                         VEH5                20.      40.0
                         VEH6                13.      40.0
0                      ------------COORDINATES------------
                           X            Y            Z    GRADE
 11                    6285504.6   2072087.7     311.0      0
 12                    6285818.9   2071457.3     308.0      0
 13                    6286045.8   2071007.9     302.0      0
 14                    6286269.2   2070567.4     296.0      0

0ROADWAY  10     HRC sb (26 to School)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                 0.      30.0
                         HT                   0.      30.0
                         MT                   0.      30.0
                         VEH4               689.      40.0
                         VEH5                22.      40.0
                         VEH6                14.      40.0
0                      ------------COORDINATES------------
                           X            Y            Z    GRADE
 14                    6286269.2   2070567.4     296.0      0
 15                    6286493.4   2070122.4     290.0      0

0ROADWAY  11     HRC sb (School to Pankey)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                 0.      30.0
                         HT                   0.      30.0
                         MT                   0.      30.0
                         VEH4               695.      40.0
                         VEH5                22.      40.0
                         VEH6                15.      40.0
0                      ------------COORDINATES------------
                           X            Y            Z    GRADE
 15                    6286493.4   2070122.4     290.0      0
 16                    6286720.3   2069667.7     285.0      0
 17                    6286977.2   2069239.6     280.0      0
 18                    6287102.6   2069033.0     278.0      0
 19                    6287238.6   2068813.1     278.0      0
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 20                         6287334.8   2068585.4        279.0       0
 21                         6287408.1   2068344.3        282.0       0

0ROADWAY  12      HRC sb (Pankey to 76)

                       VEHICLE TYPE   VEHICLES/HOUR      SPEED
                           CARS                0.         30.0
                           HT                  0.         30.0
                           MT                  0.         30.0
                           VEH4              415.         40.0
                           VEH5               13.         40.0
                           VEH6                9.         40.0
0                         ------------COORDINATES------------
                              X           Y             Z     GRADE
 21                         6287408.1   2068344.3     282.0     0
 22                         6287465.5   2068135.1     284.0     0
 23                         6287525.5   2067923.2     284.0     0
 24                         6287585.5   2067689.3     279.0     0
 25                         6287658.8   2067442.1     276.0     0
 26                         6287712.7   2067264.6     276.0     0

0ROADWAY  13      SR-76 eastbound

                       VEHICLE TYPE   VEHICLES/HOUR      SPEED
                           CARS                0.         30.0
                           HT                  0.         30.0
                           MT                  0.         30.0
                           VEH4              877.         55.0
                           VEH5               48.         55.0
                           VEH6              102.         55.0
0                         ------------COORDINATES------------
                              X           Y             Z     GRADE
 1                          6285343.2   2066573.4     260.0     0
 2                          6285453.8   2066619.2     260.0     0
 3                          6285731.0   2066734.9     260.0     0
 4                          6285804.7   2066766.7     260.0     0
 5                          6286102.2   2066891.3     264.0     0
 6                          6286411.1   2067020.9     269.0     0
 7                          6286732.8   2067107.4     274.0     0
 8                          6287029.0   2067131.5     275.0     0
 9                          6287307.4   2067153.2     276.0     0
 10                         6287604.9   2067197.7     277.0     0
 11                         6287877.0   2067284.1     278.0     0
 12                         6288121.1   2067404.9     278.5     0
 13                         6288353.7   2067568.9     279.0     0
 14                         6288530.5   2067735.4     280.0     0
 15                         6288663.9   2067896.9     280.0     0

0ROADWAY  14      SR-76 westbound

                       VEHICLE TYPE   VEHICLES/HOUR      SPEED
                           CARS                0.         30.0
                           HT                  0.         30.0
                           MT                  0.         30.0
                           VEH4              877.         55.0
                           VEH5               48.         55.0
                           VEH6              102.         55.0
0                         ------------COORDINATES------------
                              X           Y             Z     GRADE
 1                          6288633.4   2067914.7     280.0     0
 2                          6288502.5   2067755.8     280.0     0
 3                          6288330.9   2067594.3     279.0     0
 4                          6288107.1   2067437.9     278.5     0
 5                          6287847.7   2067310.8     278.0     0
 6                          6287596.0   2067232.0     277.0     0
 7                          6287306.2   2067190.0     276.0     0
 8                          6287023.9   2067168.4     275.0     0
 9                          6286746.8   2067144.3     274.0     0
 10                         6286395.9   2067052.7     269.0     0
 11                         6286083.1   2066921.8     264.0     0
 12                         6285841.6   2066821.3     260.0     0
 13                         6285738.6   2066778.1     260.0     0
 14                         6285441.1   2066653.5     260.0     0
 15                         6285330.5   2066606.5     260.0     0

0ROADWAY  15      Pala Mesa northbound

                       VEHICLE TYPE   VEHICLES/HOUR      SPEED
                           CARS                0.         30.0
                           HT                  0.         30.0
                           MT                  0.         30.0
                           VEH4              229.         45.0
                           VEH5                7.         45.0
                           VEH6                5.         45.0
0                         ------------COORDINATES------------
                              X           Y             Z     GRADE
 1                          6286331.5   2067087.9     276.0     0
 2                          6286125.7   2067571.3     268.0     0
 3                          6285838.3   2068252.8     284.0     0
 4                          6285745.1   2068433.4     288.0     0
 5                          6285618.9   2068594.6     292.0     0
 6                          6285471.4   2068740.2     296.0     0
 7                          6285300.5   2068854.7     300.0     0
 8                          6285108.3   2068936.3     304.0     0
 9                          6284908.3   2068984.8     308.0     0
 10                         6284702.5   2069002.3     312.0     0
 11                         6283840.4   2069023.6     318.0     0

0ROADWAY  16      Pala Mesa southbound

                       VEHICLE TYPE   VEHICLES/HOUR      SPEED
                           CARS                0.         30.0
                           HT                  0.         30.0
                           MT                  0.         30.0
                           VEH4              229.         45.0
                           VEH5                7.         45.0
                           VEH6                5.         45.0
0                         ------------COORDINATES------------
                              X           Y             Z     GRADE
 1                          6283838.5   2069002.3     318.0     0
 2                          6284702.5   2068980.9     312.0     0
 3                          6284904.4   2068965.4     308.0     0
 4                          6285104.4   2068916.9     304.0     0
 5                          6285288.9   2068835.3     300.0     0
 6                          6285457.8   2068722.7     296.0     0
 7                          6285605.3   2068582.9     292.0     0
 8                          6285727.7   2068419.8     288.0     0
 9                          6285817.0   2068241.2     284.0     0
 10                         6286098.5   2067559.7     268.0     0
 11                         6286300.4   2067072.4     276.0     0

0ROADWAY  17      Pankey westbound

                       VEHICLE TYPE   VEHICLES/HOUR      SPEED
                           CARS                0.         30.0
                           HT                  0.         30.0
                           MT                  0.         30.0
                           VEH4              314.         45.0
                           VEH5               10.         45.0
                           VEH6                7.         45.0
0                         ------------COORDINATES------------
                              X           Y             Z     GRADE
 1                          6287324.0   2068517.0     280.0     0
 2                          6287161.1   2068460.3     276.0     0
 3                          6286985.2   2068362.3     272.0     0
 4                          6286825.8   2068239.5     270.0     0
 5                          6286684.1   2068102.5     272.0     0
 6                          6286501.1   2067920.7     270.0     0
 7                          6286255.5   2067692.9     268.0     0
 8                          6286131.6   2067622.0     268.0     0

0ROADWAY  18      Pankey eastbound

                       VEHICLE TYPE   VEHICLES/HOUR      SPEED
                           CARS                0.         30.0
                           HT                  0.         30.0
                           MT                  0.         30.0
                           VEH4              314.         45.0
                           VEH5               10.         45.0
                           VEH6                7.         45.0
0                         ------------COORDINATES------------
                              X           Y             Z     GRADE
 1                          6286146.9   2067609.0     268.0     0
 2                          6286265.0   2067676.3     268.0     0
 3                          6286514.1   2067905.4     270.0     0
 4                          6286698.3   2068089.6     272.0     0
 5                          6286839.9   2068224.2     270.0     0
 6                          6286993.4   2068348.1     272.0     0
 7                          6287172.9   2068437.9     276.0     0
 8                          6287331.1   2068498.1     280.0     0
1

 BARRIER   1   TYPE(A)     School Pad Edges 1

           ---------COORDINATES----------
                X         Y          Z          Z0       DELZ        P
 1         6287131.7 2069541.1     291.0      283.0       1.0        3
 2         6286944.3 2069454.4     291.0      283.0
 3         6286794.9 2069695.7     297.0      289.0
 4         6286649.9 2069981.4     303.0      295.0
 5         6286535.1 2070224.4     308.0      300.0
 6         6286656.2 2070294.3     308.0      300.0
1

 Sch Rec @ 5'

                          ------------COORDINATES------------
                              X           Y             Z
 23                         6286963.7   2069559.7     290.0
 24                         6287084.6   2069633.1     290.0
 25                         6286778.4   2069903.1     298.0
 25b                        6286967.5   2069991.2     298.0
 25c                        6287154.9   2070081.6     298.0
 26                         6286629.3   2070142.5     303.0
 26b                        6287051.2   2070386.2     303.0
1

  ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

   1 *   .0   .0   .0   .0   .0   .0   .0
   2 *   .0   .0   .0   .0   .0   .0   .0
   3 *   .0   .0   .0   .0   .0   .0   .0
   4 *   .0   .0   .0   .0   .0   .0   .0
   5 *   .0   .0   .0   .0   .0   .0   .0
   6 *   .0   .0   .0   .0   .0   .0   .0
   7 *   .0   .0   .0   .0   .0   .0   .0
   8 *   .0   .0   .0   .0   .0   .0   .0
   9 *   .0   .0   .0   .0   .0   .0   .0
  10 *   .0   .0   .0   .0   .0   .0   .0
  11 *   .0   .0   .0   .0   .0   .0   .0
  12 *   .0   .0   .0   .0   .0   .0   .0
  13 *   .0   .0   .0   .0   .0   .0   .0
  14 *   .0   .0   .0   .0   .0   .0   .0
  15 *   .0   .0   .0   .0   .0   .0   .0
  16 *   .0   .0   .0   .0   .0   .0   .0
  17 *   .0   .0   .0   .0   .0   .0   .0
  18 *   .0   .0   .0   .0   .0   .0   .0
1

  SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

   1 *   .0   .0   .0   .0   .0   .0   .0
   2 *   .0   .0   .0   .0   .0   .0   .0
   3 *   .0   .0   .0   .0   .0   .0   .0
   4 *   .0   .0   .0   .0   .0   .0   .0
   5 *   .0   .0   .0   .0   .0   .0   .0
   6 *   .0   .0   .0   .0   .0   .0   .0
   7 *   .0   .0   .0   .0   .0   .0   .0
   8 *   .0   .0   .0   .0   .0   .0   .0
   9 *   .0   .0   .0   .0   .0   .0   .0
  10 *   .0   .0   .0   .0   .0   .0   .0
  11 *   .0   .0   .0   .0   .0   .0   .0
  12 *   .0   .0   .0   .0   .0   .0   .0
  13 *   .0   .0   .0   .0   .0   .0   .0
  14 *   .0   .0   .0   .0   .0   .0   .0
  15 *   .0   .0   .0   .0   .0   .0   .0
  16 *   .0   .0   .0   .0   .0   .0   .0
  17 *   .0   .0   .0   .0   .0   .0   .0
  18 *   .0   .0   .0   .0   .0   .0   .0
1

 RECEIVER     LEQ(H)   L10
 23             58.3   61.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY   SEGMENT

    1          1    2    3    4    5    6
            25.7 28.2 29.2 30.0 31.4 33.7
    2          1    2    3    4    5    6
            37.9 41.0 44.4 53.0 43.9 37.1
    3          1
            34.1
    4          1    2    3
            31.8 31.2 25.5
    5          1    2    3    4    5    6
            21.5 18.0 17.7 21.9 23.8 26.0
    6          1    2    3
            23.8 22.9 26.5
    7          1    2    3    4
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          26.3 22.7 23.7 22.6
   8        1    2    3    4    5    6
          23.8 22.0 17.7 18.0 21.5 24.4
   9        1    2    3
          31.1 31.8 34.2
  10        1
          38.2
  11        1    2    3    4    5    6
          45.0 52.2 44.1 40.8 37.9 35.9
  12        1    2    3    4    5
          31.3 30.1 29.2 28.2 25.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.9 33.5 28.2 34.9 35.9 36.6 36.4 36.2 36.5 36.3

          36.1 36.3 35.7 35.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          35.3 35.7 36.3 36.5 36.1 36.6 36.4 36.3 37.1 36.1

          34.1 29.8 33.9 29.0
  15        1    2    3    4    5    6    7    8    9   10

          28.4 31.8 27.3 27.5 27.4 27.0 26.4 25.5 24.7 29.1

  16        1    2    3    4    5    6    7    8    9   10

          29.1 24.6 25.5 26.2 26.8 27.2 27.4 27.1 31.7 28.3

  17        1    2    3    4    5    6    7
          32.3 32.5 31.6 30.5 30.6 30.3 25.4
  18        1    2    3    4    5    6    7
          25.2 30.3 30.6 30.4 31.5 32.4 32.1
1

 RECEIVER    LEQ(H)   L10
 24           56.4   59.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.6 28.1 29.0 29.9 31.2 33.5
   2        1    2    3    4    5    6
          37.6 40.5 43.2 48.0 40.7 35.4
   3        1
          34.1
   4        1    2    3
          31.8 35.9 32.2
   5        1    2    3    4    5    6
          28.3 24.9 24.6 28.8 30.6 27.3
   6        1    2    3
          23.9 22.9 26.6
   7        1    2    3    4
          26.6 22.7 23.7 25.8
   8        1    2    3    4    5    6
          30.6 28.9 24.6 24.9 28.3 31.0
   9        1    2    3
          32.2 31.8 33.7
  10        1
          36.3
  11        1    2    3    4    5    6
          42.4 47.8 42.8 40.2 37.5 35.6
  12        1    2    3    4    5
          31.1 29.9 29.0 28.1 25.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.8 33.3 28.0 34.6 35.6 36.3 36.1 36.0 36.3 36.1

          36.0 40.3 40.9 40.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          40.5 40.9 40.3 36.4 35.9 36.4 36.2 36.0 36.8 35.7

          33.8 29.6 33.8 28.9
  15        1    2    3    4    5    6    7    8    9   10

          28.2 31.6 27.0 27.2 27.1 26.7 26.2 25.4 24.6 29.1

  16        1    2    3    4    5    6    7    8    9   10

          29.1 24.5 25.3 25.9 26.6 27.0 27.1 26.8 31.5 28.1

  17        1    2    3    4    5    6    7
          31.9 32.0 31.0 29.9 30.0 29.8 25.1
  18        1    2    3    4    5    6    7
          24.8 29.8 30.0 29.8 30.9 31.9 31.7
1

 RECEIVER    LEQ(H)   L10
 25           56.6   59.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.6 27.0 27.9 28.5 29.5 31.4
   2        1    2    3    4    5    6
          35.1 37.1 38.5 45.7 49.3 41.3
   3        1
          37.5
   4        1    2    3
          34.4 33.2 27.3
   5        1    2    3    4    5    6
          23.2 19.8 19.4 23.6 25.3 22.1
   6        1    2    3
          19.0 18.1 21.8
   7        1    2    3    4
          21.7 17.9 18.8 20.6
   8        1    2    3    4    5    6
          25.3 23.7 19.4 19.8 23.3 26.2
   9        1    2    3
          33.2 34.4 37.1
  10        1
          42.2
  11        1    2    3    4    5    6
          50.0 46.3 38.7 37.0 35.0 33.5
  12        1    2    3    4    5
          29.5 28.6 27.9 27.0 24.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.3 32.8 27.5 34.1 35.0 35.5 35.3 35.0 35.3 35.2

          35.2 35.4 34.8 34.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          34.3 34.8 35.4 35.5 35.0 35.3 35.2 35.1 36.0 35.1

          33.3 29.1 33.3 28.4
  15        1    2    3    4    5    6    7    8    9   10

          27.4 30.9 26.6 27.0 27.2 27.0 26.6 25.9 25.1 29.6

  16        1    2    3    4    5    6    7    8    9   10

          29.5 25.0 25.8 26.3 26.8 27.0 26.9 26.4 30.8 27.4

  17        1    2    3    4    5    6    7
          29.9 30.3 29.6 28.7 29.0 29.0 24.3
  18        1    2    3    4    5    6    7
          24.1 29.0 29.0 28.6 29.4 30.1 29.7
1

 RECEIVER    LEQ(H)   L10
 25b          55.6   57.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.5 26.9 27.8 28.4 29.4 31.3
   2        1    2    3    4    5    6
          34.9 36.9 38.1 42.4 41.6 38.7
   3        1
          43.5
   4        1    2    3
          40.8 39.3 33.5
   5        1    2    3    4    5    6
          29.5 26.1 25.7 29.9 31.6 28.2
   6        1    2    3
          24.8 23.8 27.4
   7        1    2    3    4
          27.4 23.6 24.6 26.7
   8        1    2    3    4    5    6
          31.6 30.0 25.7 26.1 29.5 32.3
   9        1    2    3
          39.2 40.7 41.2
  10        1
          39.1
  11        1    2    3    4    5    6
          43.4 43.2 38.0 36.7 34.9 33.4
  12        1    2    3    4    5
          29.3 28.4 27.8 26.9 24.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.2 32.7 27.4 33.9 34.7 35.4 35.2 35.1 35.4 35.3

          38.9 40.0 39.5 39.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          39.1 39.5 40.0 39.1 35.0 35.4 35.2 35.1 35.9 34.9

          33.1 29.0 33.1 28.3
  15        1    2    3    4    5    6    7    8    9   10

          27.2 30.6 26.1 26.5 26.6 26.4 26.0 25.3 24.6 29.2

  16        1    2    3    4    5    6    7    8    9   10

          29.2 24.5 25.3 25.8 26.2 26.4 26.3 25.9 30.4 27.2

  17        1    2    3    4    5    6    7
          29.7 30.0 29.2 28.4 28.7 28.7 24.1
  18        1    2    3    4    5    6    7
          23.8 28.7 28.7 28.3 29.1 29.8 29.5
1

 RECEIVER    LEQ(H)   L10
 25c          56.4   58.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          29.1 31.4 32.2 32.8 33.9 35.9
   2        1    2    3    4    5    6
          39.5 41.6 38.9 40.0 37.3 43.2
   3        1
          43.9
   4        1    2    3
          40.4 39.1 33.3
   5        1    2    3    4    5    6
          29.4 26.0 25.6 29.8 31.6 28.2
   6        1    2    3
          24.8 23.8 27.4
   7        1    2    3    4
          27.4 23.6 24.6 26.7
   8        1    2    3    4    5    6
          31.5 29.9 25.6 26.0 29.4 32.2
   9        1    2    3
          39.0 40.4 43.3
  10        1
          41.9
  11        1    2    3    4    5    6
          39.5 40.7 37.1 41.1 39.4 38.0
  12        1    2    3    4    5
          33.8 32.8 32.2 31.4 29.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.8 32.3 26.9 33.4 34.4 35.0 34.9 39.5 39.9 39.7

          39.6 40.0 39.6 39.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          39.2 39.5 40.0 40.0 39.5 39.9 39.6 34.7 35.5 34.5

          32.7 28.5 32.7 27.9
  15        1    2    3    4    5    6    7    8    9   10

          26.7 29.9 25.3 25.6 25.7 25.5 25.1 24.5 23.8 28.5

  16        1    2    3    4    5    6    7    8    9   10

          28.5 23.7 24.4 24.9 25.3 25.5 25.4 25.1 29.8 26.7

  17        1    2    3    4    5    6    7
          34.2 32.4 28.7 27.8 28.1 28.1 23.5
  18        1    2    3    4    5    6    7
          23.3 28.1 28.1 27.7 28.5 32.5 34.0
1

 RECEIVER    LEQ(H)   L10
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26          56.7   59.8

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          23.5 25.9 26.8 27.4 28.3 29.9
   2        1    2    3    4    5    6
          33.2 34.9 36.0 41.9 49.2 47.3
   3        1
          40.6
   4        1    2    3
          36.3 34.5 28.4
   5        1    2    3    4    5    6
          24.3 20.8 20.4 24.5 26.1 22.8
   6        1    2    3
          19.4 18.5 22.1
   7        1    2    3    4
          22.1 18.3 19.3 21.2
   8        1    2    3    4    5    6
          26.1 24.6 20.4 20.8 24.3 27.2
   9        1    2    3
          34.5 36.3 40.1
  10        1
          47.4
  11        1    2    3    4    5    6
          49.6 42.5 36.1 34.8 33.2 32.0
  12        1    2    3    4    5
          28.1 27.2 26.6 25.8 23.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.5 32.0 26.6 33.2 34.0 34.6 34.3 34.0 34.3 34.1

          34.5 34.8 34.2 36.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.4 34.2 34.7 34.9 33.9 34.3 34.2 34.1 35.1 34.2

          32.4 28.2 32.4 27.6
  15        1    2    3    4    5    6    7    8    9   10

          26.4 29.8 25.6 26.0 26.3 26.2 26.0 25.3 24.7 29.2

  16        1    2    3    4    5    6    7    8    9   10

          29.2 24.5 25.3 25.7 26.1 26.1 25.9 25.4 29.7 26.3

  17        1    2    3    4    5    6    7
          28.2 28.7 28.0 27.3 27.7 27.8 23.2
  18        1    2    3    4    5    6    7
          23.0 27.8 27.7 27.2 27.9 28.6 28.0
1

RECEIVER    LEQ(H)   L10
26b          56.7   58.7

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          28.0 30.2 30.9 31.4 32.4 34.2
   2        1    2    3    4    5    6
          37.6 37.9 34.5 37.2 35.9 48.1
   3        1
          46.1
   4        1    2    3
          42.2 40.5 34.5
   5        1    2    3    4    5    6
          30.5 27.0 26.6 30.8 32.5 29.1
   6        1    2    3
          25.6 24.6 28.1
   7        1    2    3    4
          28.1 24.3 25.4 27.5
   8        1    2    3    4    5    6
          32.5 30.9 26.7 27.0 30.5 33.3
   9        1    2    3
          40.4 42.1 45.3
  10        1
          47.4
  11        1    2    3    4    5    6
          38.1 38.1 34.4 36.0 37.5 36.3
  12        1    2    3    4    5
          32.2 31.4 30.9 30.2 28.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.2 31.6 26.2 32.7 33.5 34.2 34.1 34.0 38.3 38.6

          38.5 38.9 38.4 38.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          38.1 38.4 38.8 38.9 38.4 38.3 34.1 33.9 34.7 33.6

          31.9 27.8 32.0 27.3
  15        1    2    3    4    5    6    7    8    9   10

          25.8 29.0 24.5 24.8 25.0 24.9 24.7 24.2 23.6 28.4

  16        1    2    3    4    5    6    7    8    9   10

          28.4 23.5 24.1 24.5 24.7 24.8 24.7 24.3 28.9 25.8

  17        1    2    3    4    5    6    7
          30.9 27.8 27.2 26.4 26.9 27.1 22.6
  18        1    2    3    4    5    6    7
          22.3 27.1 26.9 26.3 27.1 27.7 30.9
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                 ************************
                        STAM2VU1
                      Version 1.20
                 ************************
                    STAMINA 2.0/BCR
          MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
              TRAFFIC NOISE PREDICTION MODEL

    MODIFIED TO:
      1.   ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
      2.   CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY
           USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
      3.   PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A
           DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE
           LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.
                 ************************
       MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
           BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
                  AND BOWLBY & ASSOCIATES, INC.
                     2014 BROADWAY, SUITE 210
                     NASHVILLE, TN 37203-2425
               TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE
HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK
CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE
*.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.

         (INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH )

 Meadowood - School 2nd Floor (Receivers 23-26)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

   HEIGHT      CODE          DESCRIPTION
     .00         1      RECEIVER HEIGHT ADJUSTMENT
    1.00         2      A-WEIGHTED SOUND LEVEL ONLY
     .00         3      HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
     .00         4      HEIGHT ADJUSTMENT FOR HEAVY TRUCKS   (HT)
     .00         5      HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS  (MT)
    .000         6      HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4)
                        CARS--CALVENO
                        C0 =       5.20  C1 =      38.80  S0 =        .00
   2.300         7      HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5)
                        MT--CALVENO
                        C0 =      35.30  C1 =      25.60  S0 =        .00
   8.000         8      HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6)
                        HT--CALVEN0
                        C0 =      50.40  C1 =      19.20  S0 =        .00


0ROADWAY   1      HRC nb (76 to Pankey)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS              0.          30.0
                       HT                0.          30.0
                       MT                0.          30.0
                       VEH4            415.          40.0
                       VEH5             13.          40.0
                       VEH6              9.          40.0
0                     ------------COORDINATES-------------
                         X           Y              Z     GRADE
 1                   6287767.4   2067284.0       276.0      0
 2                   6287704.7   2067456.2       276.0      0
 3                   6287629.7   2067702.5       279.0      0
 4                   6287568.8   2067936.5       284.0      0
 5                   6287512.3   2068148.3       284.0      0
 6                   6287446.9   2068359.4       282.0      0
 7                   6287374.5   2068606.6       279.0      0

0ROADWAY   2      HRC nb (Pankey to School)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS              0.          30.0
                       HT                0.          30.0
                       MT                0.          30.0
                       VEH4            695.          40.0
                       VEH5             22.          40.0
                       VEH6             15.          40.0
0                     ------------COORDINATES-------------
                         X           Y              Z     GRADE
 7                   6287374.5   2068606.6       279.0      0
 8                   6287273.9   2068832.6       278.0      0
 9                   6287137.9   2069057.7       278.0      0
 10                  6287017.0   2069263.4       280.0      0
 11                  6286760.9   2069688.9       285.0      0
 12                  6286533.2   2070137.4       290.0      0
 13                  6286310.7   2070587.7       296.0      0

0ROADWAY   3      HRC nb (School to 26)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS              0.          30.0
                       HT                0.          30.0
                       MT                0.          30.0
                       VEH4            689.          40.0
                       VEH5             22.          40.0
                       VEH6             15.          40.0
0                     ------------COORDINATES-------------
                         X           Y              Z     GRADE
 13                  6286310.7   2070587.7       296.0      0
 14                  6286086.4   2071030.0       302.0      0

0ROADWAY   4      HRC nb (26 to Harvest Glen)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS              0.          30.0
                       HT                0.          30.0
                       MT                0.          30.0
                       VEH4            634.          40.0
                       VEH5             20.          40.0
                       VEH6             13.          40.0
0                     ------------COORDINATES-------------
                         X           Y              Z     GRADE
 14                  6286086.4   2071030.0       302.0      0
 15                  6285859.5   2071475.8       308.0      0
 16                  6285540.8   2072106.2       311.0      0
 17                  6285403.1   2072385.2       310.0      0

0ROADWAY   5      HRC nb (Harvest Glen to Longspur)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS              0.          30.0
                       HT                0.          30.0
                       MT                0.          30.0
                       VEH4            488.          40.0
                       VEH5             15.          40.0
                       VEH6             10.          40.0
0                     ------------COORDINATES-------------
                         X           Y              Z     GRADE
 17                  6285403.1   2072385.2       310.0      0
 18                  6285328.1   2072574.1       310.0      0
 19                  6285298.0   2072673.9       310.0      0
 20                  6285270.7   2072773.6       311.0      0
 21                  6285221.2   2073078.2       314.0      0
 22                  6285201.8   2073673.3       322.0      0
 23                  6285188.6   2074037.0       338.0      0

0ROADWAY   6      HRC nb (Longspur to Baltimore)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS              0.          30.0
                       HT                0.          30.0
                       MT                0.          30.0
                       VEH4            347.          40.0
                       VEH5             11.          40.0
                       VEH6              7.          40.0
0                     ------------COORDINATES-------------
                         X           Y              Z     GRADE
 23                  6285188.6   2074037.0       338.0      0
 24                  6285145.3   2074308.9       346.0      0
 25                  6285056.1   2074546.4       351.0      0
 26                  6284650.0   2075149.4       356.0      0

0ROADWAY   7      HRC sb (Baltimore to Longspur)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS              0.          30.0
                       HT                0.          30.0
                       MT                0.          30.0
                       VEH4            347.          40.0
                       VEH5             11.          40.0
                       VEH6              7.          40.0
0                     ------------COORDINATES-------------
                         X           Y              Z     GRADE
 1                   6284621.8   2075132.6       356.0      0
 2                   6285015.5   2074527.9       351.0      0
 3                   6285099.4   2074300.1       346.0      0
 4                   6285141.8   2074033.5       338.0      0
 5                   6285159.4   2073671.5       322.0      0

0ROADWAY   8      HRC sb (Longspur to Harvest Glen)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS              0.          30.0
                       HT                0.          30.0
                       MT                0.          30.0
                       VEH4            488.          40.0
                       VEH5             15.          40.0
                       VEH6             10.          40.0
0                     ------------COORDINATES-------------
                         X           Y              Z     GRADE
 5                   6285159.4   2073671.5       322.0      0
 6                   6285181.5   2073072.9       314.0      0
 7                   6285228.3   2072759.5       311.0      0
 8                   6285256.5   2072658.0       310.0      0
 9                   6285287.4   2072557.3       310.0      0
 10                  6285368.7   2072369.3       310.0      0
 11                  6285504.6   2072087.7       311.0      0

0ROADWAY   9      HRC sb (Harvest Glen to 26)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS              0.          30.0
                       HT                0.          30.0
                       MT                0.          30.0
                       VEH4            634.          40.0
                       VEH5             20.          40.0
                       VEH6             13.          40.0
0                     ------------COORDINATES-------------
                         X           Y              Z     GRADE
 11                  6285504.6   2072087.7       311.0      0
 12                  6285818.9   2071457.3       308.0      0
 13                  6286045.8   2071007.9       302.0      0
 14                  6286269.2   2070567.4       296.0      0

0ROADWAY  10      HRC sb (26 to School)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS              0.          30.0
                       HT                0.          30.0
                       MT                0.          30.0
                       VEH4            689.          40.0
                       VEH5             22.          40.0
                       VEH6             14.          40.0
0                     ------------COORDINATES-------------
                         X           Y              Z     GRADE
 14                  6286269.2   2070567.4       296.0      0
 15                  6286493.4   2070122.4       290.0      0

0ROADWAY  11      HRC sb (School to Pankey)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS              0.          30.0
                       HT                0.          30.0
                       MT                0.          30.0
                       VEH4            695.          40.0
                       VEH5             22.          40.0
                       VEH6             15.          40.0
0                     ------------COORDINATES-------------
                         X           Y              Z     GRADE
 15                  6286493.4   2070122.4       290.0      0
 16                  6286720.3   2069667.7       285.0      0
 17                  6286977.2   2069239.6       280.0      0
 18                  6287102.6   2069033.0       278.0      0
 19                  6287238.6   2068813.1       278.0      0
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 20                      6287334.8   2068585.4      279.0       0
 21                      6287408.1   2068344.3      282.0       0

0ROADWAY  12      HRC sb (Pankey to 76)

                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                        CARS                 0.        30.0
                        HT                   0.        30.0
                        MT                   0.        30.0
                        VEH4               415.        40.0
                        VEH5                13.        40.0
                        VEH6                 9.        40.0
0                     ------------COORDINATES-------------
                         X           Y             Z    GRADE
 21                      6287408.1   2068344.3      282.0       0
 22                      6287465.5   2068135.1      284.0       0
 23                      6287525.5   2067923.2      284.0       0
 24                      6287585.5   2067689.3      279.0       0
 25                      6287658.8   2067442.1      276.0       0
 26                      6287712.7   2067264.6      276.0       0

0ROADWAY  13      SR-76 eastbound

                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                        CARS                 0.        30.0
                        HT                   0.        30.0
                        MT                   0.        30.0
                        VEH4               877.        55.0
                        VEH5                48.        55.0
                        VEH6               102.        55.0
0                     ------------COORDINATES-------------
                         X           Y             Z    GRADE
 1                       6285343.2   2066573.4      260.0       0
 2                       6285453.8   2066619.2      260.0       0
 3                       6285731.0   2066734.9      260.0       0
 4                       6285804.7   2066766.7      260.0       0
 5                       6286102.2   2066891.3      264.0       0
 6                       6286411.1   2067020.9      269.0       0
 7                       6286732.8   2067107.4      274.0       0
 8                       6287029.0   2067131.5      275.0       0
 9                       6287307.4   2067153.2      276.0       0
 10                      6287604.9   2067197.7      277.0       0
 11                      6287877.0   2067284.1      278.0       0
 12                      6288121.1   2067404.9      278.5       0
 13                      6288353.7   2067568.9      279.0       0
 14                      6288530.5   2067735.4      280.0       0
 15                      6288663.9   2067896.9      280.0       0

0ROADWAY  14      SR-76 westbound

                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                        CARS                 0.        30.0
                        HT                   0.        30.0
                        MT                   0.        30.0
                        VEH4               877.        55.0
                        VEH5                48.        55.0
                        VEH6               102.        55.0
0                     ------------COORDINATES-------------
                         X           Y             Z    GRADE
 1                       6288633.4   2067914.7      280.0       0
 2                       6288502.5   2067755.8      280.0       0
 3                       6288330.9   2067594.3      279.0       0
 4                       6288107.1   2067437.9      278.5       0
 5                       6287847.7   2067310.8      278.0       0
 6                       6287596.0   2067232.0      277.0       0
 7                       6287306.2   2067190.0      276.0       0
 8                       6287023.9   2067168.4      275.0       0
 9                       6286746.8   2067144.3      274.0       0
 10                      6286395.9   2067052.7      269.0       0
 11                      6286083.1   2066921.8      264.0       0
 12                      6285841.6   2066821.3      260.0       0
 13                      6285738.6   2066778.1      260.0       0
 14                      6285441.1   2066653.5      260.0       0
 15                      6285330.5   2066606.5      260.0       0

0ROADWAY  15      Pala Mesa northbound

                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                        CARS                 0.        30.0
                        HT                   0.        30.0
                        MT                   0.        30.0
                        VEH4               229.        45.0
                        VEH5                 7.        45.0
                        VEH6                 5.        45.0
0                     ------------COORDINATES-------------
                         X           Y             Z    GRADE
 1                       6286331.5   2067087.9      276.0       0
 2                       6286125.7   2067571.3      268.0       0
 3                       6285838.3   2068252.8      284.0       0
 4                       6285745.1   2068433.4      288.0       0
 5                       6285618.9   2068594.6      292.0       0
 6                       6285471.4   2068740.2      296.0       0
 7                       6285300.5   2068854.7      300.0       0
 8                       6285108.3   2068936.3      304.0       0
 9                       6284908.3   2068984.8      308.0       0
 10                      6284702.5   2069002.3      312.0       0
 11                      6283840.4   2069023.6      318.0       0

0ROADWAY  16      Pala Mesa southbound

                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                        CARS                 0.        30.0
                        HT                   0.        30.0
                        MT                   0.        30.0
                        VEH4               229.        45.0
                        VEH5                 7.        45.0
                        VEH6                 5.        45.0
0                     ------------COORDINATES-------------
                         X           Y             Z    GRADE
 1                       6283838.5   2069002.3      318.0       0
 2                       6284702.5   2068980.9      312.0       0
 3                       6284904.4   2068965.4      308.0       0
 4                       6285104.4   2068916.9      304.0       0
 5                       6285288.9   2068835.3      300.0       0
 6                       6285457.8   2068722.7      296.0       0
 7                       6285605.3   2068582.9      292.0       0
 8                       6285727.7   2068419.8      288.0       0
 9                       6285817.0   2068241.2      284.0       0
 10                      6286098.5   2067559.7      268.0       0
 11                      6286300.4   2067072.4      276.0       0

0ROADWAY  17      Pankey westbound

                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                        CARS                 0.        30.0
                        HT                   0.        30.0
                        MT                   0.        30.0
                        VEH4               314.        45.0
                        VEH5                10.        45.0
                        VEH6                 7.        45.0
0                     ------------COORDINATES-------------
                         X           Y             Z    GRADE
 1                       6287324.0   2068517.0      280.0       0
 2                       6287161.1   2068460.3      276.0       0
 3                       6286985.2   2068362.3      272.0       0
 4                       6286825.8   2068239.5      270.0       0
 5                       6286684.1   2068102.5      272.0       0
 6                       6286501.1   2067920.7      270.0       0
 7                       6286255.5   2067692.9      268.0       0
 8                       6286131.6   2067622.0      268.0       0

0ROADWAY  18      Pankey eastbound

                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                        CARS                 0.        30.0
                        HT                   0.        30.0
                        MT                   0.        30.0
                        VEH4               314.        45.0
                        VEH5                10.        45.0
                        VEH6                 7.        45.0
0                     ------------COORDINATES-------------
                         X           Y             Z    GRADE
 1                       6286146.9   2067609.0      268.0       0
 2                       6286265.0   2067676.3      268.0       0
 3                       6286514.1   2067905.4      270.0       0
 4                       6286698.3   2068089.6      272.0       0
 5                       6286839.9   2068224.2      270.0       0
 6                       6286993.4   2068348.1      272.0       0
 7                       6287172.9   2068437.9      276.0       0
 8                       6287331.1   2068498.1      280.0       0
1
 BARRIER   1   TYPE(A)     School Pad Edges 1

           ---------COORDINATES----------
               X          Y           Z          Z0        DELZ          P
 1         6287131.7 2069541.1     291.0      283.0        1.0          3
 2         6286944.3 2069454.4     291.0      283.0
 3         6286794.9 2069695.7     297.0      289.0
 4         6286649.9 2069981.4     303.0      295.0
 5         6286535.1 2070224.4     308.0      300.0
 6         6286656.2 2070294.3     308.0      300.0
1
 Sch Rec @ 15'

                      ------------COORDINATES-------------
                         X           Y             Z
 23                      6286963.7   2069559.7      300.0
 24                      6287084.6   2069633.1      300.0
 25                      6286778.4   2069903.1      308.0
 25b                     6286967.5   2069991.2      308.0
 25c                     6287154.9   2070081.6      308.0
 26                      6286629.3   2070142.5      313.0
 26b                     6287051.2   2070386.2      313.0
1
  ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

   1 *   .0   .0   .0   .0   .0   .0   .0
   2 *   .0   .0   .0   .0   .0   .0   .0
   3 *   .0   .0   .0   .0   .0   .0   .0
   4 *   .0   .0   .0   .0   .0   .0   .0
   5 *   .0   .0   .0   .0   .0   .0   .0
   6 *   .0   .0   .0   .0   .0   .0   .0
   7 *   .0   .0   .0   .0   .0   .0   .0
   8 *   .0   .0   .0   .0   .0   .0   .0
   9 *   .0   .0   .0   .0   .0   .0   .0
  10 *   .0   .0   .0   .0   .0   .0   .0
  11 *   .0   .0   .0   .0   .0   .0   .0
  12 *   .0   .0   .0   .0   .0   .0   .0
  13 *   .0   .0   .0   .0   .0   .0   .0
  14 *   .0   .0   .0   .0   .0   .0   .0
  15 *   .0   .0   .0   .0   .0   .0   .0
  16 *   .0   .0   .0   .0   .0   .0   .0
  17 *   .0   .0   .0   .0   .0   .0   .0
  18 *   .0   .0   .0   .0   .0   .0   .0
1
  SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

   1 *   .0   .0   .0   .0   .0   .0   .0
   2 *   .0   .0   .0   .0   .0   .0   .0
   3 *   .0   .0   .0   .0   .0   .0   .0
   4 *   .0   .0   .0   .0   .0   .0   .0
   5 *   .0   .0   .0   .0   .0   .0   .0
   6 *   .0   .0   .0   .0   .0   .0   .0
   7 *   .0   .0   .0   .0   .0   .0   .0
   8 *   .0   .0   .0   .0   .0   .0   .0
   9 *   .0   .0   .0   .0   .0   .0   .0
  10 *   .0   .0   .0   .0   .0   .0   .0
  11 *   .0   .0   .0   .0   .0   .0   .0
  12 *   .0   .0   .0   .0   .0   .0   .0
  13 *   .0   .0   .0   .0   .0   .0   .0
  14 *   .0   .0   .0   .0   .0   .0   .0
  15 *   .0   .0   .0   .0   .0   .0   .0
  16 *   .0   .0   .0   .0   .0   .0   .0
  17 *   .0   .0   .0   .0   .0   .0   .0
  18 *   .0   .0   .0   .0   .0   .0   .0
1
 RECEIVER     LEQ(H)   L10
 23             62.2   65.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1          1    2    3    4    5    6
            30.9 33.4 34.3 35.2 36.6 39.0
    2          1    2    3    4    5    6
            43.4 46.3 48.7 55.9 45.9 38.4
    3          1
            35.5
    4          1    2    3
            33.2 32.4 26.9
    5          1    2    3    4    5    6
            23.0 19.5 19.2 23.4 25.3 26.2
    6          1    2    3
            23.8 22.9 26.5
    7          1    2    3    4
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          26.3 22.7 23.7 23.1
   8        1    2    3    4    5    6
          25.3 23.5 19.3 19.6 23.0 25.8
   9        1    2    3
          32.4 33.2 35.7
  10        1
          40.0
  11        1    2    3    4    5    6
          47.7 55.9 48.4 46.1 43.3 41.2
  12        1    2    3    4    5
          36.5 35.2 34.3 33.4 30.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          34.5 39.0 33.7 40.3 41.2 41.8 41.6 41.4 41.7 41.4

          41.2 41.5 40.9 40.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          40.4 40.9 41.4 41.6 41.2 41.7 41.6 41.5 42.3 41.3

          39.5 35.3 39.4 34.5
  15        1    2    3    4    5    6    7    8    9   10

          33.9 37.4 32.9 33.1 33.1 32.6 32.0 31.2 30.3 34.7

  16        1    2    3    4    5    6    7    8    9   10

          34.7 30.2 31.1 31.8 32.5 32.9 33.0 32.7 37.3 33.9

  17        1    2    3    4    5    6    7
          37.6 37.9 37.1 36.0 36.0 35.7 30.9
  18        1    2    3    4    5    6    7
          30.7 35.7 35.9 35.9 36.9 37.7 37.3
1

 RECEIVER    LEQ(H)   L10
 24           59.3   61.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          30.7 33.2 34.2 35.0 36.4 38.8
   2        1    2    3    4    5    6
          43.1 44.7 46.2 49.4 41.8 36.4
   3        1
          35.4
   4        1    2    3
          33.2 36.1 32.2
   5        1    2    3    4    5    6
          28.3 24.9 24.6 28.8 30.6 27.3
   6        1    2    3
          23.9 22.9 26.6
   7        1    2    3    4
          26.6 22.7 23.7 25.8
   8        1    2    3    4    5    6
          30.6 28.9 24.6 24.9 28.3 31.0
   9        1    2    3
          33.1 33.2 34.9
  10        1
          37.6
  11        1    2    3    4    5    6
          44.1 49.3 45.7 44.3 42.9 40.9
  12        1    2    3    4    5
          36.3 35.0 34.1 33.2 30.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.4 37.3 32.1 39.5 40.8 41.4 41.3 41.1 41.5 41.3

          41.1 41.5 40.9 40.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          40.5 40.9 41.4 41.5 41.1 41.5 41.3 41.2 41.9 41.0

          38.7 33.7 37.6 32.4
  15        1    2    3    4    5    6    7    8    9   10

          31.8 34.2 29.7 29.9 29.9 29.4 28.8 28.0 27.3 31.8

  16        1    2    3    4    5    6    7    8    9   10

          31.8 27.2 28.0 28.6 29.3 29.7 29.8 29.5 34.1 31.7

  17        1    2    3    4    5    6    7
          37.2 37.4 36.0 34.5 34.6 34.2 28.8
  18        1    2    3    4    5    6    7
          28.7 34.2 34.7 34.5 35.9 37.2 36.9
1

 RECEIVER    LEQ(H)   L10
 25           59.9   63.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          28.3 30.7 31.8 32.2 32.8 33.5
   2        1    2    3    4    5    6
          36.3 37.8 39.4 47.3 52.6 43.4
   3        1
          39.3
   4        1    2    3
          35.9 34.4 28.6
   5        1    2    3    4    5    6
          24.6 21.1 20.8 25.0 26.7 23.3
   6        1    2    3
          19.9 19.0 22.7
   7        1    2    3    4
          22.7 18.8 19.8 21.7
   8        1    2    3    4    5    6
          26.6 25.0 20.8 21.2 24.6 27.4
   9        1    2    3
          34.4 35.9 38.9
  10        1
          44.8
  11        1    2    3    4    5    6
          53.8 48.5 39.6 37.7 36.3 35.6
  12        1    2    3    4    5
          32.8 32.2 31.7 30.7 28.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          33.7 38.2 32.8 39.3 40.1 40.6 39.9 39.7 39.8 39.4

          39.3 39.5 38.9 38.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          38.3 38.9 39.5 39.7 39.2 39.8 39.8 39.8 41.1 40.3

          38.5 34.4 38.6 33.8
  15        1    2    3    4    5    6    7    8    9   10

          32.8 36.4 32.1 32.5 32.7 32.5 32.1 31.3 30.6 35.0

  16        1    2    3    4    5    6    7    8    9   10

          35.0 30.4 31.3 31.8 32.3 32.5 32.4 31.9 36.3 32.7

  17        1    2    3    4    5    6    7
          32.0 32.3 31.9 31.6 32.9 33.6 29.7
  18        1    2    3    4    5    6    7
          29.4 33.6 32.9 31.5 31.8 32.2 31.9
1

 RECEIVER    LEQ(H)   L10
 25b          56.8   58.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          28.1 30.6 31.7 32.1 32.7 33.3
   2        1    2    3    4    5    6
          36.1 37.6 38.9 43.2 42.7 40.2
   3        1
          43.6
   4        1    2    3
          40.8 39.3 33.5
   5        1    2    3    4    5    6
          29.5 26.1 25.7 29.9 31.6 28.2
   6        1    2    3
          24.8 23.8 27.4
   7        1    2    3    4
          27.4 23.6 24.6 26.7
   8        1    2    3    4    5    6
          31.6 30.0 25.7 26.1 29.5 32.3
   9        1    2    3
          39.2 40.7 41.6
  10        1
          40.7
  11        1    2    3    4    5    6
          45.0 44.2 38.8 37.4 36.1 35.4
  12        1    2    3    4    5
          32.6 32.1 31.7 30.5 28.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.9 34.4 29.0 35.8 37.0 38.2 38.4 38.5 39.4 39.4

          39.6 40.0 39.5 39.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          39.1 39.5 40.0 39.9 39.1 39.1 38.7 38.2 38.7 37.1

          35.0 30.6 34.8 30.0
  15        1    2    3    4    5    6    7    8    9   10

          28.7 32.3 28.0 28.5 28.6 28.5 28.2 27.6 27.0 31.7

  16        1    2    3    4    5    6    7    8    9   10

          31.7 26.9 27.6 28.0 28.3 28.4 28.4 27.9 32.2 28.6

  17        1    2    3    4    5    6    7
          32.0 31.5 30.2 29.3 30.0 30.0 25.4
  18        1    2    3    4    5    6    7
          25.2 30.0 30.0 29.3 30.1 31.4 31.8
1

 RECEIVER    LEQ(H)   L10
 25c          56.7   58.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          29.1 31.4 32.2 32.8 33.9 35.9
   2        1    2    3    4    5    6
          39.5 41.6 39.4 40.6 38.0 43.4
   3        1
          43.9
   4        1    2    3
          40.4 39.1 33.3
   5        1    2    3    4    5    6
          29.4 26.0 25.6 29.8 31.6 28.2
   6        1    2    3
          24.8 23.8 27.4
   7        1    2    3    4
          27.4 23.6 24.6 26.7
   8        1    2    3    4    5    6
          31.6 29.9 25.6 26.0 29.4 32.2
   9        1    2    3
          39.0 40.4 43.3
  10        1
          42.2
  11        1    2    3    4    5    6
          40.5 41.4 37.8 41.1 39.4 38.0
  12        1    2    3    4    5
          33.8 32.8 32.1 31.4 29.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.0 33.5 28.1 34.9 36.3 37.7 37.9 39.5 39.9 39.7

          39.6 40.0 39.6 39.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          39.2 39.5 40.0 40.0 39.5 39.9 39.6 37.7 38.1 36.4

          34.1 29.7 33.9 29.0
  15        1    2    3    4    5    6    7    8    9   10

          28.0 31.1 26.5 26.7 26.9 26.7 26.4 25.9 25.3 30.1

  16        1    2    3    4    5    6    7    8    9   10

          30.1 25.2 25.8 26.2 26.6 26.7 26.6 26.3 31.0 27.9

  17        1    2    3    4    5    6    7
          34.2 32.7 29.6 28.6 29.1 29.0 24.4
  18        1    2    3    4    5    6    7
          24.2 29.0 29.2 28.6 29.5 32.8 34.0
1

 RECEIVER    LEQ(H)   L10
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26            60.8   64.0

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           26.1 28.5 30.0 30.4 30.7 31.3
   2        1    2    3    4    5    6
           34.0 35.4 36.6 43.2 53.4 51.5
   3        1
           43.5
   4        1    2    3
           39.4 37.9 31.9
   5        1    2    3    4    5    6
           27.7 24.2 23.8 28.0 29.7 26.4
   6        1    2    3
           23.4 22.5 26.2
   7        1    2    3    4
           26.2 22.3 23.2 24.9
   8        1    2    3    4    5    6
           29.7 28.1 23.9 24.2 27.7 30.7
   9        1    2    3
           37.8 39.4 42.9
  10        1
           52.3
  11        1    2    3    4    5    6
           54.4 44.1 36.8 35.3 34.0 33.4
  12        1    2    3    4    5
           30.3 30.0 29.7 28.5 26.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           33.2 37.7 32.3 38.7 39.4 39.8 39.4 39.1 38.5 37.3

           38.1 38.3 37.7 37.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           37.6 37.7 38.3 38.4 37.1 38.4 39.3 39.2 40.3 39.5

           37.9 33.8 38.1 33.3
  15        1    2    3    4    5    6    7    8    9   10

           32.0 35.6 31.4 31.9 32.2 32.2 31.9 31.3 30.6 35.2

  16        1    2    3    4    5    6    7    8    9   10

           35.1 30.5 31.3 31.7 32.0 32.0 31.8 31.2 35.5 32.0

  17        1    2    3    4    5    6    7
           29.6 30.3 30.8 30.9 32.7 33.3 28.9
  18        1    2    3    4    5    6    7
           28.6 33.3 32.6 30.8 30.6 30.2 29.4
1

 RECEIVER    LEQ(H)   L10
 26b          56.9   58.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            28.0 30.2 30.9 31.4 32.4 34.2
    2        1    2    3    4    5    6
            37.6 37.9 35.0 37.7 36.4 48.1
    3        1
            46.1
    4        1    2    3
            42.2 40.5 34.5
    5        1    2    3    4    5    6
            30.5 27.0 26.6 30.8 32.5 29.1
    6        1    2    3
            25.6 24.6 28.1
    7        1    2    3    4
            28.1 24.3 25.4 27.5
    8        1    2    3    4    5    6
            32.5 30.9 26.7 27.0 30.5 33.3
    9        1    2    3
            40.4 42.1 45.3
   10        1
            47.4
   11        1    2    3    4    5    6
            39.0 38.7 34.9 36.2 37.5 36.3
   12        1    2    3    4    5
            32.2 31.4 30.9 30.2 28.0
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            27.9 32.3 26.9 33.6 34.9 36.0 36.3 36.4 38.5 38.6

            38.5 38.9 38.4 38.0
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            38.1 38.4 38.8 38.9 38.4 38.5 36.6 36.0 36.4 34.9

            32.8 28.5 32.7 28.0
   15        1    2    3    4    5    6    7    8    9   10

            26.4 29.7 25.3 25.7 25.9 25.8 25.7 25.2 24.7 29.6

   16        1    2    3    4    5    6    7    8    9   10

            29.6 24.6 25.2 25.4 25.7 25.8 25.6 25.1 29.6 26.4

   17        1    2    3    4    5    6    7
            31.1 28.6 27.7 26.9 27.5 27.6 23.1
   18        1    2    3    4    5    6    7
            22.9 27.6 27.5 26.8 27.6 28.6 31.1
```

```
                    *************************
                          OPTIMA-VU1
                    *************************
                BARRIER OPTIMIZATION PROGRAM USING
               PARTIAL SOUND ENERGIES COMPUTED BY THE
                      STAMINA 2.0 PROGRAM
          MODIFIED FROM THE FHWA VAX VERSON -- MARCH 1983

      MODIFIED TO:
         1.   PLACE BARRIER COST DATA IN A DATA FILE CALLED
              OPTCOST.DTA TO ALLOW USER TO USE COSTS OTHER THAN
              THE FHWA NATIONAL AVERAGES.
                    *************************
         MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
                      IN JUNE 1991 BY
         VANDERBILT ENGINEERING CENTER FOR TRANSPORTATION
              OPERATIONS AND RESEARCH (VECTOR)
      BOX 96-B, VANDERBILT UNIVERSITY, NASHVILLE, TENNESSEE 37235
                      (615) 322-3683
                    *************************

    PROBLEM TITLE
    *************
 Meadowood - School 1st Floor (Receivers 23-26)No 15

              EFFECTIVENESS/COST RATIO AND BARRIER HEIGHT MATRICES
              ****************************************************
BARRIER SECTION        EFFECTIVENESS/COST                    CORRESPONDING
   NO  IDENT                  RATIO                          BARRIER HEIGHTS(IN
FT)

 HEIGHT INDEX   1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8
    1  1          *  27.  23.  23.  24.  24.  23.  22.  0. 5. 6. 7. 8.
9.10.11.
    2  2          *  28.  25.  25.  25.  25.  23.  22.  0. 5. 6. 7. 8.
9.10.11.
    3  3          *  26.  24.  24.  23.  22.  21.  19.  0. 5. 6. 7. 8.
9.10.11.
    4  4          *  27.  25.  24.  23.  22.  21.  19.  0. 5. 6. 7. 8.
9.10.11.
    5  5          *  21.  21.  21.  21.  20.  19.  17.  0. 5. 6. 7. 8.
9.10.11.

 HEIGHT INDEX   1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8

 Meadowood - School 1st Floor (Receivers 23-26)No 15


 BARRIER HEIGHT INDEX FOR EACH BARRIER SECTION
   6  6  5  5  5
 CORRESPONDING BARRIER HEIGHTS FOR EACH SECTION
  9. 9. 8. 8. 8.

     R E S U L T S
     *************

 REC    REC ID        LEQ      LEQ(Z(0))      IL
   1    23            57.6      63.9          6.3
   2    24            56.0      60.6          4.5
   3    25            56.5      62.3          5.7
   4    25b           55.5      58.4          2.9
   5    25c           56.4      57.6          1.2
   6    26            56.7      62.2          5.6
   7    26b           56.6      57.4           .7

 BARRIER TYPE         COST                AREA (SQ. FT.)
 FH-BERM                 0.                  0.
 FH-MASON             52900.              10247.
 FH-WOOD                 0.                  0.
 FH-CONC                 0.                  0.
 FH-STEEL                0.                  0.
*******************************************************************
  TOTALS:        $    52900.              10247.

 END OF ALL CASES
```

```
                    ************************
                         OPTIMA-VU1
                    ************************
                BARRIER OPTIMIZATION PROGRAM USING
               PARTIAL SOUND ENERGIES COMPUTED BY THE
                      STAMINA 2.0 PROGRAM
          MODIFIED FROM THE FHWA VAX VERSON -- MARCH 1983

      MODIFIED TO:
         1.   PLACE BARRIER COST DATA IN A DATA FILE CALLED
              OPTCOST.DTA TO ALLOW USER TO USE COSTS OTHER THAN
              THE FHWA NATIONAL AVERAGES.
                    ************************
         MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
                      IN JUNE 1991 BY
         VANDERBILT ENGINEERING CENTER FOR TRANSPORTATION
              OPERATIONS AND RESEARCH (VECTOR)
      BOX 96-B, VANDERBILT UNIVERSITY, NASHVILLE, TENNESSEE 37235
                      (615) 322-3683
                    ************************

    PROBLEM TITLE
    *************
 Meadowood - School 2nd Floor (Receivers 23-26)No 15

              EFFECTIVENESS/COST RATIO AND BARRIER HEIGHT MATRICES
              ****************************************************
BARRIER SECTION        EFFECTIVENESS/COST                  CORRESPONDING
   NO  IDENT                  RATIO                        BARRIER HEIGHTS(IN
FT)

 HEIGHT INDEX   1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8
    1  1          *  26.  27.  29.  29.  27.  24.  23.  0. 5. 6. 7. 8.
9.10.11.
    2  2          *  29.  29.  30.  28.  27.  25.  24.  0. 5. 6. 7. 8.
9.10.11.
    3  3          *  29.  27.  26.  25.  25.  23.  22.  0. 5. 6. 7. 8.
9.10.11.
    4  4          *  30.  29.  28.  27.  26.  25.  24.  0. 5. 6. 7. 8.
9.10.11.
    5  5          *  25.  24.  24.  22.  21.  20.  19.  0. 5. 6. 7. 8.
9.10.11.

 HEIGHT INDEX   1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8

 Meadowood - School 2nd Floor (Receivers 23-26)No 15


 BARRIER HEIGHT INDEX FOR EACH BARRIER SECTION
   6  6  5  5  5
 CORRESPONDING BARRIER HEIGHTS FOR EACH SECTION
  9. 9. 8. 8. 8.

     R E S U L T S
     *************

 REC    REC ID        LEQ      LEQ(Z(0))      IL
   1    23            61.6      65.8          4.2
   2    24            58.8      61.7          2.9
   3    25            59.7      64.4          4.7
   4    25b           56.5      59.7          3.2
   5    25c           56.6      58.3          1.6
   6    26            60.8      65.6          4.9
   7    26b           56.8      58.0          1.1

 BARRIER TYPE         COST                AREA (SQ. FT.)
 FH-BERM                 0.                  0.
 FH-MASON             52900.              10247.
 FH-WOOD                 0.                  0.
 FH-CONC                 0.                  0.
 FH-STEEL                0.                  0.
*****************************************************************
  TOTALS:        $    52900.              10247.

 END OF ALL CASES
```

```
                    *************************
                           STAM2VU1
                         Version 1.20
                    *************************
                       STAMINA 2.0/BCR
              MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
                 TRAFFIC NOISE PREDICTION MODEL

        MODIFIED TO:
          1.   ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
          2.   CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY
               USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
          3.   PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A
               DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE
               LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.
                    *************************
           MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
               BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
                     AND BOWLBY & ASSOCIATES, INC.
                       2014 BROADWAY, SUITE 210
                       NASHVILLE, TN 37203-2425
                  TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE
HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK
CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE
*.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.


         (INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH )


 Meadowood - Multi-Family 1st Floor (Receivers 27-41)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

     HEIGHT      CODE          DESCRIPTION
       .00         1       RECEIVER HEIGHT ADJUSTMENT
      1.00         2       A-WEIGHTED SOUND LEVEL ONLY
       .00         3       HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
       .00         4       HEIGHT ADJUSTMENT FOR HEAVY TRUCKS   (HT)
       .00         5       HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS  (MT)
      .000         6       HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4)
                           CARS--CALVENO
                           C0 =       5.20  C1 =      38.80  S0 =         .00
     2.300         7       HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5)
                           MT--CALVENO
                           C0 =      35.30  C1 =      25.60  S0 =         .00
     8.000         8       HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6)
                           HT--CALVENO
                           C0 =      50.40  C1 =      19.20  S0 =         .00


0ROADWAY   1      HRC nb (76 to Pankey)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                0.       30.0
                         HT                  0.       30.0
                         MT                  0.       30.0
                         VEH4              415.       40.0
                         VEH5               13.       40.0
                         VEH6                9.       40.0
0                      ------------COORDINATES------------
                           X           Y            Z      GRADE
 1                     6287767.4   2067284.0      276.0      0
 2                     6287704.7   2067456.2      276.0      0
 3                     6287629.7   2067702.5      279.0      0
 4                     6287568.8   2067936.5      284.0      0
 5                     6287512.3   2068148.3      284.0      0
 6                     6287446.9   2068359.4      282.0      0
 7                     6287374.5   2068606.6      279.0      0

0ROADWAY   2      HRC nb (Pankey to School)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                0.       30.0
                         HT                  0.       30.0
                         MT                  0.       30.0
                         VEH4              695.       40.0
                         VEH5               22.       40.0
                         VEH6               15.       40.0
0                      ------------COORDINATES------------
                           X           Y            Z      GRADE
 7                     6287374.5   2068606.6      279.0      0
 8                     6287273.9   2068832.6      278.0      0
 9                     6287137.9   2069057.7      278.0      0
 10                    6287017.0   2069263.4      280.0      0
 11                    6286760.9   2069688.9      285.0      0
 12                    6286533.2   2070137.4      290.0      0
 13                    6286310.7   2070587.7      296.0      0

0ROADWAY   3      HRC nb (School to 26)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                0.       30.0
                         HT                  0.       30.0
                         MT                  0.       30.0
                         VEH4              689.       40.0
                         VEH5               22.       40.0
                         VEH6               15.       40.0
0                      ------------COORDINATES------------
                           X           Y            Z      GRADE
 13                    6286310.7   2070587.7      296.0      0
 14                    6286086.4   2071030.0      302.0      0

0ROADWAY   4      HRC nb (26 to Harvest Glen)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                0.       30.0
                         HT                  0.       30.0
                         MT                  0.       30.0
                         VEH4              634.       40.0
                         VEH5               20.       40.0
                         VEH6               13.       40.0
0                      ------------COORDINATES------------
                           X           Y            Z      GRADE
 14                    6286086.4   2071030.0      302.0      0
 15                    6285859.5   2071475.8      308.0      0
 16                    6285540.8   2072106.2      311.0      0
 17                    6285403.1   2072385.2      310.0      0

0ROADWAY   5      HRC nb (Harvest Glen to Longspur)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                0.       30.0
                         HT                  0.       30.0
                         MT                  0.       30.0
                         VEH4              488.       40.0
                         VEH5               15.       40.0
                         VEH6               10.       40.0
0                      ------------COORDINATES------------
                           X           Y            Z      GRADE
 17                    6285403.1   2072385.2      310.0      0
 18                    6285328.1   2072574.1      310.0      0
 19                    6285298.0   2072673.9      310.0      0
 20                    6285270.7   2072773.6      311.0      0
 21                    6285221.2   2073078.2      314.0      0
 22                    6285201.8   2073673.3      322.0      0
 23                    6285188.6   2074037.0      338.0      0

0ROADWAY   6      HRC nb (Longspur to Baltimore)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                0.       30.0
                         HT                  0.       30.0
                         MT                  0.       30.0
                         VEH4              347.       40.0
                         VEH5               11.       40.0
                         VEH6                7.       40.0
0                      ------------COORDINATES------------
                           X           Y            Z      GRADE
 23                    6285188.6   2074037.0      338.0      0
 24                    6285145.3   2074308.9      346.0      0
 25                    6285056.1   2074546.4      351.0      0
 26                    6284650.0   2075149.4      356.0      0

0ROADWAY   7      HRC sb (Baltimore to Longspur)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                0.       30.0
                         HT                  0.       30.0
                         MT                  0.       30.0
                         VEH4              347.       40.0
                         VEH5               11.       40.0
                         VEH6                7.       40.0
0                      ------------COORDINATES------------
                           X           Y            Z      GRADE
 1                     6284621.8   2075132.6      356.0      0
 2                     6285015.5   2074527.9      351.0      0
 3                     6285099.4   2074300.1      346.0      0
 4                     6285141.8   2074033.5      338.0      0
 5                     6285159.4   2073671.5      322.0      0

0ROADWAY   8      HRC sb (Longspur to Harvest Glen)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                0.       30.0
                         HT                  0.       30.0
                         MT                  0.       30.0
                         VEH4              488.       40.0
                         VEH5               15.       40.0
                         VEH6               10.       40.0
0                      ------------COORDINATES------------
                           X           Y            Z      GRADE
 5                     6285159.4   2073671.5      322.0      0
 6                     6285181.5   2073072.9      314.0      0
 7                     6285228.3   2072759.5      311.0      0
 8                     6285256.5   2072658.0      310.0      0
 9                     6285287.4   2072557.3      310.0      0
 10                    6285368.7   2072369.3      310.0      0
 11                    6285504.6   2072087.7      311.0      0

0ROADWAY   9      HRC sb (Harvest Glen to 26)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                0.       30.0
                         HT                  0.       30.0
                         MT                  0.       30.0
                         VEH4              634.       40.0
                         VEH5               20.       40.0
                         VEH6               13.       40.0
0                      ------------COORDINATES------------
                           X           Y            Z      GRADE
 11                    6285504.6   2072087.7      311.0      0
 12                    6285818.9   2071457.3      308.0      0
 13                    6286045.8   2071007.9      302.0      0
 14                    6286269.2   2070567.4      296.0      0

0ROADWAY  10      HRC sb (26 to School)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                0.       30.0
                         HT                  0.       30.0
                         MT                  0.       30.0
                         VEH4              689.       40.0
                         VEH5               22.       40.0
                         VEH6               14.       40.0
0                      ------------COORDINATES------------
                           X           Y            Z      GRADE
 14                    6286269.2   2070567.4      296.0      0
 15                    6286493.4   2070122.4      290.0      0

0ROADWAY  11      HRC sb (School to Pankey)

                    VEHICLE TYPE   VEHICLES/HOUR     SPEED
                         CARS                0.       30.0
                         HT                  0.       30.0
                         MT                  0.       30.0
                         VEH4              695.       40.0
                         VEH5               22.       40.0
                         VEH6               15.       40.0
0                      ------------COORDINATES------------
                           X           Y            Z      GRADE
 15                    6286493.4   2070122.4      290.0      0
 16                    6286720.3   2069667.7      285.0      0
 17                    6286977.2   2069239.6      280.0      0
 18                    6287102.6   2069033.0      278.0      0
 19                    6287238.6   2068813.1      278.0      0
```

20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0

	COORDINATES X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

1

BARRIER 1 TYPE(A) Pad Edges 1

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286634.5	2070357.0	305.0	305.0	.0	0
2	6286501.9	2070298.3	305.0	305.0		
3	6286265.0	2070793.0	310.0	310.0		
4	6286320.8	2070828.4	310.0	310.0		

1

BARRIER 2 TYPE(A) Pad Edges 2

	COORDINATES X	Y	Z	Z0	DELZ	P
5	6286349.5	2070944.8	310.0	310.0	.0	0
6	6286239.3	2070896.7	310.0	310.0		
7	6286196.9	2070902.4	310.0	310.0		
8	6286078.1	2071137.0	310.0	310.0		
9	6286004.6	2071292.5	312.0	312.0		
10	6286004.6	2071603.5	314.0	314.0		
11	6286004.6	2071990.8	319.0	319.0		
12	6286004.5	2072360.7	322.0	322.0		
13	6286289.0	2072499.4	326.0	326.0		
14	6286498.0	2072566.2	328.0	328.0		

1

BARRIER 3 TYPE(A) Multi-Family Bldg1

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286293.5	2071017.0	334.0	314.0	.0	0
2	6286314.7	2070974.6	334.0	314.0		
3	6286206.2	2070920.9	334.0	314.0		
4	6286185.0	2070960.9	334.0	314.0		
1	6286293.5	2071017.0	334.0	314.0		

1

BARRIER 4 TYPE(A) Multi-Family Bldg2

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286185.2	2071006.5	331.0	311.0	.0	0
2	6286122.1	2071123.3	331.0	311.0		
3	6286165.8	2071145.3	331.0	311.0		
4	6286228.3	2071030.4	331.0	311.0		
1	6286185.2	2071006.5	331.0	311.0		

1

BARRIER 5 TYPE(A) Multi-Family Bldg3

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286096.9	2071162.4	331.0	311.0	.0	0
2	6286074.3	2071206.2	331.0	311.0		
3	6286176.9	2071259.1	331.0	311.0		
4	6286199.5	2071215.2	331.0	311.0		
1	6286096.9	2071162.4	331.0	311.0		

1

BARRIER 6 TYPE(A) Multi-Family Bldg4

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286040.8	2071261.0	335.0	315.0	.0	0
2	6286037.7	2071397.8	335.0	315.0		
3	6286087.0	2071398.7	335.0	315.0		
4	6286090.0	2071263.1	335.0	315.0		
1	6286040.8	2071261.0	335.0	315.0		

1

BARRIER 7 TYPE(A) Multi-Family Bldg5

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286026.6	2071459.1	335.0	315.0	.0	0
2	6286026.0	2071506.4	335.0	315.0		
3	6286168.2	2071508.9	335.0	315.0		
4	6286168.8	2071460.7	335.0	315.0		
1	6286026.6	2071459.1	335.0	315.0		

1

BARRIER 8 TYPE(A) Multi-Family Bldg6

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286021.5	2071584.4	338.0	318.0	.0	0
2	6286164.9	2071586.7	338.0	318.0		
3	6286164.8	2071538.3	338.0	318.0		
4	6286022.0	2071536.9	338.0	318.0		
1	6286021.5	2071584.4	338.0	318.0		

```
1

 BARRIER   9   TYPE(A)     Multi-Family Bldg7

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286030.6 2071645.8     337.0      317.0         .0          0
 2         6286028.7 2071788.7     337.0      317.0
 3         6286076.0 2071788.6     337.0      317.0
 4         6286077.9 2071647.2     337.0      317.0
 1         6286030.6 2071645.8     337.0      317.0
1

 BARRIER  10   TYPE(A)     Multi-Family Bldg8

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286027.4 2071954.0     340.0      320.0         .0          0
 2         6286029.3 2071811.9     340.0      320.0
 3         6286076.6 2071813.2     340.0      320.0
 4         6286074.8 2071954.6     340.0      320.0
 1         6286027.4 2071954.0     340.0      320.0
1

 BARRIER  11   TYPE(A)     Multi-Family Bldg9

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286020.5 2072010.2     340.0      320.0         .0          0
 2         6286020.6 2072059.5     340.0      320.0
 3         6286157.6 2072058.9     340.0      320.0
 4         6286158.3 2072011.6     340.0      320.0
 1         6286020.5 2072010.2     340.0      320.0
1

 BARRIER  12   TYPE(A)     Multi-Family Bldg10

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286019.8 2072088.7     341.0      321.0         .0          0
 2         6286152.1 2072089.6     341.0      321.0
 3         6286152.7 2072138.9     341.0      321.0
 4         6286020.0 2072139.2     341.0      321.0
 1         6286019.8 2072088.7     341.0      321.0
1

 BARRIER  13   TYPE(A)     Multi-Family Bldg11

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286021.1 2072177.9     342.0      322.0         .0          0
 2         6286021.1 2072227.4     342.0      322.0
 3         6286126.4 2072235.5     342.0      322.0
 4         6286133.9 2072178.1     342.0      322.0
 1         6286021.1 2072177.9     342.0      322.0
1

 BARRIER  14   TYPE(A)     Multi-Family Bldg12

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286087.8 2072377.7     344.0      324.0         .0          0
 2         6286126.4 2072300.4     344.0      324.0
 3         6286082.8 2072279.2     344.0      324.0
 4         6286044.1 2072355.2     344.0      324.0
 1         6286087.8 2072377.7     344.0      324.0
1

 BARRIER  15   TYPE(A)     Multi-Family Bldg13

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286220.0 2072454.4     346.0      326.0         .0          0
 2         6286260.6 2072377.3     346.0      326.0
 3         6286217.5 2072353.4     346.0      326.0
 4         6286175.6 2072431.2     346.0      326.0
 1         6286220.0 2072454.4     346.0      326.0
1

 BARRIER  16   TYPE(A)     Multi-Family Bldg14

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286256.0 2072467.0     346.0      326.0         .0          0
 2         6286285.8 2072408.5     346.0      326.0
 3         6286330.0 2072430.9     346.0      326.0
 4         6286300.2 2072490.2     346.0      326.0
 1         6286256.0 2072467.0     346.0      326.0
1

 Receivers @ 5'

                        ------------COORDINATES------------
                                X          Y          Z
 27                       6286446.6  2070441.9      310.0
 28                       6286347.9  2070675.0      315.0
 29                       6286282.6  2070935.3      319.0
 30                       6286138.6  2071056.6      316.0
 31                       6286021.6  2071327.5      319.0
 32                       6286015.6  2071717.5      322.0
 33                       6286013.9  2071883.5      324.0
 34                       6286016.1  2072278.5      327.0
 35                       6286127.6  2072366.2      329.0
 36                       6286181.6  2072397.1      330.0
 37                       6286357.6  2072495.3      332.0
 38                       6286333.2  2071320.8      318.0
 39                       6286364.4  2071474.8      320.0
 40                       6286366.6  2071739.9      323.0
 41                       6286306.3  2072022.2      325.0
1

  ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

  1 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  2 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  3 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  4 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  5 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  6 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  7 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  8 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  9 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 10 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 11 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 12 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 13 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 14 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 15 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 16 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 17 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 18 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
1

  SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

  1 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  2 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  3 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  4 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  5 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  6 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  7 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  8 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  9 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 10 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 11 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 12 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 13 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 14 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 15 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 16 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 17 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 18 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
1

 RECEIVER    LEQ(H)   L10
 27           65.2   68.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           22.9 25.2 25.8 26.2 27.0 28.5
   2        1    2    3    4    5    6
           31.6 33.2 34.2 40.3 46.8 61.9
   3        1
           49.9
   4        1    2    3
           41.3 38.1 31.3
   5        1    2    3    4    5    6
           27.0 23.3 23.0 21.2 22.9 19.8
   6        1    2    3
           16.8 16.0 19.6
   7        1    2    3    4
           19.5 15.8 16.7 18.2
   8        1    2    3    4    5    6
           22.8 24.9 23.0 23.5 27.2 30.4
   9        1    2    3
           38.4 41.8 50.7
  10        1
           60.8
  11        1    2    3    4    5    6
           47.5 40.3 34.2 33.1 31.6 30.6
  12        1    2    3    4    5
           26.9 26.2 25.8 25.2 23.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           32.6 37.0 31.5 37.9 38.5 37.8 37.4 35.9 35.2 33.8

           33.5 33.7 33.1 32.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           32.6 33.1 33.6 33.9 33.5 35.1 36.1 37.1 38.2 38.6

           37.1 33.1 37.4 32.7
  15        1    2    3    4    5    6    7    8    9   10

           31.1 34.6 30.4 31.0 31.4 31.5 31.5 31.0 30.5 35.2

  16        1    2    3    4    5    6    7    8    9   10

           35.1 30.3 31.0 31.2 31.4 31.2 30.9 30.2 34.5 31.0

  17        1    2    3    4    5    6    7
           26.9 27.7 28.2 28.5 30.1 31.6 27.8
  18        1    2    3    4    5    6    7
           27.6 31.6 30.0 28.4 28.0 27.5 26.7
1

 RECEIVER    LEQ(H)   L10
 28           64.9   68.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           22.2 24.4 25.1 25.3 26.0 27.3
   2        1    2    3    4    5    6
           30.3 31.7 32.5 38.1 42.9 55.5
   3        1
           60.6
   4        1    2    3
           44.5 39.0 25.8
   5        1    2    3    4    5    6
           21.5 18.0 17.4 21.6 23.1 19.9
```

```
 6        1    2    3
         16.7 15.8 19.2
 7        1    2    3    4
         19.1 15.6 16.5 18.3
 8        1    2    3    4    5    6
         23.0 21.6 17.6 17.9 23.4 31.9
 9        1    2    3
         40.4 45.9 59.3
10        1
         56.0
11        1    2    3    4    5    6
         43.5 38.2 32.6 31.6 30.3 29.5
12        1    2    3    4    5
         25.9 25.4 25.1 24.4 22.3
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         32.1 36.4 30.9 37.3 37.8 38.1 37.6 37.1 35.6 33.5

         32.9 33.2 32.6 32.0
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         32.0 32.5 33.1 33.3 33.2 35.5 37.3 37.5 38.5 38.0

         36.5 32.5 36.8 32.2
15        1    2    3    4    5    6    7    8    9   10

         30.3 33.8 29.5 30.1 30.6 30.8 30.8 30.5 30.1 34.9

16        1    2    3    4    5    6    7    8    9   10

         34.9 29.9 30.4 30.6 30.6 30.4 30.0 29.4 33.7 30.3

17        1    2    3    4    5    6    7
         25.9 26.8 27.7 28.6 30.9 31.3 27.0
18        1    2    3    4    5    6    7
         26.8 31.3 30.9 28.5 27.5 26.7 25.7
1

RECEIVER    LEQ(H)   L10
29           60.5   64.0

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
         21.4 23.5 24.2 24.4 24.9 26.2
 2        1    2    3    4    5    6
         29.1 30.3 31.1 36.2 39.1 45.2
 3        1
         57.3
 4        1    2    3
         33.9 27.3 19.6
 5        1    2    3    4    5    6
         15.0 11.3 10.8 14.7 15.9 12.2
 6        1    2    3
          8.6  7.5 10.9
 7        1    2    3    4
         10.9  7.3  8.5 10.7
 8        1    2    3    4    5    6
         15.9 14.7 10.8 11.4 15.1 18.4
 9        1    2    3
         27.2 33.8 55.7
10        1
         45.9
11        1    2    3    4    5    6
         40.0 36.2 31.1 30.2 29.1 28.3
12        1    2    3    4    5
         24.9 24.4 24.2 23.6 21.5
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         31.4 35.8 29.7 35.0 35.0 34.7 34.3 33.4 33.0 32.3

         32.2 32.8 35.8 35.3
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         35.3 35.8 32.6 32.5 32.0 33.0 33.5 34.1 35.2 35.2

         34.2 31.0 36.2 31.5
15        1    2    3    4    5    6    7    8    9   10

         27.6 32.4 28.6 29.1 29.6 29.9 30.0 29.7 29.4 34.4

16        1    2    3    4    5    6    7    8    9   10

         34.3 29.2 29.7 29.7 29.7 29.5 29.1 28.4 32.3 27.7

17        1    2    3    4    5    6    7
         24.5 25.1 25.1 25.1 26.4 27.4 23.9
18        1    2    3    4    5    6    7
         23.6 27.4 26.3 25.0 25.0 25.0 24.4
1

RECEIVER    LEQ(H)   L10
30           66.6   70.2

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
         21.2 23.4 23.9 24.1 24.2 15.1
 2        1    2    3    4    5    6
         18.0 19.2 19.8 35.0 39.0 43.8
 3        1
         61.0
 4        1    2    3
         60.9 45.6 35.7
 5        1    2    3    4    5    6
         30.9 27.1 26.5 28.1 23.6 19.6
 6        1    2    3
         16.1 15.1 18.5
 7        1    2    3    4
         18.5 14.9 16.0 18.0
 8        1    2    3    4    5    6
         23.7 30.2 26.6 27.1 31.1 35.2
 9        1    2    3
         47.3 59.6 59.5
10        1
         44.7
11        1    2    3    4    5    6
         39.1 35.9 30.8 27.6 21.2 27.9
12        1    2    3    4    5
         24.6 24.1 23.9 23.4 21.3
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         31.2 35.5 30.0 36.3 36.8 37.0 36.5 35.4 33.8 32.2

         27.1 21.1 20.5 20.0
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         20.1 20.5 21.0 27.8 31.9 33.7 35.5 36.3 37.4 36.9

         35.5 31.5 35.9 31.3
15        1    2    3    4    5    6    7    8    9   10

         29.2 32.5 28.2 28.8 29.3 29.6 29.8 29.6 29.3 34.5

16        1    2    3    4    5    6    7    8    9   10

         34.4 29.2 29.5 29.5 29.5 29.2 28.7 28.1 32.5 29.2

17        1    2    3    4    5    6    7
         24.4 25.0 25.7 26.7 29.4 30.0 25.8
18        1    2    3    4    5    6    7
         25.5 30.0 29.1 26.5 25.6 24.9 24.3
1

RECEIVER    LEQ(H)   L10
31           65.9   69.4

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
          7.9  9.9 10.1 10.3 10.9 12.1
 2        1    2    3    4    5    6
         15.0 16.2 16.8 21.7 24.6 28.5
 3        1
         44.3
 4        1    2    3
         63.0 53.9 42.5
 5        1    2    3    4    5    6
         37.4 33.4 32.7 36.4 37.3 33.2
 6        1    2    3
         29.3 28.1 31.4
 7        1    2    3    4
         31.3 27.9 29.2 31.6
 8        1    2    3    4    5    6
         37.3 36.5 32.8 33.4 37.4 41.3
 9        1    2    3
         53.6 60.8 48.4
10        1
         28.9
11        1    2    3    4    5    6
         25.0 21.9 17.0 16.3 15.1 14.4
12        1    2    3    4    5
         10.9 10.5 10.3 10.0  8.1
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         30.6 34.9 29.3 35.6 36.1 36.2 35.7 32.5 19.9 18.8

         17.9 17.5 16.6 15.7
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         15.7 16.5 17.5 18.3 18.6 19.9 32.5 35.5 36.7 36.2

         34.8 30.9 35.3 30.7
15        1    2    3    4    5    6    7    8    9   10

         28.4 31.7 27.3 27.9 28.4 28.7 28.9 28.8 28.6 34.0

16        1    2    3    4    5    6    7    8    9   10

         33.9 28.4 28.7 28.7 28.6 28.2 27.8 27.1 31.6 28.4

17        1    2    3    4    5    6    7
         10.9 12.0 21.6 25.1 27.0 29.1 25.0
18        1    2    3    4    5    6    7
         24.7 29.1 26.9 25.0 21.0 11.9 10.8
1

RECEIVER    LEQ(H)   L10
32           61.1   64.0

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
          7.1  9.0  9.3  9.4 10.0 11.2
 2        1    2    3    4    5    6
         14.0 15.2 15.8 20.7 23.2 26.5
 3        1
         31.4
 4        1    2    3
         51.6 56.7 45.7
 5        1    2    3    4    5    6
         40.0 35.8 35.0 38.5 39.1 34.7
 6        1    2    3
         30.7 29.4 32.5
 7        1    2    3    4
         32.5 29.2 30.6 33.1
 8        1    2    3    4    5    6
         39.0 38.5 35.0 35.7 39.9 44.4
 9        1    2    3
         55.6 51.5 31.1
10        1
         26.6
11        1    2    3    4    5    6
         23.5 20.9 15.9 15.3 14.1 13.5
12        1    2    3    4    5
         10.0  9.6  9.4  9.2  7.2
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         29.7 31.5 24.5 30.2 26.3 22.0 21.3 19.4 19.2 18.1

         17.1 16.7 15.8 15.0
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         15.0 15.8 16.6 17.4 17.8 19.1 19.6 21.1 22.5 26.9

         29.4 25.8 31.9 29.8
15        1    2    3    4    5    6    7    8    9   10

         18.0 26.5 24.5 26.3 27.0 27.3 27.5 27.5 27.4 32.9

16        1    2    3    4    5    6    7    8    9   10

         32.8 27.2 27.4 27.3 27.2 26.9 26.3 24.7 26.7 19.5

17        1    2    3    4    5    6    7
         10.0 11.1 11.5 12.4 13.9 14.5 14.5
18        1    2    3    4    5    6    7
         12.8 14.5 13.9 12.2 11.4 11.0  9.8
```

```
1

 RECEIVER    LEQ(H)   L10
 33           60.0   62.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            6.4  8.4  8.7  8.8  9.3 10.5
    2        1    2    3    4    5    6
           13.4 14.4 15.0 19.8 22.3 25.4
    3        1
           30.0
    4        1    2    3
           48.6 55.5 47.1
    5        1    2    3    4    5    6
           41.2 36.9 36.0 39.5 39.9 35.4
    6        1    2    3
           31.3 29.9 33.0
    7        1    2    3    4
           33.0 29.7 31.2 33.8
    8        1    2    3    4    5    6
           39.8 39.4 36.0 36.8 41.0 45.6
    9        1    2    3
           54.5 48.8 30.6
   10        1
           25.8
   11        1    2    3    4    5    6
           22.7 20.1 15.2 14.6 13.5 12.8
   12        1    2    3    4    5
            9.4  8.9  8.8  8.5  6.6
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           29.4 33.6 24.8 29.8 25.3 23.4 21.6 18.7 18.5 17.5

           16.4 16.2 15.2 14.4
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           14.4 15.1 16.1 16.8 17.2 18.3 18.8 21.4 23.8 25.9

           28.8 26.0 32.1 29.4
   15        1    2    3    4    5    6    7    8    9   10

           16.5 26.0 24.5 26.0 26.5 26.8 27.0 26.9 26.8 32.4

   16        1    2    3    4    5    6    7    8    9   10

           32.4 26.7 26.9 26.8 26.6 26.3 26.0 24.8 26.3 17.5

   17        1    2    3    4    5    6    7
            9.3 10.4 10.8 12.6 14.3 16.4 12.8
   18        1    2    3    4    5    6    7
           12.6 16.4 14.3 12.4 10.7 10.3  9.1
1

 RECEIVER    LEQ(H)   L10
 34           57.6   60.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            6.3  8.3  8.6  8.7  9.3 10.6
    2        1    2    3    4    5    6
           13.3 14.2 14.5 18.9 20.7 22.7
    3        1
           25.9
    4        1    2    3
           41.6 51.4 48.4
    5        1    2    3    4    5    6
           43.5 39.3 38.4 41.8 42.0 37.2
    6        1    2    3
           32.9 31.4 34.3
    7        1    2    3    4
           34.2 31.2 32.8 35.6
    8        1    2    3    4    5    6
           41.8 41.7 38.2 39.0 43.1 46.7
    9        1    2    3
           50.8 43.9 26.1
   10        1
           22.5
   11        1    2    3    4    5    6
           20.7 18.9 14.5 14.1 13.2 12.7
   12        1    2    3    4    5
            9.2  8.7  8.6  8.3  6.3
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           25.8 28.7 22.8 28.2 21.2 18.8 17.3 17.0 17.3 17.1

           17.0 17.4 16.9 16.5
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           16.5 16.8 17.3 17.4 16.8 17.3 17.1 17.0 19.2 21.7

           27.5 24.3 29.0 26.0
   15        1    2    3    4    5    6    7    8    9   10

           13.4 23.7 21.0 22.7 25.3 25.6 25.8 25.7 25.7 31.4

   16        1    2    3    4    5    6    7    8    9   10

           31.3 25.5 25.7 25.6 25.4 25.2 22.8 21.0 24.0 13.8

   17        1    2    3    4    5    6    7
            8.8  9.4  9.0  8.6  9.4 12.1 10.0
   18        1    2    3    4    5    6    7
            9.6 12.1  9.5  8.6  8.9  9.3  8.6
1

 RECEIVER    LEQ(H)   L10
 35           51.6   54.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
           22.2 24.2 24.5 24.6 25.2 26.5
    2        1    2    3    4    5    6
           29.3 30.2 30.6 33.8 29.8 29.4
    3        1
           25.5
    4        1    2    3
           27.3 31.2 28.1
    5        1    2    3    4    5    6
           24.4 36.1 37.1 41.4 41.9 37.3
    6        1    2    3
           33.1 31.5 34.4
    7        1    2    3    4
           34.3 31.3 32.9 35.7
    8        1    2    3    4    5    6
           41.8 41.3 36.8 33.3 24.0 26.4
    9        1    2    3
           30.7 27.1 26.1
   10        1
           28.7
   11        1    2    3    4    5    6
           30.0 32.1 30.6 30.1 29.2 28.6
   12        1    2    3    4    5
           25.1 24.6 24.5 24.2 22.3
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           12.4 16.9 11.6 19.0 22.9 24.1 27.8 28.2 31.7 33.0

           32.8 33.1 32.6 32.1
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           32.1 32.5 33.0 33.2 32.7 31.8 28.3 27.6 24.7 22.9

           18.0 13.1 17.2 12.5
   15        1    2    3    4    5    6    7    8    9   10

           14.7 14.4  8.4  8.7  8.9  9.0  8.9  8.8  8.5 13.8

   16        1    2    3    4    5    6    7    8    9   10

           13.8  8.4  8.7  8.7  8.8  8.8  8.6  8.3 14.0 14.5

   17        1    2    3    4    5    6    7
           24.8 22.1 20.0 19.4 16.2 15.9 11.2
   18        1    2    3    4    5    6    7
           11.0 16.0 16.4 19.5 19.9 22.2 24.6
1

 RECEIVER    LEQ(H)   L10
 36           52.6   54.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
           22.2 24.2 24.5 24.6 25.2 26.5
    2        1    2    3    4    5    6
           29.2 30.2 30.5 34.4 29.7 29.7
    3        1
           25.2
    4        1    2    3
           30.4 34.8 38.8
    5        1    2    3    4    5    6
           39.1 37.2 37.4 41.1 41.8 37.2
    6        1    2    3
           33.1 31.6 34.4
    7        1    2    3    4
           34.3 31.3 32.9 35.6
    8        1    2    3    4    5    6
           41.6 41.0 36.9 36.8 38.7 37.1
    9        1    2    3
           34.4 31.1 26.2
   10        1
           29.4
   11        1    2    3    4    5    6
           29.9 33.1 30.5 30.1 29.2 28.6
   12        1    2    3    4    5
           25.1 24.6 24.5 24.2 22.2
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           18.9 23.4 18.2 25.3 26.3 27.0 28.4 28.2 32.8 33.0

           32.8 33.1 32.6 32.1
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           32.1 32.5 33.0 33.2 32.7 32.9 28.3 28.2 27.5 26.3

           24.5 19.8 23.8 18.9
   15        1    2    3    4    5    6    7    8    9   10

           18.3 20.5 15.1 15.2 15.6 15.5 15.2 15.1 15.0 19.9

   16        1    2    3    4    5    6    7    8    9   10

           19.9 14.9 15.0 15.0 15.4 15.5 15.2 14.8 20.4 18.4

   17        1    2    3    4    5    6    7
           24.7 23.6 20.0 19.6 19.2 18.0 14.3
   18        1    2    3    4    5    6    7
           14.0 18.1 19.5 19.5 19.9 23.7 24.6
1

 RECEIVER    LEQ(H)   L10
 37           51.8   53.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
           22.1 24.1 24.4 24.5 25.1 26.3
    2        1    2    3    4    5    6
           29.1 30.1 30.3 34.7 31.9 29.8
    3        1
           24.6
    4        1    2    3
           27.8 30.9 27.6
    5        1    2    3    4    5    6
           36.8 35.6 36.1 40.1 41.3 37.1
    6        1    2    3
           33.0 31.5 34.4
    7        1    2    3    4
           34.3 31.3 32.8 35.4
    8        1    2    3    4    5    6
           41.1 40.0 35.9 35.2 35.8 26.2
    9        1    2    3
           30.5 28.5 25.1
   10        1
           30.3
   11        1    2    3    4    5    6
           29.5 34.6 30.3 29.9 29.1 28.5
   12        1    2    3    4    5
           25.0 24.5 24.4 24.1 22.1
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           21.5 25.4 19.2 25.6 27.9 28.7 28.3 32.6 33.1 32.9
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```
          32.7 33.1 32.5 32.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.1 32.5 33.0 33.1 32.6 33.1 32.7 28.1 29.2 27.8

          24.7 20.7 25.8 21.5
  15        1    2    3    4    5    6    7    8    9   10

          19.4 20.8 17.2 17.8 17.5 17.8 18.1 18.4 13.9 15.8

  16        1    2    3    4    5    6    7    8    9   10

          15.7 13.9 18.4 18.0 17.7 17.3 17.7 17.1 20.9 19.2

  17        1    2    3    4    5    6    7
          24.6 25.2 23.2 19.5 20.3 21.0 15.0
  18        1    2    3    4    5    6    7
          15.1 21.1 20.3 19.4 23.4 25.1 24.5
1

 RECEIVER    LEQ(H)   L10
 38           51.9   54.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.7 26.8 27.2 27.5 28.2 29.7
   2        1    2    3    4    5    6
          32.6 33.9 34.4 36.1 35.4 37.8
   3        1
          34.6
   4        1    2    3
          41.1 39.8 28.2
   5        1    2    3    4    5    6
          23.6 19.8 19.4 23.5 26.2 23.3
   6        1    2    3
          20.8 20.2 23.3
   7        1    2    3    4
          23.3 19.7 20.3 21.7
   8        1    2    3    4    5    6
          26.0 23.9 19.3 19.9 23.6 27.1
   9        1    2    3
          39.7 41.4 33.7
  10        1
          38.4
  11        1    2    3    4    5    6
          35.6 33.8 34.0 33.7 32.6 31.8
  12        1    2    3    4    5
          28.1 27.5 27.2 26.8 24.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.5 23.7 18.1 24.9 31.2 31.4 31.0 30.7 31.0 35.3

          35.3 35.6 35.0 34.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          34.5 35.0 35.5 35.6 35.1 30.9 30.8 30.8 31.9 31.1

          23.9 19.7 24.1 19.6
  15        1    2    3    4    5    6    7    8    9   10

          23.3 20.5 16.3 16.9 17.6 18.3 19.0 18.9 18.7 24.5

  16        1    2    3    4    5    6    7    8    9   10

          24.2 18.6 18.9 18.8 18.2 17.5 16.9 16.2 20.4 22.8

  17        1    2    3    4    5    6    7
          26.7 23.6 23.3 22.9 23.6 24.2 19.8
  18        1    2    3    4    5    6    7
          19.8 24.2 23.6 22.8 23.1 23.5 26.6
1

 RECEIVER    LEQ(H)   L10
 39           51.4   53.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.4 26.5 26.9 27.1 27.8 29.2
   2        1    2    3    4    5    6
          32.1 33.3 33.9 37.7 34.5 36.2
   3        1
          33.3
   4        1    2    3
          40.7 36.0 30.0
   5        1    2    3    4    5    6
          25.3 21.3 20.8 24.9 27.0 24.2
   6        1    2    3
          21.2 20.3 23.7
   7        1    2    3    4
          23.6 20.1 21.0 22.6
   8        1    2    3    4    5    6
          26.9 24.9 20.8 21.3 25.6 28.7
   9        1    2    3
          35.8 40.5 31.9
  10        1
          37.3
  11        1    2    3    4    5    6
          34.5 36.2 33.9 33.2 32.1 31.3
  12        1    2    3    4    5
          27.7 27.1 26.9 26.5 24.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.5 24.7 19.2 29.2 30.8 31.1 30.6 30.3 34.3 35.1

          35.0 35.3 34.7 34.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          34.2 34.7 35.2 35.3 34.9 34.4 30.5 30.4 31.5 30.9

          28.6 20.7 25.0 20.6
  15        1    2    3    4    5    6    7    8    9   10

          23.0 23.7 17.1 17.7 18.3 19.3 19.8 19.8 19.5 24.7

  16        1    2    3    4    5    6    7    8    9   10

          24.7 19.4 19.7 19.6 19.2 18.2 17.6 17.0 23.3 23.0

  17        1    2    3    4    5    6    7
          27.5 25.5 22.8 22.4 23.2 23.7 19.6
  18        1    2    3    4    5    6    7
          19.3 23.7 23.2 22.3 22.7 25.6 27.4
1

 RECEIVER    LEQ(H)   L10
 40           50.7   52.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          23.8 25.8 26.2 26.4 27.0 28.4
   2        1    2    3    4    5    6
          31.3 32.4 32.9 37.5 33.0 34.1
   3        1
          30.2
   4        1    2    3
          33.6 39.8 30.4
   5        1    2    3    4    5    6
          29.6 22.8 22.3 26.3 27.7 24.6
   6        1    2    3
          21.7 20.9 24.1
   7        1    2    3    4
          24.2 20.6 21.5 23.0
   8        1    2    3    4    5    6
          27.6 26.3 22.3 26.0 28.0 29.0
   9        1    2    3
          39.6 34.2 29.7
  10        1
          34.9
  11        1    2    3    4    5    6
          33.0 36.3 32.9 32.3 31.3 30.5
  12        1    2    3    4    5
          26.9 26.4 26.2 25.8 23.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.0 25.2 19.7 27.1 30.2 30.4 30.0 31.1 34.8 34.5

          34.4 34.7 34.1 33.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          33.7 34.1 34.6 34.7 34.3 34.8 31.3 29.8 30.9 30.2

          26.1 21.1 25.6 21.0
  15        1    2    3    4    5    6    7    8    9   10

          22.3 22.2 17.3 17.9 19.4 19.8 20.1 20.1 21.7 24.0

  16        1    2    3    4    5    6    7    8    9   10

          24.0 21.6 20.1 19.9 19.7 19.3 18.0 17.2 21.8 22.3

  17        1    2    3    4    5    6    7
          26.7 26.7 22.0 21.5 22.4 23.0 18.8
  18        1    2    3    4    5    6    7
          18.6 23.0 22.4 21.5 21.9 26.7 26.6
1

 RECEIVER    LEQ(H)   L10
 41           50.0   51.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          23.1 25.1 25.4 25.6 26.2 27.6
   2        1    2    3    4    5    6
          30.4 31.4 31.8 36.2 31.4 32.2
   3        1
          27.1
   4        1    2    3
          31.2 39.5 31.2
   5        1    2    3    4    5    6
          26.3 22.7 22.2 26.5 27.9 28.7
   6        1    2    3
          26.9 25.7 28.8
   7        1    2    3    4
          28.8 25.5 26.8 25.7
   8        1    2    3    4    5    6
          28.0 26.4 22.1 22.5 26.2 29.8
   9        1    2    3
          39.3 32.0 27.9
  10        1
          32.4
  11        1    2    3    4    5    6
          31.6 35.1 31.8 31.3 30.3 29.7
  12        1    2    3    4    5
          26.1 25.6 25.4 25.1 23.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.6 25.7 19.4 25.7 27.2 29.7 29.3 30.1 34.1 33.9

          33.7 34.0 33.5 33.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          33.0 33.4 33.9 34.0 33.6 34.1 30.4 29.1 30.1 27.1

          24.9 20.8 26.0 21.7
  15        1    2    3    4    5    6    7    8    9   10

          18.3 21.2 17.8 18.4 18.8 17.8 17.6 17.6 17.7 23.5

  16        1    2    3    4    5    6    7    8    9   10

          23.5 17.6 17.6 17.3 17.7 18.6 18.4 17.7 21.3 18.3

  17        1    2    3    4    5    6    7
          25.8 25.7 21.1 20.7 21.6 21.2 14.4
  18        1    2    3    4    5    6    7
          14.1 21.4 21.6 20.6 21.0 25.7 25.7
```

****
STAM2VU1
Version 1.20
****
STAMINA 2.0/BCR
MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
TRAFFIC NOISE PREDICTION MODEL

MODIFIED TO:
1. ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
2. CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
3. PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.

****

MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
AND BOWLBY & ASSOCIATES, INC.
2014 BROADWAY, SUITE 210
NASHVILLE, TN 37203-2425
TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE *.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.

(INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH)

Meadowood - Multi-Family 1st Floor (Receivers 27-41)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

HEIGHT	CODE	DESCRIPTION
.00	1	RECEIVER HEIGHT ADJUSTMENT
1.00	2	A-WEIGHTED SOUND LEVEL ONLY
.00	3	HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
.00	4	HEIGHT ADJUSTMENT FOR HEAVY TRUCKS (HT)
.00	5	HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS (MT)
.000	6	HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4) CARS--CALVENO C0 = 5.20 C1 = 38.80 S0 = .00
2.300	7	HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5) MT--CALVENO C0 = 35.30 C1 = 25.60 S0 = .00
8.000	8	HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6) HT--CALVENO C0 = 50.40 C1 = 19.20 S0 = .00

0ROADWAY 1 HRC nb (76 to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6287767.4	2067284.0	276.0	0
2	6287704.7	2067456.2	276.0	0
3	6287629.7	2067702.5	279.0	0
4	6287568.8	2067936.5	284.0	0
5	6287512.3	2068148.3	284.0	0
6	6287446.9	2068359.4	282.0	0
7	6287374.5	2068606.6	279.0	0

0ROADWAY 2 HRC nb (Pankey to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
7	6287374.5	2068606.6	279.0	0
8	6287273.9	2068832.6	278.0	0
9	6287137.9	2069057.7	278.0	0
10	6287017.0	2069263.4	280.0	0
11	6286760.9	2069688.9	285.0	0
12	6286533.2	2070137.4	290.0	0
13	6286310.7	2070587.7	296.0	0

0ROADWAY 3 HRC nb (School to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
13	6286310.7	2070587.7	296.0	0
14	6286086.4	2071030.0	302.0	0

0ROADWAY 4 HRC nb (26 to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286086.4	2071030.0	302.0	0
15	6285859.5	2071475.8	308.0	0
16	6285540.8	2072106.2	311.0	0
17	6285403.1	2072385.2	310.0	0

0ROADWAY 5 HRC nb (Harvest Glen to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
17	6285403.1	2072385.2	310.0	0
18	6285328.1	2072574.1	310.0	0
19	6285298.0	2072673.9	310.0	0
20	6285270.7	2072773.6	311.0	0
21	6285221.2	2073078.2	314.0	0
22	6285201.8	2073673.3	322.0	0
23	6285188.6	2074037.0	338.0	0

0ROADWAY 6 HRC nb (Longspur to Baltimore)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
23	6285188.6	2074037.0	338.0	0
24	6285145.3	2074308.9	346.0	0
25	6285056.1	2074546.4	351.0	0
26	6284650.0	2075149.4	356.0	0

0ROADWAY 7 HRC sb (Baltimore to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6284621.8	2075132.6	356.0	0
2	6285015.5	2074527.9	351.0	0
3	6285099.4	2074300.1	346.0	0
4	6285141.8	2074033.5	338.0	0
5	6285159.4	2073671.5	322.0	0

0ROADWAY 8 HRC sb (Longspur to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
5	6285159.4	2073671.5	322.0	0
6	6285181.5	2073072.9	314.0	0
7	6285228.3	2072759.5	311.0	0
8	6285256.5	2072658.0	310.0	0
9	6285287.4	2072557.3	310.0	0
10	6285368.7	2072369.3	310.0	0
11	6285504.6	2072087.7	311.0	0

0ROADWAY 9 HRC sb (Harvest Glen to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
11	6285504.6	2072087.7	311.0	0
12	6285818.9	2071457.3	308.0	0
13	6286045.8	2071007.9	302.0	0
14	6286269.2	2070567.4	296.0	0

0ROADWAY 10 HRC sb (26 to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	14.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286269.2	2070567.4	296.0	0
15	6286493.4	2070122.4	290.0	0

0ROADWAY 11 HRC sb (School to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
15	6286493.4	2070122.4	290.0	0
16	6286720.3	2069667.7	285.0	0
17	6286977.2	2069239.6	280.0	0
18	6287102.6	2069033.0	278.0	0
19	6287238.6	2068813.1	278.0	0

20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0

	COORDINATES X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

1

BARRIER 1 TYPE(A) Pad Edges 1

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286634.5	2070357.0	313.0	305.0	1.0	3
2	6286501.9	2070298.3	313.0	305.0		
3	6286265.0	2070793.0	318.0	310.0		
4	6286320.8	2070828.4	318.0	310.0		

1

BARRIER 2 TYPE(A) Pad Edges 2

	COORDINATES X	Y	Z	Z0	DELZ	P
5	6286349.5	2070944.8	318.0	310.0	1.0	3
6	6286239.3	2070896.7	318.0	310.0		
7	6286196.9	2070902.4	318.0	310.0		
8	6286078.1	2071137.0	318.0	310.0		
9	6286004.6	2071292.5	320.0	312.0		
10	6286004.6	2071603.5	322.0	314.0		
11	6286004.6	2071990.8	327.0	319.0		
12	6286004.5	2072360.7	330.0	322.0		
13	6286289.0	2072499.4	334.0	326.0		
14	6286498.0	2072566.2	336.0	328.0		

1

BARRIER 3 TYPE(A) Multi-Family Bldg1

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286293.5	2071017.0	334.0	314.0	.0	0
2	6286314.7	2070974.6	334.0	314.0		
3	6286206.2	2070920.9	334.0	314.0		
4	6286185.0	2070960.9	334.0	314.0		
1	6286293.5	2071017.0	334.0	314.0		

1

BARRIER 4 TYPE(A) Multi-Family Bldg2

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286185.2	2071006.5	331.0	311.0	.0	0
2	6286122.1	2071123.3	331.0	311.0		
3	6286165.8	2071145.3	331.0	311.0		
4	6286228.3	2071030.4	331.0	311.0		
1	6286185.2	2071006.5	331.0	311.0		

1

BARRIER 5 TYPE(A) Multi-Family Bldg3

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286096.9	2071162.4	331.0	311.0	.0	0
2	6286074.3	2071206.2	331.0	311.0		
3	6286176.9	2071259.1	331.0	311.0		
4	6286199.5	2071215.2	331.0	311.0		
1	6286096.9	2071162.4	331.0	311.0		

1

BARRIER 6 TYPE(A) Multi-Family Bldg4

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286040.8	2071261.0	335.0	315.0	.0	0
2	6286037.7	2071397.8	335.0	315.0		
3	6286087.0	2071398.7	335.0	315.0		
4	6286090.0	2071263.1	335.0	315.0		
1	6286040.8	2071261.0	335.0	315.0		

1

BARRIER 7 TYPE(A) Multi-Family Bldg5

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286026.6	2071459.1	335.0	315.0	.0	0
2	6286026.0	2071506.4	335.0	315.0		
3	6286168.2	2071508.9	335.0	315.0		
4	6286168.8	2071460.7	335.0	315.0		
1	6286026.6	2071459.1	335.0	315.0		

1

BARRIER 8 TYPE(A) Multi-Family Bldg6

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286021.5	2071584.4	338.0	318.0	.0	0
2	6286164.9	2071586.7	338.0	318.0		
3	6286164.8	2071538.3	338.0	318.0		
4	6286022.0	2071536.9	338.0	318.0		
1	6286021.5	2071584.4	338.0	318.0		

```
1

 BARRIER   9   TYPE(A)     Multi-Family Bldg7

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286030.6 2071645.8     337.0     317.0         .0          0
 2         6286028.7 2071788.7     337.0     317.0
 3         6286076.0 2071788.6     337.0     317.0
 4         6286077.9 2071647.2     337.0     317.0
 1         6286030.6 2071645.8     337.0     317.0
1

 BARRIER  10   TYPE(A)     Multi-Family Bldg8

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286027.4 2071954.0     340.0     320.0         .0          0
 2         6286029.3 2071811.9     340.0     320.0
 3         6286076.6 2071813.2     340.0     320.0
 4         6286074.8 2071954.6     340.0     320.0
 1         6286027.4 2071954.0     340.0     320.0
1

 BARRIER  11   TYPE(A)     Multi-Family Bldg9

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286020.5 2072010.2     340.0     320.0         .0          0
 2         6286020.6 2072059.5     340.0     320.0
 3         6286157.6 2072058.9     340.0     320.0
 4         6286158.3 2072011.6     340.0     320.0
 1         6286020.5 2072010.2     340.0     320.0
1

 BARRIER  12   TYPE(A)     Multi-Family Bldg10

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286019.8 2072088.7     341.0     321.0         .0          0
 2         6286152.1 2072089.6     341.0     321.0
 3         6286152.7 2072138.9     341.0     321.0
 4         6286020.0 2072139.2     341.0     321.0
 1         6286019.8 2072088.7     341.0     321.0
1

 BARRIER  13   TYPE(A)     Multi-Family Bldg11

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286021.1 2072177.9     342.0     322.0         .0          0
 2         6286021.1 2072227.4     342.0     322.0
 3         6286126.4 2072235.5     342.0     322.0
 4         6286133.9 2072178.1     342.0     322.0
 1         6286021.1 2072177.9     342.0     322.0
1

 BARRIER  14   TYPE(A)     Multi-Family Bldg12

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286087.8 2072377.7     344.0     324.0         .0          0
 2         6286126.4 2072300.4     344.0     324.0
 3         6286082.8 2072279.2     344.0     324.0
 4         6286044.1 2072355.2     344.0     324.0
 1         6286087.8 2072377.7     344.0     324.0
1

 BARRIER  15   TYPE(A)     Multi-Family Bldg13

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286220.0 2072454.4     346.0     326.0         .0          0
 2         6286260.6 2072377.3     346.0     326.0
 3         6286217.5 2072353.4     346.0     326.0
 4         6286175.6 2072431.2     346.0     326.0
 1         6286220.0 2072454.4     346.0     326.0
1

 BARRIER  16   TYPE(A)     Multi-Family Bldg14

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286256.0 2072467.0     346.0     326.0         .0          0
 2         6286285.8 2072408.5     346.0     326.0
 3         6286330.0 2072430.9     346.0     326.0
 4         6286300.2 2072490.2     346.0     326.0
 1         6286256.0 2072467.0     346.0     326.0
1

 Receivers @ 5'

                        ------------COORDINATES-------------
                              X          Y          Z
 27                     6286446.6  2070441.9      310.0
 28                     6286347.9  2070675.0      315.0
 29                     6286282.6  2070935.3      319.0
 30                     6286138.6  2071056.6      316.0
 31                     6286021.6  2071327.5      319.0
 32                     6286015.6  2071717.5      322.0
 33                     6286013.9  2071883.5      324.0
 34                     6286016.1  2072278.5      327.0
 35                     6286127.6  2072366.2      329.0
 36                     6286181.6  2072397.1      330.0
 37                     6286357.6  2072495.3      332.0
 38                     6286333.2  2071320.8      318.0
 39                     6286364.4  2071474.8      320.0
 40                     6286366.6  2071739.9      323.0
 41                     6286306.3  2072022.2      325.0
1

  ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

  1 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  2 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  3 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  4 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  5 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  6 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  7 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  8 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  9 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 10 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 11 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 12 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 13 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 14 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 15 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 16 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 17 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 18 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
1

  SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

  1 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  2 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  3 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  4 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  5 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  6 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  7 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  8 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  9 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 10 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 11 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 12 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 13 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 14 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 15 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 16 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 17 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 18 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
1

 RECEIVER    LEQ(H)   L10
 27           55.4   58.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          21.2 23.4 24.0 24.4 25.2 26.7
   2        1    2    3    4    5    6
          29.7 31.1 32.1 37.6 42.3 50.3
   3        1
          44.3
   4        1    2    3
          38.5 36.2 29.9
   5        1    2    3    4    5    6
          25.7 22.1 21.7 21.2 22.9 19.8
   6        1    2    3
          16.8 16.0 19.6
   7        1    2    3    4
          19.5 15.8 16.7 18.2
   8        1    2    3    4    5    6
          22.8 24.0 21.7 22.1 25.6 28.6
   9        1    2    3
          35.9 38.2 43.3
  10        1
          48.6
  11        1    2    3    4    5    6
          42.2 37.7 32.1 31.0 29.7 28.8
  12        1    2    3    4    5
          25.1 24.4 24.0 23.4 21.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.4 27.0 21.6 28.4 29.5 30.4 30.0 30.3 31.2 31.9

          31.7 32.0 31.4 30.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.9 31.4 31.9 32.1 31.6 31.2 30.5 29.9 30.9 29.6

          27.5 23.2 27.4 22.5
  15        1    2    3    4    5    6    7    8    9   10

          21.4 24.3 19.9 20.2 20.4 20.4 20.3 19.7 19.1 23.7

  16        1    2    3    4    5    6    7    8    9   10

          23.7 18.9 19.6 20.1 20.3 20.3 20.1 19.7 24.2 21.3

  17        1    2    3    4    5    6    7
          25.0 25.5 24.3 23.1 23.3 23.2 18.3
  18        1    2    3    4    5    6    7
          18.1 23.2 23.3 23.0 24.1 25.4 24.9
1

 RECEIVER    LEQ(H)   L10
 28           57.0   60.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          21.3 23.5 24.0 24.4 25.1 26.5
   2        1    2    3    4    5    6
          29.5 30.7 31.4 36.2 40.0 47.9
   3        1
          51.0
   4        1    2    3
          42.0 37.7 25.8
   5        1    2    3    4    5    6
          21.5 18.0 17.4 21.6 23.1 19.9
```

```
 6        1    2    3
         16.7 15.8 19.2
 7        1    2    3    4
         19.1 15.6 16.5 18.3
 8        1    2    3    4    5    6
         23.0 21.6 17.6 17.9 23.0 30.7
 9        1    2    3
         38.8 42.2 50.3
10        1
         48.2
11        1    2    3    4    5    6
         40.8 36.8 31.4 30.6 29.5 28.7
12        1    2    3    4    5
         25.0 24.4 24.0 23.5 21.4
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         26.3 30.7 25.2 31.7 32.3 32.7 32.3 32.0 32.3 32.0

         31.8 32.1 31.5 30.9
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         31.0 31.4 32.0 32.2 31.8 32.3 32.2 32.1 33.2 32.5

         30.9 26.8 31.1 26.4
15        1    2    3    4    5    6    7    8    9   10

         24.7 28.1 23.8 24.4 24.8 25.0 25.0 24.7 24.3 29.1

16        1    2    3    4    5    6    7    8    9   10

         29.1 24.1 24.6 24.8 24.8 24.7 24.3 23.7 28.0 24.6

17        1    2    3    4    5    6    7
         24.9 25.6 25.2 24.7 25.3 25.7 21.4
18        1    2    3    4    5    6    7
         21.1 25.7 25.3 24.6 25.1 25.5 24.8
1

RECEIVER    LEQ(H)   L10
29           54.9   58.4

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
         20.6 22.8 23.2 23.5 24.2 25.6
 2        1    2    3    4    5    6
         28.5 29.6 30.1 34.6 36.4 40.9
 3        1
         50.4
 4        1    2    3
         33.8 27.3 19.6
 5        1    2    3    4    5    6
         15.0 11.3 10.8 14.7 15.9 12.2
 6        1    2    3
          8.6  7.5 10.9
 7        1    2    3    4
         10.9  7.3  8.5 10.7
 8        1    2    3    4    5    6
         15.9 14.7 10.8 11.4 15.1 18.4
 9        1    2    3
         27.2 33.6 49.8
10        1
         42.3
11        1    2    3    4    5    6
         37.6 34.4 30.1 29.5 28.5 27.8
12        1    2    3    4    5
         24.2 23.6 23.3 22.8 20.7
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         26.6 31.0 25.3 31.5 32.1 32.3 31.9 31.5 31.7 31.4

         31.2 31.4 31.1 30.6
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         30.6 31.1 31.3 31.5 31.1 31.7 31.7 31.7 32.8 32.2

         30.7 26.8 31.4 26.7
15        1    2    3    4    5    6    7    8    9   10

         24.5 27.9 23.8 24.4 24.8 25.1 25.2 24.9 24.6 29.5

16        1    2    3    4    5    6    7    8    9   10

         29.5 24.4 24.9 24.9 24.9 24.7 24.3 23.6 27.8 24.5

17        1    2    3    4    5    6    7
         23.9 24.5 24.4 24.0 24.8 25.3 21.1
18        1    2    3    4    5    6    7
         20.8 25.3 24.8 23.9 24.2 24.4 23.8
1

RECEIVER    LEQ(H)   L10
30           57.9   61.3

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
         19.6 21.7 22.2 22.4 22.9 15.1
 2        1    2    3    4    5    6
         18.0 19.2 19.8 33.3 37.0 41.0
 3        1
         51.2
 4        1    2    3
         51.5 42.8 34.4
 5        1    2    3    4    5    6
         29.7 26.0 25.4 27.2 23.6 19.6
 6        1    2    3
         16.1 15.1 18.5
 7        1    2    3    4
         18.5 14.9 16.0 18.0
 8        1    2    3    4    5    6
         23.7 29.1 25.5 26.0 29.8 33.5
 9        1    2    3
         43.0 50.8 50.1
10        1
         41.3
11        1    2    3    4    5    6
         37.0 34.1 29.1 26.3 20.7 26.5
12        1    2    3    4    5
         23.0 22.4 22.2 21.7 19.6
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         24.9 29.2 23.7 30.1 30.7 31.1 30.6 30.4 30.6 30.4

         25.9 21.1 20.5 20.0
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         20.1 20.5 21.0 26.6 30.1 30.6 30.5 30.4 31.6 30.9

         29.3 25.3 29.6 25.0
15        1    2    3    4    5    6    7    8    9   10

         23.0 26.3 21.9 22.5 23.0 23.2 23.4 23.2 22.9 28.0

16        1    2    3    4    5    6    7    8    9   10

         28.0 22.7 23.1 23.1 23.1 22.8 22.4 21.8 26.2 23.0

17        1    2    3    4    5    6    7
         22.8 23.4 23.1 22.7 23.4 23.9 19.6
18        1    2    3    4    5    6    7
         19.4 23.9 23.4 22.6 23.0 23.3 22.6
1

RECEIVER    LEQ(H)   L10
31           58.2   61.7

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
          7.9  9.9 10.1 10.3 10.9 12.1
 2        1    2    3    4    5    6
         15.0 16.2 16.8 21.7 24.6 28.5
 3        1
         40.9
 4        1    2    3
         54.2 47.4 36.9
 5        1    2    3    4    5    6
         31.8 27.8 27.2 30.9 31.9 27.9
 6        1    2    3
         24.1 22.9 26.2
 7        1    2    3    4
         26.2 22.7 24.0 26.3
 8        1    2    3    4    5    6
         31.8 31.0 27.2 27.8 31.8 35.7
 9        1    2    3
         47.0 53.1 43.7
10        1
         28.9
11        1    2    3    4    5    6
         25.0 21.9 17.0 16.3 15.1 14.4
12        1    2    3    4    5
         10.9 10.5 10.3 10.0  8.1
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         25.3 29.6 24.1 30.4 30.9 31.1 30.6 28.9 19.9 18.8

         17.9 17.6 16.6 15.7
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         15.7 16.5 17.5 18.3 18.6 19.9 28.9 30.4 31.6 31.0

         29.6 25.6 30.0 25.4
15        1    2    3    4    5    6    7    8    9   10

         23.2 26.5 22.1 22.6 23.2 23.5 23.7 23.6 23.3 28.7

16        1    2    3    4    5    6    7    8    9   10

         28.6 23.2 23.5 23.4 23.3 23.0 22.6 21.9 26.4 23.2

17        1    2    3    4    5    6    7
         10.9 12.0 19.6 22.5 23.3 23.9 19.8
18        1    2    3    4    5    6    7
         19.5 23.9 23.3 22.5 19.1 11.9 10.8
1

RECEIVER    LEQ(H)   L10
32           54.5   57.4

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
          7.1  9.0  9.3  9.4 10.0 11.2
 2        1    2    3    4    5    6
         14.0 15.2 15.8 20.6 23.2 26.5
 3        1
         31.4
 4        1    2    3
         45.5 49.6 39.1
 5        1    2    3    4    5    6
         33.6 29.4 28.7 32.2 33.0 28.8
 6        1    2    3
         25.1 23.8 26.9
 7        1    2    3    4
         26.9 23.6 24.9 27.3
 8        1    2    3    4    5    6
         32.9 32.2 28.6 29.3 33.4 37.7
 9        1    2    3
         48.6 45.4 31.1
10        1
         26.6
11        1    2    3    4    5    6
         23.5 20.9 15.9 15.3 14.1 13.5
12        1    2    3    4    5
         10.0  9.6  9.4  9.2  7.2
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         24.6 28.8 23.3 29.5 25.8 22.0 21.3 19.4 19.1 18.1

         17.1 16.7 15.8 15.0
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         15.0 15.8 16.6 17.4 17.8 19.1 19.6 21.1 22.5 26.4

         28.7 24.8 29.2 24.7
15        1    2    3    4    5    6    7    8    9   10

         17.5 25.3 20.9 21.4 21.8 22.1 22.2 22.1 21.9 27.4

16        1    2    3    4    5    6    7    8    9   10

         27.3 21.8 22.1 22.0 21.9 21.7 21.3 20.8 25.3 19.0

17        1    2    3    4    5    6    7
         10.0 11.1 11.5 12.4 13.9 14.5 14.1
18        1    2    3    4    5    6    7
         12.5 14.5 13.9 12.2 11.4 11.0  9.8
```

```
1

 RECEIVER    LEQ(H)   L10
 33           53.1   55.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            6.4  8.4  8.7  8.8  9.3 10.5
    2        1    2    3    4    5    6
           13.4 14.4 15.0 19.8 22.3 25.4
    3        1
           30.0
    4        1    2    3
           42.6 48.0 39.8
    5        1    2    3    4    5    6
           34.1 30.0 29.2 32.7 33.4 29.2
    6        1    2    3
           25.4 24.1 27.2
    7        1    2    3    4
           27.2 23.9 25.3 27.6
    8        1    2    3    4    5    6
           33.3 32.7 29.1 29.8 34.0 38.3
    9        1    2    3
           47.2 42.7 30.6
   10        1
           25.8
   11        1    2    3    4    5    6
           22.7 20.1 15.2 14.6 13.5 12.8
   12        1    2    3    4    5
            9.4  8.9  8.8  8.5  6.6
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           24.2 28.5 23.0 29.1 25.2 23.4 21.6 18.7 18.4 17.5

           16.4 16.2 15.2 14.4
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           14.4 15.1 16.1 16.8 17.2 18.3 18.8 21.4 23.8 25.7

           28.3 24.5 28.9 24.2
   15        1    2    3    4    5    6    7    8    9   10

           16.5 24.8 20.4 20.8 21.2 21.4 21.5 21.5 21.3 26.7

   16        1    2    3    4    5    6    7    8    9   10

           26.7 21.1 21.4 21.3 21.3 21.1 20.8 20.3 24.8 17.4

   17        1    2    3    4    5    6    7
            9.3 10.4 10.8 12.6 14.3 16.4 12.8
   18        1    2    3    4    5    6    7
           12.6 16.4 14.3 12.4 10.7 10.3  9.1
1

 RECEIVER    LEQ(H)   L10
 34           50.2   52.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            6.3  8.3  8.6  8.7  9.3 10.6
    2        1    2    3    4    5    6
           13.3 14.2 14.5 18.9 20.6 22.7
    3        1
           25.9
    4        1    2    3
           37.7 43.4 40.0
    5        1    2    3    4    5    6
           35.0 31.0 30.2 33.7 34.3 30.2
    6        1    2    3
           26.5 25.1 28.0
    7        1    2    3    4
           27.9 24.8 26.3 28.6
    8        1    2    3    4    5    6
           34.2 33.6 30.0 30.7 34.6 38.3
    9        1    2    3
           42.9 38.2 26.1
   10        1
           22.5
   11        1    2    3    4    5    6
           20.7 18.9 14.5 14.1 13.2 12.7
   12        1    2    3    4    5
            9.2  8.7  8.6  8.3  6.3
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           23.0 27.4 21.8 27.9 21.2 18.8 17.3 17.0 17.3 17.1

           17.0 17.4 16.9 16.5
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           16.5 16.8 17.3 17.4 16.8 17.3 17.1 17.0 19.2 21.7

           27.2 23.4 27.8 23.1
   15        1    2    3    4    5    6    7    8    9   10

           13.4 23.0 19.0 19.4 19.7 19.8 19.9 19.9 19.7 25.2

   16        1    2    3    4    5    6    7    8    9   10

           25.2 19.5 19.8 19.7 19.7 19.6 19.3 18.9 23.2 13.8

   17        1    2    3    4    5    6    7
            8.8  9.4  9.0  8.6  9.4 12.1 10.0
   18        1    2    3    4    5    6    7
            9.6 12.1  9.5  8.6  8.9  9.3  8.6
1

 RECEIVER    LEQ(H)   L10
 35           48.7   50.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
           22.2 24.2 24.5 24.6 25.2 26.5
    2        1    2    3    4    5    6
           29.3 30.2 30.6 33.6 27.0 26.3
    3        1
           25.5
    4        1    2    3
           27.3 31.2 28.1
    5        1    2    3    4    5    6
           24.4 31.2 31.7 35.3 35.9 31.3
    6        1    2    3
           27.4 25.9 28.8
    7        1    2    3    4
           28.7 25.7 27.2 29.7
    8        1    2    3    4    5    6
           35.7 35.2 31.5 28.8 24.0 26.4
    9        1    2    3
           30.7 27.1 26.1
   10        1
           26.8
   11        1    2    3    4    5    6
           27.4 31.6 30.6 30.1 29.2 28.6
   12        1    2    3    4    5
           25.1 24.6 24.5 24.2 22.3
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           12.4 16.9 11.6 19.0 22.9 24.1 27.6 27.9 31.7 33.0

           32.8 33.1 32.6 32.1
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           32.1 32.5 33.0 33.2 32.7 31.7 28.0 27.4 24.7 22.9

           18.0 13.1 17.2 12.5
   15        1    2    3    4    5    6    7    8    9   10

           14.7 14.4  8.4  8.7  8.9  9.0  8.9  8.8  8.5 13.8

   16        1    2    3    4    5    6    7    8    9   10

           13.8  8.4  8.7  8.7  8.8  8.8  8.6  8.3 14.0 14.5

   17        1    2    3    4    5    6    7
           24.8 21.8 19.1 18.6 16.2 15.9 11.2
   18        1    2    3    4    5    6    7
           11.0 16.0 16.4 18.7 19.0 21.9 24.6
1

 RECEIVER    LEQ(H)   L10
 36           49.9   51.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
           22.2 24.2 24.5 24.6 25.2 26.5
    2        1    2    3    4    5    6
           29.2 30.2 30.5 34.3 27.0 26.1
    3        1
           25.2
    4        1    2    3
           30.4 34.8 37.1
    5        1    2    3    4    5    6
           35.8 32.1 31.4 35.2 35.8 31.4
    6        1    2    3
           27.4 26.0 28.8
    7        1    2    3    4
           28.8 25.8 27.3 29.8
    8        1    2    3    4    5    6
           35.7 35.1 31.2 31.8 35.5 35.3
    9        1    2    3
           34.4 31.0 26.2
   10        1
           27.0
   11        1    2    3    4    5    6
           27.3 32.8 30.5 30.1 29.2 28.6
   12        1    2    3    4    5
           25.1 24.6 24.5 24.2 22.2
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           18.9 23.4 18.2 25.3 26.3 27.0 28.2 27.9 32.8 33.0

           32.8 33.1 32.6 32.1
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           32.1 32.5 33.0 33.2 32.7 32.9 28.0 28.0 27.5 26.3

           24.5 19.8 23.8 18.9
   15        1    2    3    4    5    6    7    8    9   10

           18.3 20.5 15.1 15.2 15.6 15.5 15.2 15.1 15.0 19.9

   16        1    2    3    4    5    6    7    8    9   10

           19.9 14.9 15.0 15.0 15.4 15.5 15.2 14.8 20.4 18.4

   17        1    2    3    4    5    6    7
           24.7 23.5 19.2 18.7 18.8 18.0 14.3
   18        1    2    3    4    5    6    7
           14.0 18.1 19.0 18.7 19.1 23.6 24.6
1

 RECEIVER    LEQ(H)   L10
 37           49.1   50.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
           22.1 24.1 24.4 24.5 25.1 26.3
    2        1    2    3    4    5    6
           29.1 30.1 30.3 34.7 30.9 25.1
    3        1
           24.4
    4        1    2    3
           27.8 30.9 27.6
    5        1    2    3    4    5    6
           33.3 30.3 29.8 33.7 34.7 30.4
    6        1    2    3
           26.5 25.0 27.9
    7        1    2    3    4
           27.8 24.8 26.3 28.7
    8        1    2    3    4    5    6
           34.5 33.6 29.6 30.0 32.8 26.2
    9        1    2    3
           30.5 28.5 25.1
   10        1
           26.9
   11        1    2    3    4    5    6
           27.0 34.6 30.3 29.9 29.1 28.5
   12        1    2    3    4    5
           25.0 24.5 24.4 24.1 22.1
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           21.5 25.4 19.2 25.6 27.7 28.5 28.1 32.6 33.1 32.9
```

```
          32.7 33.1 32.5 32.1
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          32.1 32.5 33.0 33.1 32.6 33.1 32.7 27.9 28.9 27.6

          24.7 20.7 25.8 21.5
   15       1    2    3    4    5    6    7    8    9   10

          19.2 20.8 17.2 17.8 17.5 17.8 18.1 18.4 13.9 15.8

   16       1    2    3    4    5    6    7    8    9   10

          15.7 13.9 18.4 18.0 17.7 17.3 17.7 17.1 20.9 19.0

   17       1    2    3    4    5    6    7
          24.6 25.2 23.1 18.7 19.7 20.5 14.8
   18       1    2    3    4    5    6    7
          14.9 20.5 19.7 18.6 23.2 25.1 24.5
1

 RECEIVER    LEQ(H)   L10
 38           50.7   52.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
          24.7 26.8 27.2 27.5 28.2 29.7
    2       1    2    3    4    5    6
          32.6 33.9 34.4 35.3 32.5 33.0
    3       1
          33.8
    4       1    2    3
          37.4 37.6 28.2
    5       1    2    3    4    5    6
          23.6 19.8 19.4 23.5 26.2 23.3
    6       1    2    3
          20.8 20.2 23.3
    7       1    2    3    4
          23.3 19.7 20.3 21.7
    8       1    2    3    4    5    6
          26.0 23.9 19.3 19.9 23.6 27.1
    9       1    2    3
          37.8 38.2 33.7
   10       1
          34.6
   11       1    2    3    4    5    6
          32.8 31.9 34.0 33.7 32.6 31.8
   12       1    2    3    4    5
          28.1 27.5 27.2 26.8 24.8
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          19.5 23.7 18.1 24.9 30.6 31.0 30.6 30.3 30.6 35.3

          35.3 35.6 35.0 34.5
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          34.5 35.0 35.5 35.6 35.0 30.6 30.5 30.4 31.4 30.6

          23.9 19.7 24.1 19.6
   15       1    2    3    4    5    6    7    8    9   10

          22.5 20.5 16.3 16.9 17.6 18.3 19.0 18.9 18.7 24.3

   16       1    2    3    4    5    6    7    8    9   10

          24.1 18.6 18.9 18.8 18.2 17.5 16.9 16.2 20.4 22.2

   17       1    2    3    4    5    6    7
          26.6 22.8 22.3 21.8 22.8 23.4 19.1
   18       1    2    3    4    5    6    7
          19.0 23.4 22.8 21.7 22.2 22.7 26.5
1

 RECEIVER    LEQ(H)   L10
 39           50.7   52.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
          24.4 26.5 26.9 27.1 27.8 29.2
    2       1    2    3    4    5    6
          32.1 33.3 33.9 37.6 31.7 31.3
    3       1
          31.8
    4       1    2    3
          37.4 35.8 30.0
    5       1    2    3    4    5    6
          25.3 21.3 20.8 24.9 27.0 24.2
    6       1    2    3
          21.2 20.3 23.7
    7       1    2    3    4
          23.6 20.1 21.0 22.6
    8       1    2    3    4    5    6
          26.9 24.9 20.8 21.3 25.6 28.7
    9       1    2    3
          35.7 37.9 31.9
   10       1
          33.3
   11       1    2    3    4    5    6
          31.8 35.7 33.9 33.2 32.1 31.3
   12       1    2    3    4    5
          27.7 27.1 26.9 26.5 24.4
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          20.5 24.7 19.2 28.8 30.4 30.7 30.3 30.0 34.3 35.1

          35.0 35.3 34.7 34.2
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          34.2 34.7 35.2 35.3 34.9 34.3 30.2 30.1 31.2 30.5

          28.2 20.7 25.0 20.6
   15       1    2    3    4    5    6    7    8    9   10

          22.4 23.4 17.1 17.7 18.3 19.3 19.8 19.8 19.5 24.7

   16       1    2    3    4    5    6    7    8    9   10

          24.7 19.4 19.7 19.6 19.2 18.2 17.6 17.0 23.0 22.4

   17       1    2    3    4    5    6    7
          27.5 25.2 21.9 21.4 22.4 23.0 18.9
   18       1    2    3    4    5    6    7
          18.7 23.0 22.4 21.4 21.8 25.3 27.4
1

 RECEIVER    LEQ(H)   L10
 40           50.2   51.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
          23.8 25.8 26.2 26.4 27.0 28.4
    2       1    2    3    4    5    6
          31.3 32.4 32.9 37.5 30.2 29.2
    3       1
          29.4
    4       1    2    3
          32.7 38.3 30.4
    5       1    2    3    4    5    6
          28.6 22.8 22.3 26.3 27.7 24.6
    6       1    2    3
          21.7 20.9 24.1
    7       1    2    3    4
          24.2 20.6 21.5 23.0
    8       1    2    3    4    5    6
          27.6 26.3 22.3 25.0 27.4 29.0
    9       1    2    3
          38.2 33.5 29.7
   10       1
          31.2
   11       1    2    3    4    5    6
          30.3 36.1 32.9 32.3 31.3 30.5
   12       1    2    3    4    5
          26.9 26.4 26.2 25.8 23.8
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          21.0 25.2 19.7 26.9 29.8 30.1 29.7 30.9 34.8 34.5

          34.4 34.7 34.1 33.7
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          33.7 34.1 34.6 34.7 34.3 34.8 31.2 29.5 30.6 29.9

          25.9 21.1 25.6 21.0
   15       1    2    3    4    5    6    7    8    9   10

          21.7 22.1 17.3 17.9 19.4 19.8 20.1 20.1 20.6 24.0

   16       1    2    3    4    5    6    7    8    9   10

          24.0 20.5 20.1 19.9 19.7 19.3 18.0 17.2 21.7 21.8

   17       1    2    3    4    5    6    7
          26.7 26.6 21.1 20.7 21.7 22.3 18.2
   18       1    2    3    4    5    6    7
          18.0 22.3 21.7 20.6 21.0 26.7 26.6
1

 RECEIVER    LEQ(H)   L10
 41           49.6   51.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
          23.1 25.1 25.4 25.6 26.2 27.6
    2       1    2    3    4    5    6
          30.4 31.4 31.8 36.2 28.7 27.7
    3       1
          27.3
    4       1    2    3
          31.2 38.3 31.2
    5       1    2    3    4    5    6
          26.3 22.7 22.2 26.5 27.9 28.1
    6       1    2    3
          26.1 24.8 27.9
    7       1    2    3    4
          27.9 24.6 26.0 25.2
    8       1    2    3    4    5    6
          28.0 26.4 22.1 22.5 26.2 29.8
    9       1    2    3
          38.1 32.0 27.9
   10       1
          29.2
   11       1    2    3    4    5    6
          28.9 34.9 31.8 31.3 30.3 29.7
   12       1    2    3    4    5
          26.1 25.6 25.4 25.1 23.1
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          21.6 25.7 19.4 25.7 27.1 29.5 29.0 29.9 34.1 33.9

          33.7 34.0 33.5 33.0
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          33.0 33.4 33.9 34.0 33.6 34.1 30.2 28.8 29.9 27.0

          24.9 20.8 26.0 21.7
   15       1    2    3    4    5    6    7    8    9   10

          18.3 21.2 17.8 18.4 18.8 17.8 17.6 17.6 17.7 23.5

   16       1    2    3    4    5    6    7    8    9   10

          23.5 17.6 17.6 17.3 17.7 18.6 18.4 17.7 21.3 18.3

   17       1    2    3    4    5    6    7
          25.8 25.6 20.2 19.7 20.8 20.7 14.4
   18       1    2    3    4    5    6    7
          14.1 20.8 20.8 19.7 20.1 25.7 25.7
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                    *************************
                           STAM2VU1
                         Version 1.20
                   *************************
                       STAMINA 2.0/BCR
              MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
                 TRAFFIC NOISE PREDICTION MODEL

          MODIFIED TO:
            1.   ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
            2.   CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY
                 USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
            3.   PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A
                 DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE
                 LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.
                    *************************
             MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
                BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
                      AND BOWLBY & ASSOCIATES, INC.
                        2014 BROADWAY, SUITE 210
                        NASHVILLE, TN 37203-2425
                  TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE
HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK
CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE
*.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.


          (INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH )


 Meadowood - Multi-Family 2nd Floor (Receivers 27-41)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

      HEIGHT      CODE         DESCRIPTION
         .00         1      RECEIVER HEIGHT ADJUSTMENT
        1.00         2      A-WEIGHTED SOUND LEVEL ONLY
         .00         3      HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
         .00         4      HEIGHT ADJUSTMENT FOR HEAVY TRUCKS   (HT)
         .00         5      HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS  (MT)
        .000         6      HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4)
                            CARS--CALVENO
                            C0 =       5.20  C1 =      38.80  S0 =        .00
       2.300         7      HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5)
                            MT--CALVENO
                            C0 =      35.30  C1 =      25.60  S0 =        .00
       8.000         8      HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6)
                            HT--CALVENO
                            C0 =      50.40  C1 =      19.20  S0 =        .00


0ROADWAY   1     HRC nb (76 to Pankey)

                    VEHICLE TYPE  VEHICLES/HOUR     SPEED
                         CARS              0.        30.0
                         HT                0.        30.0
                         MT                0.        30.0
                         VEH4            415.        40.0
                         VEH5             13.        40.0
                         VEH6              9.        40.0
0                      ------------COORDINATES------------
                          X            Y            Z      GRADE
 1                     6287767.4   2067284.0      276.0      0
 2                     6287704.7   2067456.2      276.0      0
 3                     6287629.7   2067702.5      279.0      0
 4                     6287568.8   2067936.5      284.0      0
 5                     6287512.3   2068148.3      284.0      0
 6                     6287446.9   2068359.4      282.0      0
 7                     6287374.5   2068606.6      279.0      0

0ROADWAY   2     HRC nb (Pankey to School)

                    VEHICLE TYPE  VEHICLES/HOUR     SPEED
                         CARS              0.        30.0
                         HT                0.        30.0
                         MT                0.        30.0
                         VEH4            695.        40.0
                         VEH5             22.        40.0
                         VEH6             15.        40.0
0                      ------------COORDINATES------------
                          X            Y            Z      GRADE
 7                     6287374.5   2068606.6      279.0      0
 8                     6287273.9   2068832.6      278.0      0
 9                     6287137.9   2069057.7      278.0      0
 10                    6287017.0   2069263.4      280.0      0
 11                    6286760.9   2069688.9      285.0      0
 12                    6286533.2   2070137.4      290.0      0
 13                    6286310.7   2070587.7      296.0      0

0ROADWAY   3     HRC nb (School to 26)

                    VEHICLE TYPE  VEHICLES/HOUR     SPEED
                         CARS              0.        30.0
                         HT                0.        30.0
                         MT                0.        30.0
                         VEH4            689.        40.0
                         VEH5             22.        40.0
                         VEH6             15.        40.0
0                      ------------COORDINATES------------
                          X            Y            Z      GRADE
 13                    6286310.7   2070587.7      296.0      0
 14                    6286086.4   2071030.0      302.0      0

0ROADWAY   4     HRC nb (26 to Harvest Glen)

                    VEHICLE TYPE  VEHICLES/HOUR     SPEED
                         CARS              0.        30.0
                         HT                0.        30.0
                         MT                0.        30.0
                         VEH4            634.        40.0
                         VEH5             20.        40.0
                         VEH6             13.        40.0
0                      ------------COORDINATES------------
                          X            Y            Z      GRADE
 14                    6286086.4   2071030.0      302.0      0
 15                    6285859.5   2071475.8      308.0      0
 16                    6285540.8   2072106.2      311.0      0
 17                    6285403.1   2072385.2      310.0      0

0ROADWAY   5     HRC nb (Harvest Glen to Longspur)

                    VEHICLE TYPE  VEHICLES/HOUR     SPEED
                         CARS              0.        30.0
                         HT                0.        30.0
                         MT                0.        30.0
                         VEH4            488.        40.0
                         VEH5             15.        40.0
                         VEH6             10.        40.0
0                      ------------COORDINATES------------
                          X            Y            Z      GRADE
 17                    6285403.1   2072385.2      310.0      0
 18                    6285328.1   2072574.1      310.0      0
 19                    6285298.0   2072673.9      310.0      0
 20                    6285270.7   2072773.6      311.0      0
 21                    6285221.2   2073078.2      314.0      0
 22                    6285201.8   2073673.3      322.0      0
 23                    6285188.6   2074037.0      338.0      0

0ROADWAY   6     HRC nb (Longspur to Baltimore)

                    VEHICLE TYPE  VEHICLES/HOUR     SPEED
                         CARS              0.        30.0
                         HT                0.        30.0
                         MT                0.        30.0
                         VEH4            347.        40.0
                         VEH5             11.        40.0
                         VEH6              7.        40.0
0                      ------------COORDINATES------------
                          X            Y            Z      GRADE
 23                    6285188.6   2074037.0      338.0      0
 24                    6285145.3   2074308.9      346.0      0
 25                    6285056.1   2074546.4      351.0      0
 26                    6284650.0   2075149.4      356.0      0

0ROADWAY   7     HRC sb (Baltimore to Longspur)

                    VEHICLE TYPE  VEHICLES/HOUR     SPEED
                         CARS              0.        30.0
                         HT                0.        30.0
                         MT                0.        30.0
                         VEH4            347.        40.0
                         VEH5             11.        40.0
                         VEH6              7.        40.0
0                      ------------COORDINATES------------
                          X            Y            Z      GRADE
 1                     6284621.8   2075132.6      356.0      0
 2                     6285015.5   2074527.9      351.0      0
 3                     6285099.4   2074300.1      346.0      0
 4                     6285141.8   2074033.5      338.0      0
 5                     6285159.4   2073671.5      322.0      0

0ROADWAY   8     HRC sb (Longspur to Harvest Glen)

                    VEHICLE TYPE  VEHICLES/HOUR     SPEED
                         CARS              0.        30.0
                         HT                0.        30.0
                         MT                0.        30.0
                         VEH4            488.        40.0
                         VEH5             15.        40.0
                         VEH6             10.        40.0
0                      ------------COORDINATES------------
                          X            Y            Z      GRADE
 5                     6285159.4   2073671.5      322.0      0
 6                     6285181.5   2073072.9      314.0      0
 7                     6285228.3   2072759.5      311.0      0
 8                     6285256.5   2072658.0      310.0      0
 9                     6285287.4   2072557.3      310.0      0
 10                    6285368.7   2072369.3      310.0      0
 11                    6285504.6   2072087.7      311.0      0

0ROADWAY   9     HRC sb (Harvest Glen to 26)

                    VEHICLE TYPE  VEHICLES/HOUR     SPEED
                         CARS              0.        30.0
                         HT                0.        30.0
                         MT                0.        30.0
                         VEH4            634.        40.0
                         VEH5             20.        40.0
                         VEH6             13.        40.0
0                      ------------COORDINATES------------
                          X            Y            Z      GRADE
 11                    6285504.6   2072087.7      311.0      0
 12                    6285818.9   2071457.3      308.0      0
 13                    6286045.8   2071007.9      302.0      0
 14                    6286269.2   2070567.4      296.0      0

0ROADWAY  10     HRC sb (26 to School)

                    VEHICLE TYPE  VEHICLES/HOUR     SPEED
                         CARS              0.        30.0
                         HT                0.        30.0
                         MT                0.        30.0
                         VEH4            689.        40.0
                         VEH5             22.        40.0
                         VEH6             14.        40.0
0                      ------------COORDINATES------------
                          X            Y            Z      GRADE
 14                    6286269.2   2070567.4      296.0      0
 15                    6286493.4   2070122.4      290.0      0

0ROADWAY  11     HRC sb (School to Pankey)

                    VEHICLE TYPE  VEHICLES/HOUR     SPEED
                         CARS              0.        30.0
                         HT                0.        30.0
                         MT                0.        30.0
                         VEH4            695.        40.0
                         VEH5             22.        40.0
                         VEH6             15.        40.0
0                      ------------COORDINATES------------
                          X            Y            Z      GRADE
 15                    6286493.4   2070122.4      290.0      0
 16                    6286720.3   2069667.7      285.0      0
 17                    6286977.2   2069239.6      280.0      0
 18                    6287102.6   2069033.0      278.0      0
 19                    6287238.6   2068813.1      278.0      0
```

20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0

	COORDINATES X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

1

BARRIER 1 TYPE(A) Pad Edges 1

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286634.5	2070357.0	305.0	305.0	.0	0
2	6286501.9	2070298.3	305.0	305.0		
3	6286265.0	2070793.0	310.0	310.0		
4	6286320.8	2070828.4	310.0	310.0		

1

BARRIER 2 TYPE(A) Pad Edges 2

	COORDINATES X	Y	Z	Z0	DELZ	P
5	6286349.5	2070944.8	310.0	310.0	.0	0
6	6286239.3	2070896.7	310.0	310.0		
7	6286196.9	2070902.4	310.0	310.0		
8	6286078.1	2071137.0	310.0	310.0		
9	6286004.6	2071292.5	312.0	312.0		
10	6286004.6	2071603.5	314.0	314.0		
11	6286004.6	2071990.8	319.0	319.0		
12	6286004.5	2072360.7	322.0	322.0		
13	6286289.0	2072499.4	326.0	326.0		
14	6286498.0	2072566.2	328.0	328.0		

1

BARRIER 3 TYPE(A) Multi-Family Bldg1

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286293.5	2071017.0	334.0	314.0	.0	0
2	6286314.7	2070974.6	334.0	314.0		
3	6286206.2	2070920.9	334.0	314.0		
4	6286185.0	2070960.9	334.0	314.0		
1	6286293.5	2071017.0	334.0	314.0		

1

BARRIER 4 TYPE(A) Multi-Family Bldg2

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286185.2	2071006.5	331.0	311.0	.0	0
2	6286122.1	2071123.3	331.0	311.0		
3	6286165.8	2071145.3	331.0	311.0		
4	6286228.3	2071030.4	331.0	311.0		
1	6286185.2	2071006.5	331.0	311.0		

1

BARRIER 5 TYPE(A) Multi-Family Bldg3

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286096.9	2071162.4	331.0	311.0	.0	0
2	6286074.3	2071206.2	331.0	311.0		
3	6286176.9	2071259.1	331.0	311.0		
4	6286199.5	2071215.2	331.0	311.0		
1	6286096.9	2071162.4	331.0	311.0		

1

BARRIER 6 TYPE(A) Multi-Family Bldg4

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286040.8	2071261.0	335.0	315.0	.0	0
2	6286037.7	2071397.8	335.0	315.0		
3	6286087.0	2071398.7	335.0	315.0		
4	6286090.0	2071263.1	335.0	315.0		
1	6286040.8	2071261.0	335.0	315.0		

1

BARRIER 7 TYPE(A) Multi-Family Bldg5

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286026.6	2071459.1	335.0	315.0	.0	0
2	6286026.0	2071506.4	335.0	315.0		
3	6286168.2	2071508.9	335.0	315.0		
4	6286168.8	2071460.7	335.0	315.0		
1	6286026.6	2071459.1	335.0	315.0		

1

BARRIER 8 TYPE(A) Multi-Family Bldg6

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286021.5	2071584.4	338.0	318.0	.0	0
2	6286164.9	2071586.7	338.0	318.0		
3	6286164.8	2071538.3	338.0	318.0		
4	6286022.0	2071536.9	338.0	318.0		
1	6286021.5	2071584.4	338.0	318.0		

```
1

 BARRIER   9   TYPE(A)     Multi-Family Bldg7

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286030.6 2071645.8     337.0      317.0        .0          0
 2         6286028.7 2071788.7     337.0      317.0
 3         6286076.0 2071788.6     337.0      317.0
 4         6286077.9 2071647.2     337.0      317.0
 1         6286030.6 2071645.8     337.0      317.0
1

 BARRIER  10   TYPE(A)     Multi-Family Bldg8

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286027.4 2071954.0     340.0      320.0        .0          0
 2         6286029.3 2071811.9     340.0      320.0
 3         6286076.6 2071813.2     340.0      320.0
 4         6286074.8 2071954.6     340.0      320.0
 1         6286027.4 2071954.0     340.0      320.0
1

 BARRIER  11   TYPE(A)     Multi-Family Bldg9

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286020.5 2072010.2     340.0      320.0        .0          0
 2         6286020.6 2072059.5     340.0      320.0
 3         6286157.6 2072058.9     340.0      320.0
 4         6286158.3 2072011.6     340.0      320.0
 1         6286020.5 2072010.2     340.0      320.0
1

 BARRIER  12   TYPE(A)     Multi-Family Bldg10

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286019.8 2072088.7     341.0      321.0        .0          0
 2         6286152.1 2072089.6     341.0      321.0
 3         6286152.7 2072138.9     341.0      321.0
 4         6286020.0 2072139.2     341.0      321.0
 1         6286019.8 2072088.7     341.0      321.0
1

 BARRIER  13   TYPE(A)     Multi-Family Bldg11

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286021.1 2072177.9     342.0      322.0        .0          0
 2         6286021.1 2072227.4     342.0      322.0
 3         6286126.4 2072235.5     342.0      322.0
 4         6286133.9 2072178.1     342.0      322.0
 1         6286021.1 2072177.9     342.0      322.0
1

 BARRIER  14   TYPE(A)     Multi-Family Bldg12

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286087.8 2072377.7     344.0      324.0        .0          0
 2         6286126.4 2072300.4     344.0      324.0
 3         6286082.8 2072279.2     344.0      324.0
 4         6286044.1 2072355.2     344.0      324.0
 1         6286087.8 2072377.7     344.0      324.0
1

 BARRIER  15   TYPE(A)     Multi-Family Bldg13

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286220.0 2072454.4     346.0      326.0        .0          0
 2         6286260.6 2072377.3     346.0      326.0
 3         6286217.5 2072353.4     346.0      326.0
 4         6286175.6 2072431.2     346.0      326.0
 1         6286220.0 2072454.4     346.0      326.0
1

 BARRIER  16   TYPE(A)     Multi-Family Bldg14

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286256.0 2072467.0     346.0      326.0        .0          0
 2         6286285.8 2072408.5     346.0      326.0
 3         6286330.0 2072430.9     346.0      326.0
 4         6286300.2 2072490.2     346.0      326.0
 1         6286256.0 2072467.0     346.0      326.0
1

 Receivers @ 15'


                        ------------COORDINATES-------------
                                X          Y          Z
 27                       6286446.6  2070441.9      320.0
 28                       6286347.9  2070675.0      325.0
 29                       6286282.6  2070935.3      329.0
 30                       6286138.6  2071056.6      326.0
 31                       6286021.6  2071327.5      329.0
 32                       6286015.6  2071717.5      332.0
 33                       6286013.9  2071883.5      334.0
 34                       6286016.1  2072278.5      337.0
 35                       6286127.6  2072366.2      339.0
 36                       6286181.6  2072397.1      340.0
 37                       6286357.6  2072495.3      342.0
 38                       6286333.2  2071320.8      328.0
 39                       6286364.4  2071474.8      330.0
 40                       6286366.6  2071739.9      333.0
 41                       6286306.3  2072022.2      335.0
1

  ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

  1 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  2 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  3 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  4 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  5 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  6 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  7 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  8 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  9 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 10 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 11 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 12 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 13 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 14 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 15 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 16 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 17 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 18 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
1

  SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

  1 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  2 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  3 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  4 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  5 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  6 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  7 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  8 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  9 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 10 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 11 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 12 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 13 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 14 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 15 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 16 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 17 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 18 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
1

 RECEIVER    LEQ(H)   L10
 27           67.9   71.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          27.2 29.4 30.0 30.4 31.3 33.0
   2        1    2    3    4    5    6
          36.3 37.9 39.0 45.2 51.7 65.2
   3        1
          54.4
   4        1    2    3
          46.0 42.9 33.8
   5        1    2    3    4    5    6
          28.0 23.8 23.4 23.7 25.5 22.5
   6        1    2    3
          19.5 18.7 22.2
   7        1    2    3    4
          22.2 18.5 19.4 20.9
   8        1    2    3    4    5    6
          25.5 26.0 24.1 27.0 32.0 35.1
   9        1    2    3
          42.8 46.0 53.6
  10        1
          62.2
  11        1    2    3    4    5    6
          51.7 45.2 39.0 37.8 36.2 35.1
  12        1    2    3    4    5
          31.2 30.4 30.0 29.4 27.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.6 37.0 31.5 37.9 38.5 38.8 38.4 38.0 38.2 37.9

          37.6 37.9 37.3 36.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.8 37.2 37.8 38.0 37.6 38.2 38.2 38.2 39.3 38.6

          37.1 33.1 37.4 32.7
  15        1    2    3    4    5    6    7    8    9   10

          31.1 34.6 30.4 31.0 31.4 31.5 31.5 31.0 30.5 35.2

  16        1    2    3    4    5    6    7    8    9   10

          35.1 30.3 31.0 31.2 31.4 31.2 30.9 30.2 34.5 31.0

  17        1    2    3    4    5    6    7
          31.4 32.1 31.8 31.2 31.8 32.2 27.8
  18        1    2    3    4    5    6    7
          27.6 32.2 31.8 31.1 31.6 31.9 31.2
1

 RECEIVER    LEQ(H)   L10
 28           66.9   70.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.4 28.6 29.1 29.5 30.3 31.9
   2        1    2    3    4    5    6
          34.3 34.9 35.2 39.5 45.6 58.9
   3        1
          63.2
   4        1    2    3
          48.3 41.9 29.3
   5        1    2    3    4    5    6
          25.2 21.6 21.1 25.3 26.9 23.6
```

```
  6        1    2    3
          20.4 19.5 22.9
  7        1    2    3    4
          22.9 19.3 20.3 22.0
  8        1    2    3    4    5    6
          26.8 25.3 21.3 21.6 26.6 35.4
  9        1    2    3
          44.6 49.0 60.1
 10        1
          57.5
 11        1    2    3    4    5    6
          47.9 41.2 35.3 34.9 34.3 34.0
 12        1    2    3    4    5
          30.2 29.5 29.1 28.6 26.5
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          32.1 36.4 30.9 37.3 37.8 38.1 37.6 37.3 37.5 37.1

          36.9 37.1 36.5 36.0
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          36.0 36.5 37.0 37.3 36.9 37.5 37.4 37.5 38.5 38.0

          36.5 32.5 36.8 32.2
 15        1    2    3    4    5    6    7    8    9   10

          30.3 33.8 29.5 30.1 30.6 30.8 30.8 30.5 30.1 34.9

 16        1    2    3    4    5    6    7    8    9   10

          34.9 29.9 30.4 30.6 30.6 30.4 30.0 29.4 33.7 30.3

 17        1    2    3    4    5    6    7
          30.3 30.9 30.7 30.2 30.9 31.3 27.0
 18        1    2    3    4    5    6    7
          26.8 31.3 30.9 30.1 30.5 30.8 30.1
1

 RECEIVER    LEQ(H)   L10
 29           62.0   65.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
          25.2 27.4 28.3 28.1 28.3 28.7
  2        1    2    3    4    5    6
          31.0 31.7 32.1 36.7 39.9 46.9
  3        1
          58.6
  4        1    2    3
          40.5 35.4 28.0
  5        1    2    3    4    5    6
          23.5 19.8 19.3 23.2 24.5 20.8
  6        1    2    3
          17.3 16.2 19.7
  7        1    2    3    4
          19.6 16.0 17.2 19.3
  8        1    2    3    4    5    6
          24.4 23.2 19.3 19.8 23.5 26.9
  9        1    2    3
          35.4 40.3 57.0
 10        1
          49.0
 11        1    2    3    4    5    6
          41.0 36.7 32.1 31.6 31.0 30.8
 12        1    2    3    4    5
          28.2 28.1 28.3 27.4 25.3
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          31.4 35.8 30.2 36.6 37.1 37.3 36.9 36.5 36.7 36.4

          36.2 36.4 35.8 35.3
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          35.3 35.8 36.3 36.5 36.1 36.7 36.7 36.7 37.8 37.2

          35.8 31.8 36.2 31.5
 15        1    2    3    4    5    6    7    8    9   10

          29.5 32.9 28.6 29.1 29.6 29.9 30.0 29.7 29.4 34.4

 16        1    2    3    4    5    6    7    8    9   10

          34.3 29.2 29.7 29.7 29.7 29.5 29.1 28.4 32.8 29.5

 17        1    2    3    4    5    6    7
          26.7 27.9 29.6 29.2 29.9 30.4 26.2
 18        1    2    3    4    5    6    7
          25.9 30.4 29.9 29.1 29.5 29.5 26.8
1

 RECEIVER    LEQ(H)   L10
 30           67.6   71.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
          25.2 27.3 27.7 28.0 27.3 20.4
  2        1    2    3    4    5    6
          23.3 24.4 24.9 39.2 43.7 48.6
  3        1
          62.5
  4        1    2    3
          62.1 48.9 40.2
  5        1    2    3    4    5    6
          35.5 31.7 31.1 32.6 28.0 24.4
  6        1    2    3
          21.2 20.2 23.7
  7        1    2    3    4
          23.7 20.0 21.1 22.9
  8        1    2    3    4    5    6
          28.0 34.7 31.1 31.7 35.5 39.0
  9        1    2    3
          48.8 59.6 59.4
 10        1
          48.5
 11        1    2    3    4    5    6
          43.7 40.4 35.2 30.1 24.4 31.4
 12        1    2    3    4    5
          28.7 28.0 27.8 27.3 25.3
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          31.2 35.5 30.0 36.3 36.8 37.0 36.5 36.1 36.3 35.9

          31.0 26.6 26.0 25.5
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          25.5 25.9 26.5 31.8 35.7 36.3 36.3 36.3 37.4 36.9

          35.5 31.5 35.9 31.3
 15        1    2    3    4    5    6    7    8    9   10

          29.2 32.5 28.2 28.8 29.3 29.6 29.8 29.6 29.3 34.5

 16        1    2    3    4    5    6    7    8    9   10

          34.4 29.2 29.5 29.5 29.5 29.2 28.7 28.1 32.5 29.2

 17        1    2    3    4    5    6    7
          28.6 29.2 29.1 28.7 29.4 30.0 25.8
 18        1    2    3    4    5    6    7
          25.5 30.0 29.4 28.6 28.9 29.2 28.5
1

 RECEIVER    LEQ(H)   L10
 31           66.3   69.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
          14.6 16.7 16.9 17.1 17.7 18.9
  2        1    2    3    4    5    6
          21.8 22.9 23.5 28.3 31.0 34.5
  3        1
          48.5
  4        1    2    3
          63.4 53.9 42.5
  5        1    2    3    4    5    6
          37.4 33.4 32.7 36.4 37.3 33.2
  6        1    2    3
          29.3 28.1 31.4
  7        1    2    3    4
          31.3 27.9 29.2 31.6
  8        1    2    3    4    5    6
          37.3 36.5 32.8 33.4 37.4 41.3
  9        1    2    3
          53.5 60.9 50.6
 10        1
          34.5
 11        1    2    3    4    5    6
          31.2 28.4 23.6 22.9 21.8 21.2
 12        1    2    3    4    5
          17.7 17.2 17.1 16.7 14.8
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          30.6 34.9 29.3 35.6 36.1 36.2 35.7 34.0 26.6 25.5

          24.9 24.6 23.8 23.0
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          23.0 23.7 24.6 25.2 25.3 26.5 34.0 35.5 36.7 36.2

          34.8 30.9 35.3 30.7
 15        1    2    3    4    5    6    7    8    9   10

          28.4 31.7 27.3 27.9 28.4 28.7 28.9 28.8 28.6 34.0

 16        1    2    3    4    5    6    7    8    9   10

          33.9 28.4 28.7 28.7 28.6 28.2 27.8 27.1 31.6 28.4

 17        1    2    3    4    5    6    7
          17.6 18.5 24.9 27.7 28.5 29.1 25.0
 18        1    2    3    4    5    6    7
          24.7 29.1 28.5 27.6 24.4 18.3 17.4
1

 RECEIVER    LEQ(H)   L10
 32           61.2   64.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
          14.4 16.4 16.7 16.8 17.4 18.6
  2        1    2    3    4    5    6
          21.4 22.4 23.0 27.7 29.7 30.4
  3        1
          33.1
  4        1    2    3
          51.9 56.7 45.7
  5        1    2    3    4    5    6
          40.0 35.8 35.0 38.5 39.1 34.7
  6        1    2    3
          30.7 29.4 32.5
  7        1    2    3    4
          32.5 29.2 30.6 33.1
  8        1    2    3    4    5    6
          39.0 38.5 35.0 35.7 39.9 44.4
  9        1    2    3
          55.6 51.7 34.1
 10        1
          30.4
 11        1    2    3    4    5    6
          29.7 27.8 23.0 22.5 21.4 20.8
 12        1    2    3    4    5
          17.4 16.9 16.7 16.5 14.5
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          29.7 33.9 28.4 34.6 30.9 27.4 26.9 26.1 26.1 25.3

          24.6 24.5 23.7 22.9
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          22.9 23.6 24.4 25.0 25.0 26.0 26.3 26.7 27.8 31.5

          33.6 30.0 34.3 29.8
 15        1    2    3    4    5    6    7    8    9   10

          22.7 30.4 26.0 26.5 27.0 27.3 27.5 27.5 27.4 32.9

 16        1    2    3    4    5    6    7    8    9   10

          32.8 27.2 27.4 27.3 27.2 26.9 26.4 25.9 30.4 24.2

 17        1    2    3    4    5    6    7
          17.2 18.0 18.1 18.2 19.1 19.8 19.3
 18        1    2    3    4    5    6    7
          17.4 19.8 19.1 18.1 18.0 17.9 17.0
```

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1

 RECEIVER    LEQ(H)   L10
 33           60.0   62.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          13.1 15.1 15.4 15.5 16.0 17.3
   2        1    2    3    4    5    6
          20.0 21.1 21.6 26.3 28.6 29.4
   3        1
          30.9
   4        1    2    3
          48.7 55.4 47.1
   5        1    2    3    4    5    6
          41.2 36.9 36.0 39.5 39.9 35.4
   6        1    2    3
          31.3 29.9 33.0
   7        1    2    3    4
          33.0 29.7 31.2 33.8
   8        1    2    3    4    5    6
          39.8 39.4 36.0 36.8 41.0 45.6
   9        1    2    3
          54.5 48.9 32.3
  10        1
          29.3
  11        1    2    3    4    5    6
          28.6 26.4 21.7 21.1 20.1 19.5
  12        1    2    3    4    5
          16.1 15.6 15.5 15.2 13.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.4 33.6 28.0 33.7 28.9 28.3 27.9 25.1 24.9 24.1

          23.3 23.2 22.3 21.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.6 22.2 23.1 23.7 23.8 24.7 25.2 27.7 28.8 29.6

          32.2 29.6 34.0 29.4
  15        1    2    3    4    5    6    7    8    9   10

          20.2 29.4 25.5 26.0 26.5 26.8 27.0 26.9 26.8 32.4

  16        1    2    3    4    5    6    7    8    9   10

          32.4 26.7 26.9 26.8 26.6 26.3 26.0 25.4 29.5 21.0

  17        1    2    3    4    5    6    7
          15.9 16.7 16.9 18.4 19.9 20.6 16.5
  18        1    2    3    4    5    6    7
          16.2 20.6 19.9 18.2 16.8 16.7 15.7
1

 RECEIVER    LEQ(H)   L10
 34           57.8   60.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          13.8 15.8 16.1 16.2 16.7 17.9
   2        1    2    3    4    5    6
          20.6 21.6 21.9 26.2 27.9 27.7
   3        1
          27.2
   4        1    2    3
          43.5 51.4 48.4
   5        1    2    3    4    5    6
          43.5 39.3 38.4 41.8 42.0 37.2
   6        1    2    3
          32.9 31.4 34.3
   7        1    2    3    4
          34.2 31.2 32.8 35.6
   8        1    2    3    4    5    6
          41.8 41.7 38.2 39.0 43.1 46.7
   9        1    2    3
          50.8 44.1 28.4
  10        1
          27.1
  11        1    2    3    4    5    6
          27.8 26.2 21.8 21.5 20.6 20.1
  12        1    2    3    4    5
          16.6 16.2 16.1 15.8 13.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.5 32.7 27.1 31.4 26.5 25.4 24.8 24.5 24.9 24.6

          24.5 24.8 24.3 23.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.8 24.2 24.7 24.8 24.3 24.8 24.6 24.6 25.8 26.8

          29.7 28.7 33.1 28.6
  15        1    2    3    4    5    6    7    8    9   10

          18.9 26.9 24.4 24.8 25.3 25.6 25.8 25.7 25.7 31.4

  16        1    2    3    4    5    6    7    8    9   10

          31.3 25.5 25.7 25.6 25.4 25.2 24.8 24.3 27.3 19.0

  17        1    2    3    4    5    6    7
          16.2 16.8 16.4 16.0 16.9 18.1 15.4
  18        1    2    3    4    5    6    7
          15.1 18.1 16.9 16.0 16.3 16.7 16.1
1

 RECEIVER    LEQ(H)   L10
 35           52.5   54.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          22.2 24.2 24.5 24.6 25.2 26.5
   2        1    2    3    4    5    6
          29.3 30.2 30.6 33.8 30.2 29.8
   3        1
          26.0
   4        1    2    3
          32.8 38.6 35.6
   5        1    2    3    4    5    6
          31.7 37.3 37.8 41.4 41.9 37.3
   6        1    2    3
          33.1 31.5 34.4
   7        1    2    3    4
          34.3 31.3 32.9 35.7
   8        1    2    3    4    5    6
          41.8 41.3 37.6 35.0 31.3 34.0
   9        1    2    3
          38.2 33.4 27.3
  10        1
          29.2
  11        1    2    3    4    5    6
          30.4 32.3 30.6 30.1 29.2 28.6
  12        1    2    3    4    5
          25.1 24.6 24.5 24.2 22.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.6 24.0 18.6 25.4 27.4 27.8 28.7 28.8 31.9 33.0

          32.8 33.1 32.6 32.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.1 32.5 33.0 33.2 32.7 31.9 28.9 28.5 28.1 27.5

          24.5 20.1 24.4 19.7
  15        1    2    3    4    5    6    7    8    9   10

          19.5 20.8 15.6 15.9 16.3 16.5 16.6 16.5 16.4 21.8

  16        1    2    3    4    5    6    7    8    9   10

          21.8 16.2 16.4 16.4 16.4 16.2 15.8 15.5 20.6 19.5

  17        1    2    3    4    5    6    7
          24.8 22.2 20.2 19.7 18.6 19.4 15.9
  18        1    2    3    4    5    6    7
          15.7 19.4 18.7 19.7 20.1 22.3 24.6
1

 RECEIVER    LEQ(H)   L10
 36           53.7   56.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          22.2 24.2 24.5 24.6 25.2 26.5
   2        1    2    3    4    5    6
          29.2 30.2 30.5 34.4 30.1 30.1
   3        1
          25.6
   4        1    2    3
          32.0 39.5 43.0
   5        1    2    3    4    5    6
          41.8 38.0 37.4 41.1 41.8 37.2
   6        1    2    3
          33.1 31.6 34.4
   7        1    2    3    4
          34.3 31.3 32.9 35.6
   8        1    2    3    4    5    6
          41.6 41.0 37.2 37.7 41.4 41.2
   9        1    2    3
          39.3 33.2 26.8
  10        1
          29.9
  11        1    2    3    4    5    6
          30.3 33.1 30.5 30.1 29.2 28.6
  12        1    2    3    4    5
          25.1 24.6 24.5 24.2 22.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.4 26.5 20.9 27.2 27.6 28.2 29.2 28.8 32.9 33.0

          32.8 33.1 32.6 32.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.1 32.5 33.0 33.2 32.7 32.9 28.9 28.9 28.7 27.6

          26.4 22.4 26.8 22.4
  15        1    2    3    4    5    6    7    8    9   10

          19.6 22.6 18.0 18.5 19.0 19.3 19.6 19.6 19.6 24.9

  16        1    2    3    4    5    6    7    8    9   10

          24.9 19.5 19.6 19.4 19.2 18.9 18.5 17.9 22.5 19.7

  17        1    2    3    4    5    6    7
          24.7 23.7 20.2 19.8 19.8 19.4 15.7
  18        1    2    3    4    5    6    7
          15.4 19.5 20.0 19.7 20.0 23.7 24.6
1

 RECEIVER    LEQ(H)   L10
 37           52.5   54.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          22.1 24.1 24.4 24.5 25.1 26.3
   2        1    2    3    4    5    6
          29.1 30.1 30.3 34.7 32.1 30.1
   3        1
          25.0
   4        1    2    3
          29.3 37.1 34.8
   5        1    2    3    4    5    6
          39.4 36.6 36.1 40.1 41.3 37.1
   6        1    2    3
          33.0 31.5 34.4
   7        1    2    3    4
          34.3 31.3 32.8 35.4
   8        1    2    3    4    5    6
          41.1 40.0 35.9 36.2 38.8 33.4
   9        1    2    3
          37.1 30.5 25.5
  10        1
          30.7
  11        1    2    3    4    5    6
          29.9 34.6 30.3 29.9 29.1 28.5
  12        1    2    3    4    5
          25.0 24.5 24.4 24.1 22.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.6 26.6 20.5 26.8 28.6 29.4 29.0 32.6 33.1 32.9
```

```
          32.7 33.1 32.5 32.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.1 32.5 33.0 33.1 32.6 33.1 32.7 28.8 29.8 28.6

          26.0 22.0 27.0 22.6
  15        1    2    3    4    5    6    7    8    9   10

          20.1 22.1 18.2 18.8 18.8 19.2 19.4 19.5 18.2 23.2

  16        1    2    3    4    5    6    7    8    9   10

          23.2 18.1 19.5 19.3 19.1 18.7 18.7 18.1 22.1 20.1

  17        1    2    3    4    5    6    7
          24.6 25.2 23.3 19.6 20.5 21.2 15.9
  18        1    2    3    4    5    6    7
          16.0 21.2 20.5 19.6 23.4 25.1 24.5
1

 RECEIVER    LEQ(H)   L10
 38           53.0   56.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.7 26.8 27.2 27.5 28.2 29.7
   2        1    2    3    4    5    6
          32.6 33.9 34.4 36.3 36.1 38.6
   3        1
          35.6
   4        1    2    3
          42.6 41.8 31.3
   5        1    2    3    4    5    6
          27.0 23.3 22.9 26.9 28.6 25.6
   6        1    2    3
          22.8 22.0 25.2
   7        1    2    3    4
          25.2 21.7 22.5 24.0
   8        1    2    3    4    5    6
          28.6 26.9 22.8 23.4 27.0 30.0
   9        1    2    3
          41.8 43.1 35.1
  10        1
          39.3
  11        1    2    3    4    5    6
          36.3 34.3 34.1 33.7 32.6 31.8
  12        1    2    3    4    5
          28.1 27.5 27.2 26.8 24.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.2 27.4 21.7 28.3 33.0 33.1 32.6 32.0 32.4 35.3

          35.3 35.6 35.0 34.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          34.5 35.0 35.5 35.6 35.1 32.4 32.1 32.4 33.5 33.0

          27.4 23.3 27.8 23.2
  15        1    2    3    4    5    6    7    8    9   10

          24.9 24.1 19.8 20.4 20.9 21.4 22.5 22.5 22.4 28.0

  16        1    2    3    4    5    6    7    8    9   10

          27.8 22.2 22.4 22.3 21.3 20.8 20.3 19.7 24.0 24.7

  17        1    2    3    4    5    6    7
          26.8 24.1 23.6 23.2 24.3 25.2 21.3
  18        1    2    3    4    5    6    7
          21.1 25.2 24.3 23.1 23.5 24.0 26.7
1

 RECEIVER    LEQ(H)   L10
 39           52.3   54.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.4 26.5 26.9 27.1 27.8 29.2
   2        1    2    3    4    5    6
          32.1 33.3 33.9 37.8 35.1 36.8
   3        1
          34.0
   4        1    2    3
          42.1 38.2 32.4
   5        1    2    3    4    5    6
          27.9 23.8 23.4 27.5 29.4 26.3
   6        1    2    3
          23.3 22.4 25.8
   7        1    2    3    4
          25.7 22.2 23.1 24.5
   8        1    2    3    4    5    6
          29.4 27.5 23.4 23.7 28.4 31.3
   9        1    2    3
          38.2 41.8 33.0
  10        1
          38.0
  11        1    2    3    4    5    6
          35.2 36.4 33.9 33.2 32.1 31.3
  12        1    2    3    4    5
          27.7 27.1 26.9 26.5 24.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.3 27.5 22.0 30.9 32.2 32.4 31.9 31.6 34.5 35.1

          35.0 35.3 34.7 34.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          34.2 34.7 35.2 35.3 34.9 34.6 31.7 31.6 32.8 32.3

          30.2 23.6 27.9 23.4
  15        1    2    3    4    5    6    7    8    9   10

          24.1 25.9 19.8 20.3 20.8 21.8 22.3 22.3 22.2 27.6

  16        1    2    3    4    5    6    7    8    9   10

          27.5 22.0 22.2 22.1 21.7 20.7 20.3 19.7 25.4 24.2

  17        1    2    3    4    5    6    7
          27.5 25.7 23.1 22.7 23.6 24.4 20.5
  18        1    2    3    4    5    6    7
          20.3 24.4 23.6 22.6 23.0 25.7 27.4
1

 RECEIVER    LEQ(H)   L10
 40           51.6   54.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          23.8 25.8 26.2 26.4 27.0 28.4
   2        1    2    3    4    5    6
          31.3 32.4 32.9 37.5 33.5 34.6
   3        1
          30.7
   4        1    2    3
          34.5 41.9 32.9
   5        1    2    3    4    5    6
          31.5 25.4 25.0 28.9 30.4 27.3
   6        1    2    3
          24.0 23.0 26.3
   7        1    2    3    4
          26.3 22.8 23.8 25.8
   8        1    2    3    4    5    6
          30.4 29.0 25.0 27.9 30.3 31.7
   9        1    2    3
          41.7 35.3 30.5
  10        1
          35.5
  11        1    2    3    4    5    6
          33.6 36.4 32.9 32.3 31.3 30.5
  12        1    2    3    4    5
          26.9 26.4 26.2 25.8 23.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.1 27.3 21.8 28.8 31.2 31.4 30.9 31.7 34.8 34.5

          34.4 34.7 34.1 33.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          33.7 34.1 34.6 34.7 34.3 34.8 31.9 30.7 31.8 31.3

          27.9 23.3 27.7 23.1
  15        1    2    3    4    5    6    7    8    9   10

          23.1 24.0 19.3 19.9 21.2 21.5 21.8 21.7 24.4 26.7

  16        1    2    3    4    5    6    7    8    9   10

          26.6 24.3 21.7 21.6 21.4 21.0 19.9 19.2 23.7 23.1

  17        1    2    3    4    5    6    7
          26.7 26.7 22.2 21.8 22.7 23.4 19.4
  18        1    2    3    4    5    6    7
          19.2 23.4 22.7 21.7 22.1 26.7 26.6
1

 RECEIVER    LEQ(H)   L10
 41           51.2   53.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          23.1 25.1 25.4 25.6 26.2 27.6
   2        1    2    3    4    5    6
          30.4 31.4 31.8 36.2 31.9 32.6
   3        1
          27.7
   4        1    2    3
          32.3 42.1 34.6
   5        1    2    3    4    5    6
          30.2 26.3 25.9 30.1 31.4 32.3
   6        1    2    3
          31.3 30.0 33.0
   7        1    2    3    4
          33.0 29.8 31.2 28.7
   8        1    2    3    4    5    6
          31.3 30.1 25.9 26.5 30.2 33.4
   9        1    2    3
          41.9 33.4 28.6
  10        1
          33.0
  11        1    2    3    4    5    6
          31.9 35.1 31.8 31.3 30.3 29.7
  12        1    2    3    4    5
          26.1 25.6 25.4 25.1 23.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.2 27.3 21.1 27.4 28.6 30.5 30.0 30.6 34.1 33.9

          33.7 34.0 33.5 33.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          33.0 33.4 33.9 34.0 33.6 34.1 30.9 29.8 30.9 28.5

          26.6 22.6 27.7 23.3
  15        1    2    3    4    5    6    7    8    9   10

          20.0 22.9 19.3 19.9 20.4 20.2 20.2 20.2 20.2 26.0

  16        1    2    3    4    5    6    7    8    9   10

          26.0 20.1 20.2 20.0 20.0 20.2 19.8 19.2 22.9 20.0

  17        1    2    3    4    5    6    7
          25.8 25.7 21.3 20.8 21.7 21.8 16.2
  18        1    2    3    4    5    6    7
          15.9 21.9 21.7 20.8 21.1 25.7 25.7
```

```
                    *************************
                          OPTIMA-VU1
                    *************************
              BARRIER OPTIMIZATION PROGRAM USING
            PARTIAL SOUND ENERGIES COMPUTED BY THE
                    STAMINA 2.0 PROGRAM
        MODIFIED FROM THE FHWA VAX VERSON -- MARCH 1983

     MODIFIED TO:
        1.   PLACE BARRIER COST DATA IN A DATA FILE CALLED
             OPTCOST.DTA TO ALLOW USER TO USE COSTS OTHER THAN
             THE FHWA NATIONAL AVERAGES.
                    *************************
        MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
                      IN JUNE 1991 BY
        VANDERBILT ENGINEERING CENTER FOR TRANSPORTATION
              OPERATIONS AND RESEARCH (VECTOR)
     BOX 96-B, VANDERBILT UNIVERSITY, NASHVILLE, TENNESSEE 37235
                      (615) 322-3683
                    *************************

    PROBLEM TITLE
    *************
 Meadowood - Multi-Family 1st Floor (Receivers 27-41)No 15

              EFFECTIVENESS/COST RATIO AND BARRIER HEIGHT MATRICES
              ****************************************************
BARRIER SECTION        EFFECTIVENESS/COST                CORRESPONDING
   NO  IDENT                  RATIO                      BARRIER HEIGHTS(IN
FT)

 HEIGHT INDEX   1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8
    1  1         *  17.  17.  17.  17.  17.  16.  15.  0. 5. 6. 7. 8.
9.10.11.
    2  2         *  30.  28.  26.  25.  24.  22.  20.  0. 5. 6. 7. 8.
9.10.11.
    3  3         *  14.  14.  15.  15.  15.  14.  13.  0. 5. 6. 7. 8.
9.10.11.
    4  5         *  27.  25.  24.  24.  24.  22.  21.  0. 5. 6. 7. 8.
9.10.11.
    5  6         *  26.  24.  24.  23.  23.  21.  20.  0. 5. 6. 7. 8.
9.10.11.
    6  7         *  32.  29.  29.  27.  26.  23.  22.  0. 5. 6. 7. 8.
9.10.11.
    7  8         *  26.  24.  24.  23.  23.  21.  20.  0. 5. 6. 7. 8.
9.10.11.
    8  9         *  29.  26.  27.  27.  25.  23.  21.  0. 5. 6. 7. 8.
9.10.11.
    9  10        *  27.  24.  24.  26.  24.  22.  20.  0. 5. 6. 7. 8.
9.10.11.
   10  11        *  19.  17.  20.  19.  18.  15.  13.  0. 5. 6. 7. 8.
9.10.11.
   11  12        *  14.  10.  13.  14.  14.  13.  12.  0. 5. 6. 7. 8.
9.10.11.
   12  13        *  12.   8.  11.  12.  12.  10.   8.  0. 5. 6. 7. 8.
9.10.11.
   13  1       *   0.                                0.20.
   14  2       *   0.                                0.20.
   15  3       *   0.                                0.20.
   16  4       *   0.                                0.20.
   17  1       *   0.                                0.20.
   18  2       *   0.                                0.20.
   19  3       *   0.                                0.20.
   20  4       *   0.                                0.20.
   21  1       *   0.                                0.20.
   22  2       *   0.                                0.20.
   23  3       *   0.                                0.20.
   24  4       *   0.                                0.20.
   25  1       *   0.                                0.20.
   26  2       *   0.                                0.20.
   27  3       *   0.                                0.20.
   28  4       *   0.                                0.20.
   29  1       *   0.                                0.20.
   30  2       *   0.                                0.20.
   31  3       *   0.                                0.20.
   32  4       *   0.                                0.20.
   33  1       *   0.                                0.20.
   34  2       *   0.                                0.20.
   35  3       *   0.                                0.20.
   36  4       *   0.                                0.20.
   37  1       *   0.                                0.20.
   38  2       *   0.                                0.20.
   39  3       *   0.                                0.20.
   40  4       *   0.                                0.20.
   41  1       *   0.                                0.20.
   42  2       *   0.                                0.20.
   43  3       *   0.                                0.20.
   44  4       *   0.                                0.20.
   45  1       *   0.                                0.20.
   46  2       *   0.                                0.20.
   47  3       *   0.                                0.20.
   48  4       *   0.                                0.20.
   49  1       *   0.                                0.20.
   50  2       *   0.                                0.20.
   51  3       *   0.                                0.20.
   52  4       *   0.                                0.20.
   53  1       *   0.                                0.20.
   54  2       *   0.                                0.20.
   55  3       *   0.                                0.20.
   56  4       *   0.                                0.20.
   57  1       *   0.                                0.20.
   58  2       *   0.                                0.20.
   59  3       *   0.                                0.20.
   60  4       *   0.                                0.20.
   61  1       *   0.                                0.20.
   62  2       *   0.                                0.20.
   63  3       *   0.                                0.20.
   64  4       *   0.                                0.20.
   65  1       *   0.                                0.20.
   66  2       *   0.                                0.20.
   67  3       *   0.                                0.20.
   68  4       *   0.                                0.20.

 HEIGHT INDEX   1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8

 Meadowood - Multi-Family 1st Floor (Receivers 27-41)No 15


 BARRIER HEIGHT INDEX FOR EACH BARRIER SECTION
   5  5  5  2  2  6  6  6  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2
   2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2
   2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2
 CORRESPONDING BARRIER HEIGHTS FOR EACH SECTION
   8. 8. 8. 5. 5. 9. 9. 9. 5. 5. 5. 5.20.20.20.20.20.20.20.20.20.20.20.20.20.
20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.
20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.

    R E S U L T S
    *************

 REC    REC ID        LEQ       LEQ(Z(0))       IL
```

1	27	55.4	64.6	9.2
2	28	57.0	64.5	7.4
3	29	56.6	62.5	5.9
4	30	56.9	66.3	9.4
5	31	56.8	65.9	9.1
6	32	57.0	61.5	4.5
7	33	55.9	60.3	4.4
8	34	52.9	58.2	5.3
9	35	49.0	56.8	7.8
10	36	50.3	54.5	4.2
11	37	49.6	54.7	5.1
12	38	50.7	55.2	4.5
13	39	50.6	54.4	3.8
14	40	50.3	53.6	3.4
15	41	49.7	53.1	3.5

BARRIER TYPE	COST	AREA (SQ. FT.)
FH-BERM	0.	0.
FH-MASON	632600.	115176.
FH-WOOD	0.	0.
FH-CONC	0.	0.
FH-STEEL	0.	0.

****

TOTALS:	$ 632600.	115176.

END OF ALL CASES

```
                    ************************
                           STAM2VU1
                         Version 1.20
                   ************************
                       STAMINA 2.0/BCR
            MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
                TRAFFIC NOISE PREDICTION MODEL

     MODIFIED TO:
       1.   ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
       2.   CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY
            USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
       3.   PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A
            DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE
            LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.
                   ************************
        MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
            BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
                  AND BOWLBY & ASSOCIATES, INC.
                    2014 BROADWAY, SUITE 210
                    NASHVILLE, TN 37203-2425
               TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE
HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK
CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE
*.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.


          (INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH )


 Meadowood - Multi-Family 2nd Floor (Receivers 27-41)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

      HEIGHT       CODE          DESCRIPTION
        .00          1      RECEIVER HEIGHT ADJUSTMENT
       1.00          2      A-WEIGHTED SOUND LEVEL ONLY
        .00          3      HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
        .00          4      HEIGHT ADJUSTMENT FOR HEAVY TRUCKS   (HT)
        .00          5      HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS  (MT)
       .000          6      HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4)
                            CARS--CALVENO
                            C0 =       5.20  C1 =      38.80  S0 =         .00
      2.300          7      HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5)
                            MT--CALVENO
                            C0 =      35.30  C1 =      25.60  S0 =         .00
      8.000          8      HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6)
                            HT--CALVENO
                            C0 =      50.40  C1 =      19.20  S0 =         .00


0ROADWAY   1      HRC nb (76 to Pankey)


                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                        CARS                0.         30.0
                        HT                  0.         30.0
                        MT                  0.         30.0
                        VEH4              415.         40.0
                        VEH5               13.         40.0
                        VEH6                9.         40.0
0                     ------------COORDINATES------------
                          X           Y            Z      GRADE
 1                    6287767.4   2067284.0      276.0      0
 2                    6287704.7   2067456.2      276.0      0
 3                    6287629.7   2067702.5      279.0      0
 4                    6287568.8   2067936.5      284.0      0
 5                    6287512.3   2068148.3      284.0      0
 6                    6287446.9   2068359.4      282.0      0
 7                    6287374.5   2068606.6      279.0      0

0ROADWAY   2      HRC nb (Pankey to School)


                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                        CARS                0.         30.0
                        HT                  0.         30.0
                        MT                  0.         30.0
                        VEH4              695.         40.0
                        VEH5               22.         40.0
                        VEH6               15.         40.0
0                     ------------COORDINATES------------
                          X           Y            Z      GRADE
 7                    6287374.5   2068606.6      279.0      0
 8                    6287273.9   2068832.6      278.0      0
 9                    6287137.9   2069057.7      278.0      0
 10                   6287017.0   2069263.4      280.0      0
 11                   6286760.9   2069688.9      285.0      0
 12                   6286533.2   2070137.4      290.0      0
 13                   6286310.7   2070587.7      296.0      0

0ROADWAY   3      HRC nb (School to 26)


                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                        CARS                0.         30.0
                        HT                  0.         30.0
                        MT                  0.         30.0
                        VEH4              689.         40.0
                        VEH5               22.         40.0
                        VEH6               15.         40.0
0                     ------------COORDINATES------------
                          X           Y            Z      GRADE
 13                   6286310.7   2070587.7      296.0      0
 14                   6286086.4   2071030.0      302.0      0

0ROADWAY   4      HRC nb (26 to Harvest Glen)


                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                        CARS                0.         30.0
                        HT                  0.         30.0
                        MT                  0.         30.0
                        VEH4              634.         40.0
                        VEH5               20.         40.0
                        VEH6               13.         40.0
0                     ------------COORDINATES------------
                          X           Y            Z      GRADE
 14                   6286086.4   2071030.0      302.0      0
 15                   6285859.5   2071475.8      308.0      0
 16                   6285540.8   2072106.2      311.0      0
 17                   6285403.1   2072385.2      310.0      0

0ROADWAY   5      HRC nb (Harvest Glen to Longspur)


                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                        CARS                0.         30.0
                        HT                  0.         30.0
                        MT                  0.         30.0
                        VEH4              488.         40.0
                        VEH5               15.         40.0
                        VEH6               10.         40.0
0                     ------------COORDINATES------------
                          X           Y            Z      GRADE
 17                   6285403.1   2072385.2      310.0      0
 18                   6285328.1   2072574.1      310.0      0
 19                   6285298.0   2072673.9      310.0      0
 20                   6285270.7   2072773.6      311.0      0
 21                   6285221.2   2073078.2      314.0      0
 22                   6285201.8   2073673.3      322.0      0
 23                   6285188.6   2074037.0      338.0      0

0ROADWAY   6      HRC nb (Longspur to Baltimore)


                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                        CARS                0.         30.0
                        HT                  0.         30.0
                        MT                  0.         30.0
                        VEH4              347.         40.0
                        VEH5               11.         40.0
                        VEH6                7.         40.0
0                     ------------COORDINATES------------
                          X           Y            Z      GRADE
 23                   6285188.6   2074037.0      338.0      0
 24                   6285145.3   2074308.9      346.0      0
 25                   6285056.1   2074546.4      351.0      0
 26                   6284650.0   2075149.4      356.0      0

0ROADWAY   7      HRC sb (Baltimore to Longspur)


                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                        CARS                0.         30.0
                        HT                  0.         30.0
                        MT                  0.         30.0
                        VEH4              347.         40.0
                        VEH5               11.         40.0
                        VEH6                7.         40.0
0                     ------------COORDINATES------------
                          X           Y            Z      GRADE
 1                    6284621.8   2075132.6      356.0      0
 2                    6285015.5   2074527.9      351.0      0
 3                    6285099.4   2074300.1      346.0      0
 4                    6285141.8   2074033.5      338.0      0
 5                    6285159.4   2073671.5      322.0      0

0ROADWAY   8      HRC sb (Longspur to Harvest Glen)


                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                        CARS                0.         30.0
                        HT                  0.         30.0
                        MT                  0.         30.0
                        VEH4              488.         40.0
                        VEH5               15.         40.0
                        VEH6               10.         40.0
0                     ------------COORDINATES------------
                          X           Y            Z      GRADE
 5                    6285159.4   2073671.5      322.0      0
 6                    6285181.5   2073072.9      314.0      0
 7                    6285228.3   2072759.5      311.0      0
 8                    6285256.5   2072658.0      310.0      0
 9                    6285287.4   2072557.3      310.0      0
 10                   6285368.7   2072369.3      310.0      0
 11                   6285504.6   2072087.7      311.0      0

0ROADWAY   9      HRC sb (Harvest Glen to 26)


                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                        CARS                0.         30.0
                        HT                  0.         30.0
                        MT                  0.         30.0
                        VEH4              634.         40.0
                        VEH5               20.         40.0
                        VEH6               13.         40.0
0                     ------------COORDINATES------------
                          X           Y            Z      GRADE
 11                   6285504.6   2072087.7      311.0      0
 12                   6285818.9   2071457.3      308.0      0
 13                   6286045.8   2071007.9      302.0      0
 14                   6286269.2   2070567.4      296.0      0

0ROADWAY  10      HRC sb (26 to School)


                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                        CARS                0.         30.0
                        HT                  0.         30.0
                        MT                  0.         30.0
                        VEH4              689.         40.0
                        VEH5               22.         40.0
                        VEH6               14.         40.0
0                     ------------COORDINATES------------
                          X           Y            Z      GRADE
 14                   6286269.2   2070567.4      296.0      0
 15                   6286493.4   2070122.4      290.0      0

0ROADWAY  11      HRC sb (School to Pankey)


                    VEHICLE TYPE   VEHICLES/HOUR      SPEED
                        CARS                0.         30.0
                        HT                  0.         30.0
                        MT                  0.         30.0
                        VEH4              695.         40.0
                        VEH5               22.         40.0
                        VEH6               15.         40.0
0                     ------------COORDINATES------------
                          X           Y            Z      GRADE
 15                   6286493.4   2070122.4      290.0      0
 16                   6286720.3   2069667.7      285.0      0
 17                   6286977.2   2069239.6      280.0      0
 18                   6287102.6   2069033.0      278.0      0
 19                   6287238.6   2068813.1      278.0      0
```

20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0

	COORDINATES X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

1

BARRIER 1 TYPE(A) Pad Edges 1

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286634.5	2070357.0	313.0	305.0	1.0	3
2	6286501.9	2070298.3	313.0	305.0		
3	6286265.0	2070793.0	318.0	310.0		
4	6286320.8	2070828.4	318.0	310.0		

1

BARRIER 2 TYPE(A) Pad Edges 2

	COORDINATES X	Y	Z	Z0	DELZ	P
5	6286349.5	2070944.8	318.0	310.0	1.0	3
6	6286239.3	2070896.7	318.0	310.0		
7	6286196.9	2070902.4	318.0	310.0		
8	6286078.1	2071137.0	318.0	310.0		
9	6286004.6	2071292.5	320.0	312.0		
10	6286004.6	2071603.5	322.0	314.0		
11	6286004.6	2071990.8	327.0	319.0		
12	6286004.5	2072360.7	330.0	322.0		
13	6286289.0	2072499.4	334.0	326.0		
14	6286498.0	2072566.2	336.0	328.0		

1

BARRIER 3 TYPE(A) Multi-Family Bldg1

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286293.5	2071017.0	334.0	314.0	.0	0
2	6286314.7	2070974.6	334.0	314.0		
3	6286206.2	2070920.9	334.0	314.0		
4	6286185.0	2070960.9	334.0	314.0		
1	6286293.5	2071017.0	334.0	314.0		

1

BARRIER 4 TYPE(A) Multi-Family Bldg2

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286185.2	2071006.5	331.0	311.0	.0	0
2	6286122.1	2071123.3	331.0	311.0		
3	6286165.8	2071145.3	331.0	311.0		
4	6286228.3	2071030.4	331.0	311.0		
1	6286185.2	2071006.5	331.0	311.0		

1

BARRIER 5 TYPE(A) Multi-Family Bldg3

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286096.9	2071162.4	331.0	311.0	.0	0
2	6286074.3	2071206.2	331.0	311.0		
3	6286176.9	2071259.1	331.0	311.0		
4	6286199.5	2071215.2	331.0	311.0		
1	6286096.9	2071162.4	331.0	311.0		

1

BARRIER 6 TYPE(A) Multi-Family Bldg4

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286040.8	2071261.0	335.0	315.0	.0	0
2	6286037.7	2071397.8	335.0	315.0		
3	6286087.0	2071398.7	335.0	315.0		
4	6286090.0	2071263.1	335.0	315.0		
1	6286040.8	2071261.0	335.0	315.0		

1

BARRIER 7 TYPE(A) Multi-Family Bldg5

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286026.6	2071459.1	335.0	315.0	.0	0
2	6286026.0	2071506.4	335.0	315.0		
3	6286168.2	2071508.9	335.0	315.0		
4	6286168.8	2071460.7	335.0	315.0		
1	6286026.6	2071459.1	335.0	315.0		

1

BARRIER 8 TYPE(A) Multi-Family Bldg6

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286021.5	2071584.4	338.0	318.0	.0	0
2	6286164.9	2071586.7	338.0	318.0		
3	6286164.8	2071538.3	338.0	318.0		
4	6286022.0	2071536.9	338.0	318.0		
1	6286021.5	2071584.4	338.0	318.0		

```
1

 BARRIER   9   TYPE(A)     Multi-Family Bldg7

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286030.6 2071645.8     337.0      317.0         .0          0
 2         6286028.7 2071788.7     337.0      317.0
 3         6286076.0 2071788.6     337.0      317.0
 4         6286077.9 2071647.2     337.0      317.0
 1         6286030.6 2071645.8     337.0      317.0
1

 BARRIER  10   TYPE(A)     Multi-Family Bldg8

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286027.4 2071954.0     340.0      320.0         .0          0
 2         6286029.3 2071811.9     340.0      320.0
 3         6286076.6 2071813.2     340.0      320.0
 4         6286074.8 2071954.6     340.0      320.0
 1         6286027.4 2071954.0     340.0      320.0
1

 BARRIER  11   TYPE(A)     Multi-Family Bldg9

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286020.5 2072010.2     340.0      320.0         .0          0
 2         6286020.6 2072059.5     340.0      320.0
 3         6286157.6 2072058.9     340.0      320.0
 4         6286158.3 2072011.6     340.0      320.0
 1         6286020.5 2072010.2     340.0      320.0
1

 BARRIER  12   TYPE(A)     Multi-Family Bldg10

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286019.8 2072088.7     341.0      321.0         .0          0
 2         6286152.1 2072089.6     341.0      321.0
 3         6286152.7 2072138.9     341.0      321.0
 4         6286020.0 2072139.2     341.0      321.0
 1         6286019.8 2072088.7     341.0      321.0
1

 BARRIER  13   TYPE(A)     Multi-Family Bldg11

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286021.1 2072177.9     342.0      322.0         .0          0
 2         6286021.1 2072227.4     342.0      322.0
 3         6286126.4 2072235.5     342.0      322.0
 4         6286133.9 2072178.1     342.0      322.0
 1         6286021.1 2072177.9     342.0      322.0
1

 BARRIER  14   TYPE(A)     Multi-Family Bldg12

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286087.8 2072377.7     344.0      324.0         .0          0
 2         6286126.4 2072300.4     344.0      324.0
 3         6286082.8 2072279.2     344.0      324.0
 4         6286044.1 2072355.2     344.0      324.0
 1         6286087.8 2072377.7     344.0      324.0
1

 BARRIER  15   TYPE(A)     Multi-Family Bldg13

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286220.0 2072454.4     346.0      326.0         .0          0
 2         6286260.6 2072377.3     346.0      326.0
 3         6286217.5 2072353.4     346.0      326.0
 4         6286175.6 2072431.2     346.0      326.0
 1         6286220.0 2072454.4     346.0      326.0
1

 BARRIER  16   TYPE(A)     Multi-Family Bldg14

           ---------COORDINATES----------
                X          Y          Z         Z0       DELZ          P
 1         6286256.0 2072467.0     346.0      326.0         .0          0
 2         6286285.8 2072408.5     346.0      326.0
 3         6286330.0 2072430.9     346.0      326.0
 4         6286300.2 2072490.2     346.0      326.0
 1         6286256.0 2072467.0     346.0      326.0
1

 Receivers @ 15'


                        ------------COORDINATES------------
                                X          Y          Z
 27                       6286446.6  2070441.9      320.0
 28                       6286347.9  2070675.0      325.0
 29                       6286282.6  2070935.3      329.0
 30                       6286138.6  2071056.6      326.0
 31                       6286021.6  2071327.5      329.0
 32                       6286015.6  2071717.5      332.0
 33                       6286013.9  2071883.5      334.0
 34                       6286016.1  2072278.5      337.0
 35                       6286127.6  2072366.2      339.0
 36                       6286181.6  2072397.1      340.0
 37                       6286357.6  2072495.3      342.0
 38                       6286333.2  2071320.8      328.0
 39                       6286364.4  2071474.8      330.0
 40                       6286366.6  2071739.9      333.0
 41                       6286306.3  2072022.2      335.0
1

  ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

  1 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  2 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  3 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  4 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  5 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  6 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  7 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  8 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  9 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 10 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 11 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 12 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 13 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 14 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 15 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 16 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 17 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 18 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
1

  SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

  1 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  2 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  3 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  4 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  5 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  6 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  7 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  8 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
  9 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 10 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 11 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 12 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 13 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 14 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 15 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 16 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 17 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
 18 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
       .0  .0  .0  .0  .0
1

 RECEIVER     LEQ(H)    L10
 27            65.6    69.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          23.8 26.0 26.7 27.0 27.7 29.1
   2        1    2    3    4    5    6
          32.1 33.5 34.4 40.3 46.7 61.1
   3        1
          49.8
   4        1    2    3
          41.3 38.2 31.3
   5        1    2    3    4    5    6
          27.0 23.3 22.9 23.7 25.5 22.5
   6        1    2    3
          19.5 18.7 22.2
   7        1    2    3    4
          22.2 18.5 19.4 20.9
   8        1    2    3    4    5    6
          25.5 25.6 23.0 23.6 27.5 30.8
   9        1    2    3
          38.9 42.5 52.3
  10        1
          62.2
  11        1    2    3    4    5    6
          48.2 40.4 34.5 33.4 32.1 31.2
  12        1    2    3    4    5
          27.6 27.0 26.7 26.0 23.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.6 37.0 31.5 37.9 38.5 38.8 38.4 38.0 38.2 34.8

          34.5 34.7 34.0 33.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          33.5 34.0 34.6 34.8 34.6 38.2 38.2 38.2 39.3 38.6

          37.1 33.1 37.4 32.7
  15        1    2    3    4    5    6    7    8    9   10

          31.1 34.6 30.4 31.0 31.4 31.5 31.5 31.0 30.5 35.2

  16        1    2    3    4    5    6    7    8    9   10

          35.1 30.3 31.0 31.2 31.4 31.2 30.9 30.2 34.5 31.0

  17        1    2    3    4    5    6    7
          27.5 29.0 30.6 31.2 31.8 32.2 27.8
  18        1    2    3    4    5    6    7
          27.6 32.2 31.8 31.1 30.4 28.9 27.3
1

 RECEIVER     LEQ(H)    L10
 28            63.9    67.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          22.5 24.7 25.3 25.5 26.1 27.4
   2        1    2    3    4    5    6
          30.3 31.7 32.5 38.0 42.6 53.9
   3        1
          58.4
   4        1    2    3
          44.2 39.0 29.3
   5        1    2    3    4    5    6
          25.2 21.6 21.1 25.3 26.9 23.6
```

```
  6        1    2    3
         20.4 19.5 22.9
  7        1    2    3    4
         22.9 19.3 20.3 22.0
  8        1    2    3    4    5    6
         26.8 25.3 21.3 21.6 25.7 31.7
  9        1    2    3
         40.3 46.0 59.2
 10        1
         55.8
 11        1    2    3    4    5    6
         43.4 38.2 32.5 31.6 30.3 29.5
 12        1    2    3    4    5
         26.0 25.6 25.3 24.6 22.6
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         32.1 36.4 30.9 37.3 37.8 38.1 37.6 37.3 37.5 34.1

         33.3 33.5 32.9 32.3
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         32.3 32.8 33.4 33.6 33.9 37.5 37.4 37.5 38.5 38.0

         36.5 32.5 36.8 32.2
 15        1    2    3    4    5    6    7    8    9   10

         30.3 33.8 29.5 30.1 30.6 30.8 30.8 30.5 30.1 34.9

 16        1    2    3    4    5    6    7    8    9   10

         34.9 29.9 30.4 30.6 30.6 30.4 30.0 29.4 33.7 30.3

 17        1    2    3    4    5    6    7
         26.2 27.7 30.0 30.2 30.9 31.3 27.0
 18        1    2    3    4    5    6    7
         26.8 31.3 30.9 30.1 29.1 27.6 25.8
1

 RECEIVER    LEQ(H)   L10
 29           60.1   63.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
         21.4 23.6 24.1 24.3 24.8 26.1
   2        1    2    3    4    5    6
         29.0 30.3 31.0 35.8 38.0 43.2
   3        1
         56.7
   4        1    2    3
         40.5 35.4 28.0
   5        1    2    3    4    5    6
         23.5 19.8 19.3 23.2 24.5 20.8
   6        1    2    3
         17.3 16.2 19.7
   7        1    2    3    4
         19.6 16.0 17.2 19.3
   8        1    2    3    4    5    6
         24.4 23.2 19.3 19.8 23.5 26.9
   9        1    2    3
         35.4 40.3 55.1
  10        1
         45.1
  11        1    2    3    4    5    6
         39.5 35.8 31.0 30.2 29.0 28.3
  12        1    2    3    4    5
         24.8 24.3 24.2 23.6 21.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
         31.4 35.8 30.2 36.6 36.9 36.0 35.6 34.1 33.4 32.4

         32.2 32.9 35.8 35.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
         35.3 35.8 32.6 32.6 32.1 33.3 34.3 35.3 36.4 37.2

         35.8 31.8 36.2 31.5
  15        1    2    3    4    5    6    7    8    9   10

         29.5 32.9 28.6 29.1 29.6 29.9 30.0 29.7 29.4 34.4

  16        1    2    3    4    5    6    7    8    9   10

         34.3 29.2 29.7 29.7 29.7 29.5 29.1 28.4 32.8 29.5

  17        1    2    3    4    5    6    7
         24.4 25.0 25.2 25.4 27.0 28.5 25.7
  18        1    2    3    4    5    6    7
         25.4 28.5 27.0 25.3 25.1 24.9 24.3
1

 RECEIVER    LEQ(H)   L10
 30           65.9   69.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
         22.3 24.4 24.9 25.0 24.7 20.4
   2        1    2    3    4    5    6
         23.3 24.4 24.9 35.4 39.1 43.7
   3        1
         59.9
   4        1    2    3
         59.4 44.9 35.6
   5        1    2    3    4    5    6
         31.0 27.2 26.6 29.0 28.0 24.4
   6        1    2    3
         21.2 20.2 23.7
   7        1    2    3    4
         23.7 20.0 21.1 22.9
   8        1    2    3    4    5    6
         28.0 30.4 26.7 27.3 31.3 35.5
   9        1    2    3
         47.4 59.6 59.4
  10        1
         44.9
  11        1    2    3    4    5    6
         39.2 36.2 31.3 28.2 24.2 28.5
  12        1    2    3    4    5
         25.5 25.1 24.9 24.4 22.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
         31.2 35.5 30.0 36.3 36.8 37.0 36.5 36.1 36.2 33.3

         29.1 26.6 26.0 25.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
         25.5 25.9 26.5 29.8 33.1 36.2 36.3 36.3 37.4 36.9

         35.5 31.5 35.9 31.3
  15        1    2    3    4    5    6    7    8    9   10

         29.2 32.5 28.2 28.8 29.3 29.6 29.8 29.6 29.3 34.5

  16        1    2    3    4    5    6    7    8    9   10

         34.4 29.2 29.5 29.5 29.5 29.2 28.7 28.1 32.5 29.2

  17        1    2    3    4    5    6    7
         25.2 25.7 28.3 28.7 29.4 30.0 25.8
  18        1    2    3    4    5    6    7
         25.5 30.0 29.4 28.6 28.9 25.6 25.1
1

 RECEIVER    LEQ(H)   L10
 31           65.7   69.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
         14.6 16.7 16.9 17.1 17.7 18.9
   2        1    2    3    4    5    6
         21.8 22.9 23.5 28.3 31.0 34.5
   3        1
         44.1
   4        1    2    3
         62.6 53.9 42.5
   5        1    2    3    4    5    6
         37.4 33.4 32.7 36.4 37.3 33.2
   6        1    2    3
         29.3 28.1 31.4
   7        1    2    3    4
         31.3 27.9 29.2 31.6
   8        1    2    3    4    5    6
         37.3 36.5 32.8 33.4 37.4 41.3
   9        1    2    3
         53.5 60.6 47.5
  10        1
         34.5
  11        1    2    3    4    5    6
         31.2 28.4 23.6 22.9 21.8 21.2
  12        1    2    3    4    5
         17.7 17.2 17.1 16.7 14.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
         30.6 34.9 29.3 35.6 36.1 36.2 35.7 34.0 26.4 25.5

         24.9 24.6 23.8 23.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
         23.0 23.7 24.6 25.2 25.3 26.4 34.0 35.5 36.7 36.2

         34.8 30.9 35.3 30.7
  15        1    2    3    4    5    6    7    8    9   10

         28.4 31.7 27.3 27.9 28.4 28.7 28.9 28.8 28.6 34.0

  16        1    2    3    4    5    6    7    8    9   10

         33.9 28.4 28.7 28.7 28.6 28.2 27.8 27.1 31.6 28.4

  17        1    2    3    4    5    6    7
         17.6 18.4 23.5 26.9 28.5 29.1 25.0
  18        1    2    3    4    5    6    7
         24.7 29.1 28.5 26.6 22.8 18.3 17.4
1

 RECEIVER    LEQ(H)   L10
 32           61.1   64.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
         14.4 16.4 16.7 16.8 17.4 18.6
   2        1    2    3    4    5    6
         21.4 22.4 23.0 27.7 29.7 30.4
   3        1
         33.1
   4        1    2    3
         51.5 56.7 45.7
   5        1    2    3    4    5    6
         40.0 35.8 35.0 38.5 39.1 34.7
   6        1    2    3
         30.7 29.4 32.5
   7        1    2    3    4
         32.5 29.2 30.6 33.1
   8        1    2    3    4    5    6
         39.0 38.5 35.0 35.7 39.9 44.4
   9        1    2    3
         55.6 51.4 34.1
  10        1
         30.4
  11        1    2    3    4    5    6
         29.7 27.8 23.0 22.5 21.4 20.8
  12        1    2    3    4    5
         17.4 16.9 16.7 16.5 14.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
         29.7 33.9 25.1 30.4 28.5 27.4 26.9 26.1 26.1 25.3

         24.6 24.5 23.7 22.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
         22.9 23.6 24.4 25.0 25.0 26.0 26.3 26.7 27.8 28.8

         29.6 26.2 33.6 29.8
  15        1    2    3    4    5    6    7    8    9   10

         20.5 26.9 26.0 26.5 27.0 27.3 27.5 27.5 27.4 32.9

  16        1    2    3    4    5    6    7    8    9   10

         32.8 27.2 27.4 27.3 27.2 26.9 26.4 25.9 27.0 21.1

  17        1    2    3    4    5    6    7
         17.2 18.0 18.1 18.2 19.1 19.8 16.9
  18        1    2    3    4    5    6    7
         16.1 19.8 19.1 18.1 18.0 17.9 17.0
```

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1

 RECEIVER    LEQ(H)   L10
 33           60.0   62.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
           13.1 15.1 15.4 15.5 16.0 17.3
    2        1    2    3    4    5    6
           20.0 21.1 21.6 26.3 28.7 29.8
    3        1
           30.9
    4        1    2    3
           48.5 55.4 47.1
    5        1    2    3    4    5    6
           41.2 36.9 36.0 39.5 39.9 35.4
    6        1    2    3
           31.3 29.9 33.0
    7        1    2    3    4
           33.0 29.7 31.2 33.8
    8        1    2    3    4    5    6
           39.8 39.4 36.0 36.8 41.0 45.6
    9        1    2    3
           54.5 48.8 32.3
   10        1
           29.3
   11        1    2    3    4    5    6
           28.6 26.4 21.7 21.1 20.1 19.5
   12        1    2    3    4    5
           16.1 15.6 15.5 15.2 13.3
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           29.4 33.6 25.7 30.0 28.3 28.3 27.9 25.1 24.9 24.1

           23.3 23.2 22.3 21.6
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           21.6 22.2 23.1 23.7 23.8 24.7 25.2 27.7 28.8 28.6

           29.0 26.7 33.4 29.4
   15        1    2    3    4    5    6    7    8    9   10

           20.2 26.5 25.5 26.0 26.5 26.8 27.0 26.9 26.8 32.4

   16        1    2    3    4    5    6    7    8    9   10

           32.4 26.7 26.9 26.8 26.6 26.3 26.0 25.4 27.0 20.4

   17        1    2    3    4    5    6    7
           15.9 16.7 16.9 18.4 19.9 20.6 16.5
   18        1    2    3    4    5    6    7
           16.2 20.6 19.9 18.2 16.8 16.7 15.7
1

 RECEIVER    LEQ(H)   L10
 34           57.8   60.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
           13.8 15.8 16.1 16.2 16.7 17.9
    2        1    2    3    4    5    6
           20.6 21.6 21.9 26.2 27.5 27.5
    3        1
           27.2
    4        1    2    3
           43.2 51.4 48.4
    5        1    2    3    4    5    6
           43.5 39.3 38.4 41.8 42.0 37.2
    6        1    2    3
           32.9 31.4 34.3
    7        1    2    3    4
           34.2 31.2 32.8 35.6
    8        1    2    3    4    5    6
           41.8 41.7 38.2 39.0 43.1 46.7
    9        1    2    3
           50.8 43.9 28.4
   10        1
           27.1
   11        1    2    3    4    5    6
           28.0 26.2 21.8 21.5 20.6 20.1
   12        1    2    3    4    5
           16.6 16.2 16.1 15.8 13.8
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           28.2 30.0 23.2 28.5 26.5 25.4 24.8 24.5 24.9 24.6

           24.5 24.8 24.3 23.8
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           23.8 24.2 24.7 24.8 24.3 24.8 24.6 24.6 25.8 26.8

           27.7 24.7 30.4 28.4
   15        1    2    3    4    5    6    7    8    9   10

           18.9 24.3 22.2 24.8 25.3 25.6 25.8 25.7 25.7 31.4

   16        1    2    3    4    5    6    7    8    9   10

           31.3 25.5 25.7 25.6 25.4 25.2 24.8 22.4 24.5 19.0

   17        1    2    3    4    5    6    7
           16.2 16.8 16.4 16.0 16.9 18.1 15.4
   18        1    2    3    4    5    6    7
           15.1 18.1 16.9 16.0 16.3 16.7 16.1
1

 RECEIVER    LEQ(H)   L10
 35           52.4   54.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
           22.2 24.2 24.5 24.6 25.2 26.5
    2        1    2    3    4    5    6
           29.3 30.2 30.6 33.6 27.6 26.9
    3        1
           25.9
    4        1    2    3
           32.8 38.6 35.6
    5        1    2    3    4    5    6
           31.7 37.3 37.8 41.4 41.9 37.3
    6        1    2    3
           33.1 31.5 34.4
    7        1    2    3    4
           34.3 31.3 32.9 35.7
    8        1    2    3    4    5    6
           41.8 41.3 37.6 35.0 31.3 34.0
    9        1    2    3
           38.2 33.4 27.3
   10        1
           27.5
   11        1    2    3    4    5    6
           28.0 31.8 30.6 30.1 29.2 28.6
   12        1    2    3    4    5
           25.1 24.6 24.5 24.2 22.3
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           19.6 24.0 18.6 25.4 27.4 27.8 28.1 28.1 31.7 33.0

           32.8 33.1 32.6 32.1
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           32.1 32.5 33.0 33.2 32.7 31.7 28.2 27.9 28.1 27.5

           24.5 20.1 24.4 19.7
   15        1    2    3    4    5    6    7    8    9   10

           19.5 20.8 15.6 15.9 16.3 16.5 16.6 16.5 16.4 21.8

   16        1    2    3    4    5    6    7    8    9   10

           21.8 16.2 16.4 16.4 16.4 16.2 15.8 15.5 20.6 19.5

   17        1    2    3    4    5    6    7
           24.8 22.0 19.8 19.3 18.6 19.4 15.9
   18        1    2    3    4    5    6    7
           15.7 19.4 18.7 19.3 19.7 22.2 24.6
1

 RECEIVER    LEQ(H)   L10
 36           53.3   55.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
           22.2 24.2 24.5 24.6 25.2 26.5
    2        1    2    3    4    5    6
           29.2 30.2 30.5 34.3 27.6 26.6
    3        1
           25.6
    4        1    2    3
           32.0 39.5 39.9
    5        1    2    3    4    5    6
           40.9 38.0 37.4 41.1 41.8 37.2
    6        1    2    3
           33.1 31.6 34.4
    7        1    2    3    4
           34.3 31.3 32.9 35.6
    8        1    2    3    4    5    6
           41.6 41.0 37.2 37.7 41.4 38.0
    9        1    2    3
           39.3 33.2 26.8
   10        1
           27.6
   11        1    2    3    4    5    6
           27.9 32.8 30.5 30.1 29.2 28.6
   12        1    2    3    4    5
           25.1 24.6 24.5 24.2 22.2
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           22.4 26.5 20.9 27.2 27.6 28.0 28.4 28.1 32.8 33.0

           32.8 33.1 32.6 32.1
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           32.1 32.5 33.0 33.2 32.7 32.9 28.2 28.1 28.4 27.6

           26.4 22.4 26.8 22.4
   15        1    2    3    4    5    6    7    8    9   10

           19.6 22.6 18.0 18.5 19.0 19.3 19.6 19.6 19.6 24.9

   16        1    2    3    4    5    6    7    8    9   10

           24.9 19.5 19.6 19.4 19.2 18.9 18.5 17.9 22.5 19.7

   17        1    2    3    4    5    6    7
           24.7 23.6 19.8 19.4 19.7 19.4 15.7
   18        1    2    3    4    5    6    7
           15.4 19.5 19.8 19.3 19.7 23.7 24.6
1

 RECEIVER    LEQ(H)   L10
 37           52.4   54.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
           22.1 24.1 24.4 24.5 25.1 26.3
    2        1    2    3    4    5    6
           29.1 30.1 30.3 34.7 31.0 25.4
    3        1
           24.8
    4        1    2    3
           29.3 37.1 34.8
    5        1    2    3    4    5    6
           38.9 36.6 36.1 40.1 41.3 37.1
    6        1    2    3
           33.0 31.5 34.4
    7        1    2    3    4
           34.3 31.3 32.8 35.4
    8        1    2    3    4    5    6
           41.1 40.0 35.9 36.2 38.8 33.4
    9        1    2    3
           37.1 30.5 25.5
   10        1
           27.4
   11        1    2    3    4    5    6
           27.5 34.6 30.3 29.9 29.1 28.5
   12        1    2    3    4    5
           25.0 24.5 24.4 24.1 22.1
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           22.6 26.6 20.5 26.8 28.1 28.6 28.2 32.6 33.1 32.9
```

```
          32.7 33.1 32.5 32.1
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          32.1 32.5 33.0 33.1 32.6 33.1 32.7 28.0 29.1 28.1

          26.0 22.0 27.0 22.6
   15       1    2    3    4    5    6    7    8    9   10

          19.9 22.1 18.2 18.8 18.8 19.2 19.4 19.5 18.2 23.2

   16       1    2    3    4    5    6    7    8    9   10

          23.2 18.1 19.5 19.3 19.1 18.7 18.7 18.1 22.1 19.8

   17       1    2    3    4    5    6    7
          24.6 25.2 23.2 19.3 20.2 20.9 15.8
   18       1    2    3    4    5    6    7
          15.8 21.0 20.2 19.2 23.3 25.1 24.5
1

 RECEIVER     LEQ(H)   L10
 38            51.6   53.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.7 26.8 27.2 27.5 28.2 29.7
   2        1    2    3    4    5    6
          32.6 33.9 34.4 35.7 33.6 33.8
   3        1
          35.1
   4        1    2    3
          38.8 39.5 31.3
   5        1    2    3    4    5    6
          27.0 23.3 22.9 26.9 28.6 25.6
   6        1    2    3
          22.8 22.0 25.2
   7        1    2    3    4
          25.2 21.7 22.5 24.0
   8        1    2    3    4    5    6
          28.6 26.9 22.8 23.4 27.0 30.0
   9        1    2    3
          39.8 39.8 35.1
  10        1
          35.8
  11        1    2    3    4    5    6
          33.9 32.9 34.0 33.7 32.6 31.8
  12        1    2    3    4    5
          28.1 27.5 27.2 26.8 24.8
  13        1    2    3    4    5    6    7    8    9   10

  11      12   13   14
          23.2 27.4 21.7 28.3 31.2 31.4 31.0 30.7 30.9 35.3

          35.3 35.6 35.0 34.5
  14        1    2    3    4    5    6    7    8    9   10

  11      12   13   14
          34.5 35.0 35.5 35.6 35.1 30.9 30.8 30.8 31.9 31.2

          27.4 23.3 27.8 23.2
  15        1    2    3    4    5    6    7    8    9   10

          23.3 24.1 19.8 20.4 20.9 21.4 22.5 22.5 22.4 27.9

  16        1    2    3    4    5    6    7    8    9   10

          27.7 22.2 22.4 22.3 21.3 20.8 20.3 19.7 24.0 23.1

  17        1    2    3    4    5    6    7
          26.7 23.5 23.2 22.8 23.6 24.2 19.9
  18        1    2    3    4    5    6    7
          19.8 24.2 23.6 22.7 23.1 23.4 26.6
1

 RECEIVER     LEQ(H)   L10
 39            51.4   53.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.4 26.5 26.9 27.1 27.8 29.2
   2        1    2    3    4    5    6
          32.1 33.3 33.9 37.6 32.6 31.9
   3        1
          32.7
   4        1    2    3
          38.6 38.0 32.4
   5        1    2    3    4    5    6
          27.9 23.8 23.4 27.5 29.4 26.3
   6        1    2    3
          23.3 22.4 25.8
   7        1    2    3    4
          25.7 22.2 23.1 24.5
   8        1    2    3    4    5    6
          29.4 27.5 23.4 23.7 28.4 31.3
   9        1    2    3
          38.0 39.4 33.0
  10        1
          34.3
  11        1    2    3    4    5    6
          32.8 36.0 33.9 33.2 32.1 31.3
  12        1    2    3    4    5
          27.7 27.1 26.9 26.5 24.4
  13        1    2    3    4    5    6    7    8    9   10

  11      12   13   14
          23.3 27.5 22.0 29.7 30.8 31.0 30.6 30.3 34.3 35.1

          35.0 35.3 34.7 34.2
  14        1    2    3    4    5    6    7    8    9   10

  11      12   13   14
          34.2 34.7 35.2 35.3 34.9 34.3 30.4 30.4 31.5 30.9

          29.0 23.6 27.9 23.4
  15        1    2    3    4    5    6    7    8    9   10

          23.0 25.0 19.8 20.3 20.8 21.8 22.3 22.3 22.2 27.6

  16        1    2    3    4    5    6    7    8    9   10

          27.5 22.0 22.2 22.1 21.7 20.7 20.3 19.7 24.8 23.0

  17        1    2    3    4    5    6    7
          27.5 25.5 22.7 22.3 23.1 23.7 19.6
  18        1    2    3    4    5    6    7
          19.3 23.7 23.1 22.2 22.6 25.5 27.4
1

 RECEIVER     LEQ(H)   L10
 40            50.9   52.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          23.8 25.8 26.2 26.4 27.0 28.4
   2        1    2    3    4    5    6
          31.3 32.4 32.9 37.5 31.0 29.7
   3        1
          29.9
   4        1    2    3
          33.6 40.1 32.9
   5        1    2    3    4    5    6
          30.6 25.4 25.0 28.9 30.4 27.3
   6        1    2    3
          24.0 23.0 26.3
   7        1    2    3    4
          26.3 22.8 23.8 25.8
   8        1    2    3    4    5    6
          30.4 29.0 25.0 26.9 29.7 31.7
   9        1    2    3
          40.1 34.7 30.5
  10        1
          32.0
  11        1    2    3    4    5    6
          31.1 36.2 32.9 32.3 31.3 30.5
  12        1    2    3    4    5
          26.9 26.4 26.2 25.8 23.8
  13        1    2    3    4    5    6    7    8    9   10

  11      12   13   14
          23.1 27.3 21.8 28.5 30.1 30.4 29.9 31.0 34.8 34.5

          34.4 34.7 34.1 33.7
  14        1    2    3    4    5    6    7    8    9   10

  11      12   13   14
          33.7 34.1 34.6 34.7 34.3 34.8 31.3 29.7 30.8 30.2

          27.6 23.3 27.7 23.1
  15        1    2    3    4    5    6    7    8    9   10

          22.3 23.9 19.3 19.9 21.2 21.5 21.8 21.7 22.4 26.7

  16        1    2    3    4    5    6    7    8    9   10

          26.6 22.3 21.7 21.6 21.4 21.0 19.9 19.2 23.7 22.3

  17        1    2    3    4    5    6    7
          26.7 26.7 21.9 21.4 22.3 22.9 18.8
  18        1    2    3    4    5    6    7
          18.6 23.0 22.3 21.3 21.7 26.7 26.6
1

 RECEIVER     LEQ(H)   L10
 41            50.5   52.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          23.1 25.1 25.4 25.6 26.2 27.6
   2        1    2    3    4    5    6
          30.4 31.4 31.8 36.2 29.4 28.1
   3        1
          27.8
   4        1    2    3
          32.3 40.5 34.6
   5        1    2    3    4    5    6
          30.2 26.3 25.9 30.1 31.4 29.4
   6        1    2    3
          26.9 25.8 29.0
   7        1    2    3    4
          29.0 25.6 26.8 27.2
   8        1    2    3    4    5    6
          31.3 30.1 25.9 26.5 30.2 33.4
   9        1    2    3
          40.3 33.4 28.6
  10        1
          29.9
  11        1    2    3    4    5    6
          29.5 35.0 31.8 31.3 30.3 29.7
  12        1    2    3    4    5
          26.1 25.6 25.4 25.1 23.1
  13        1    2    3    4    5    6    7    8    9   10

  11      12   13   14
          23.2 27.3 21.1 27.4 28.4 29.7 29.2 30.1 34.1 33.9

          33.7 34.0 33.5 33.0
  14        1    2    3    4    5    6    7    8    9   10

  11      12   13   14
          33.0 33.4 33.9 34.0 33.6 34.1 30.3 29.0 30.1 28.4

          26.6 22.6 27.7 23.3
  15        1    2    3    4    5    6    7    8    9   10

          20.0 22.9 19.3 19.9 20.4 20.2 20.2 20.2 20.2 26.0

  16        1    2    3    4    5    6    7    8    9   10

          26.0 20.1 20.2 20.0 20.0 20.2 19.8 19.2 22.9 20.0

  17        1    2    3    4    5    6    7
          25.8 25.7 20.9 20.5 21.4 21.6 16.2
  18        1    2    3    4    5    6    7
          15.9 21.7 21.4 20.4 20.8 25.7 25.7
```

```
                    *************************
                          OPTIMA-VU1
                    *************************
              BARRIER OPTIMIZATION PROGRAM USING
             PARTIAL SOUND ENERGIES COMPUTED BY THE
                     STAMINA 2.0 PROGRAM
         MODIFIED FROM THE FHWA VAX VERSON -- MARCH 1983

      MODIFIED TO:
         1.   PLACE BARRIER COST DATA IN A DATA FILE CALLED
              OPTCOST.DTA TO ALLOW USER TO USE COSTS OTHER THAN
              THE FHWA NATIONAL AVERAGES.
                    *************************
         MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
                        IN JUNE 1991 BY
         VANDERBILT ENGINEERING CENTER FOR TRANSPORTATION
                OPERATIONS AND RESEARCH (VECTOR)
      BOX 96-B, VANDERBILT UNIVERSITY, NASHVILLE, TENNESSEE 37235
                        (615) 322-3683
                    *************************

    PROBLEM TITLE
    *************
 Meadowood - Multi-Family 2nd Floor (Receivers 27-41)No 15

              EFFECTIVENESS/COST RATIO AND BARRIER HEIGHT MATRICES
              ****************************************************
BARRIER SECTION        EFFECTIVENESS/COST                CORRESPONDING
   NO  IDENT                 RATIO                       BARRIER HEIGHTS(IN
FT)

 HEIGHT INDEX   1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8
   1  1          *  23.  22.  21.  19.  18.  16.  15.  0. 5. 6. 7. 8.
9.10.11.
   2  2          *  30.  33.  34.  33.  31.  28.  27.  0. 5. 6. 7. 8.
9.10.11.
   3  3          *  17.  18.  16.  13.  11.   9.   7.  0. 5. 6. 7. 8.
9.10.11.
   4  5          *   0.  15.  16.  17.  15.  10.   7.  0. 5. 6. 7. 8.
9.10.11.
   5  6          *  30.  28.  27.  25.  24.  23.  22.  0. 5. 6. 7. 8.
9.10.11.
   6  7          *  26.  30.  34.  29.  26.  26.  26.  0. 5. 6. 7. 8.
9.10.11.
   7  8          *  27.  27.  28.  30.  27.  23.  21.  0. 5. 6. 7. 8.
9.10.11.
   8  9          *  14.  13.  12.  12.  10.   9.   8.  0. 5. 6. 7. 8.
9.10.11.
   9  10         *   6.   4.   5.   5.   4.   3.   3.  0. 5. 6. 7. 8.
9.10.11.
  10  11         *   1.   1.   3.   3.   2.   0.  -2.  0. 5. 6. 7. 8.
9.10.11.
  11  12         *  10.  11.  11.  11.   9.   5.   3.  0. 5. 6. 7. 8.
9.10.11.
  12  13         *   0.   0.   0.   0.   0.   0.   0.  0. 5. 6. 7. 8.
9.10.11.
  13  1          *   0.                                0.20.
  14  2          *   0.                                0.20.
  15  3          *   0.                                0.20.
  16  4          *   0.                                0.20.
  17  1          *   0.                                0.20.
  18  2          *   0.                                0.20.
  19  3          *   0.                                0.20.
  20  4          *   0.                                0.20.
  21  1          *   0.                                0.20.
  22  2          *   0.                                0.20.
  23  3          *   0.                                0.20.
  24  4          *   0.                                0.20.
  25  1          *   0.                                0.20.
  26  2          *   0.                                0.20.
  27  3          *   0.                                0.20.
  28  4          *   0.                                0.20.
  29  1          *   0.                                0.20.
  30  2          *   0.                                0.20.
  31  3          *   0.                                0.20.
  32  4          *   0.                                0.20.
  33  1          *   0.                                0.20.
  34  2          *   0.                                0.20.
  35  3          *   0.                                0.20.
  36  4          *   0.                                0.20.
  37  1          *   0.                                0.20.
  38  2          *   0.                                0.20.
  39  3          *   0.                                0.20.
  40  4          *   0.                                0.20.
  41  1          *   0.                                0.20.
  42  2          *   0.                                0.20.
  43  3          *   0.                                0.20.
  44  4          *   0.                                0.20.
  45  1          *   0.                                0.20.
  46  2          *   0.                                0.20.
  47  3          *   0.                                0.20.
  48  4          *   0.                                0.20.
  49  1          *   0.                                0.20.
  50  2          *   0.                                0.20.
  51  3          *   0.                                0.20.
  52  4          *   0.                                0.20.
  53  1          *   0.                                0.20.
  54  2          *   0.                                0.20.
  55  3          *   0.                                0.20.
  56  4          *   0.                                0.20.
  57  1          *   0.                                0.20.
  58  2          *   0.                                0.20.
  59  3          *   0.                                0.20.
  60  4          *   0.                                0.20.
  61  1          *   0.                                0.20.
  62  2          *   0.                                0.20.
  63  3          *   0.                                0.20.
  64  4          *   0.                                0.20.
  65  1          *   0.                                0.20.
  66  2          *   0.                                0.20.
  67  3          *   0.                                0.20.
  68  4          *   0.                                0.20.

 HEIGHT INDEX   1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8

 Meadowood - Multi-Family 2nd Floor (Receivers 27-41)No 15


 BARRIER HEIGHT INDEX FOR EACH BARRIER SECTION
   5  5  5  2  2  6  6  6  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2
   2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2
   2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2  2
 CORRESPONDING BARRIER HEIGHTS FOR EACH SECTION
  8. 8. 8. 5. 5. 9. 9. 9. 5. 5. 5. 5.20.20.20.20.20.20.20.20.20.20.20.20.
20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.
20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.20.

    R E S U L T S
    *************

 REC    REC ID        LEQ       LEQ(Z(0))       IL
```

1	27	65.5	67.9	2.4
2	28	63.5	67.0	3.4
3	29	60.4	63.6	3.2
4	30	65.0	67.6	2.6
5	31	65.5	66.5	1.0
6	32	61.1	61.6	.5
7	33	60.0	60.4	.4
8	34	57.8	58.3	.5
9	35	52.4	56.8	4.4
10	36	53.6	56.0	2.5
11	37	52.4	54.2	1.8
12	38	51.5	56.4	4.9
13	39	51.3	55.5	4.2
14	40	50.9	54.7	3.7
15	41	50.6	54.7	4.1

BARRIER TYPE	COST	AREA (SQ. FT.)
FH-BERM	0.	0.
FH-MASON	632600.	115176.
FH-WOOD	0.	0.
FH-CONC	0.	0.
FH-STEEL	0.	0.

****

TOTALS:	$ 632600.	115176.

END OF ALL CASES

****
STAM2VU1
Version 1.20
****
STAMINA 2.0/BCR
MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
TRAFFIC NOISE PREDICTION MODEL

MODIFIED TO:
1. ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
2. CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
3. PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.

****

MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
AND BOWLBY & ASSOCIATES, INC.
2014 BROADWAY, SUITE 210
NASHVILLE, TN 37203-2425
TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE *.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.

(INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH)

Meadowood - Single-Family 1st Floor (Receivers 42-81)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

HEIGHT	CODE	DESCRIPTION
.00	1	RECEIVER HEIGHT ADJUSTMENT
1.00	2	A-WEIGHTED SOUND LEVEL ONLY
.00	3	HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
.00	4	HEIGHT ADJUSTMENT FOR HEAVY TRUCKS (HT)
.00	5	HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS (MT)
.000	6	HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4)
		CARS--CALVENO
		C0 = 5.20 C1 = 38.80 S0 = .00
2.300	7	HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5)
		MT--CALVENO
		C0 = 35.30 C1 = 25.60 S0 = .00
8.000	8	HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6)
		HT--CALVENO
		C0 = 50.40 C1 = 19.20 S0 = .00

0ROADWAY 1 HRC nb (76 to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6287767.4	2067284.0	276.0	0
2	6287704.7	2067456.2	276.0	0
3	6287629.7	2067702.5	279.0	0
4	6287568.8	2067936.5	284.0	0
5	6287512.3	2068148.3	284.0	0
6	6287446.9	2068359.4	282.0	0
7	6287374.5	2068606.6	279.0	0

0ROADWAY 2 HRC nb (Pankey to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
7	6287374.5	2068606.6	279.0	0
8	6287273.9	2068832.6	278.0	0
9	6287137.9	2069057.7	278.0	0
10	6287017.0	2069263.4	280.0	0
11	6286760.9	2069688.9	285.0	0
12	6286533.2	2070137.4	290.0	0
13	6286310.7	2070587.7	296.0	0

0ROADWAY 3 HRC nb (School to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
13	6286310.7	2070587.7	296.0	0
14	6286086.4	2071030.0	302.0	0

0ROADWAY 4 HRC nb (26 to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286086.4	2071030.0	302.0	0
15	6285859.5	2071475.8	308.0	0
16	6285540.8	2072106.2	311.0	0
17	6285403.1	2072385.2	310.0	0

0ROADWAY 5 HRC nb (Harvest Glen to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
17	6285403.1	2072385.2	310.0	0
18	6285328.1	2072574.1	310.0	0
19	6285298.0	2072673.9	310.0	0
20	6285270.7	2072773.6	311.0	0
21	6285221.2	2073078.2	314.0	0
22	6285201.8	2073673.3	322.0	0
23	6285188.6	2074037.0	338.0	0

0ROADWAY 6 HRC nb (Longspur to Baltimore)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
23	6285188.6	2074037.0	338.0	0
24	6285145.3	2074308.9	346.0	0
25	6285056.1	2074546.4	351.0	0
26	6284650.0	2075149.4	356.0	0

0ROADWAY 7 HRC sb (Baltimore to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6284621.8	2075132.6	356.0	0
2	6285015.5	2074527.9	351.0	0
3	6285099.4	2074300.1	346.0	0
4	6285141.8	2074033.5	338.0	0
5	6285159.4	2073671.5	322.0	0

0ROADWAY 8 HRC sb (Longspur to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
5	6285159.4	2073671.5	322.0	0
6	6285181.5	2073072.9	314.0	0
7	6285228.3	2072759.5	311.0	0
8	6285256.5	2072658.0	310.0	0
9	6285287.4	2072557.3	310.0	0
10	6285368.7	2072369.3	310.0	0
11	6285504.6	2072087.7	311.0	0

0ROADWAY 9 HRC sb (Harvest Glen to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
11	6285504.6	2072087.7	311.0	0
12	6285818.9	2071457.3	308.0	0
13	6286045.8	2071007.9	302.0	0
14	6286269.2	2070567.4	296.0	0

0ROADWAY 10 HRC sb (26 to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	14.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286269.2	2070567.4	296.0	0
15	6286493.4	2070122.4	290.0	0

0ROADWAY 11 HRC sb (School to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
15	6286493.4	2070122.4	290.0	0
16	6286720.3	2069667.7	285.0	0
17	6286977.2	2069239.6	280.0	0
18	6287102.6	2069033.0	278.0	0
19	6287238.6	2068813.1	278.0	0

20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

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BARRIER 1 TYPE(A) Pad Edges 1

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6286634.5	2070357.1	300.0	300.0	.0	0
2	6286502.0	2070298.3	300.0	300.0		
3	6286265.1	2070793.1	310.0	310.0		
4	6286320.9	2070828.5	310.0	310.0		

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BARRIER 2 TYPE(A) Pad Edges 2

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
5	6286349.5	2070944.8	315.0	315.0	.0	0
6	6286239.3	2070896.7	314.0	314.0		
7	6286196.9	2070902.4	314.0	314.0		
8	6286078.1	2071137.0	311.0	311.0		
9	6286004.6	2071292.5	316.0	316.0		
10	6286004.6	2071603.5	317.0	317.0		
11	6286004.6	2071990.8	321.0	321.0		
12	6286004.5	2072360.7	324.0	324.0		
13	6286289.0	2072499.4	326.0	326.0		
14	6286498.0	2072566.2	329.0	329.0		

1

BARRIER 3 TYPE(A) Pad Edges 3

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
15	6286634.5	2072765.6	395.0	395.0	.0	0
16	6286621.9	2072916.9	395.0	395.0		
17	6286648.3	2073055.3	397.0	397.0		
18	6286685.9	2073120.3	400.0	400.0		
19	6286802.5	2073223.1	408.0	408.0		
20	6286939.8	2073344.0	421.0	421.0		
21	6287080.9	2073468.3	434.0	434.0		
22	6287179.3	2073554.7	442.0	442.0		
23	6287319.9	2073660.5	447.0	447.0		

1

BARRIER 4 TYPE(A) Pad Edges 4

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
24	6286661.4	2072669.3	399.0	399.0	.0	0
25	6286691.4	2072606.8	402.0	402.0		
26	6286808.6	2072443.9	413.0	413.0		
27	6286883.6	2072343.9	420.0	420.0		
28	6286840.1	2072178.6	425.0	425.0		
29	6286812.9	2072107.3	425.0	425.0		
30	6286826.1	2072043.3	425.0	425.0		
31	6286826.1	2072043.3	425.0	425.0		
32	6286852.2	2071992.5	425.0	425.0		
33	6286902.8	2071961.7	425.0	425.0		

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BARRIER 5 TYPE(A) Pad Edges 5

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
33	6286902.8	2071961.7	425.0	425.0	.0	0
34	6286962.6	2071945.7	425.0	425.0		
35	6287015.8	2071960.1	425.0	425.0		
36	6287071.5	2071996.1	425.0	425.0		
37	6287133.1	2072101.5	433.0	433.0		
38	6287208.1	2072073.0	440.0	440.0		
39	6287286.5	2072058.4	443.0	443.0		
40	6287479.3	2072046.8	454.0	454.0		
41	6287668.5	2072035.1	465.0	465.0		
41b	6287685.1	2071982.5	494.0	494.0		

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BARRIER 6 TYPE(A) Pad Edges 6

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
41b	6287685.1	2071982.5	494.0	494.0	.0	0
42	6287686.6	2071882.5	494.0	494.0		
42b	6287699.0	2071869.6	494.0	494.0		
43	6287687.4	2071826.0	494.0	494.0		
44	6287537.5	2071795.8	493.0	493.0		
45	6287494.5	2071766.0	493.0	493.0		
46	6287457.5	2071786.6	493.0	493.0		
47	6287414.4	2071765.2	493.0	493.0		
48	6287295.5	2071799.6	493.0	493.0		
49	6287284.9	2071649.7	489.0	489.0		

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BARRIER 7 TYPE(A) Pad Edges 7

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
49	6287284.9	2071649.7	489.0	489.0	.0	0
50	6287348.9	2071527.3	487.0	487.0		
51	6287424.5	2071350.9	481.0	481.0		
52	6287467.2	2071294.2	479.0	479.0		
53	6287518.6	2071247.5	477.0	477.0		

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BARRIER 8 TYPE(A) Pad Edges 8

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
54	6287218.1	2070892.1	417.0	417.0	.0	0
55	6287157.9	2071011.8	422.0	422.0		
56	6287075.2	2071176.2	427.0	427.0		
57	6287007.6	2071272.7	427.0	427.0		
58	6286932.0	2071401.6	427.0	427.0		
59	6286944.0	2071476.9	427.0	427.0		
60	6286980.6	2071530.1	427.0	427.0		
61	6287085.3	2071587.4	427.0	427.0		
61b	6287195.3	2071545.3	430.0	430.0		

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BARRIER 9 TYPE(A) Pad Edges 9

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
62	6287504.8	2073407.6	464.0	464.0	.0	0
63	6287455.9	2073368.6	463.0	463.0		
64	6287170.1	2073077.7	459.0	459.0		
65	6287084.1	2072959.0	458.0	458.0		
66	6287062.5	2072812.7	457.0	457.0		
67	6287098.4	2072672.4	456.0	456.0		
68	6287206.8	2072488.9	454.0	454.0		
69	6287296.9	2072394.7	453.0	453.0		
70	6287367.3	2072346.7	452.0	452.0		
71	6287469.2	2072361.5	452.0	452.0		

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BARRIER 10 TYPE(A) Pad Edges 10

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
72	6287697.7	2073088.0	486.0	486.0	.0	0
73	6287547.5	2072976.4	486.0	486.0		
74	6287491.4	2072888.6	486.0	486.0		
75	6287491.1	2072766.9	485.0	485.0		
76	6287635.8	2072596.6	482.0	482.0		
77	6287767.5	2072309.5	477.0	477.0		

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BARRIER 11 TYPE(A) Pad Edges 11

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
78	6287168.3	2074113.6	447.0	447.0	.0	0
79	6287306.7	2073811.7	443.0	443.0		
80	6287536.9	2073481.4	457.0	457.0		

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BARRIER 12 TYPE(A) Pad Edges 12

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
81	6287283.0	2074170.1	465.0	465.0	.0	0
82	6287469.8	2073845.2	471.0	471.0		
82b	6287616.6	2073652.3	478.0	478.0		
82c	6287630.6	2073609.8	478.0	478.0		
83	6287702.0	2073532.9	475.0	475.0		

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BARRIER 13 TYPE(A) Pad Edges 14

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
84	6288855.6	2071200.7	606.0	606.0	.0	0
85	6288817.6	2071249.1	606.0	606.0		
85b	6288817.1	2071249.5	600.0	600.0		
85c	6288775.2	2071293.2	600.0	600.0		
85d	6288774.8	2071293.5	593.0	593.0		
86	6288730.6	2071333.3	593.0	593.0		
86b	6288730.4	2071333.5	585.0	585.0		
87	6288637.1	2071415.2	574.0	574.0		
87b	6288636.6	2071415.5	558.0	558.0		
87c	6288577.5	2071447.1	558.0	558.0		

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BARRIER 14 TYPE(A) Pad Edges 15

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
87c	6288577.5	2071447.1	558.0	558.0	.0	0
87d	6288576.6	2071447.3	542.0	542.0		
87e	6288512.6	2071462.6	542.0	542.0		
87f	6288512.2	2071462.7	535.0	535.0		
87g	6288454.3	2071466.7	535.0	535.0		
87h	6288453.5	2071466.7	528.0	528.0		
87i	6288396.4	2071470.4	528.0	528.0		

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BARRIER 15 TYPE(A) Pad Edges 16

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
88	6287934.8	2071070.6	463.0	463.0	.0	0
89	6287896.0	2071051.1	461.0	461.0		
90	6287829.7	2071017.7	457.0	457.0		
91	6287774.3	2070989.8	452.0	452.0		
92	6287719.9	2070962.3	446.0	446.0		
93	6287660.0	2070932.2	438.0	438.0		
94	6287602.9	2070903.4	431.0	431.0		
95	6287558.2	2070880.9	426.0	426.0		
96	6287504.6	2070853.9	426.0	426.0		
97	6287457.4	2070947.6	426.0	426.0		

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BARRIER 16 TYPE(A) Pad Edges 17

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
98	6287917.7	2071215.4	471.0	471.0	.0	0
99	6288056.8	2071153.4	487.0	487.0		
100	6288174.3	2071168.6	499.0	499.0		
101	6288341.6	2071223.3	517.0	517.0		
102	6288383.4	2071229.3	517.0	517.0		
103	6288411.9	2071206.0	518.0	518.0		

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BARRIER 17 TYPE(A) Pade Edges 18

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
104	6287531.1	2074308.7	483.0	483.0	.0	0
105	6287706.9	2074046.2	487.0	487.0		
106	6287847.9	2073869.2	491.0	491.0		
107	6287887.1	2073856.0	493.0	493.0		

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BARRIER 18 TYPE(A) Pad Edges 19

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
108a	6287776.1	2074544.5	503.0	503.0	.0	0
108b	6287725.5	2074618.8	503.0	503.0		
109	6287778.2	2074656.5	513.0	513.0		
110	6287798.1	2074702.8	518.0	518.0		
111	6287807.8	2074744.0	518.0	518.0		

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BARRIER 19 TYPE(A) topo

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
101	6288085.4	2071071.8	480.0	480.0	.0	0
102	6288126.7	2071075.6	490.0	490.0		
103	6288184.4	2071080.1	500.0	500.0		
104	6288251.7	2071097.2	510.0	510.0		
105	6288303.1	2071102.9	520.0	520.0		
106	6288351.3	2071117.5	520.0	520.0		
107	6288405.9	2071126.4	520.0	520.0		
108	6288430.0	2071156.2	520.0	520.0		
109	6288449.0	2071195.5	520.0	520.0		
110	6288523.0	2071244.5	520.0	520.0		

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BARRIER 20 TYPE(A) topo cont.

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
110	6288523.0	2071244.5	520.0	520.0	.0	0
111	6288548.5	2071277.9	540.0	540.0		
112	6288475.2	2071383.9	540.0	540.0		
113	6288552.4	2071426.4	550.0	550.0		
114	6288585.8	2071413.3	560.0	560.0		
115	6288606.7	2071398.3	570.0	570.0		
116	6288659.1	2071359.7	580.0	580.0		
117	6288723.8	2071295.6	590.0	590.0		
118	6288785.3	2071224.9	600.0	600.0		
119	6288860.6	2071169.9	610.0	610.0		

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Receivers @ 5'

	----------COORDINATES----------		
	X	Y	Z
42	6287209.4	2070932.6	421.0
43	6287178.7	2070993.6	423.0
44	6287124.4	2071102.2	429.0
45	6287070.4	2071208.9	432.0
46	6287011.5	2071313.5	432.0
47	6286953.5	2071473.5	431.0
48	6287522.5	2070876.7	430.0
49	6287583.7	2070904.9	435.0
50	6287641.1	2070934.2	442.0
51	6287698.8	2070963.5	451.0
52	6287753.1	2070989.9	456.0
53	6287807.4	2071017.6	461.0
54	6287863.0	2071046.2	465.0
55	6287917.2	2071073.2	467.0
56	6287991.1	2071192.0	476.0
57	6288126.8	2071166.8	492.0
58	6288204.0	2071190.3	503.0
59	6288260.7	2071208.1	513.0
60	6288313.9	2071224.5	518.0
61	6288362.9	2071239.5	521.0
62	6288406.6	2071227.5	522.0
63	6288483.4	2071474.3	539.0
64	6288549.4	2071464.5	547.0
65	6288609.3	2071442.1	563.0
66	6288668.5	2071402.8	578.0
67	6288714.7	2071361.7	589.0
68	6288759.5	2071320.9	597.0
69	6288803.3	2071278.6	605.0
70	6288841.8	2071234.7	610.0
71	6287500.6	2071278.0	482.0
72	6287443.5	2071343.1	484.0
73	6287391.9	2071446.5	488.0
74	6287340.0	2071566.7	492.0
75	6287299.9	2071702.6	495.0
76	6287610.5	2071800.0	498.0
77	6287697.0	2071890.8	499.0
78	6287687.1	2072010.9	470.0
79	6287626.5	2072047.9	466.0
80	6287511.7	2072055.9	458.0
81	6287331.8	2072066.2	448.0

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ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 10 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 11 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 12 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 13 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 14 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 15 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 16 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 17 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 18 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
1

 SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

  1 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  2 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  3 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  4 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  5 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  6 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  7 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  8 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  9 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 10 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 11 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 12 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 13 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 14 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 15 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 16 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 17 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 18 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
1

 RECEIVER     LEQ(H)   L10
 42            53.8   55.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          22.9 25.0 25.5 25.7 26.4 27.8
   2        1    2    3    4    5    6
          30.9 32.2 32.9 38.0 40.3 41.5
   3        1
          39.8
   4        1    2    3
          38.4 36.7 30.7
   5        1    2    3    4    5    6
          26.6 23.1 22.8 26.9 28.5 24.8
   6        1    2    3
          20.9 19.6 23.0
   7        1    2    3    4
          23.2 19.6 20.8 23.4
   8        1    2    3    4    5    6
          28.4 27.0 22.8 23.1 26.6 29.6
   9        1    2    3
          36.7 38.9 40.9
  10        1
          42.2
  11        1    2    3    4    5    6
          40.2 37.9 32.9 32.1 30.9 30.0
  12        1    2    3    4    5
          26.4 25.8 25.5 25.0 23.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.5 34.4 28.8 34.9 35.3 35.3 34.6 34.1 34.0 33.5

          35.9 37.5 37.0 36.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.7 37.0 37.4 36.1 33.3 34.0 34.2 34.4 35.7 35.4

          34.1 30.3 34.7 30.6
  15        1    2    3    4    5    6    7    8    9   10

          27.7 31.1 26.6 27.1 27.7 27.6 27.8 27.4 27.0 32.1

  16        1    2    3    4    5    6    7    8    9   10

          32.0 26.9 27.3 27.6 27.8 27.8 27.2 26.5 31.1 27.7

  17        1    2    3    4    5    6    7
          26.2 26.9 26.7 26.4 27.3 28.0 24.1
  18        1    2    3    4    5    6    7
          23.8 28.0 27.3 26.3 26.6 26.8 26.1
1

 RECEIVER     LEQ(H)   L10
 43            52.8   54.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          22.0 24.1 24.6 24.9 25.6 27.0
   2        1    2    3    4    5    6
          30.0 31.3 32.0 36.9 39.2 40.8
   3        1
          39.8
   4        1    2    3
          38.8 36.8 30.9
   5        1    2    3    4    5    6
          26.8 23.3 23.0 27.1 28.6 25.0
   6        1    2    3
          21.2 18.3 22.0
   7        1    2    3    4
          23.1 19.7 21.2 23.5
   8        1    2    3    4    5    6
          28.6 27.2 22.9 23.3 26.8 29.7
   9        1    2    3
          36.7 39.0 40.9
  10        1
          41.9
  11        1    2    3    4    5    6
          39.0 36.8 31.9 31.2 30.0 29.2
  12        1    2    3    4    5
          25.5 24.9 24.6 24.1 22.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.0 32.2 26.7 33.0 33.5 33.7 33.3 32.9 33.1 32.7

          32.5 32.6 34.5 36.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.5 34.0 32.5 32.8 32.5 33.0 33.0 33.1 34.2 33.6

          32.2 28.2 32.6 28.1
  15        1    2    3    4    5    6    7    8    9   10

          25.8 28.9 24.3 24.7 25.0 25.0 25.0 24.7 24.4 29.6

  16        1    2    3    4    5    6    7    8    9   10

          29.6 24.3 24.7 24.8 24.9 24.9 24.6 24.1 28.9 25.8

  17        1    2    3    4    5    6    7
          25.3 25.8 25.6 25.1 25.9 26.4 22.3
  18        1    2    3    4    5    6    7
          22.0 26.4 25.8 25.0 25.4 25.8 25.2
1

 RECEIVER     LEQ(H)   L10
 44            55.4   57.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.8 27.7 28.2 28.3 28.8 30.1
   2        1    2    3    4    5    6
          33.2 35.1 36.0 40.9 43.2 42.2
   3        1
          41.6
   4        1    2    3
          39.7 42.2 34.6
   5        1    2    3    4    5    6
          29.6 25.8 25.1 29.1 29.8 25.6
   6        1    2    3
          21.3 20.3 24.0
   7        1    2    3    4
          24.0 20.1 21.4 24.2
   8        1    2    3    4    5    6
          29.8 29.3 25.4 25.9 29.9 33.7
   9        1    2    3
          42.2 41.7 42.5
  10        1
          42.6
  11        1    2    3    4    5    6
          43.0 40.7 35.9 35.2 33.6 32.7
  12        1    2    3    4    5
          29.4 28.8 28.4 28.0 25.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.5 34.8 29.4 35.8 36.4 36.8 36.5 36.3 36.7 35.6
```

```
          34.1 33.1 32.1 34.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          34.1 32.1 33.1 34.4 35.5 36.7 36.5 36.3 37.3 36.6

          35.0 30.9 35.2 30.6
  15        1    2    3    4    5    6    7    8    9   10

          28.7 31.7 27.0 27.4 27.6 27.6 27.6 27.2 26.8 32.0

  16        1    2    3    4    5    6    7    8    9   10

          31.9 26.7 27.2 27.4 27.5 27.5 27.3 26.9 31.6 28.7

  17        1    2    3    4    5    6    7
          29.3 29.7 29.3 28.7 29.2 29.6 25.3
  18        1    2    3    4    5    6    7
          25.0 29.6 29.2 28.6 29.1 29.6 29.1
1

 RECEIVER    LEQ(H)   L10
 45           55.0   56.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.4 26.5 27.0 27.1 27.7 29.0
   2        1    2    3    4    5    6
          32.0 33.5 34.5 40.3 42.7 41.8
   3        1
          41.7
   4        1    2    3
          40.5 41.2 33.6
   5        1    2    3    4    5    6
          28.8 25.1 24.5 28.5 29.6 25.9
   6        1    2    3
          22.4 21.4 24.8
   7        1    2    3    4
          24.8 21.2 22.3 24.4
   8        1    2    3    4    5    6
          29.6 28.7 24.7 25.3 29.0 32.7
   9        1    2    3
          41.5 42.3 42.4
  10        1
          42.2
  11        1    2    3    4    5    6
          42.5 40.2 35.0 33.7 32.2 31.3
  12        1    2    3    4    5
          27.9 27.4 27.2 26.8 24.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.3 34.6 29.2 35.5 36.2 36.5 36.2 36.0 36.4 35.0

          33.4 32.7 31.4 32.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.9 31.4 32.6 33.7 34.9 36.4 36.2 36.0 37.0 36.3

          34.7 30.7 35.0 30.4
  15        1    2    3    4    5    6    7    8    9   10

          28.5 31.4 26.8 27.1 27.4 27.4 27.4 27.1 26.7 31.9

  16        1    2    3    4    5    6    7    8    9   10

          31.9 26.6 27.0 27.2 27.3 27.2 27.1 26.6 31.4 28.5

  17        1    2    3    4    5    6    7
          27.7 29.3 28.9 28.3 28.9 29.3 25.0
  18        1    2    3    4    5    6    7
          24.8 29.3 28.9 28.2 28.8 29.2 27.6
1

 RECEIVER    LEQ(H)   L10
 46           52.9   54.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          21.1 23.1 23.6 23.7 24.4 25.7
   2        1    2    3    4    5    6
          28.7 29.9 30.5 35.3 37.9 39.9
   3        1
          39.8
   4        1    2    3
          40.8 39.3 33.0
   5        1    2    3    4    5    6
          28.7 25.1 24.6 28.7 30.0 26.5
   6        1    2    3
          23.0 21.9 25.4
   7        1    2    3    4
          25.4 21.8 22.9 24.9
   8        1    2    3    4    5    6
          29.9 28.8 24.7 25.1 28.7 31.9
   9        1    2    3
          39.3 40.7 41.2
  10        1
          41.1
  11        1    2    3    4    5    6
          37.9 35.3 30.5 29.8 28.7 27.9
  12        1    2    3    4    5
          24.4 23.8 23.6 23.2 21.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.1 34.5 29.0 34.5 34.4 34.2 33.2 32.5 32.3 31.7

          31.3 31.4 30.8 30.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.3 30.8 31.3 31.6 31.5 32.3 32.6 33.0 34.6 34.5

          33.7 30.5 34.9 30.2
  15        1    2    3    4    5    6    7    8    9   10

          27.1 31.2 26.5 26.9 27.2 27.3 27.3 27.0 26.6 31.8

  16        1    2    3    4    5    6    7    8    9   10

          31.8 26.5 26.9 27.0 27.1 27.1 26.8 26.4 31.1 27.1

  17        1    2    3    4    5    6    7
          24.1 24.8 24.8 24.7 25.7 26.7 23.2
  18        1    2    3    4    5    6    7
          22.9 26.7 25.7 24.6 24.7 24.8 24.0
1

 RECEIVER    LEQ(H)   L10
 47           53.5   55.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          19.6 21.6 22.0 22.2 22.7 24.0
   2        1    2    3    4    5    6
          26.8 27.9 28.4 33.0 35.1 38.9
   3        1
          39.8
   4        1    2    3
          41.3 44.2 38.1
   5        1    2    3    4    5    6
          34.0 30.5 30.0 34.1 35.6 32.1
   6        1    2    3
          28.4 27.3 30.6
   7        1    2    3    4
          30.6 27.0 28.3 30.5
   8        1    2    3    4    5    6
          35.5 34.1 30.0 30.4 33.9 36.9
   9        1    2    3
          43.9 43.1 41.5
  10        1
          40.2
  11        1    2    3    4    5    6
          35.3 33.1 28.4 27.9 26.8 26.2
  12        1    2    3    4    5
          22.7 22.2 22.0 21.6 19.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          25.1 29.3 23.8 30.1 30.6 30.9 30.6 30.3 30.6 30.3

          30.0 29.9 29.0 32.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.6 28.9 29.8 30.3 30.0 30.6 30.5 30.4 31.4 30.8

          29.3 25.4 29.7 25.2
  15        1    2    3    4    5    6    7    8    9   10

          22.9 25.9 21.7 22.9 24.1 25.3 25.4 26.7 26.4 31.5

  16        1    2    3    4    5    6    7    8    9   10

          31.5 26.2 26.6 25.2 25.2 24.0 22.9 21.6 25.9 22.9

  17        1    2    3    4    5    6    7
          22.4 23.0 22.8 22.4 23.1 23.6 19.4
  18        1    2    3    4    5    6    7
          19.1 23.6 23.1 22.3 22.7 23.0 22.3
1

 RECEIVER    LEQ(H)   L10
 48           53.9   55.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.6 28.8 29.3 29.6 30.5 32.0
   2        1    2    3    4    5    6
          35.1 36.3 35.6 37.9 38.3 39.7
   3        1
          36.6
   4        1    2    3
          30.6 29.5 23.7
   5        1    2    3    4    5    6
          19.7 16.3 16.0 20.1 22.7 20.9
   6        1    2    3
          18.5 18.2 22.2
   7        1    2    3    4
          22.1 18.0 18.4 19.3
   8        1    2    3    4    5    6
          22.8 20.4 16.2 16.5 20.0 22.9
   9        1    2    3
          29.8 31.0 38.1
  10        1
          39.8
  11        1    2    3    4    5    6
          38.1 37.6 35.4 36.1 35.0 34.1
  12        1    2    3    4    5
          30.3 29.6 29.2 28.7 26.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.6 35.0 29.6 36.0 36.7 37.2 37.0 36.9 37.4 37.3

          37.4 37.9 37.5 37.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.2 37.5 37.8 37.7 37.1 37.4 37.1 36.8 37.7 36.9

          35.2 31.1 35.4 30.7
  15        1    2    3    4    5    6    7    8    9   10

          29.0 30.3 24.7 24.6 25.2 25.1 25.2 25.1 24.9 30.5

  16        1    2    3    4    5    6    7    8    9   10

          30.4 24.8 25.0 25.0 25.0 25.0 24.6 24.5 30.2 29.0

  17        1    2    3    4    5    6    7
          30.2 30.4 29.9 29.2 29.7 30.0 25.5
  18        1    2    3    4    5    6    7
          25.3 30.0 29.7 29.1 29.7 30.3 30.0
1

 RECEIVER    LEQ(H)   L10
 49           54.3   55.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.5 28.7 29.2 29.5 30.3 31.9
   2        1    2    3    4    5    6
          34.9 36.2 36.6 41.1 42.5 38.8
   3        1
          35.6
   4        1    2    3
          29.7 28.8 23.3
   5        1    2    3    4    5    6
          19.5 16.1 15.9 20.5 23.3 21.7
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  6        1    2    3
          19.5 19.0 22.8
  7        1    2    3    4
          22.8 18.8 19.3 20.2
  8        1    2    3    4    5    6
          23.4 20.6 16.0 16.4 19.7 22.4
  9        1    2    3
          29.2 30.2 35.6
 10        1
          37.5
 11        1    2    3    4    5    6
          41.5 40.9 36.5 35.9 34.8 34.0
 12        1    2    3    4    5
          30.2 29.5 29.2 28.7 26.6
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          30.5 34.9 29.4 35.9 36.6 37.1 36.9 36.8 37.3 37.3

          37.3 37.8 37.5 37.2
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          37.2 37.4 37.7 37.7 37.0 37.3 37.0 36.7 37.6 36.7

          35.1 31.0 35.3 30.5
 15        1    2    3    4    5    6    7    8    9   10

          28.9 31.6 26.8 27.0 27.2 27.1 26.9 26.5 26.1 30.5

 16        1    2    3    4    5    6    7    8    9   10

          30.4 26.0 26.5 26.7 26.9 27.0 27.0 26.6 31.6 28.8

 17        1    2    3    4    5    6    7
          30.0 30.3 29.7 29.0 29.5 29.8 25.4
 18        1    2    3    4    5    6    7
          25.2 29.8 29.5 28.9 29.6 30.2 29.8
1

 RECEIVER    LEQ(H)   L10
 50           54.1   55.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
          26.5 28.6 29.1 29.4 30.2 31.8
  2        1    2    3    4    5    6
          34.8 36.0 36.4 40.8 42.1 38.8
  3        1
          34.5
  4        1    2    3
          29.5 28.7 23.5
  5        1    2    3    4    5    6
          19.7 16.8 16.7 21.4 24.6 23.0
  6        1    2    3
          20.2 18.6 22.5
  7        1    2    3    4
          22.6 19.0 20.2 21.5
  8        1    2    3    4    5    6
          24.7 21.6 16.9 16.9 19.9 22.6
  9        1    2    3
          29.1 30.0 34.6
 10        1
          37.6
 11        1    2    3    4    5    6
          41.9 40.6 36.3 35.7 34.7 33.8
 12        1    2    3    4    5
          30.1 29.4 29.1 28.6 26.5
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          30.3 34.8 29.3 35.8 36.5 37.0 36.8 36.7 37.2 37.2

          37.2 37.8 37.4 37.2
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          37.2 37.4 37.7 37.6 36.9 37.2 36.9 36.6 37.4 36.6

          34.9 30.9 35.1 30.4
 15        1    2    3    4    5    6    7    8    9   10

          28.7 31.5 26.6 26.8 27.0 26.9 26.7 26.3 25.9 30.8

 16        1    2    3    4    5    6    7    8    9   10

          30.8 25.8 26.3 26.5 26.8 26.8 26.8 26.5 31.4 28.7

 17        1    2    3    4    5    6    7
          29.8 30.1 29.6 28.9 29.4 29.6 25.2
 18        1    2    3    4    5    6    7
          25.0 29.7 29.4 28.8 29.4 30.0 29.7
1

 RECEIVER    LEQ(H)   L10
 51           54.1   55.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
          26.4 28.5 29.0 29.3 30.1 31.6
  2        1    2    3    4    5    6
          34.6 35.8 36.1 40.5 41.7 39.5
  3        1
          34.0
  4        1    2    3
          29.8 29.0 24.0
  5        1    2    3    4    5    6
          20.7 18.0 18.0 23.0 26.0 26.9
  6        1    2    3
          19.8 19.3 23.2
  7        1    2    3    4
          23.2 19.1 21.7 24.9
  8        1    2    3    4    5    6
          26.0 23.1 18.1 18.1 20.9 23.1
  9        1    2    3
          29.4 30.3 35.4
 10        1
          38.2
 11        1    2    3    4    5    6
          41.5 40.3 36.0 35.5 34.5 33.7
 12        1    2    3    4    5
          29.9 29.3 28.9 28.5 26.4
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          30.2 34.6 29.2 35.6 36.4 36.9 36.7 36.6 37.1 37.1

          37.2 37.7 37.4 37.1
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          37.1 37.3 37.6 37.5 36.8 37.1 36.8 36.5 37.3 36.5

          34.8 30.8 35.0 30.3
 15        1    2    3    4    5    6    7    8    9   10

          28.6 31.3 26.4 26.6 26.8 26.7 26.5 26.1 25.7 30.7

 16        1    2    3    4    5    6    7    8    9   10

          30.6 25.6 26.1 26.3 26.6 26.6 26.6 26.3 31.2 28.6

 17        1    2    3    4    5    6    7
          29.7 29.9 29.4 28.7 29.2 29.5 25.1
 18        1    2    3    4    5    6    7
          24.9 29.5 29.2 28.6 29.3 29.9 29.5
1

 RECEIVER    LEQ(H)   L10
 52           53.8   55.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
          26.3 28.4 28.9 29.2 30.0 31.5
  2        1    2    3    4    5    6
          34.4 35.6 35.9 40.2 41.3 38.5
  3        1
          33.2
  4        1    2    3
          29.2 28.7 24.1
  5        1    2    3    4    5    6
          21.2 18.6 18.7 23.7 28.7 20.3
  6        1    2    3
          10.5  9.6 13.3
  7        1    2    3    4
          13.4  9.5 10.4 22.0
  8        1    2    3    4    5    6
          28.1 23.7 18.7 18.7 21.4 23.1
  9        1    2    3
          29.0 29.8 34.5
 10        1
          37.6
 11        1    2    3    4    5    6
          41.1 40.0 35.8 35.3 34.3 33.5
 12        1    2    3    4    5
          29.8 29.2 28.8 28.4 26.3
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          30.1 34.5 29.1 35.5 36.3 36.8 36.6 36.5 37.0 37.0

          37.1 37.6 37.3 37.1
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          37.1 37.3 37.6 37.4 36.8 37.0 36.7 36.4 37.2 36.4

          34.7 30.6 34.9 30.2
 15        1    2    3    4    5    6    7    8    9   10

          28.5 31.2 26.2 26.5 26.6 26.5 26.3 25.9 25.5 30.5

 16        1    2    3    4    5    6    7    8    9   10

          30.5 25.4 25.9 26.1 26.4 26.4 26.4 26.1 31.1 28.4

 17        1    2    3    4    5    6    7
          29.5 29.8 29.2 28.5 29.0 29.4 25.0
 18        1    2    3    4    5    6    7
          24.7 29.4 29.1 28.5 29.1 29.7 29.4
1

 RECEIVER    LEQ(H)   L10
 53           53.5   54.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
          26.2 28.3 28.8 29.1 29.9 31.4
  2        1    2    3    4    5    6
          34.3 35.4 35.7 39.9 40.4 37.1
  3        1
          32.5
  4        1    2    3
          28.7 28.3 24.4
  5        1    2    3    4    5    6
          21.7 19.2 19.4 24.3 17.2 13.6
  6        1    2    3
          10.3  9.6 13.5
  7        1    2    3    4
          13.5  9.4 10.3 12.1
  8        1    2    3    4    5    6
          19.1 24.4 19.4 19.2 21.7 23.3
  9        1    2    3
          28.7 29.3 32.5
 10        1
          36.3
 11        1    2    3    4    5    6
          40.2 39.7 35.6 35.2 34.2 33.4
 12        1    2    3    4    5
          29.7 29.1 28.7 28.3 26.2
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          30.0 34.4 29.0 35.4 36.2 36.6 36.5 36.4 36.9 36.9

          37.0 37.6 37.3 37.0
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          37.1 37.2 37.5 37.4 36.7 36.9 36.6 36.3 37.1 36.3

          34.6 30.5 34.8 30.1
 15        1    2    3    4    5    6    7    8    9   10

          28.3 31.0 26.1 26.3 26.4 26.3 26.1 25.8 25.3 30.3

 16        1    2    3    4    5    6    7    8    9   10

          30.3 25.2 25.7 25.9 26.2 26.3 26.2 25.9 30.9 28.3

 17        1    2    3    4    5    6    7
          29.4 29.6 29.1 28.4 28.9 29.2 24.8
 18        1    2    3    4    5    6    7
          24.6 29.2 28.9 28.3 29.0 29.6 29.2
```

```
1

 RECEIVER    LEQ(H)   L10
 54           53.2   54.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            26.1 28.2 28.7 29.0 29.7 31.2
    2        1    2    3    4    5    6
            34.1 35.2 35.5 39.6 39.4 36.3
    3        1
            31.6
    4        1    2    3
            28.0 27.9 24.6
    5        1    2    3    4    5    6
            20.8 11.8 11.1 15.1 16.8 13.3
    6        1    2    3
            10.3  9.7 13.7
    7        1    2    3    4
            13.7  9.6 10.3 11.9
    8        1    2    3    4    5    6
            16.9 15.3 11.3 12.2 22.0 23.6
    9        1    2    3
            28.3 28.6 31.7
   10        1
            35.5
   11        1    2    3    4    5    6
            38.3 39.5 35.4 35.0 34.0 33.2
   12        1    2    3    4    5
            29.6 28.9 28.6 28.2 26.1
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            29.9 34.3 28.8 35.3 36.0 36.5 36.4 36.3 36.8 36.9

            37.0 37.5 37.2 37.0
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            37.0 37.2 37.4 37.3 36.6 36.8 36.5 36.2 37.0 36.1

            34.5 30.4 34.7 30.0
   15        1    2    3    4    5    6    7    8    9   10

            28.2 30.8 25.9 26.1 26.2 26.1 26.0 25.6 25.2 30.1

   16        1    2    3    4    5    6    7    8    9   10

            30.1 25.0 25.5 25.7 26.0 26.1 26.0 25.7 30.8 28.2

   17        1    2    3    4    5    6    7
            29.2 29.5 28.9 28.2 28.7 29.1 24.7
   18        1    2    3    4    5    6    7
            24.4 29.1 28.8 28.2 28.8 29.4 29.1
1

 RECEIVER    LEQ(H)   L10
 55           52.9   54.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            26.0 28.1 28.6 28.9 29.6 31.1
    2        1    2    3    4    5    6
            34.0 35.0 35.3 39.4 36.3 35.7
    3        1
            30.6
    4        1    2    3
            27.1 27.4 18.6
    5        1    2    3    4    5    6
            14.1 10.6 10.3 14.5 16.1 13.1
    6        1    2    3
            10.2  9.7 13.8
    7        1    2    3    4
            13.7  9.5 10.2 11.7
    8        1    2    3    4    5    6
            16.2 14.7 10.4 10.8 14.3 19.1
    9        1    2    3
            27.7 27.6 30.8
   10        1
            34.6
   11        1    2    3    4    5    6
            36.2 38.9 35.1 34.8 33.8 33.1
   12        1    2    3    4    5
            29.4 28.8 28.5 28.1 26.0
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            29.8 34.2 28.7 35.2 35.9 36.4 36.3 36.2 36.8 36.8

            36.9 37.5 37.2 37.0
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            37.0 37.1 37.4 37.2 36.5 36.7 36.4 36.1 36.9 36.0

            34.4 30.3 34.6 29.8
   15        1    2    3    4    5    6    7    8    9   10

            28.1 30.7 25.7 25.9 26.0 25.9 25.8 25.4 24.0 29.2

   16        1    2    3    4    5    6    7    8    9   10

            29.1 24.0 25.3 25.6 25.8 25.9 25.9 25.6 30.6 28.0

   17        1    2    3    4    5    6    7
            29.1 29.3 28.8 28.1 28.6 28.9 24.5
   18        1    2    3    4    5    6    7
            24.3 28.9 28.6 28.0 28.6 29.3 28.9
1

 RECEIVER    LEQ(H)   L10
 56           42.4   43.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            13.9 16.0 16.4 16.6 17.3 18.7
    2        1    2    3    4    5    6
            21.5 22.5 22.8 27.1 28.5 29.6
    3        1
            28.2
    4        1    2    3
            25.9 22.4 17.3
    5        1    2    3    4    5    6
            13.6 10.1  9.9 14.2 16.2 14.0
    6        1    2    3
            11.6 11.3 15.5
    7        1    2    3    4
            15.4 11.1 11.5 12.4
    8        1    2    3    4    5    6
            16.2 14.3 10.0 10.3 13.7 16.2
    9        1    2    3
            22.6 26.6 28.2
   10        1
            29.3
   11        1    2    3    4    5    6
            28.4 27.0 22.7 22.3 21.4 20.7
   12        1    2    3    4    5
            17.2 16.6 16.4 16.0 14.0
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            18.6 22.9 17.4 23.7 24.4 24.7 24.5 24.3 24.8 24.7

            24.7 25.2 24.9 24.6
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            24.6 24.8 25.1 25.1 24.4 24.7 24.5 24.3 25.2 24.5

            22.9 19.0 23.3 18.7
   15        1    2    3    4    5    6    7    8    9   10

            16.6 19.4 14.7 15.1 15.3 15.3 15.4 15.2 15.1 20.5

   16        1    2    3    4    5    6    7    8    9   10

            20.5 14.9 15.2 15.2 15.2 15.1 15.0 14.6 19.4 16.5

   17        1    2    3    4    5    6    7
            16.7 17.1 16.7 16.1 16.8 17.2 13.0
   18        1    2    3    4    5    6    7
            12.8 17.2 16.8 16.0 16.5 17.0 16.6
1

 RECEIVER    LEQ(H)   L10
 57           43.9   45.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            15.1 17.2 17.6 17.9 18.6 20.0
    2        1    2    3    4    5    6
            22.9 24.0 24.4 29.1 30.7 32.5
    3        1
            29.4
    4        1    2    3
            26.5 23.4 18.1
    5        1    2    3    4    5    6
            14.3 11.0 10.6 14.9 17.3 16.1
    6        1    2    3
            14.1 13.8 18.2
    7        1    2    3    4
            18.1 13.7 13.9 14.5
    8        1    2    3    4    5    6
            17.4 15.1 10.9 11.2 14.5 17.1
    9        1    2    3
            23.8 27.2 29.1
   10        1
            31.4
   11        1    2    3    4    5    6
            30.6 29.0 24.3 23.7 22.8 22.1
   12        1    2    3    4    5
            18.4 17.8 17.6 17.1 15.1
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            20.1 24.4 18.9 25.2 25.7 26.0 25.7 25.5 25.9 25.8

            25.7 26.2 25.9 25.6
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            25.6 25.8 26.1 26.1 25.5 25.8 25.6 25.5 26.5 25.8

            24.3 20.4 24.8 20.2
   15        1    2    3    4    5    6    7    8    9   10

            18.1 21.3 16.5 16.9 17.0 17.2 17.4 17.3 17.3 22.8

   16        1    2    3    4    5    6    7    8    9   10

            22.8 17.1 17.3 17.2 17.1 16.9 16.9 16.3 21.2 18.1

   17        1    2    3    4    5    6    7
            18.1 18.4 18.0 17.5 18.2 18.7 14.5
   18        1    2    3    4    5    6    7
            14.2 18.7 18.2 17.4 17.9 18.4 17.9
1

 RECEIVER    LEQ(H)   L10
 58           47.4   48.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            19.4 21.5 22.0 22.3 23.0 24.5
    2        1    2    3    4    5    6
            27.5 28.7 29.1 33.1 33.8 34.3
    3        1
            29.4
    4        1    2    3
            26.3 23.6 18.4
    5        1    2    3    4    5    6
            14.7 11.3 11.0 15.5 18.8 18.0
    6        1    2    3
            16.0 15.8 20.4
    7        1    2    3    4
            20.2 15.6 15.9 16.5
    8        1    2    3    4    5    6
            18.7 15.7 11.2 11.6 14.9 17.5
    9        1    2    3
            23.9 27.1 29.9
   10        1
            33.4
   11        1    2    3    4    5    6
            33.6 32.9 29.0 28.6 27.5 26.6
   12        1    2    3    4    5
            23.0 22.4 22.1 21.6 19.5
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            24.7 29.0 23.6 30.0 30.6 30.9 30.7 30.4 30.6 30.0
```

```
          29.4 29.3 28.4 27.5
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          27.6 28.3 29.2 29.8 29.7 30.5 30.6 30.5 31.4 30.7

          29.1 25.1 29.4 24.8
   15       1    2    3    4    5    6    7    8    9   10

          22.8 25.3 20.4 20.6 20.7 20.7 20.7 20.6 20.5 26.1

   16       1    2    3    4    5    6    7    8    9   10

          26.0 20.3 20.5 20.6 20.6 20.6 20.6 20.3 25.2 22.7

   17       1    2    3    4    5    6    7
          22.7 23.3 23.0 22.4 23.0 23.4 19.1
   18       1    2    3    4    5    6    7
          18.9 23.5 23.0 22.3 22.8 23.2 22.5
1

 RECEIVER    LEQ(H)   L10
 59           48.3   49.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
          20.0 22.1 22.5 22.7 23.4 24.7
    2       1    2    3    4    5    6
          27.6 28.6 28.9 33.2 36.3 34.8
    3       1
          29.5
    4       1    2    3
          26.5 24.1 18.9
    5       1    2    3    4    5    6
          15.2 11.9 11.7 16.2 20.4 19.8
    6       1    2    3
          17.9 17.8 22.1
    7       1    2    3    4
          22.0 17.5 17.7 18.3
    8       1    2    3    4    5    6
          20.4 16.4 11.9 12.1 15.4 18.0
    9       1    2    3
          24.5 27.2 30.1
   10       1
          34.5
   11       1    2    3    4    5    6
          36.6 33.2 28.8 28.5 27.5 26.9
   12       1    2    3    4    5
          23.3 22.8 22.5 22.1 20.1
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          26.9 30.5 24.7 30.5 30.8 30.9 30.7 30.6 30.9 30.6

          30.2 29.8 28.7 27.7
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          27.8 28.7 29.7 30.6 30.4 30.9 30.8 30.5 31.4 30.9

          29.7 26.2 30.9 27.1
   15       1    2    3    4    5    6    7    8    9   10

          23.5 29.7 24.8 24.9 25.0 24.9 24.8 24.4 24.0 29.1

   16       1    2    3    4    5    6    7    8    9   10

          29.2 23.9 24.3 24.5 24.8 24.9 24.8 24.6 29.7 23.5

   17       1    2    3    4    5    6    7
          22.9 23.3 22.9 22.3 22.9 23.5 19.6
   18       1    2    3    4    5    6    7
          19.3 23.5 22.9 22.2 22.8 23.3 22.7
1

 RECEIVER    LEQ(H)   L10
 60           47.1   48.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
          17.3 19.6 20.2 20.5 21.3 22.9
    2       1    2    3    4    5    6
          26.1 27.4 28.0 32.5 34.8 34.2
    3       1
          29.3
    4       1    2    3
          26.0 23.9 18.8
    5       1    2    3    4    5    6
          15.0 11.9 11.7 16.5 21.4 20.7
    6       1    2    3
          18.8 18.5 22.5
    7       1    2    3    4
          22.4 18.3 18.5 19.1
    8       1    2    3    4    5    6
          21.4 16.6 12.0 12.1 15.2 17.9
    9       1    2    3
          24.2 26.8 29.8
   10       1
          34.0
   11       1    2    3    4    5    6
          34.6 32.4 28.0 27.3 26.2 25.1
   12       1    2    3    4    5
          21.4 20.7 20.3 19.7 17.5
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          24.8 28.8 23.3 29.5 30.2 30.5 29.8 29.0 28.6 27.9

          27.3 27.7 27.3 26.9
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          26.9 27.2 27.5 27.6 27.4 28.6 29.1 29.6 30.9 30.3

          28.7 24.8 29.2 24.9
   15       1    2    3    4    5    6    7    8    9   10

          22.4 26.1 21.7 24.4 24.7 24.7 24.6 24.2 23.8 29.0

   16       1    2    3    4    5    6    7    8    9   10

          29.0 23.7 24.2 24.4 24.6 24.7 24.4 21.7 26.1 22.4

   17       1    2    3    4    5    6    7
          21.2 22.1 22.2 21.8 22.6 23.0 18.7
   18       1    2    3    4    5    6    7
          18.5 23.0 22.6 21.7 22.0 22.0 21.0
1

 RECEIVER    LEQ(H)   L10
 61           46.2   47.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
          17.8 19.6 19.7 19.5 19.6 20.2
    2       1    2    3    4    5    6
          22.4 24.2 25.3 31.2 33.0 33.5
    3       1
          28.9
    4       1    2    3
          25.4 23.4 18.4
    5       1    2    3    4    5    6
          14.8 11.8 11.5 16.9 21.8 21.2
    6       1    2    3
          19.0 18.5 22.4
    7       1    2    3    4
          22.4 18.4 19.0 19.7
    8       1    2    3    4    5    6
          21.8 16.9 11.8 12.0 14.9 17.5
    9       1    2    3
          23.8 26.2 29.4
   10       1
          33.3
   11       1    2    3    4    5    6
          32.9 31.3 25.5 24.2 22.5 22.3
   12       1    2    3    4    5
          19.5 19.5 19.6 19.5 17.8
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          23.9 28.0 22.4 28.3 28.3 28.3 28.3 28.3 28.9 28.9

          29.0 29.4 29.1 28.7
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          28.6 29.0 29.3 29.3 28.6 28.8 28.4 28.0 28.8 28.5

          27.6 24.0 28.4 24.0
   15       1    2    3    4    5    6    7    8    9   10

          21.6 24.6 19.9 20.7 21.1 22.1 21.7 21.5 21.4 27.3

   16       1    2    3    4    5    6    7    8    9   10

          27.1 21.3 21.5 21.5 22.2 21.0 20.7 19.8 24.5 21.6

   17       1    2    3    4    5    6    7
          18.5 18.8 19.1 19.2 20.4 21.4 17.7
   18       1    2    3    4    5    6    7
          17.4 21.3 20.3 19.0 18.9 18.8 18.4
1

 RECEIVER    LEQ(H)   L10
 62           46.2   47.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
          18.9 20.7 20.9 20.7 20.9 21.7
    2       1    2    3    4    5    6
          23.8 24.0 23.3 27.2 31.4 33.3
    3       1
          28.7
    4       1    2    3
          25.1 23.1 18.1
    5       1    2    3    4    5    6
          14.5 11.5 11.2 16.8 21.7 21.0
    6       1    2    3
          18.8 18.2 22.2
    7       1    2    3    4
          22.2 18.1 18.7 19.5
    8       1    2    3    4    5    6
          21.7 16.8 11.5 11.7 14.6 17.2
    9       1    2    3
          23.5 25.9 29.1
   10       1
          33.3
   11       1    2    3    4    5    6
          31.5 27.3 23.1 23.8 23.7 23.7
   12       1    2    3    4    5
          20.8 20.7 20.8 20.7 18.9
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          22.8 27.2 21.7 28.1 28.8 29.4 29.3 29.3 29.9 29.9

          30.0 30.5 30.3 30.1
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          30.0 30.1 30.4 30.3 29.6 29.8 29.4 29.0 29.8 28.9

          27.3 23.2 27.5 22.9
   15       1    2    3    4    5    6    7    8    9   10

          20.3 22.1 18.3 19.3 19.3 19.5 19.7 20.8 22.9 28.8

   16       1    2    3    4    5    6    7    8    9   10

          28.8 23.5 20.7 19.5 19.4 19.2 19.2 18.2 22.1 20.3

   17       1    2    3    4    5    6    7
          19.9 20.1 19.7 19.2 20.0 20.6 16.5
   18       1    2    3    4    5    6    7
          16.3 20.7 20.1 19.2 19.6 20.1 19.8
1

 RECEIVER    LEQ(H)   L10
 63           46.5   47.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
          19.6 21.2 21.3 21.0 20.8 21.2
    2       1    2    3    4    5    6
          22.8 23.4 24.9 30.6 31.7 31.3
    3       1
          26.2
    4       1    2    3
          22.1 22.4 18.9
    5       1    2    3    4    5    6
          18.6 16.7 17.2 22.9 25.8 28.1
```

```
  6        1    2    3
         21.2 19.7 23.7
  7        1    2    3    4
         23.8 19.8 22.3 26.3
  8        1    2    3    4    5    6
         25.8 23.0 17.3 16.6 18.5 17.7
  9        1    2    3
         22.6 22.5 26.4
 10        1
         31.8
 11        1    2    3    4    5    6
         31.7 30.6 25.2 23.5 22.7 23.4
 12        1    2    3    4    5
         20.7 20.9 21.2 21.2 19.6
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         24.9 28.4 22.6 28.8 29.3 29.8 29.7 29.8 30.3 30.5

         30.7 27.6 26.9 26.3
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         26.3 26.9 27.8 31.1 30.2 30.3 29.9 29.5 30.3 29.4

         27.9 24.1 28.8 25.1
 15        1    2    3    4    5    6    7    8    9   10

         21.5 25.8 22.5 24.0 24.0 24.0 23.8 23.4 23.0 28.3

 16        1    2    3    4    5    6    7    8    9   10

         28.3 22.9 23.4 23.6 23.8 23.9 23.9 22.4 25.9 21.5

 17        1    2    3    4    5    6    7
         19.3 19.5 19.2 19.5 21.0 22.0 17.9
 18        1    2    3    4    5    6    7
         17.7 22.0 20.9 19.4 19.1 19.6 19.3
1

 RECEIVER    LEQ(H)   L10
 64           45.8   47.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
         17.1 19.1 19.5 19.7 20.3 21.5
   2        1    2    3    4    5    6
         24.3 25.2 24.0 29.7 31.7 31.5
   3        1
         26.7
   4        1    2    3
         22.4 22.5 19.4
   5        1    2    3    4    5    6
         19.3 17.5 17.9 23.4 26.8 27.9
   6        1    2    3
         21.1 19.7 23.8
   7        1    2    3    4
         24.1 19.7 21.5 26.7
   8        1    2    3    4    5    6
         26.4 23.4 18.0 17.3 19.2 18.1
   9        1    2    3
         22.8 22.9 26.8
  10        1
         31.7
  11        1    2    3    4    5    6
         31.7 29.8 24.1 25.1 24.3 23.7
  12        1    2    3    4    5
         20.2 19.7 19.5 19.2 17.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
         23.2 27.5 22.0 28.2 28.6 28.8 28.4 27.9 28.0 27.7

         27.5 27.7 27.1 26.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
         26.6 27.0 27.6 27.8 27.5 28.0 28.0 28.1 29.2 28.8

         27.4 23.5 27.9 23.3
  15        1    2    3    4    5    6    7    8    9   10

         20.9 23.6 19.1 23.8 23.9 23.8 23.7 23.4 23.0 28.1

  16        1    2    3    4    5    6    7    8    9   10

         28.1 22.9 23.3 23.5 23.7 23.8 23.8 19.1 23.6 20.9

  17        1    2    3    4    5    6    7
         19.7 20.3 20.1 19.8 20.7 21.3 17.3
  18        1    2    3    4    5    6    7
         17.0 21.3 20.6 19.7 20.0 20.2 19.6
1

 RECEIVER    LEQ(H)   L10
 65           45.6   47.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
         14.8 17.2 17.9 18.4 19.3 21.2
   2        1    2    3    4    5    6
         24.6 26.3 26.8 30.9 32.2 32.3
   3        1
         28.0
   4        1    2    3
         23.9 23.8 20.7
   5        1    2    3    4    5    6
         21.0 18.9 19.2 23.9 27.9 27.9
   6        1    2    3
         22.4 20.6 25.9
   7        1    2    3    4
         26.9 20.9 23.7 26.6
   8        1    2    3    4    5    6
         27.8 23.9 19.2 18.8 20.8 19.4
   9        1    2    3
         24.2 24.5 28.2
  10        1
         32.2
  11        1    2    3    4    5    6
         32.1 30.8 26.8 26.2 24.7 23.4
  12        1    2    3    4    5
         19.3 18.6 18.0 17.3 14.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
         23.3 27.5 22.0 28.2 28.4 28.2 27.2 26.3 26.0 25.1

         24.4 24.1 22.8 22.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
         22.2 22.9 24.0 24.7 24.9 26.0 26.4 27.2 28.7 28.6

         27.4 23.6 27.9 23.4
  15        1    2    3    4    5    6    7    8    9   10

         21.2 23.8 18.9 19.5 19.6 20.2 20.9 21.4 22.5 28.1

  16        1    2    3    4    5    6    7    8    9   10

         28.1 22.3 21.5 20.7 20.1 19.5 19.4 18.8 23.7 21.2

  17        1    2    3    4    5    6    7
         19.4 20.3 20.3 20.1 20.9 21.6 17.5
  18        1    2    3    4    5    6    7
         17.3 21.6 20.9 19.9 20.1 20.1 19.2
1

 RECEIVER    LEQ(H)   L10
 66           45.6   47.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
         16.4 18.5 19.0 19.2 19.8 21.1
   2        1    2    3    4    5    6
         24.0 25.1 25.4 29.6 30.8 32.2
   3        1
         29.6
   4        1    2    3
         25.8 25.1 21.6
   5        1    2    3    4    5    6
         21.7 19.4 19.2 24.4 28.5 28.0
   6        1    2    3
         24.6 22.7 27.4
   7        1    2    3    4
         27.6 23.0 24.7 26.5
   8        1    2    3    4    5    6
         28.7 24.5 19.2 19.3 21.5 20.4
   9        1    2    3
         25.6 26.5 29.4
  10        1
         31.1
  11        1    2    3    4    5    6
         30.8 29.6 25.4 25.0 24.0 23.3
  12        1    2    3    4    5
         19.7 19.2 19.0 18.6 16.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
         22.8 27.0 21.5 27.7 28.1 28.3 27.7 27.3 27.4 27.1

         26.7 26.8 26.2 25.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
         25.6 26.1 26.7 27.0 26.8 27.4 27.4 27.5 28.7 28.2

         26.9 23.0 27.4 22.9
  15        1    2    3    4    5    6    7    8    9   10

         20.5 23.4 18.2 18.6 18.7 18.6 18.5 18.2 17.9 23.3

  16        1    2    3    4    5    6    7    8    9   10

         23.2 17.8 18.1 18.3 18.5 18.5 18.5 18.2 23.3 20.5

  17        1    2    3    4    5    6    7
         19.3 19.8 19.7 19.3 20.2 20.8 16.7
  18        1    2    3    4    5    6    7
         16.5 20.8 20.2 19.2 19.5 19.8 19.1
1

 RECEIVER    LEQ(H)   L10
 67           47.3   48.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
         19.6 21.6 22.0 22.1 22.7 24.0
   2        1    2    3    4    5    6
         26.7 27.5 27.5 31.2 31.6 32.3
   3        1
         29.7
   4        1    2    3
         27.3 26.3 21.9
   5        1    2    3    4    5    6
         21.7 19.3 19.2 25.4 29.3 27.8
   6        1    2    3
         24.7 23.9 27.5
   7        1    2    3    4
         27.4 23.6 24.6 26.3
   8        1    2    3    4    5    6
         29.6 25.5 19.2 19.2 21.4 21.1
   9        1    2    3
         26.8 27.8 30.1
  10        1
         32.5
  11        1    2    3    4    5    6
         31.5 31.0 27.4 27.3 26.6 26.1
  12        1    2    3    4    5
         22.6 22.1 21.9 21.6 19.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
         23.9 28.1 22.7 29.0 29.6 30.0 29.9 29.9 30.4 30.3

         30.1 30.3 29.7 29.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
         29.1 29.6 30.3 30.5 30.0 30.4 30.0 29.7 30.5 29.7

         28.1 24.2 28.5 24.0
  15        1    2    3    4    5    6    7    8    9   10

         21.7 24.4 19.4 19.8 19.8 20.0 20.2 20.2 20.4 26.6

  16        1    2    3    4    5    6    7    8    9   10

         26.5 20.2 20.2 20.0 19.9 19.7 19.7 19.3 24.4 21.7

  17        1    2    3    4    5    6    7
         22.0 22.3 21.8 21.2 21.8 22.2 18.0
  18        1    2    3    4    5    6    7
         17.8 22.2 21.8 21.1 21.7 22.3 21.9
```

```
1

 RECEIVER    LEQ(H)   L10
 68           47.7   49.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          19.9 21.9 22.3 22.4 23.0 24.2
   2        1    2    3    4    5    6
          26.9 27.6 27.6 31.5 32.2 32.4
   3        1
          29.7
   4        1    2    3
          28.6 27.0 22.4
   5        1    2    3    4    5    6
          21.4 19.1 19.3 25.8 30.1 27.6
   6        1    2    3
          24.5 23.8 27.4
   7        1    2    3    4
          27.3 23.5 24.3 26.1
   8        1    2    3    4    5    6
          30.3 25.7 19.2 19.1 21.1 21.6
   9        1    2    3
          27.6 28.6 30.7
  10        1
          33.1
  11        1    2    3    4    5    6
          32.2 31.4 27.5 27.4 26.7 26.3
  12        1    2    3    4    5
          22.8 22.3 22.2 21.9 19.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          24.9 29.0 23.5 29.6 30.1 30.3 30.1 30.0 30.6 30.6

          30.6 30.8 30.1 29.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.5 30.1 30.7 30.9 30.4 30.6 30.2 29.9 30.8 30.2

          28.8 25.0 29.4 25.0
  15        1    2    3    4    5    6    7    8    9   10

          22.4 25.6 20.7 21.3 21.3 21.8 22.3 23.1 22.7 27.9

  16        1    2    3    4    5    6    7    8    9   10

          27.9 22.6 22.8 22.1 21.7 21.2 21.2 20.6 25.5 22.4

  17        1    2    3    4    5    6    7
          22.2 22.4 21.9 21.4 22.1 22.7 18.6
  18        1    2    3    4    5    6    7
          18.4 22.7 22.1 21.3 21.8 22.4 22.1
1

 RECEIVER    LEQ(H)   L10
 69           48.2   49.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          20.1 22.1 22.3 22.5 23.1 24.3
   2        1    2    3    4    5    6
          27.0 27.8 27.9 32.1 33.3 32.8
   3        1
          29.7
   4        1    2    3
          29.1 27.7 22.9
   5        1    2    3    4    5    6
          21.1 19.0 19.2 25.2 29.8 27.4
   6        1    2    3
          24.4 23.6 27.3
   7        1    2    3    4
          27.1 23.2 24.2 25.8
   8        1    2    3    4    5    6
          29.6 26.5 19.2 18.9 20.9 22.1
   9        1    2    3
          28.3 29.1 30.9
  10        1
          33.4
  11        1    2    3    4    5    6
          33.3 32.0 27.9 27.6 26.9 26.4
  12        1    2    3    4    5
          22.9 22.5 22.3 22.0 20.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          26.3 30.2 24.6 30.5 30.8 30.9 30.4 30.2 30.7 30.9

          31.0 31.4 30.9 30.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.4 30.9 31.3 31.3 30.6 30.7 30.4 30.2 31.3 30.9

          29.7 26.1 30.5 26.5
  15        1    2    3    4    5    6    7    8    9   10

          23.4 27.1 22.5 23.7 23.8 23.6 23.5 23.1 22.7 28.0

  16        1    2    3    4    5    6    7    8    9   10

          28.0 22.6 23.0 23.3 23.5 23.6 23.6 22.4 27.1 23.4

  17        1    2    3    4    5    6    7
          22.3 22.6 22.3 21.8 22.7 23.4 19.5
  18        1    2    3    4    5    6    7
          19.2 23.4 22.7 21.8 22.2 22.6 22.2
1

 RECEIVER    LEQ(H)   L10
 70           48.1   49.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          20.2 22.2 22.5 22.6 23.2 24.4
   2        1    2    3    4    5    6
          27.1 27.8 27.8 31.7 32.3 32.6
   3        1
          29.6
   4        1    2    3
          29.7 28.1 23.1
   5        1    2    3    4    5    6
          20.7 18.7 18.9 24.5 28.5 27.4
   6        1    2    3
          24.1 22.2 26.5
   7        1    2    3    4
          25.9 22.3 24.0 25.8
   8        1    2    3    4    5    6
          28.3 24.8 18.9 18.7 20.6 22.3
   9        1    2    3
          28.6 29.3 30.9
  10        1
          33.1
  11        1    2    3    4    5    6
          32.3 31.6 27.8 27.7 27.0 26.5
  12        1    2    3    4    5
          23.1 22.6 22.5 22.1 20.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          25.9 29.9 24.3 30.4 30.8 31.0 30.6 30.4 30.9 31.0

          31.2 31.8 31.4 31.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.1 31.4 31.7 31.5 30.7 30.9 30.6 30.4 31.4 30.9

          29.6 25.8 30.2 26.0
  15        1    2    3    4    5    6    7    8    9   10

          23.1 26.2 21.3 21.9 21.9 22.3 22.9 23.0 22.7 28.0

  16        1    2    3    4    5    6    7    8    9   10

          28.0 22.6 23.0 22.8 22.2 21.8 21.8 21.2 26.2 23.1

  17        1    2    3    4    5    6    7
          22.4 22.7 22.3 21.9 22.6 23.3 19.3
  18        1    2    3    4    5    6    7
          19.0 23.3 22.6 21.8 22.2 22.7 22.3
1

 RECEIVER    LEQ(H)   L10
 71           53.5   54.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.5 27.6 28.0 28.2 29.0 30.5
   2        1    2    3    4    5    6
          33.4 34.5 34.9 39.4 40.2 37.5
   3        1
          36.4
   4        1    2    3
          36.8 35.6 30.3
   5        1    2    3    4    5    6
          26.4 23.0 22.6 26.7 28.1 23.8
   6        1    2    3
          20.1 19.1 22.5
   7        1    2    3    4
          22.6 18.9 20.1 22.3
   8        1    2    3    4    5    6
          28.1 26.8 22.6 22.9 26.3 29.1
   9        1    2    3
          35.6 35.8 36.8
  10        1
          37.2
  11        1    2    3    4    5    6
          39.9 39.2 34.8 34.3 33.3 32.5
  12        1    2    3    4    5
          28.9 28.2 27.9 27.5 25.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.8 34.1 28.7 35.1 35.8 36.2 35.9 35.8 36.2 36.2

          36.2 36.7 36.3 36.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.0 36.3 36.6 36.5 35.9 36.2 36.0 35.8 36.6 35.9

          34.3 30.2 34.5 29.9
  15        1    2    3    4    5    6    7    8    9   10

          28.0 30.8 25.9 26.2 26.4 26.4 26.3 26.0 25.6 30.7

  16        1    2    3    4    5    6    7    8    9   10

          30.7 25.5 25.9 26.1 26.3 26.3 26.1 25.8 30.7 28.0

  17        1    2    3    4    5    6    7
          28.6 28.9 28.5 27.9 28.4 28.8 24.5
  18        1    2    3    4    5    6    7
          24.2 28.8 28.4 27.8 28.3 28.8 28.4
1

 RECEIVER    LEQ(H)   L10
 72           53.2   54.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.3 27.4 27.8 28.1 28.8 29.8
   2        1    2    3    4    5    6
          32.5 33.8 34.4 39.2 38.4 37.8
   3        1
          36.6
   4        1    2    3
          37.4 36.6 31.2
   5        1    2    3    4    5    6
          27.3 23.8 23.4 27.4 29.2 25.6
   6        1    2    3
          22.1 21.1 24.6
   7        1    2    3    4
          24.5 20.9 22.0 24.1
   8        1    2    3    4    5    6
          29.1 27.5 23.4 23.8 27.3 30.0
   9        1    2    3
          36.8 37.0 38.2
  10        1
          38.9
  11        1    2    3    4    5    6
          38.3 39.0 34.6 34.1 32.7 32.0
  12        1    2    3    4    5
          28.7 28.0 27.7 27.3 25.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.7 34.1 28.6 35.0 35.7 36.1 35.8 35.7 36.1 36.0
```

```
          34.9 34.4 33.3 32.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.5 33.4 34.4 35.5 35.8 36.1 35.8 35.6 36.5 35.8

          34.2 30.2 34.5 29.8
  15        1    2    3    4    5    6    7    8    9   10

          27.9 30.6 25.8 26.1 26.3 26.3 26.2 25.9 25.6 30.8

  16        1    2    3    4    5    6    7    8    9   10

          30.8 25.5 25.9 26.0 26.2 26.2 26.1 25.7 30.6 27.8

  17        1    2    3    4    5    6    7
          28.4 28.7 28.3 27.7 28.3 28.7 24.4
  18        1    2    3    4    5    6    7
          24.1 28.7 28.3 27.6 28.2 28.7 28.2
1

 RECEIVER    LEQ(H)   L10
 73           53.4   54.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.0 27.1 27.5 27.7 28.4 29.9
   2        1    2    3    4    5    6
          32.8 33.9 34.3 38.3 36.8 37.6
   3        1
          36.6
   4        1    2    3
          37.9 40.9 36.0
   5        1    2    3    4    5    6
          32.1 28.7 28.4 32.6 32.8 27.5
   6        1    2    3
          23.7 22.3 25.6
   7        1    2    3    4
          25.6 22.1 23.6 26.1
   8        1    2    3    4    5    6
          33.1 32.6 28.3 28.6 32.0 34.7
   9        1    2    3
          40.9 37.6 38.3
  10        1
          38.8
  11        1    2    3    4    5    6
          37.4 38.2 34.2 33.7 32.7 32.0
  12        1    2    3    4    5
          28.3 27.7 27.4 27.0 25.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.5 33.9 28.4 34.8 35.4 35.8 35.6 35.4 35.8 35.0

          33.4 32.6 31.3 30.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.6 31.4 32.8 33.8 34.8 35.8 35.6 35.4 36.3 35.6

          33.9 30.0 34.3 29.6
  15        1    2    3    4    5    6    7    8    9   10

          27.6 30.4 25.6 25.9 26.1 26.2 26.1 25.8 25.5 30.7

  16        1    2    3    4    5    6    7    8    9   10

          30.7 25.4 25.8 25.9 26.0 26.0 25.9 25.5 30.4 27.6

  17        1    2    3    4    5    6    7
          28.0 28.4 28.0 27.4 28.0 28.4 24.1
  18        1    2    3    4    5    6    7
          23.9 28.4 28.0 27.3 27.9 28.3 27.9
1

 RECEIVER    LEQ(H)   L10
 74           53.3   54.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.4 26.7 27.1 27.4 27.8 29.0
   2        1    2    3    4    5    6
          32.4 33.4 33.8 36.0 36.0 37.2
   3        1
          36.6
   4        1    2    3
          38.6 41.8 36.4
   5        1    2    3    4    5    6
          32.5 29.1 28.1 31.8 32.0 27.3
   6        1    2    3
          23.3 22.1 25.5
   7        1    2    3    4
          25.5 22.0 23.3 25.8
   8        1    2    3    4    5    6
          32.3 32.0 28.8 29.1 32.5 35.2
   9        1    2    3
          41.5 40.3 38.5
  10        1
          38.4
  11        1    2    3    4    5    6
          36.4 36.1 33.8 33.3 32.3 31.6
  12        1    2    3    4    5
          27.9 27.3 27.1 26.7 24.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.3 33.7 28.1 34.6 35.2 35.6 35.3 35.1 35.5 34.4

          33.1 32.5 31.0 30.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.3 31.0 32.5 33.4 34.3 35.5 35.3 35.1 36.0 35.3

          33.7 29.7 34.1 29.4
  15        1    2    3    4    5    6    7    8    9   10

          27.4 30.1 25.4 25.7 25.9 25.9 26.0 25.7 25.4 30.6

  16        1    2    3    4    5    6    7    8    9   10

          30.5 25.2 25.6 25.7 25.8 25.8 25.6 25.2 30.1 27.4

  17        1    2    3    4    5    6    7
          27.6 28.0 27.6 27.0 27.7 28.1 23.9
  18        1    2    3    4    5    6    7
          23.6 28.1 27.7 27.0 27.5 27.9 27.5
1

 RECEIVER    LEQ(H)   L10
 75           52.1   53.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          19.5 21.6 21.9 22.1 22.7 24.1
   2        1    2    3    4    5    6
          26.9 28.0 28.3 32.7 34.7 36.4
   3        1
          36.2
   4        1    2    3
          38.9 42.0 36.8
   5        1    2    3    4    5    6
          33.0 29.6 29.2 33.3 35.1 31.8
   6        1    2    3
          28.3 27.2 30.5
   7        1    2    3    4
          30.5 27.0 28.2 30.2
   8        1    2    3    4    5    6
          35.0 33.4 29.1 29.5 32.9 35.5
   9        1    2    3
          41.8 40.4 38.2
  10        1
          37.3
  11        1    2    3    4    5    6
          34.9 32.6 28.3 27.8 26.8 26.2
  12        1    2    3    4    5
          22.6 22.1 21.9 21.6 19.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.8 31.1 25.3 31.2 31.5 31.6 30.9 30.5 30.6 30.3

          30.1 30.4 29.9 29.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.2 29.9 30.4 30.4 30.0 30.6 30.6 30.8 32.0 31.7

          30.4 26.8 31.5 28.0
  15        1    2    3    4    5    6    7    8    9   10

          23.7 28.5 24.6 25.4 25.6 25.6 25.7 25.4 25.1 30.4

  16        1    2    3    4    5    6    7    8    9   10

          30.3 25.0 25.4 25.5 25.5 25.5 25.3 24.6 28.5 23.7

  17        1    2    3    4    5    6    7
          22.3 22.8 22.6 22.2 23.1 23.9 19.9
  18        1    2    3    4    5    6    7
          19.7 23.9 23.1 22.1 22.4 22.7 22.1
1

 RECEIVER    LEQ(H)   L10
 76           48.9   50.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.1 26.1 26.5 26.0 25.5 25.4
   2        1    2    3    4    5    6
          26.6 27.3 21.6 24.6 24.8 25.2
   3        1
          25.2
   4        1    2    3
          25.1 32.6 31.9
   5        1    2    3    4    5    6
          28.1 24.8 24.6 30.2 34.3 31.2
   6        1    2    3
          27.8 26.8 30.2
   7        1    2    3    4
          30.2 26.6 27.7 29.6
   8        1    2    3    4    5    6
          34.3 30.4 25.0 25.1 28.6 30.6
   9        1    2    3
          31.9 25.2 24.9
  10        1
          25.1
  11        1    2    3    4    5    6
          25.0 24.7 21.7 26.6 26.7 27.4
  12        1    2    3    4    5
          26.1 26.7 26.4 26.1 24.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.5 27.7 22.2 28.5 29.1 29.5 33.5 34.5 34.9 34.9

          34.9 31.2 30.1 29.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.7 30.1 31.1 33.2 34.6 34.9 34.6 33.3 29.9 29.2

          27.7 23.7 28.1 23.5
  15        1    2    3    4    5    6    7    8    9   10

          20.7 23.0 18.0 18.2 18.4 18.4 18.5 18.3 18.2 23.9

  16        1    2    3    4    5    6    7    8    9   10

          23.8 18.1 18.3 18.3 18.3 18.3 18.2 17.9 22.9 20.7

  17        1    2    3    4    5    6    7
          23.2 23.1 18.8 18.7 19.8 20.7 16.9
  18        1    2    3    4    5    6    7
          16.6 20.7 19.9 18.6 18.7 23.3 23.2
1

 RECEIVER    LEQ(H)   L10
 77           48.5   50.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          19.9 21.9 22.2 22.1 22.5 23.5
   2        1    2    3    4    5    6
          26.2 26.7 27.1 25.1 23.0 23.2
   3        1
          23.2
   4        1    2    3
          23.7 39.6 30.3
   5        1    2    3    4    5    6
          26.7 23.7 23.9 29.8 34.2 31.2
```

```
 6        1    2    3
         27.9 26.8 30.3
 7        1    2    3    4
         30.2 26.5 27.7 29.6
 8        1    2    3    4    5    6
         34.2 29.8 24.1 23.8 26.7 29.2
 9        1    2    3
         39.5 23.4 22.9
10        1
         23.1
11        1    2    3    4    5    6
         23.1 23.8 27.2 26.7 26.1 25.7
12        1    2    3    4    5
         22.5 22.4 22.4 22.1 20.2
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         22.9 27.0 21.5 27.9 28.8 30.1 29.9 31.0 33.1 30.7

         29.8 30.2 29.6 29.0
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         28.9 29.5 30.0 30.1 30.4 32.6 30.8 29.7 30.6 28.7

         27.0 23.0 27.4 22.9
15        1    2    3    4    5    6    7    8    9   10

         19.7 21.7 16.6 16.8 17.0 17.0 17.1 17.0 16.9 22.8

16        1    2    3    4    5    6    7    8    9   10

         22.7 16.8 17.0 16.9 17.0 16.9 16.8 16.5 21.7 19.7

17        1    2    3    4    5    6    7
         21.7 21.9 21.6 21.0 19.8 19.6 15.8
18        1    2    3    4    5    6    7
         15.6 19.6 20.3 20.9 21.4 21.9 21.7
1

RECEIVER    LEQ(H)   L10
78           37.9   39.6

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
         5.8  8.1  8.7  8.8  8.8  8.4
 2        1    2    3    4    5    6
         10.7 11.7 11.9 16.1 17.4 18.4
 3        1
         19.0
 4        1    2    3
         19.7 22.3 19.5
 5        1    2    3    4    5    6
         16.9 14.2 14.4 19.8 24.3 24.0
 6        1    2    3
         22.1 21.7 25.3
 7        1    2    3    4
         25.2 21.4 21.7 22.0
 8        1    2    3    4    5    6
         24.1 19.7 14.3 14.0 16.7 18.2
 9        1    2    3
         22.1 19.6 18.4
10        1
         18.1
11        1    2    3    4    5    6
         17.3 15.9 11.8 11.5 10.7 10.1
12        1    2    3    4    5
         8.0  8.6  8.7  8.5  5.9
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         8.2 12.5  7.0 13.4 14.0 14.3 14.1 14.0 17.3 16.9

         20.0 24.9 23.6 22.6
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         22.5 23.5 24.7 19.5 16.6 17.1 14.1 13.9 14.8 14.1

         12.6  8.6 12.9  8.3
15        1    2    3    4    5    6    7    8    9   10

         6.1  8.7  3.8  4.1  4.3  4.2  4.3  4.1  3.8  9.2

16        1    2    3    4    5    6    7    8    9   10

         9.1  3.6  4.0  4.1  4.1  4.2  4.1  3.7  8.6  6.0

17        1    2    3    4    5    6    7
         6.1  6.5  6.1  5.6  6.3  6.7  2.5
18        1    2    3    4    5    6    7
         2.3  6.7  6.3  5.5  6.0  6.4  6.0
1

RECEIVER    LEQ(H)   L10
79           44.6   47.2

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
         6.1  8.0  8.3  8.3  8.7  9.8
 2        1    2    3    4    5    6
         12.4 13.1 13.2 17.1 17.9 18.5
 3        1
         25.8
 4        1    2    3
         33.8 35.1 27.2
 5        1    2    3    4    5    6
         24.9 22.5 22.7 27.6 30.9 31.0
 6        1    2    3
         28.3 27.3 30.6
 7        1    2    3    4
         30.6 27.1 28.1 29.8
 8        1    2    3    4    5    6
         30.5 27.6 22.8 22.6 25.0 26.0
 9        1    2    3
         35.2 35.7 28.6
10        1
         18.3
11        1    2    3    4    5    6
         17.9 17.1 13.2 13.0 12.4 12.0
12        1    2    3    4    5
         8.6  8.3  8.2  8.0  6.1
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         11.7 15.8 10.2 16.5 17.0 17.3 16.9 16.7 17.1 17.0

         16.9 17.3 16.8 16.5
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         16.4 16.8 17.2 17.2 16.7 17.1 16.9 16.7 17.7 17.1

         15.7 11.7 16.2 11.8
15        1    2    3    4    5    6    7    8    9   10

         8.9 11.7  6.8  7.1  7.2  7.4  7.5  7.4  7.3 13.0

16        1    2    3    4    5    6    7    8    9   10

         13.0  7.2  7.4  7.3  7.3  7.1  7.0  6.7 11.6  9.0

17        1    2    3    4    5    6    7
         8.0  8.5  8.2  7.8  8.6  9.3  5.3
18        1    2    3    4    5    6    7
         5.0  9.3  8.7  7.7  8.1  8.4  7.9
1

RECEIVER    LEQ(H)   L10
80           44.8   47.3

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
         4.9  6.8  7.1  7.1  7.6  8.7
 2        1    2    3    4    5    6
         11.3 12.0 12.1 16.1 17.5 18.7
 3        1
         30.7
 4        1    2    3
         34.3 34.0 27.5
 5        1    2    3    4    5    6
         25.2 22.7 22.9 27.8 30.4 31.5
 6        1    2    3
         28.7 27.6 30.9
 7        1    2    3    4
         30.9 27.3 28.5 29.8
 8        1    2    3    4    5    6
         30.3 27.9 22.9 22.7 25.2 26.4
 9        1    2    3
         34.0 35.7 32.5
10        1
         18.5
11        1    2    3    4    5    6
         17.4 16.0 12.1 11.9 11.2 10.9
12        1    2    3    4    5
         7.5  7.1  7.1  6.8  4.9
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         10.3 14.5  9.0 15.2 15.7 16.0 15.8 15.6 15.9 15.7

         15.7 16.1 15.6 15.2
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         15.2 15.5 15.9 16.0 15.5 15.9 15.7 15.5 16.4 15.8

         14.4 10.5 14.9 10.4
15        1    2    3    4    5    6    7    8    9   10

         7.7 10.3  5.4  5.7  6.0  6.1  6.2  8.8 19.0 27.0

16        1    2    3    4    5    6    7    8    9   10

         26.9 18.8  6.0  6.0  6.0  5.8  5.7  5.3 10.3  7.7

17        1    2    3    4    5    6    7
         6.9  7.3  7.0  6.5  7.4  8.0  4.0
18        1    2    3    4    5    6    7
         3.8  8.1  7.4  6.5  6.9  7.3  6.8
1

RECEIVER    LEQ(H)   L10
81           46.5   48.9

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
         3.4  5.4  5.8  5.9  6.5  7.9
 2        1    2    3    4    5    6
         10.7 11.7 11.9 21.7 22.9 26.1
 3        1
         33.4
 4        1    2    3
         35.7 34.0 28.4
 5        1    2    3    4    5    6
         25.9 23.3 23.4 28.3 30.8 29.5
 6        1    2    3
         29.1 28.0 31.3
 7        1    2    3    4
         31.3 27.8 28.9 27.5
 8        1    2    3    4    5    6
         30.8 28.4 23.5 23.3 25.9 27.4
 9        1    2    3
         34.2 36.8 35.2
10        1
         28.5
11        1    2    3    4    5    6
         23.1 22.3 11.9 11.5 10.6 10.0
12        1    2    3    4    5
         6.4  5.9  5.8  5.4  3.4
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         22.8 26.8 21.2 27.5 28.1 27.3 14.1 13.9 14.3 14.3

         14.2 14.7 14.3 13.9
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         13.9 14.2 14.6 14.6 14.0 14.3 14.1 13.9 27.6 28.2

         26.6 22.7 27.2 22.9
15        1    2    3    4    5    6    7    8    9   10

         19.3 22.1 17.4 17.9 18.5 18.9 23.5 24.6 24.3 29.7

16        1    2    3    4    5    6    7    8    9   10

         29.6 24.2 24.5 23.3 18.8 18.3 17.9 17.3 22.1 19.3

17        1    2    3    4    5    6    7
         6.1  6.5  6.1 16.4 18.2 19.2 15.5
18        1    2    3    4    5    6    7
         15.3 19.2 18.2 15.8  6.0  6.4  5.9
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                    *************************
                           STAM2VU1
                         Version 1.20
                    *************************
                       STAMINA 2.0/BCR
              MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
                  TRAFFIC NOISE PREDICTION MODEL

          MODIFIED TO:
            1.   ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
            2.   CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY
                 USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
            3.   PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A
                 DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE
                 LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.
                    *************************
             MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
                 BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
                        AND BOWLBY & ASSOCIATES, INC.
                           2014 BROADWAY, SUITE 210
                           NASHVILLE, TN 37203-2425
                      TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE
HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK
CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE
*.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.


          (INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH )


 Meadowood - Single-Family 2nd Floor (Receivers 42-81)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

      HEIGHT      CODE           DESCRIPTION
        .00         1      RECEIVER HEIGHT ADJUSTMENT
       1.00         2      A-WEIGHTED SOUND LEVEL ONLY
        .00         3      HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
        .00         4      HEIGHT ADJUSTMENT FOR HEAVY TRUCKS   (HT)
        .00         5      HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS  (MT)
       .000         6      HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4)
                           CARS--CALVENO
                           C0 =       5.20  C1 =      38.80  S0 =        .00
      2.300         7      HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5)
                           MT--CALVENO
                           C0 =      35.30  C1 =      25.60  S0 =        .00
      8.000         8      HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6)
                           HT--CALVENO
                           C0 =      50.40  C1 =      19.20  S0 =        .00


0ROADWAY   1      HRC nb (76 to Pankey)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                        CARS              0.         30.0
                        HT                0.         30.0
                        MT                0.         30.0
                        VEH4            415.         40.0
                        VEH5             13.         40.0
                        VEH6              9.         40.0
0                    ------------COORDINATES------------
                          X          Y            Z     GRADE
 1                   6287767.4   2067284.0      276.0     0
 2                   6287704.7   2067456.2      276.0     0
 3                   6287629.7   2067702.5      279.0     0
 4                   6287568.8   2067936.5      284.0     0
 5                   6287512.3   2068148.3      284.0     0
 6                   6287446.9   2068359.4      282.0     0
 7                   6287374.5   2068606.6      279.0     0

0ROADWAY   2      HRC nb (Pankey to School)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                        CARS              0.         30.0
                        HT                0.         30.0
                        MT                0.         30.0
                        VEH4            695.         40.0
                        VEH5             22.         40.0
                        VEH6             15.         40.0
0                    ------------COORDINATES------------
                          X          Y            Z     GRADE
 7                   6287374.5   2068606.6      279.0     0
 8                   6287273.9   2068832.6      278.0     0
 9                   6287137.9   2069057.7      278.0     0
 10                  6287017.0   2069263.4      280.0     0
 11                  6286760.9   2069688.9      285.0     0
 12                  6286533.2   2070137.4      290.0     0
 13                  6286310.7   2070587.7      296.0     0

0ROADWAY   3      HRC nb (School to 26)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                        CARS              0.         30.0
                        HT                0.         30.0
                        MT                0.         30.0
                        VEH4            689.         40.0
                        VEH5             22.         40.0
                        VEH6             15.         40.0
0                    ------------COORDINATES------------
                          X          Y            Z     GRADE
 13                  6286310.7   2070587.7      296.0     0
 14                  6286086.4   2071030.0      302.0     0

0ROADWAY   4      HRC nb (26 to Harvest Glen)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                        CARS              0.         30.0
                        HT                0.         30.0
                        MT                0.         30.0
                        VEH4            634.         40.0
                        VEH5             20.         40.0
                        VEH6             13.         40.0
0                    ------------COORDINATES------------
                          X          Y            Z     GRADE
 14                  6286086.4   2071030.0      302.0     0
 15                  6285859.5   2071475.8      308.0     0
 16                  6285540.8   2072106.2      311.0     0
 17                  6285403.1   2072385.2      310.0     0

0ROADWAY   5      HRC nb (Harvest Glen to Longspur)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                        CARS              0.         30.0
                        HT                0.         30.0
                        MT                0.         30.0
                        VEH4            488.         40.0
                        VEH5             15.         40.0
                        VEH6             10.         40.0
0                    ------------COORDINATES------------
                          X          Y            Z     GRADE
 17                  6285403.1   2072385.2      310.0     0
 18                  6285328.1   2072574.1      310.0     0
 19                  6285298.0   2072673.9      310.0     0
 20                  6285270.7   2072773.6      311.0     0
 21                  6285221.2   2073078.2      314.0     0
 22                  6285201.8   2073673.3      322.0     0
 23                  6285188.6   2074037.0      338.0     0

0ROADWAY   6      HRC nb (Longspur to Baltimore)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                        CARS              0.         30.0
                        HT                0.         30.0
                        MT                0.         30.0
                        VEH4            347.         40.0
                        VEH5             11.         40.0
                        VEH6              7.         40.0
0                    ------------COORDINATES------------
                          X          Y            Z     GRADE
 23                  6285188.6   2074037.0      338.0     0
 24                  6285145.3   2074308.9      346.0     0
 25                  6285056.1   2074546.4      351.0     0
 26                  6284650.0   2075149.4      356.0     0

0ROADWAY   7      HRC sb (Baltimore to Longspur)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                        CARS              0.         30.0
                        HT                0.         30.0
                        MT                0.         30.0
                        VEH4            347.         40.0
                        VEH5             11.         40.0
                        VEH6              7.         40.0
0                    ------------COORDINATES------------
                          X          Y            Z     GRADE
 1                   6284621.8   2075132.6      356.0     0
 2                   6285015.5   2074527.9      351.0     0
 3                   6285099.4   2074300.1      346.0     0
 4                   6285141.8   2074033.5      338.0     0
 5                   6285159.4   2073671.5      322.0     0

0ROADWAY   8      HRC sb (Longspur to Harvest Glen)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                        CARS              0.         30.0
                        HT                0.         30.0
                        MT                0.         30.0
                        VEH4            488.         40.0
                        VEH5             15.         40.0
                        VEH6             10.         40.0
0                    ------------COORDINATES------------
                          X          Y            Z     GRADE
 5                   6285159.4   2073671.5      322.0     0
 6                   6285181.5   2073072.9      314.0     0
 7                   6285228.3   2072759.5      311.0     0
 8                   6285256.5   2072658.0      310.0     0
 9                   6285287.4   2072557.3      310.0     0
 10                  6285368.7   2072369.3      310.0     0
 11                  6285504.6   2072087.7      311.0     0

0ROADWAY   9      HRC sb (Harvest Glen to 26)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                        CARS              0.         30.0
                        HT                0.         30.0
                        MT                0.         30.0
                        VEH4            634.         40.0
                        VEH5             20.         40.0
                        VEH6             13.         40.0
0                    ------------COORDINATES------------
                          X          Y            Z     GRADE
 11                  6285504.6   2072087.7      311.0     0
 12                  6285818.9   2071457.3      308.0     0
 13                  6286045.8   2071007.9      302.0     0
 14                  6286269.2   2070567.4      296.0     0

0ROADWAY  10      HRC sb (26 to School)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                        CARS              0.         30.0
                        HT                0.         30.0
                        MT                0.         30.0
                        VEH4            689.         40.0
                        VEH5             22.         40.0
                        VEH6             14.         40.0
0                    ------------COORDINATES------------
                          X          Y            Z     GRADE
 14                  6286269.2   2070567.4      296.0     0
 15                  6286493.4   2070122.4      290.0     0

0ROADWAY  11      HRC sb (School to Pankey)

                   VEHICLE TYPE   VEHICLES/HOUR     SPEED
                        CARS              0.         30.0
                        HT                0.         30.0
                        MT                0.         30.0
                        VEH4            695.         40.0
                        VEH5             22.         40.0
                        VEH6             15.         40.0
0                    ------------COORDINATES------------
                          X          Y            Z     GRADE
 15                  6286493.4   2070122.4      290.0     0
 16                  6286720.3   2069667.7      285.0     0
 17                  6286977.2   2069239.6      280.0     0
 18                  6287102.6   2069033.0      278.0     0
 19                  6287238.6   2068813.1      278.0     0
```

	X	Y	Z	GRADE
20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

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BARRIER 1 TYPE(A) Pad Edges 1

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
1	6286634.5	2070357.1	300.0	300.0	.0	0
2	6286502.0	2070298.3	300.0	300.0		
3	6286265.1	2070793.1	310.0	310.0		
4	6286320.9	2070828.5	310.0	310.0		

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BARRIER 2 TYPE(A) Pad Edges 2

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
5	6286349.5	2070944.8	315.0	315.0	.0	0
6	6286239.3	2070896.7	314.0	314.0		
7	6286196.9	2070902.4	314.0	314.0		
8	6286078.1	2071137.0	311.0	311.0		
9	6286004.6	2071292.5	316.0	316.0		
10	6286004.6	2071603.5	317.0	317.0		
11	6286004.6	2071990.8	321.0	321.0		
12	6286004.5	2072360.7	324.0	324.0		
13	6286289.0	2072499.4	326.0	326.0		
14	6286498.0	2072566.2	329.0	329.0		

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BARRIER 3 TYPE(A) Pad Edges 3

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
15	6286634.5	2072765.6	401.0	395.0	1.0	3
16	6286621.9	2072916.9	401.0	395.0		
17	6286648.3	2073055.3	403.0	397.0		
18	6286685.9	2073120.3	406.0	400.0		
19	6286802.5	2073223.1	414.0	408.0		
20	6286939.8	2073344.0	427.0	421.0		
21	6287080.9	2073468.3	440.0	434.0		
22	6287179.3	2073554.7	448.0	442.0		
23	6287319.9	2073660.5	453.0	447.0		

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BARRIER 4 TYPE(A) Pad Edges 4

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
24	6286661.4	2072669.3	405.0	399.0	1.0	3
25	6286691.4	2072606.8	408.0	402.0		
26	6286808.6	2072443.9	419.0	413.0		
27	6286883.6	2072343.9	426.0	420.0		
28	6286840.1	2072178.6	431.0	425.0		
29	6286816.2	2072125.3	431.0	425.0		
30	6286823.2	2072059.3	431.0	425.0		
32	6286845.0	2072002.5	431.0	425.0		
33	6286884.7	2071971.4	431.0	425.0		

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BARRIER 5 TYPE(A) Pad Edges 5

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
33	6286902.8	2071961.7	431.0	425.0	1.0	3
34	6286962.6	2071945.7	431.0	425.0		
35	6287015.8	2071960.1	431.0	425.0		
36	6287071.5	2071996.1	431.0	425.0		
37	6287133.1	2072101.5	439.0	433.0		
38	6287208.1	2072073.0	446.0	440.0		
39	6287286.5	2072058.4	449.0	443.0		
40	6287479.3	2072046.8	460.0	454.0		
41	6287668.5	2072035.1	471.0	465.0		
41b	6287685.1	2071982.5	500.0	494.0		

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BARRIER 6 TYPE(A) Pad Edges 6

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
41b	6287685.1	2071982.5	500.0	494.0	1.0	3
42	6287686.6	2071882.5	500.0	494.0		
42b	6287699.0	2071869.6	500.0	494.0		
43	6287687.4	2071826.0	500.0	494.0		
44	6287537.5	2071795.8	499.0	493.0		
45	6287494.5	2071766.0	499.0	493.0		
46	6287457.5	2071786.6	499.0	493.0		
47	6287414.4	2071765.2	499.0	493.0		
48	6287295.5	2071799.6	499.0	493.0		
49	6287284.9	2071649.7	495.0	489.0		

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BARRIER 7 TYPE(A) Pad Edges 7

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
49	6287284.9	2071649.7	495.0	489.0	1.0	3
50	6287348.9	2071527.3	493.0	487.0		
51	6287424.5	2071350.9	487.0	481.0		
52	6287467.2	2071294.2	485.0	479.0		
53	6287518.6	2071247.5	483.0	477.0		

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BARRIER 8 TYPE(A) Pad Edges 8

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
54	6287218.1	2070892.1	423.0	417.0	1.0	3
55	6287157.9	2071011.8	428.0	422.0		
56	6287075.2	2071176.2	433.0	427.0		
57	6287007.6	2071272.7	433.0	427.0		
58	6286932.0	2071401.6	433.0	427.0		
59	6286944.0	2071476.9	433.0	427.0		
60	6286980.6	2071530.1	433.0	427.0		
61	6287085.3	2071587.4	433.0	427.0		
61b	6287195.3	2071545.3	436.0	430.0		

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BARRIER 9 TYPE(A) Pad Edges 9

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
62	6287504.8	2073407.6	464.0	464.0	.0	0
63	6287455.9	2073368.6	463.0	463.0		
64	6287170.1	2073077.7	459.0	459.0		
65	6287084.1	2072959.0	458.0	458.0		
66	6287062.5	2072812.7	457.0	457.0		
67	6287098.4	2072672.4	456.0	456.0		
68	6287206.8	2072488.9	454.0	454.0		
69	6287296.9	2072394.7	453.0	453.0		
70	6287367.3	2072346.7	452.0	452.0		
71	6287469.2	2072361.5	452.0	452.0		

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BARRIER 10 TYPE(A) Pad Edges 10

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
72	6287697.7	2073088.0	486.0	486.0	.0	0
73	6287547.5	2072976.4	486.0	486.0		
74	6287491.4	2072888.6	486.0	486.0		
75	6287491.1	2072766.9	485.0	485.0		
76	6287635.8	2072596.6	482.0	482.0		
77	6287767.5	2072309.5	477.0	477.0		

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BARRIER 11 TYPE(A) Pad Edges 11

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
78	6287168.3	2074113.6	447.0	447.0	.0	0
79	6287306.7	2073811.7	443.0	443.0		
80	6287536.9	2073481.4	457.0	457.0		

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BARRIER 12 TYPE(A) Pad Edges 12

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
81	6287283.0	2074170.1	465.0	465.0	.0	0
82	6287469.8	2073845.2	471.0	471.0		
82b	6287616.6	2073652.3	478.0	478.0		
82c	6287630.6	2073609.8	478.0	478.0		
83	6287702.0	2073532.9	475.0	475.0		

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BARRIER 13 TYPE(A) Pad Edges 14

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
84	6288855.6	2071200.7	606.0	606.0	.0	0
85	6288817.6	2071249.1	606.0	606.0		
85b	6288817.1	2071249.5	600.0	600.0		
85c	6288775.2	2071293.2	600.0	600.0		
85d	6288774.8	2071293.5	593.0	593.0		
86	6288730.6	2071333.3	593.0	593.0		
86b	6288730.4	2071333.5	585.0	585.0		
87	6288637.1	2071415.2	574.0	574.0		
87b	6288636.6	2071415.5	558.0	558.0		
87c	6288577.5	2071447.1	558.0	558.0		

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BARRIER 14 TYPE(A) Pad Edges 15

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
87c	6288577.5	2071447.1	558.0	558.0	.0	0
87d	6288576.6	2071447.3	542.0	542.0		
87e	6288512.6	2071462.6	542.0	542.0		
87f	6288512.2	2071462.7	535.0	535.0		
87g	6288454.3	2071466.7	535.0	535.0		
87h	6288453.5	2071466.7	528.0	528.0		
87i	6288396.4	2071470.4	528.0	528.0		

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BARRIER 15 TYPE(A) Pad Edges 16

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
88	6287934.8	2071070.6	469.0	463.0	1.0	3
89	6287896.0	2071051.1	467.0	461.0		
90	6287829.7	2071017.7	463.0	457.0		
91	6287774.3	2070989.8	458.0	452.0		
92	6287719.9	2070962.3	452.0	446.0		
93	6287660.0	2070932.2	444.0	438.0		
94	6287602.9	2070903.4	437.0	431.0		
95	6287558.2	2070880.9	432.0	426.0		
96	6287504.6	2070853.9	432.0	426.0		
97	6287457.4	2070947.6	432.0	426.0		

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BARRIER 16 TYPE(A) Pad Edges 17

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
98	6287917.7	2071215.4	471.0	471.0	.0	0
99	6288056.8	2071153.4	487.0	487.0		
100	6288174.3	2071168.6	499.0	499.0		
101	6288341.6	2071223.3	517.0	517.0		
102	6288383.4	2071229.3	517.0	517.0		
103	6288411.9	2071206.0	518.0	518.0		

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BARRIER 17 TYPE(A) Pade Edges 18

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
104	6287531.1	2074308.7	483.0	483.0	.0	0
105	6287706.9	2074046.2	487.0	487.0		
106	6287847.9	2073869.2	491.0	491.0		
107	6287887.1	2073856.0	493.0	493.0		

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BARRIER 18 TYPE(A) Pad Edges 19

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
108a	6287776.1	2074544.5	503.0	503.0	.0	0
108b	6287725.5	2074618.8	503.0	503.0		
109	6287778.2	2074656.5	513.0	513.0		
110	6287798.1	2074702.8	518.0	518.0		
111	6287807.8	2074744.0	518.0	518.0		

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BARRIER 19 TYPE(A) topo

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
101	6288085.4	2071071.8	480.0	480.0	.0	0
102	6288126.7	2071075.6	490.0	490.0		
103	6288184.4	2071080.1	500.0	500.0		
104	6288251.7	2071097.2	510.0	510.0		
105	6288303.1	2071102.9	520.0	520.0		
106	6288351.3	2071117.5	520.0	520.0		
107	6288405.9	2071126.4	520.0	520.0		
108	6288430.0	2071156.2	520.0	520.0		
109	6288449.0	2071195.5	520.0	520.0		
110	6288523.0	2071244.5	520.0	520.0		

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BARRIER 20 TYPE(A) topo cont.

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
110	6288523.0	2071244.5	520.0	520.0	.0	0
111	6288548.5	2071277.9	540.0	540.0		
112	6288475.2	2071383.9	540.0	540.0		
113	6288552.4	2071426.4	550.0	550.0		
114	6288585.8	2071413.3	560.0	560.0		
115	6288606.7	2071398.3	570.0	570.0		
116	6288659.1	2071359.7	580.0	580.0		
117	6288723.8	2071295.6	590.0	590.0		
118	6288785.3	2071224.9	600.0	600.0		
119	6288860.6	2071169.9	610.0	610.0		

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Receivers @ 15'

	----------COORDINATES----------		
	X	Y	Z
42	6287209.4	2070932.6	431.0
43	6287178.7	2070993.6	433.0
44	6287124.4	2071102.2	439.0
45	6287070.4	2071208.9	442.0
46	6287011.5	2071313.5	442.0
47	6286953.5	2071473.5	441.0
48	6287522.5	2070876.7	440.0
49	6287583.7	2070904.9	445.0
50	6287641.1	2070934.2	452.0
51	6287698.8	2070963.5	461.0
52	6287753.1	2070989.9	466.0
53	6287807.4	2071017.6	471.0
54	6287863.0	2071046.2	475.0
55	6287917.2	2071073.2	477.0
56	6287991.1	2071192.0	486.0
57	6288126.8	2071166.8	502.0
58	6288204.0	2071190.3	513.0
59	6288260.7	2071208.1	523.0
60	6288313.9	2071224.5	528.0
61	6288362.9	2071239.5	531.0
62	6288406.6	2071227.5	532.0
63	6288483.4	2071474.3	549.0
64	6288549.4	2071464.5	557.0
65	6288609.3	2071442.1	573.0
66	6288668.5	2071402.8	588.0
67	6288714.7	2071361.7	599.0
68	6288759.5	2071320.9	607.0
69	6288803.3	2071278.6	615.0
70	6288841.8	2071234.7	620.0
71	6287500.6	2071278.0	492.0
72	6287443.5	2071343.1	494.0
73	6287391.9	2071446.5	498.0
74	6287340.0	2071566.7	502.0
75	6287299.9	2071702.6	505.0
76	6287610.5	2071800.0	508.0
77	6287697.0	2071890.8	509.0
78	6287687.1	2072010.9	480.0
79	6287626.5	2072047.9	476.0
80	6287511.7	2072055.9	468.0
81	6287331.8	2072066.2	458.0

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ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
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3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

```
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
10 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
11 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
12 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
13 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
14 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
15 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
16 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
17 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
18 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
1

 SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

 1 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 2 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 3 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 4 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 5 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 6 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 7 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 8 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 9 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
10 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
11 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
12 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
13 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
14 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
15 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
16 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
17 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
18 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
1

 RECEIVER     LEQ(H)   L10
 42            56.0   57.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            26.4 28.5 29.0 29.4 30.2 31.8
    2        1    2    3    4    5    6
            34.9 36.2 36.9 41.8 44.1 43.4
    3        1
            41.5
    4        1    2    3
            38.9 41.1 35.6
    5        1    2    3    4    5    6
            31.6 28.1 27.7 31.9 30.9 25.7
    6        1    2    3
            21.7 20.6 24.0
    7        1    2    3    4
            24.0 20.4 21.5 24.3
    8        1    2    3    4    5    6
            31.3 31.9 27.7 28.0 31.5 34.4
    9        1    2    3
            41.3 40.2 42.4
   10        1
            43.3
   11        1    2    3    4    5    6
            43.8 41.6 36.8 36.0 34.8 33.9
   12        1    2    3    4    5
            30.1 29.4 29.0 28.5 26.4
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            30.8 35.2 29.7 36.1 36.8 37.2 37.0 36.8 37.2 37.1

            37.0 37.5 37.0 36.7
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            36.7 37.0 37.4 37.4 36.8 37.2 37.0 36.8 37.7 36.9

            35.3 31.3 35.6 30.9
   15        1    2    3    4    5    6    7    8    9   10

            29.1 32.1 27.4 27.7 27.9 27.9 27.8 27.4 27.0 32.1

   16        1    2    3    4    5    6    7    8    9   10

            32.0 26.9 27.3 27.6 27.8 27.8 27.6 27.2 32.0 29.1

   17        1    2    3    4    5    6    7
            30.0 30.3 29.9 29.2 29.8 30.1 25.7
   18        1    2    3    4    5    6    7
            25.5 30.1 29.8 29.1 29.7 30.3 29.8
1

 RECEIVER     LEQ(H)   L10
 43            55.9   57.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            26.2 28.3 28.8 29.2 30.0 31.5
    2        1    2    3    4    5    6
            34.6 35.9 36.5 41.4 43.8 43.0
    3        1
            41.8
    4        1    2    3
            39.2 41.5 35.9
    5        1    2    3    4    5    6
            31.8 28.3 28.0 31.2 30.7 25.8
    6        1    2    3
            21.9 19.4 22.9
    7        1    2    3    4
            23.9 20.5 21.8 24.4
    8        1    2    3    4    5    6
            30.9 32.2 27.9 28.3 31.8 34.7
    9        1    2    3
            41.6 41.2 42.5
   10        1
            43.1
   11        1    2    3    4    5    6
            43.6 41.3 36.5 35.7 34.5 33.6
   12        1    2    3    4    5
            29.8 29.1 28.8 28.3 26.2
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            30.7 35.0 29.6 36.0 36.7 37.1 36.8 36.6 37.0 36.9

            36.8 37.3 35.5 36.5
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            36.5 35.2 37.0 37.2 36.6 37.0 36.8 36.6 37.5 36.8

            35.2 31.2 35.4 30.8
   15        1    2    3    4    5    6    7    8    9   10

            29.0 31.9 27.2 27.6 27.8 27.8 27.7 27.4 27.0 32.0

   16        1    2    3    4    5    6    7    8    9   10

            32.0 26.8 27.3 27.5 27.7 27.7 27.5 27.1 31.9 29.0

   17        1    2    3    4    5    6    7
            29.7 30.1 29.6 29.0 29.6 29.9 25.6
   18        1    2    3    4    5    6    7
            25.3 29.9 29.6 28.9 29.5 30.0 29.6
1

 RECEIVER     LEQ(H)   L10
 44            55.8   57.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            25.8 28.0 28.5 28.8 29.5 31.1
    2        1    2    3    4    5    6
            34.1 35.4 36.0 40.9 43.2 42.8
    3        1
            41.9
    4        1    2    3
            40.1 42.3 36.4
    5        1    2    3    4    5    6
            32.3 28.8 28.4 32.6 34.2 27.7
    6        1    2    3
            21.9 20.9 24.5
    7        1    2    3    4
            24.4 20.7 21.9 27.2
    8        1    2    3    4    5    6
            34.1 32.6 28.4 28.7 32.3 35.2
    9        1    2    3
            42.2 41.9 42.8
   10        1
            42.9
   11        1    2    3    4    5    6
            43.0 40.7 35.9 35.2 34.1 33.2
   12        1    2    3    4    5
            29.4 28.8 28.4 28.0 25.9
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            30.5 34.8 29.4 35.8 36.4 36.8 36.5 36.3 36.7 36.6

            36.5 36.9 35.0 34.8
```

```
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          34.5 35.2 36.8 36.9 36.3 36.7 36.5 36.3 37.3 36.6

          35.0 30.9 35.2 30.6
  15        1    2    3    4    5    6    7    8    9   10

          28.7 31.7 27.0 27.4 27.6 27.6 27.6 27.2 26.8 32.0

  16        1    2    3    4    5    6    7    8    9   10

          31.9 26.7 27.2 27.4 27.5 27.5 27.3 26.9 31.6 28.7

  17        1    2    3    4    5    6    7
          29.3 29.7 29.3 28.7 29.2 29.6 25.3
  18        1    2    3    4    5    6    7
          25.0 29.6 29.2 28.6 29.1 29.6 29.1
1

 RECEIVER    LEQ(H)   L10
 45           55.6   57.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.5 27.6 28.1 28.4 29.2 30.7
   2        1    2    3    4    5    6
          33.7 34.9 35.5 40.3 42.7 42.4
   3        1
          41.9
   4        1    2    3
          40.8 42.9 36.9
   5        1    2    3    4    5    6
          32.8 29.3 28.9 33.0 31.4 26.1
   6        1    2    3
          22.6 21.6 25.2
   7        1    2    3    4
          25.2 21.5 22.5 24.7
   8        1    2    3    4    5    6
          31.5 33.0 28.9 29.2 32.7 35.7
   9        1    2    3
          42.7 42.6 42.8
  10        1
          42.5
  11        1    2    3    4    5    6
          42.5 40.2 35.4 34.7 33.6 32.8
  12        1    2    3    4    5
          29.0 28.4 28.0 27.6 25.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.3 34.6 29.2 35.5 36.2 36.5 36.2 36.0 36.4 36.2

          36.2 36.6 36.1 32.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.3 34.2 36.5 36.5 36.0 36.4 36.2 36.0 37.0 36.3

          34.7 30.7 35.0 30.4
  15        1    2    3    4    5    6    7    8    9   10

          28.5 31.4 26.8 27.1 27.4 27.4 27.4 27.1 26.7 31.9

  16        1    2    3    4    5    6    7    8    9   10

          31.9 26.6 27.0 27.2 27.3 27.2 27.1 26.6 31.4 28.4

  17        1    2    3    4    5    6    7
          28.9 29.3 28.9 28.3 28.9 29.3 25.0
  18        1    2    3    4    5    6    7
          24.8 29.3 28.9 28.2 28.8 29.2 28.7
1

 RECEIVER    LEQ(H)   L10
 46           55.4   57.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.2 27.3 27.8 28.0 28.8 30.3
   2        1    2    3    4    5    6
          33.2 34.5 35.0 39.7 42.1 41.7
   3        1
          41.7
   4        1    2    3
          41.4 43.5 37.5
   5        1    2    3    4    5    6
          33.3 29.8 28.4 31.9 31.2 27.7
   6        1    2    3
          24.5 23.7 27.5
   7        1    2    3    4
          27.4 23.6 24.5 26.1
   8        1    2    3    4    5    6
          31.4 32.6 29.3 29.7 33.2 36.2
   9        1    2    3
          43.3 43.1 42.7
  10        1
          42.0
  11        1    2    3    4    5    6
          42.0 39.6 34.9 34.3 33.2 32.4
  12        1    2    3    4    5
          28.7 28.0 27.7 27.3 25.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.1 34.5 29.0 35.3 36.0 36.3 36.0 35.7 36.1 35.9

          35.6 33.6 31.8 30.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.7 31.8 33.5 36.0 35.7 36.1 35.9 35.8 36.7 36.1

          34.5 30.5 34.8 30.2
  15        1    2    3    4    5    6    7    8    9   10

          28.2 31.2 26.5 26.9 27.2 27.3 27.3 27.0 26.6 31.8

  16        1    2    3    4    5    6    7    8    9   10

          31.8 26.5 26.9 27.0 27.1 27.0 26.8 26.4 31.1 28.2

  17        1    2    3    4    5    6    7
          28.5 28.9 28.5 28.0 28.6 29.1 24.8
  18        1    2    3    4    5    6    7
          24.5 29.1 28.6 27.9 28.4 28.8 28.3
1

 RECEIVER    LEQ(H)   L10
 47           54.0   56.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          19.9 22.0 22.4 22.6 23.2 24.7
   2        1    2    3    4    5    6
          27.6 28.8 29.3 34.0 36.2 39.2
   3        1
          41.3
   4        1    2    3
          41.7 44.2 38.1
   5        1    2    3    4    5    6
          34.0 30.4 30.0 34.1 35.6 32.1
   6        1    2    3
          28.4 27.3 30.6
   7        1    2    3    4
          30.6 27.0 28.3 30.5
   8        1    2    3    4    5    6
          35.5 34.1 30.0 30.4 33.9 36.9
   9        1    2    3
          43.9 43.3 42.2
  10        1
          40.4
  11        1    2    3    4    5    6
          36.2 33.9 29.2 28.6 27.6 26.8
  12        1    2    3    4    5
          23.2 22.6 22.4 22.0 20.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.6 32.7 27.2 32.9 32.9 32.6 31.8 31.1 31.1 30.6

          30.4 30.7 29.8 32.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.8 29.8 30.6 30.8 30.4 31.0 31.3 31.5 33.0 33.0

          32.1 28.6 33.1 29.0
  15        1    2    3    4    5    6    7    8    9   10

          25.3 29.5 26.1 26.5 26.8 26.9 26.9 26.7 26.4 31.5

  16        1    2    3    4    5    6    7    8    9   10

          31.5 26.2 26.6 26.7 26.8 26.7 26.4 25.9 29.6 25.4

  17        1    2    3    4    5    6    7
          22.9 23.5 23.4 23.1 24.1 25.1 21.5
  18        1    2    3    4    5    6    7
          21.2 25.1 24.1 23.0 23.2 23.4 22.8
1

 RECEIVER    LEQ(H)   L10
 48           54.8   56.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.6 28.8 29.3 29.6 30.5 32.0
   2        1    2    3    4    5    6
          35.1 36.3 36.9 41.4 42.9 41.5
   3        1
          38.4
   4        1    2    3
          31.4 30.2 24.3
   5        1    2    3    4    5    6
          20.3 16.8 16.4 20.5 23.1 21.3
   6        1    2    3
          18.9 18.6 22.6
   7        1    2    3    4
          22.5 18.4 18.8 19.8
   8        1    2    3    4    5    6
          23.2 20.9 16.7 17.0 20.5 23.5
   9        1    2    3
          30.5 31.8 39.2
  10        1
          41.3
  11        1    2    3    4    5    6
          42.7 41.2 36.7 36.1 35.0 34.1
  12        1    2    3    4    5
          30.3 29.6 29.2 28.7 26.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.6 35.0 29.6 36.0 36.7 37.2 37.0 36.9 37.4 37.3

          37.4 37.9 37.5 37.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.2 37.5 37.8 37.7 37.1 37.4 37.1 36.8 37.7 36.9

          35.2 31.1 35.4 30.7
  15        1    2    3    4    5    6    7    8    9   10

          29.0 31.8 27.0 27.2 27.4 27.3 27.2 26.7 26.3 31.3

  16        1    2    3    4    5    6    7    8    9   10

          31.3 26.2 26.7 26.9 27.2 27.2 27.1 26.8 31.7 29.0

  17        1    2    3    4    5    6    7
          30.1 30.4 29.9 29.2 29.7 29.9 25.5
  18        1    2    3    4    5    6    7
          25.3 30.0 29.7 29.1 29.7 30.3 30.0
1

 RECEIVER    LEQ(H)   L10
 49           54.4   55.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.5 28.7 29.2 29.5 30.3 31.9
   2        1    2    3    4    5    6
          34.9 36.1 36.6 41.1 42.5 39.3
   3        1
          36.0
   4        1    2    3
          30.3 29.3 23.7
   5        1    2    3    4    5    6
          19.8 16.4 16.2 20.8 23.7 22.2
   6        1    2    3
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          19.9 19.3 23.1
   7        1    2    3    4
          23.1 19.1 19.7 20.6
   8        1    2    3    4    5    6
          23.8 20.9 16.3 16.8 20.1 22.9
   9        1    2    3
          29.7 30.8 37.3
  10        1
          39.4
  11        1    2    3    4    5    6
          42.1 40.9 36.5 35.9 34.8 34.0
  12        1    2    3    4    5
          30.2 29.5 29.2 28.7 26.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.5 34.9 29.4 35.9 36.6 37.1 36.9 36.8 37.3 37.3

          37.3 37.8 37.5 37.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.2 37.4 37.7 37.7 37.0 37.3 37.0 36.7 37.6 36.7

          35.1 31.0 35.3 30.5
  15        1    2    3    4    5    6    7    8    9   10

          28.9 31.6 26.8 27.0 27.2 27.1 26.9 26.5 26.1 31.0

  16        1    2    3    4    5    6    7    8    9   10

          31.0 26.0 26.5 26.7 26.9 27.0 27.0 26.6 31.6 28.8

  17        1    2    3    4    5    6    7
          30.0 30.3 29.7 29.0 29.5 29.8 25.4
  18        1    2    3    4    5    6    7
          25.2 29.8 29.5 28.9 29.6 30.2 29.8
1

 RECEIVER    LEQ(H)   L10
 50           54.2   55.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.5 28.6 29.1 29.4 30.2 31.8
   2        1    2    3    4    5    6
          34.8 35.9 36.4 40.8 42.1 39.7
   3        1
          34.9
   4        1    2    3
          29.9 29.0 23.7
   5        1    2    3    4    5    6
          19.9 17.1 17.0 21.8 25.0 23.4
   6        1    2    3
          20.5 18.8 22.7
   7        1    2    3    4
          22.8 19.2 20.5 21.8
   8        1    2    3    4    5    6
          25.0 21.9 17.2 17.2 20.2 22.9
   9        1    2    3
          29.5 30.4 36.4
  10        1
          38.3
  11        1    2    3    4    5    6
          41.9 40.6 36.3 35.7 34.7 33.8
  12        1    2    3    4    5
          30.1 29.4 29.0 28.6 26.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.3 34.8 29.3 35.8 36.5 37.0 36.8 36.7 37.2 37.2

          37.2 37.8 37.4 37.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.2 37.4 37.7 37.6 36.9 37.2 36.9 36.6 37.4 36.6

          34.9 30.9 35.1 30.4
  15        1    2    3    4    5    6    7    8    9   10

          28.7 31.5 26.6 26.8 27.0 26.9 26.7 26.3 25.9 30.8

  16        1    2    3    4    5    6    7    8    9   10

          30.8 25.8 26.3 26.5 26.8 26.8 26.8 26.5 31.4 28.7

  17        1    2    3    4    5    6    7
          29.8 30.1 29.5 28.9 29.3 29.6 25.2
  18        1    2    3    4    5    6    7
          25.0 29.7 29.4 28.8 29.4 30.0 29.7
1

 RECEIVER    LEQ(H)   L10
 51           54.1   55.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.4 28.5 29.0 29.3 30.1 31.6
   2        1    2    3    4    5    6
          34.6 35.7 36.1 40.5 41.7 39.8
   3        1
          34.3
   4        1    2    3
          30.0 29.2 24.2
   5        1    2    3    4    5    6
          20.9 18.2 18.3 23.3 26.3 27.0
   6        1    2    3
          19.9 19.4 23.2
   7        1    2    3    4
          23.2 19.2 21.9 24.9
   8        1    2    3    4    5    6
          26.2 23.4 18.4 18.4 21.1 23.3
   9        1    2    3
          29.7 30.6 35.5
  10        1
          39.7
  11        1    2    3    4    5    6
          41.5 40.3 36.0 35.5 34.5 33.7
  12        1    2    3    4    5
          29.9 29.3 28.9 28.5 26.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.2 34.6 29.2 35.6 36.4 36.9 36.7 36.6 37.1 37.1

          37.2 37.7 37.4 37.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.1 37.3 37.6 37.5 36.8 37.1 36.8 36.5 37.3 36.5

          34.8 30.8 35.0 30.3
  15        1    2    3    4    5    6    7    8    9   10

          28.6 31.3 26.4 26.6 26.8 26.7 26.5 26.1 25.7 30.7

  16        1    2    3    4    5    6    7    8    9   10

          30.6 25.6 26.1 26.3 26.6 26.6 26.6 26.3 31.2 28.6

  17        1    2    3    4    5    6    7
          29.7 29.9 29.4 28.7 29.2 29.5 25.1
  18        1    2    3    4    5    6    7
          24.9 29.5 29.2 28.6 29.3 29.9 29.5
1

 RECEIVER    LEQ(H)   L10
 52           53.9   55.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.3 28.4 28.9 29.2 30.0 31.5
   2        1    2    3    4    5    6
          34.4 35.6 35.9 40.2 41.3 39.5
   3        1
          33.5
   4        1    2    3
          29.4 28.8 24.2
   5        1    2    3    4    5    6
          21.3 18.8 18.9 23.9 28.8 20.4
   6        1    2    3
          11.0 10.1 13.8
   7        1    2    3    4
          13.9 10.0 11.0 22.0
   8        1    2    3    4    5    6
          28.3 23.9 18.9 18.9 21.5 23.2
   9        1    2    3
          29.2 30.0 34.6
  10        1
          38.3
  11        1    2    3    4    5    6
          41.1 40.0 35.8 35.3 34.3 33.5
  12        1    2    3    4    5
          29.8 29.2 28.8 28.4 26.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.1 34.5 29.1 35.5 36.3 36.8 36.6 36.5 37.0 37.0

          37.1 37.6 37.3 37.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.1 37.3 37.6 37.4 36.8 37.0 36.7 36.4 37.2 36.4

          34.7 30.6 34.9 30.2
  15        1    2    3    4    5    6    7    8    9   10

          28.5 31.2 26.2 26.5 26.6 26.5 26.3 25.9 25.5 30.5

  16        1    2    3    4    5    6    7    8    9   10

          30.5 25.4 25.9 26.1 26.4 26.4 26.4 26.1 31.1 28.4

  17        1    2    3    4    5    6    7
          29.5 29.8 29.2 28.5 29.0 29.4 25.0
  18        1    2    3    4    5    6    7
          24.7 29.4 29.1 28.5 29.1 29.7 29.4
1

 RECEIVER    LEQ(H)   L10
 53           53.7   55.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.2 28.3 28.8 29.1 29.8 31.3
   2        1    2    3    4    5    6
          34.3 35.4 35.7 39.9 41.0 38.8
   3        1
          32.7
   4        1    2    3
          28.8 28.4 24.5
   5        1    2    3    4    5    6
          21.9 19.4 19.6 24.5 17.9 14.0
   6        1    2    3
          10.7  9.9 13.9
   7        1    2    3    4
          13.9  9.8 10.7 12.6
   8        1    2    3    4    5    6
          19.6 24.6 19.6 19.4 21.8 23.5
   9        1    2    3
          28.8 29.4 33.7
  10        1
          37.7
  11        1    2    3    4    5    6
          40.8 39.7 35.6 35.2 34.2 33.4
  12        1    2    3    4    5
          29.7 29.1 28.7 28.3 26.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.0 34.4 29.0 35.4 36.2 36.6 36.5 36.4 36.9 36.9

          37.0 37.6 37.3 37.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.1 37.2 37.5 37.4 36.7 36.9 36.6 36.3 37.1 36.3

          34.6 30.5 34.8 30.1
  15        1    2    3    4    5    6    7    8    9   10

          28.3 31.0 26.1 26.3 26.4 26.3 26.1 25.8 25.3 30.3

  16        1    2    3    4    5    6    7    8    9   10

          30.3 25.2 25.7 25.9 26.2 26.3 26.2 25.9 30.9 28.3

  17        1    2    3    4    5    6    7
          29.4 29.6 29.1 28.4 28.9 29.2 24.8
  18        1    2    3    4    5    6    7
          24.6 29.2 28.9 28.3 29.0 29.6 29.2
1
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RECEIVER    LEQ(H)   L10
54           53.4   54.8

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.1 28.2 28.7 29.0 29.7 31.2
   2        1    2    3    4    5    6
          34.1 35.2 35.5 39.6 40.6 37.4
   3        1
          31.7
   4        1    2    3
          28.0 27.9 24.6
   5        1    2    3    4    5    6
          21.0 12.4 11.7 15.6 17.2 13.7
   6        1    2    3
          10.6 10.1 14.1
   7        1    2    3    4
          14.1 10.0 10.6 12.2
   8        1    2    3    4    5    6
          17.4 15.8 11.9 12.9 22.2 23.6
   9        1    2    3
          28.3 28.6 31.7
  10        1
          36.0
  11        1    2    3    4    5    6
          40.4 39.4 35.3 35.0 34.0 33.2
  12        1    2    3    4    5
          29.6 28.9 28.6 28.2 26.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.9 34.3 28.8 35.3 36.0 36.5 36.4 36.3 36.8 36.9

          37.0 37.5 37.2 37.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.0 37.2 37.4 37.3 36.6 36.8 36.5 36.2 37.0 36.1

          34.5 30.4 34.7 30.0
  15        1    2    3    4    5    6    7    8    9   10

          28.2 30.8 25.9 26.1 26.2 26.1 26.0 25.6 25.2 30.1

  16        1    2    3    4    5    6    7    8    9   10

          30.1 25.0 25.5 25.7 26.0 26.1 26.0 25.7 30.8 28.2

  17        1    2    3    4    5    6    7
          29.2 29.5 28.9 28.2 28.7 29.1 24.7
  18        1    2    3    4    5    6    7
          24.4 29.1 28.8 28.2 28.8 29.4 29.1
1

RECEIVER    LEQ(H)   L10
55           53.2   54.6

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.0 28.1 28.6 28.9 29.6 31.1
   2        1    2    3    4    5    6
          33.9 35.0 35.2 39.4 40.3 36.5
   3        1
          30.6
   4        1    2    3
          27.0 27.3 19.1
   5        1    2    3    4    5    6
          14.5 11.1 10.7 14.9 16.4 13.4
   6        1    2    3
          10.5 10.0 14.2
   7        1    2    3    4
          14.1  9.8 10.5 11.9
   8        1    2    3    4    5    6
          16.5 15.1 10.8 11.2 14.8 19.4
   9        1    2    3
          27.6 27.6 30.8
  10        1
          34.9
  11        1    2    3    4    5    6
          39.6 39.2 35.1 34.8 33.8 33.1
  12        1    2    3    4    5
          29.4 28.8 28.5 28.1 26.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.8 34.2 28.7 35.2 35.9 36.4 36.3 36.2 36.8 36.8

          36.9 37.5 37.2 37.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.0 37.1 37.4 37.2 36.5 36.7 36.4 36.1 36.9 36.0

          34.4 30.3 34.6 29.8
  15        1    2    3    4    5    6    7    8    9   10

          28.1 30.7 25.7 25.9 26.0 25.9 25.8 25.4 25.0 30.0

  16        1    2    3    4    5    6    7    8    9   10

          29.9 24.9 25.3 25.6 25.8 25.9 25.9 25.6 30.6 28.0

  17        1    2    3    4    5    6    7
          29.1 29.3 28.8 28.1 28.6 28.9 24.5
  18        1    2    3    4    5    6    7
          24.3 28.9 28.6 28.0 28.6 29.3 28.9
1

RECEIVER    LEQ(H)   L10
56           52.1   53.4

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.7 27.8 28.2 28.4 29.1 30.6
   2        1    2    3    4    5    6
          33.4 34.4 33.5 33.8 34.3 34.4
   3        1
          27.9
   4        1    2    3
          25.8 22.8 17.6
   5        1    2    3    4    5    6
          13.9 10.4 10.2 14.4 16.4 14.3
   6        1    2    3
          12.0 11.7 16.0
   7        1    2    3    4
          16.0 11.5 11.9 12.7
   8        1    2    3    4    5    6
          16.5 14.6 10.3 10.6 14.0 16.5
   9        1    2    3
          22.9 26.5 28.0
  10        1
          34.3
  11        1    2    3    4    5    6
          34.2 33.7 33.0 34.2 33.3 32.6
  12        1    2    3    4    5
          29.0 28.4 28.1 27.7 25.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.5 33.9 28.4 34.8 35.6 36.1 35.9 35.9 36.4 36.4

          36.5 37.1 36.9 36.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.6 36.8 37.0 36.9 36.2 36.4 36.0 35.7 36.5 35.7

          34.0 30.0 34.2 29.5
  15        1    2    3    4    5    6    7    8    9   10

          27.7 30.3 25.3 25.5 25.6 25.5 25.3 24.9 24.6 29.7

  16        1    2    3    4    5    6    7    8    9   10

          29.7 24.4 24.9 25.2 25.4 25.4 25.4 25.2 30.2 27.7

  17        1    2    3    4    5    6    7
          28.6 28.8 28.3 27.6 28.2 28.5 24.2
  18        1    2    3    4    5    6    7
          23.9 28.5 28.2 27.6 28.2 28.8 28.4
1

RECEIVER    LEQ(H)   L10
57           52.4   53.8

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.7 27.8 28.2 28.4 29.1 30.5
   2        1    2    3    4    5    6
          33.3 34.3 34.4 38.4 39.2 36.9
   3        1
          29.1
   4        1    2    3
          26.3 23.7 18.3
   5        1    2    3    4    5    6
          14.5 11.2 10.8 15.1 17.6 16.4
   6        1    2    3
          14.5 14.3 18.7
   7        1    2    3    4
          18.7 14.2 14.4 14.9
   8        1    2    3    4    5    6
          17.6 15.3 11.1 11.4 14.7 17.4
   9        1    2    3
          24.1 27.0 29.7
  10        1
          36.2
  11        1    2    3    4    5    6
          39.0 38.2 34.3 34.0 33.2 32.6
  12        1    2    3    4    5
          29.0 28.4 28.1 27.7 25.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.4 33.8 28.3 34.8 35.5 36.0 35.9 35.9 36.4 36.5

          36.6 35.6 34.0 32.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          33.0 34.0 35.7 37.0 36.2 36.4 36.0 35.7 36.5 35.6

          33.9 29.9 34.1 29.4
  15        1    2    3    4    5    6    7    8    9   10

          27.6 30.1 25.1 25.3 25.4 25.3 25.1 24.7 24.3 29.4

  16        1    2    3    4    5    6    7    8    9   10

          29.5 24.2 24.7 24.9 25.2 25.2 25.2 25.0 30.1 27.6

  17        1    2    3    4    5    6    7
          28.5 28.8 28.2 27.5 28.1 28.4 24.0
  18        1    2    3    4    5    6    7
          23.8 28.4 28.1 27.5 28.1 28.7 28.4
1

RECEIVER    LEQ(H)   L10
58           51.6   53.0

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          23.3 25.4 25.9 26.3 27.0 28.4
   2        1    2    3    4    5    6
          31.6 33.7 34.2 38.1 38.8 36.5
   3        1
          29.1
   4        1    2    3
          26.1 23.8 18.6
   5        1    2    3    4    5    6
          14.9 11.4 11.2 15.7 19.0 18.4
   6        1    2    3
          16.5 16.4 20.9
   7        1    2    3    4
          20.8 16.2 16.4 16.9
   8        1    2    3    4    5    6
          19.0 15.9 11.4 11.8 15.1 17.7
   9        1    2    3
          24.2 26.8 29.7
  10        1
          35.9
  11        1    2    3    4    5    6
          38.6 37.9 34.1 33.8 31.9 30.8
  12        1    2    3    4    5
          27.2 26.6 26.2 25.6 23.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.2 33.6 28.2 34.6 35.4 35.9 35.8 35.8 35.6 33.7

          32.9 32.8 32.2 31.8
```

```
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.8 32.2 32.8 33.3 33.5 35.4 35.9 35.6 36.3 35.5

          33.8 29.7 34.0 29.3
  15        1    2    3    4    5    6    7    8    9   10

          27.5 29.9 24.9 25.1 25.2 25.1 24.9 24.5 24.1 29.3

  16        1    2    3    4    5    6    7    8    9   10

          29.3 24.0 24.5 24.7 24.9 25.0 25.0 24.8 29.8 27.4

  17        1    2    3    4    5    6    7
          27.1 28.6 28.0 27.4 27.9 28.2 23.9
  18        1    2    3    4    5    6    7
          23.7 28.3 27.9 27.3 27.9 28.5 26.9
1

 RECEIVER    LEQ(H)   L10
 59           51.7   53.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.3 27.6 28.0 27.9 28.3 29.2
   2        1    2    3    4    5    6
          31.9 33.3 33.8 37.9 38.5 36.2
   3        1
          29.3
   4        1    2    3
          26.2 24.2 19.1
   5        1    2    3    4    5    6
          15.3 12.0 11.8 16.3 20.8 20.3
   6        1    2    3
          18.4 18.2 22.4
   7        1    2    3    4
          22.4 18.0 18.1 18.7
   8        1    2    3    4    5    6
          20.7 16.6 12.0 12.2 15.6 18.2
   9        1    2    3
          24.7 27.0 29.8
  10        1
          35.7
  11        1    2    3    4    5    6
          38.3 37.7 33.9 33.7 32.3 31.7
  12        1    2    3    4    5
          28.7 28.2 27.9 27.6 25.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.1 33.5 28.1 34.5 35.3 35.8 35.7 35.7 36.2 35.4

          34.1 33.1 32.2 31.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.8 32.2 33.0 34.6 35.3 36.2 35.8 35.5 36.2 35.4

          33.7 29.6 33.9 29.2
  15        1    2    3    4    5    6    7    8    9   10

          27.4 29.8 24.8 24.9 25.0 24.9 24.8 24.4 24.0 29.1

  16        1    2    3    4    5    6    7    8    9   10

          29.2 23.9 24.3 24.5 24.8 24.9 24.8 24.6 29.8 27.3

  17        1    2    3    4    5    6    7
          28.2 28.5 27.9 27.2 27.8 28.1 23.8
  18        1    2    3    4    5    6    7
          23.5 28.1 27.8 27.2 27.8 28.4 28.1
1

 RECEIVER    LEQ(H)   L10
 60           50.3   51.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          20.7 22.8 23.3 23.5 24.2 25.7
   2        1    2    3    4    5    6
          28.7 29.9 30.4 35.6 38.3 35.9
   3        1
          29.0
   4        1    2    3
          25.8 23.9 18.9
   5        1    2    3    4    5    6
          15.1 12.0 11.9 16.6 21.7 21.1
   6        1    2    3
          19.2 18.9 22.7
   7        1    2    3    4
          22.7 18.6 18.9 19.6
   8        1    2    3    4    5    6
          21.7 16.8 12.1 12.3 15.3 18.0
   9        1    2    3
          24.4 26.6 29.5
  10        1
          35.5
  11        1    2    3    4    5    6
          38.1 36.1 30.6 29.9 28.7 27.9
  12        1    2    3    4    5
          24.2 23.6 23.3 22.8 20.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.0 33.4 28.0 34.4 35.2 35.7 33.3 31.9 31.6 31.3

          31.4 32.1 31.8 31.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.6 31.8 32.0 31.7 31.1 31.6 32.1 33.1 36.2 35.2

          33.6 29.6 33.8 29.1
  15        1    2    3    4    5    6    7    8    9   10

          27.2 29.7 24.6 24.8 24.9 24.7 24.6 24.2 23.8 29.0

  16        1    2    3    4    5    6    7    8    9   10

          29.0 23.7 24.2 24.4 24.6 24.7 24.7 24.5 29.6 27.2

  17        1    2    3    4    5    6    7
          23.9 24.9 25.8 26.4 27.7 28.0 23.7
  18        1    2    3    4    5    6    7
          23.4 28.0 27.7 26.2 25.4 24.7 23.7
1

 RECEIVER    LEQ(H)   L10
 61           48.9   50.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          20.9 22.8 23.0 23.1 23.7 24.9
   2        1    2    3    4    5    6
          27.3 28.5 28.7 33.0 36.2 35.6
   3        1
          28.5
   4        1    2    3
          25.1 23.5 18.5
   5        1    2    3    4    5    6
          14.8 11.9 11.6 17.1 22.2 21.6
   6        1    2    3
          19.4 18.8 22.7
   7        1    2    3    4
          22.7 18.6 19.3 20.1
   8        1    2    3    4    5    6
          22.2 17.1 11.9 12.1 15.0 17.6
   9        1    2    3
          23.9 25.9 29.1
  10        1
          35.3
  11        1    2    3    4    5    6
          36.4 33.0 28.6 28.3 27.2 26.9
  12        1    2    3    4    5
          23.5 23.0 22.9 22.7 20.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.0 31.4 25.6 30.8 30.7 31.0 31.1 31.2 31.8 32.0

          32.1 32.6 32.3 32.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.0 32.2 32.5 32.4 31.7 31.8 31.3 30.8 31.4 30.9

          30.1 27.0 31.8 29.0
  15        1    2    3    4    5    6    7    8    9   10

          24.3 29.6 24.5 24.7 24.7 24.6 24.4 24.1 23.7 28.9

  16        1    2    3    4    5    6    7    8    9   10

          28.9 23.6 24.0 24.2 24.5 24.6 24.6 24.4 29.5 24.4

  17        1    2    3    4    5    6    7
          22.9 23.1 22.7 22.1 22.9 23.7 20.1
  18        1    2    3    4    5    6    7
          19.8 23.6 22.9 22.0 22.6 23.0 22.8
1

 RECEIVER    LEQ(H)   L10
 62           49.4   50.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          22.8 24.3 24.3 24.1 24.3 25.2
   2        1    2    3    4    5    6
          27.8 28.5 28.1 31.8 33.3 34.5
   3        1
          28.3
   4        1    2    3
          24.9 23.1 18.2
   5        1    2    3    4    5    6
          14.5 11.5 11.3 16.9 22.0 21.4
   6        1    2    3
          19.1 18.5 22.5
   7        1    2    3    4
          22.5 18.4 19.1 19.9
   8        1    2    3    4    5    6
          22.0 16.9 11.6 11.8 14.7 17.3
   9        1    2    3
          23.5 25.6 28.8
  10        1
          34.4
  11        1    2    3    4    5    6
          33.3 31.8 28.0 28.3 27.6 27.3
  12        1    2    3    4    5
          24.1 24.0 24.3 24.3 22.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          25.9 30.3 24.9 31.5 32.3 33.1 33.1 33.3 34.1 34.2

          34.3 34.7 34.6 34.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          34.5 34.4 34.5 34.5 33.8 34.0 33.4 32.9 33.4 32.3

          30.6 26.4 30.6 25.9
  15        1    2    3    4    5    6    7    8    9   10

          23.1 24.7 20.4 21.9 22.6 24.5 24.4 24.0 23.6 28.8

  16        1    2    3    4    5    6    7    8    9   10

          28.8 23.5 23.9 24.2 24.4 24.5 21.9 20.3 24.7 23.0

  17        1    2    3    4    5    6    7
          23.3 23.5 22.9 22.4 23.0 23.5 19.4
  18        1    2    3    4    5    6    7
          19.2 23.6 23.1 22.3 22.8 23.5 23.2
1

 RECEIVER    LEQ(H)   L10
 63           48.5   49.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          21.0 22.3 22.3 22.3 22.8 23.8
   2        1    2    3    4    5    6
          25.6 26.4 27.2 31.5 32.3 31.4
   3        1
          25.8
   4        1    2    3
          22.1 22.3 19.0
   5        1    2    3    4    5    6
          18.8 17.0 17.7 23.2 26.0 28.2
   6        1    2    3
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```
          22.9 20.6 25.1
   7        1    2    3    4
          25.4 21.0 23.9 27.1
   8        1    2    3    4    5    6
          26.0 23.3 17.5 16.9 18.7 17.7
   9        1    2    3
          22.6 22.5 26.0
  10        1
          31.7
  11        1    2    3    4    5    6
          32.3 31.5 27.3 26.5 25.4 25.8
  12        1    2    3    4    5
          22.7 22.2 22.3 22.2 20.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.4 32.8 27.0 30.8 30.3 31.0 31.1 31.3 32.0 33.6

          35.6 31.8 31.3 31.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.0 31.3 32.1 35.9 32.9 31.8 31.3 30.8 31.4 30.4

          30.1 28.0 33.1 28.5
  15        1    2    3    4    5    6    7    8    9   10

          24.0 28.8 23.8 24.0 24.0 24.0 23.8 23.4 23.0 28.3

  16        1    2    3    4    5    6    7    8    9   10

          28.3 22.9 23.4 23.6 23.8 23.9 23.9 23.7 28.8 24.3

  17        1    2    3    4    5    6    7
          21.8 22.1 21.5 21.2 21.9 23.0 19.9
  18        1    2    3    4    5    6    7
          19.6 23.0 21.9 21.1 21.5 22.0 21.7
1

 RECEIVER    LEQ(H)   L10
 64           49.8   51.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          23.4 25.3 25.6 25.5 25.8 25.6
   2        1    2    3    4    5    6
          26.8 27.4 26.4 31.1 32.5 31.7
   3        1
          26.3
   4        1    2    3
          22.3 22.5 19.4
   5        1    2    3    4    5    6
          19.5 17.7 18.3 23.6 27.0 28.2
   6        1    2    3
          22.8 20.6 25.7
   7        1    2    3    4
          26.0 20.9 23.6 26.8
   8        1    2    3    4    5    6
          26.8 23.6 18.3 17.6 19.3 18.1
   9        1    2    3
          22.8 22.8 26.3
  10        1
          31.7
  11        1    2    3    4    5    6
          32.7 31.1 26.5 27.2 26.7 27.2
  12        1    2    3    4    5
          25.8 25.7 25.8 25.5 23.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.4 32.7 27.3 33.7 34.5 34.9 34.8 34.8 35.4 33.9

          33.1 32.5 31.7 35.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          35.3 31.8 32.4 33.3 33.7 35.4 35.0 34.6 35.4 34.5

          32.9 28.8 33.1 28.4
  15        1    2    3    4    5    6    7    8    9   10

          25.7 27.9 23.7 23.8 23.9 23.8 23.7 23.4 23.0 28.1

  16        1    2    3    4    5    6    7    8    9   10

          28.1 22.9 23.3 23.5 23.7 23.8 23.8 23.5 27.9 25.6

  17        1    2    3    4    5    6    7
          22.9 23.1 22.6 22.3 23.4 24.3 20.6
  18        1    2    3    4    5    6    7
          20.5 24.4 23.5 22.3 22.6 23.1 22.9
1

 RECEIVER    LEQ(H)   L10
 65           50.3   51.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          21.7 24.4 25.8 27.2 27.8 29.1
   2        1    2    3    4    5    6
          31.7 32.5 32.4 32.2 35.7 34.2
   3        1
          27.6
   4        1    2    3
          23.8 23.7 20.6
   5        1    2    3    4    5    6
          21.1 19.1 19.4 23.9 28.0 28.2
   6        1    2    3
          24.8 22.5 27.5
   7        1    2    3    4
          27.7 23.1 24.9 26.6
   8        1    2    3    4    5    6
          27.9 24.0 19.3 19.0 20.9 19.4
   9        1    2    3
          24.1 24.4 27.7
  10        1
          33.7
  11        1    2    3    4    5    6
          35.9 32.3 31.5 32.3 31.6 31.1
  12        1    2    3    4    5
          27.6 27.2 26.2 24.8 22.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.3 32.7 27.3 33.7 34.4 34.9 34.8 34.8 35.5 31.5

          31.0 31.4 31.1 30.7

  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.7 31.0 31.3 31.3 31.4 33.7 35.0 34.6 35.4 34.5

          32.9 28.8 33.0 28.4
  15        1    2    3    4    5    6    7    8    9   10

          26.4 28.7 23.6 23.8 23.8 23.7 23.6 23.3 22.9 28.1

  16        1    2    3    4    5    6    7    8    9   10

          28.1 22.8 23.2 23.4 23.6 23.7 23.7 23.5 28.7 26.4

  17        1    2    3    4    5    6    7
          27.1 27.3 26.8 26.1 26.7 27.1 22.7
  18        1    2    3    4    5    6    7
          22.6 27.1 26.7 26.1 26.7 27.2 26.9
1

 RECEIVER    LEQ(H)   L10
 66           51.1   52.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.8 26.8 27.1 27.3 27.9 29.1
   2        1    2    3    4    5    6
          31.8 32.5 32.5 36.1 36.5 34.3
   3        1
          29.6
   4        1    2    3
          25.5 25.0 21.5
   5        1    2    3    4    5    6
          21.7 19.4 19.2 24.6 28.7 28.0
   6        1    2    3
          24.9 24.0 27.7
   7        1    2    3    4
          27.6 23.8 24.7 26.5
   8        1    2    3    4    5    6
          28.9 24.7 19.2 19.3 21.5 20.3
   9        1    2    3
          25.5 26.3 28.9
  10        1
          34.5
  11        1    2    3    4    5    6
          36.4 35.9 32.4 32.3 31.6 31.2
  12        1    2    3    4    5
          27.7 27.2 27.1 26.8 24.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.3 32.7 27.3 33.7 34.5 35.0 34.9 34.9 35.5 35.6

          34.2 33.5 32.5 31.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.8 32.5 33.5 34.6 35.3 35.5 35.0 34.7 35.4 34.5

          32.9 28.8 33.1 28.4
  15        1    2    3    4    5    6    7    8    9   10

          26.5 28.8 23.5 23.8 23.8 23.6 23.5 23.1 22.8 28.0

  16        1    2    3    4    5    6    7    8    9   10

          28.0 22.7 23.1 23.3 23.6 23.7 23.7 23.4 28.7 26.4

  17        1    2    3    4    5    6    7
          27.1 27.3 26.8 26.1 26.7 27.1 22.8
  18        1    2    3    4    5    6    7
          22.6 27.1 26.7 26.1 26.7 27.3 27.0
1

 RECEIVER    LEQ(H)   L10
 67           51.7   53.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.9 26.9 27.2 27.3 27.9 29.2
   2        1    2    3    4    5    6
          31.8 32.5 32.5 36.1 36.5 34.2
   3        1
          29.8
   4        1    2    3
          26.9 26.1 21.8
   5        1    2    3    4    5    6
          21.7 19.4 19.3 25.8 29.7 27.8
   6        1    2    3
          24.7 23.9 27.5
   7        1    2    3    4
          27.4 23.6 24.6 26.3
   8        1    2    3    4    5    6
          30.0 25.7 19.3 19.3 21.4 21.0
   9        1    2    3
          26.7 27.6 29.8
  10        1
          34.6
  11        1    2    3    4    5    6
          36.4 36.0 32.4 32.3 31.7 31.2
  12        1    2    3    4    5
          27.7 27.3 27.1 26.8 24.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.3 32.7 27.3 33.7 34.5 35.0 34.9 34.9 35.6 35.7

          35.9 36.6 36.4 36.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.2 36.3 36.5 36.2 35.4 35.5 35.1 34.7 35.4 34.6

          32.9 28.8 33.1 28.4
  15        1    2    3    4    5    6    7    8    9   10

          26.5 28.8 23.6 23.7 23.8 23.6 23.5 23.1 22.7 27.9

  16        1    2    3    4    5    6    7    8    9   10

          27.9 22.6 23.1 23.3 23.6 23.7 23.7 23.5 28.7 26.4

  17        1    2    3    4    5    6    7
          27.1 27.3 26.8 26.2 26.7 27.1 22.8
  18        1    2    3    4    5    6    7
          22.6 27.2 26.8 26.1 26.7 27.3 27.0
1
```

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RECEIVER    LEQ(H)   L10
68           51.7   53.1

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.0 27.0 27.3 27.4 28.0 29.2
   2        1    2    3    4    5    6
          31.9 32.6 32.5 36.1 36.5 34.2
   3        1
          29.7
   4        1    2    3
          27.7 26.9 22.3
   5        1    2    3    4    5    6
          21.4 19.1 19.3 26.2 30.5 27.6
   6        1    2    3
          24.5 23.8 27.4
   7        1    2    3    4
          27.3 23.5 24.3 26.1
   8        1    2    3    4    5    6
          30.4 26.0 19.3 19.1 21.1 21.5
   9        1    2    3
          27.4 28.3 30.2
  10        1
          34.5
  11        1    2    3    4    5    6
          36.3 36.0 32.4 32.4 31.7 31.3
  12        1    2    3    4    5
          27.8 27.3 27.2 26.9 25.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.4 32.8 27.3 33.8 34.5 35.0 35.0 35.0 35.6 35.8

          36.0 36.7 36.5 36.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.4 36.4 36.6 36.3 35.5 35.6 35.1 34.8 35.5 34.6

          32.9 28.9 33.1 28.4
  15        1    2    3    4    5    6    7    8    9   10

          26.5 28.8 23.6 23.7 23.8 23.6 23.5 23.1 22.7 27.9

  16        1    2    3    4    5    6    7    8    9   10

          27.9 22.6 23.1 23.3 23.5 23.6 23.7 23.5 28.7 26.5

  17        1    2    3    4    5    6    7
          27.2 27.4 26.8 26.2 26.8 27.2 22.8
  18        1    2    3    4    5    6    7
          22.6 27.2 26.8 26.1 26.7 27.3 27.1
1

RECEIVER    LEQ(H)   L10
69           51.8   53.1

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.1 27.0 27.3 27.5 28.0 29.3
   2        1    2    3    4    5    6
          31.9 32.6 32.5 36.1 36.4 34.2
   3        1
          29.8
   4        1    2    3
          28.5 27.6 22.8
   5        1    2    3    4    5    6
          21.0 19.0 19.3 26.3 30.2 27.5
   6        1    2    3
          24.4 23.6 27.3
   7        1    2    3    4
          27.1 23.2 24.2 26.0
   8        1    2    3    4    5    6
          30.1 26.2 19.3 18.9 20.9 22.0
   9        1    2    3
          28.1 28.8 30.6
  10        1
          34.6
  11        1    2    3    4    5    6
          36.3 35.9 32.4 32.4 31.8 31.3
  12        1    2    3    4    5
          27.9 27.4 27.3 27.0 25.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.4 32.8 27.3 33.8 34.5 35.1 35.0 35.1 35.7 35.9

          36.1 36.8 36.6 36.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.5 36.5 36.7 36.4 35.6 35.6 35.2 34.8 35.5 34.6

          32.9 28.9 33.2 28.4
  15        1    2    3    4    5    6    7    8    9   10

          26.5 28.8 23.6 23.7 23.8 23.6 23.4 23.1 22.7 28.0

  16        1    2    3    4    5    6    7    8    9   10

          28.0 22.6 23.0 23.3 23.5 23.6 23.6 23.5 28.7 26.5

  17        1    2    3    4    5    6    7
          27.2 27.4 26.9 26.2 26.8 27.2 22.8
  18        1    2    3    4    5    6    7
          22.6 27.2 26.8 26.2 26.8 27.4 27.1
1

RECEIVER    LEQ(H)   L10
70           51.8   53.2

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.1 27.1 27.4 27.6 28.1 29.4
   2        1    2    3    4    5    6
          32.0 32.6 32.5 36.1 36.4 34.3
   3        1
          29.7
   4        1    2    3
          29.1 28.0 22.9
   5        1    2    3    4    5    6
          20.6 18.7 18.9 25.8 30.1 27.4
   6        1    2    3
          24.2 23.5 26.7
   7        1    2    3    4
          26.6 23.2 24.0 25.8
   8        1    2    3    4    5    6
          30.1 25.8 19.0 18.6 20.5 22.2
   9        1    2    3
          28.5 29.0 31.0
  10        1
          34.6
  11        1    2    3    4    5    6
          36.2 35.9 32.4 32.4 31.8 31.4
  12        1    2    3    4    5
          27.9 27.5 27.4 27.1 25.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.4 32.8 27.4 33.8 34.6 35.1 35.1 35.1 35.8 35.9

          36.2 36.9 36.7 36.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.6 36.7 36.8 36.5 35.7 35.7 35.3 34.9 35.6 34.7

          33.0 28.9 33.2 28.5
  15        1    2    3    4    5    6    7    8    9   10

          26.6 28.8 23.6 23.7 23.7 23.6 23.4 23.0 22.7 28.0

  16        1    2    3    4    5    6    7    8    9   10

          28.0 22.6 23.0 23.2 23.5 23.6 23.6 23.5 28.7 26.5

  17        1    2    3    4    5    6    7
          27.3 27.5 26.9 26.3 26.8 27.2 22.9
  18        1    2    3    4    5    6    7
          22.6 27.2 26.9 26.2 26.8 27.4 27.2
1

RECEIVER    LEQ(H)   L10
71           53.6   55.0

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.5 27.6 28.0 28.2 29.0 30.5
   2        1    2    3    4    5    6
          33.4 34.5 34.9 39.4 40.2 38.0
   3        1
          36.8
   4        1    2    3
          36.7 35.8 33.5
   5        1    2    3    4    5    6
          30.1 25.5 24.6 28.0 29.0 25.2
   6        1    2    3
          21.6 20.5 23.9
   7        1    2    3    4
          24.0 20.3 21.5 23.7
   8        1    2    3    4    5    6
          29.1 28.4 25.0 25.9 30.6 32.4
   9        1    2    3
          35.7 35.8 37.1
  10        1
          37.5
  11        1    2    3    4    5    6
          40.0 39.2 34.8 34.3 33.3 32.5
  12        1    2    3    4    5
          28.9 28.2 27.9 27.5 25.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.8 34.1 28.7 35.1 35.8 36.2 35.9 35.8 36.2 36.2

          36.2 36.7 36.3 36.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.0 36.3 36.6 36.5 35.9 36.2 36.0 35.8 36.6 35.9

          34.3 30.2 34.5 29.9
  15        1    2    3    4    5    6    7    8    9   10

          28.0 30.8 25.9 26.2 26.4 26.4 26.3 26.0 25.6 30.7

  16        1    2    3    4    5    6    7    8    9   10

          30.7 25.5 25.9 26.1 26.3 26.3 26.1 25.8 30.7 27.9

  17        1    2    3    4    5    6    7
          28.6 28.9 28.5 27.9 28.4 28.8 24.5
  18        1    2    3    4    5    6    7
          24.2 28.8 28.4 27.8 28.3 28.8 28.4
1

RECEIVER    LEQ(H)   L10
72           53.9   55.3

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.3 27.4 27.8 28.1 28.8 30.2
   2        1    2    3    4    5    6
          33.2 34.3 34.7 39.2 38.6 38.3
   3        1
          36.9
   4        1    2    3
          37.5 38.1 35.5
   5        1    2    3    4    5    6
          31.7 28.3 28.0 32.1 34.0 29.1
   6        1    2    3
          24.4 22.9 26.1
   7        1    2    3    4
          26.3 22.9 24.7 28.3
   8        1    2    3    4    5    6
          33.9 32.2 27.9 28.2 31.6 34.3
   9        1    2    3
          38.6 37.2 38.5
  10        1
          39.2
  11        1    2    3    4    5    6
          38.7 39.0 34.6 34.1 33.1 32.3
  12        1    2    3    4    5
          28.7 28.0 27.7 27.3 25.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.7 34.1 28.6 35.0 35.7 36.1 35.8 35.7 36.1 36.0

          36.0 36.5 36.1 35.8
```

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  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          35.8 36.0 36.4 36.3 35.8 36.1 35.8 35.6 36.5 35.8

          34.2 30.2 34.5 29.8
  15        1    2    3    4    5    6    7    8    9   10

          27.9 30.6 25.8 26.1 26.3 26.3 26.2 25.9 25.6 30.8

  16        1    2    3    4    5    6    7    8    9   10

          30.8 25.5 25.9 26.0 26.2 26.2 26.1 25.7 30.6 27.8

  17        1    2    3    4    5    6    7
          28.4 28.7 28.3 27.7 28.3 28.7 24.4
  18        1    2    3    4    5    6    7
          24.1 28.7 28.3 27.6 28.2 28.7 28.2
1

 RECEIVER    LEQ(H)   L10
 73           53.9   55.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.0 27.1 27.5 27.7 28.4 29.9
   2        1    2    3    4    5    6
          32.8 33.9 34.3 38.4 37.2 38.4
   3        1
          36.9
   4        1    2    3
          38.2 41.1 36.0
   5        1    2    3    4    5    6
          32.1 28.7 28.4 32.5 34.3 31.0
   6        1    2    3
          27.5 26.5 29.9
   7        1    2    3    4
          29.8 26.2 27.3 29.4
   8        1    2    3    4    5    6
          34.3 32.6 28.3 28.6 32.0 34.7
   9        1    2    3
          41.0 38.1 38.7
  10        1
          39.1
  11        1    2    3    4    5    6
          38.1 38.3 34.2 33.7 32.7 32.0
  12        1    2    3    4    5
          28.3 27.7 27.4 27.0 25.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.5 33.9 28.4 34.8 35.4 35.8 35.6 35.4 35.8 35.7

          35.7 36.2 35.7 32.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          33.0 35.7 36.1 36.1 35.5 35.8 35.6 35.4 36.3 35.6

          33.9 30.0 34.3 29.6
  15        1    2    3    4    5    6    7    8    9   10

          27.6 30.4 25.6 25.9 26.1 26.2 26.1 25.8 25.5 30.7

  16        1    2    3    4    5    6    7    8    9   10

          30.7 25.4 25.8 25.9 26.0 26.0 25.9 25.5 30.4 27.6

  17        1    2    3    4    5    6    7
          28.0 28.4 28.0 27.4 28.0 28.4 24.1
  18        1    2    3    4    5    6    7
          23.9 28.4 28.0 27.3 27.8 28.3 27.9
1

 RECEIVER    LEQ(H)   L10
 74           53.8   55.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.7 26.7 27.1 27.4 28.0 29.5
   2        1    2    3    4    5    6
          32.3 33.4 33.8 36.3 36.4 37.8
   3        1
          36.9
   4        1    2    3
          38.9 41.8 36.4
   5        1    2    3    4    5    6
          32.5 29.1 28.8 33.0 34.7 31.4
   6        1    2    3
          27.9 26.8 29.0
   7        1    2    3    4
          29.9 26.6 27.7 29.8
   8        1    2    3    4    5    6
          34.7 33.0 28.7 29.1 32.5 35.1
   9        1    2    3
          41.5 40.4 38.7
  10        1
          38.7
  11        1    2    3    4    5    6
          37.0 36.7 33.7 33.3 32.3 31.6
  12        1    2    3    4    5
          27.9 27.3 27.1 26.7 24.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.3 33.7 28.1 34.6 35.2 35.5 35.3 35.1 35.5 35.4

          35.4 35.8 35.4 31.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.5 35.4 35.7 35.7 35.1 35.5 35.2 35.1 36.0 35.3

          33.7 29.7 34.1 29.4
  15        1    2    3    4    5    6    7    8    9   10

          27.4 30.1 25.4 25.7 25.9 25.9 25.9 25.7 25.4 30.6

  16        1    2    3    4    5    6    7    8    9   10

          30.5 25.2 25.6 25.7 25.8 25.8 25.6 25.2 30.1 27.4

  17        1    2    3    4    5    6    7
          27.6 28.0 27.6 27.0 27.7 28.1 23.9
  18        1    2    3    4    5    6    7
          23.6 28.1 27.7 27.0 27.5 27.9 27.5
1

 RECEIVER    LEQ(H)   L10
 75           53.0   54.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          22.3 24.3 24.6 24.6 25.0 26.1
   2        1    2    3    4    5    6
          28.9 30.2 30.5 33.6 34.9 36.9
   3        1
          36.6
   4        1    2    3
          39.1 42.0 36.8
   5        1    2    3    4    5    6
          33.0 29.6 29.2 33.4 35.1 31.8
   6        1    2    3
          28.3 27.2 30.5
   7        1    2    3    4
          30.5 27.0 28.2 30.2
   8        1    2    3    4    5    6
          35.0 33.4 29.1 29.5 32.9 35.5
   9        1    2    3
          41.8 40.6 38.4
  10        1
          36.5
  11        1    2    3    4    5    6
          35.2 34.1 30.5 30.3 29.1 28.5
  12        1    2    3    4    5
          25.2 24.9 24.8 24.5 22.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.1 33.4 27.9 34.2 34.9 35.2 34.9 34.8 34.4 32.7

          31.5 31.0 30.2 29.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.6 30.2 31.0 31.8 32.5 34.4 34.9 34.7 35.7 35.0

          33.4 29.5 33.8 29.2
  15        1    2    3    4    5    6    7    8    9   10

          27.1 29.9 25.0 25.4 25.6 25.6 25.7 25.4 25.1 30.4

  16        1    2    3    4    5    6    7    8    9   10

          30.3 25.0 25.4 25.5 25.5 25.5 25.3 24.9 29.8 27.0

  17        1    2    3    4    5    6    7
          24.8 26.2 27.2 26.7 27.3 27.8 23.5
  18        1    2    3    4    5    6    7
          23.3 27.8 27.3 26.6 27.1 26.1 24.7
1

 RECEIVER    LEQ(H)   L10
 76           49.5   51.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.1 26.1 26.5 26.7 26.3 25.8
   2        1    2    3    4    5    6
          26.7 27.4 22.2 25.2 25.4 25.7
   3        1
          25.8
   4        1    2    3
          25.7 36.3 34.9
   5        1    2    3    4    5    6
          28.3 25.0 25.0 30.4 34.4 31.2
   6        1    2    3
          27.8 26.8 30.2
   7        1    2    3    4
          30.2 26.6 27.7 29.6
   8        1    2    3    4    5    6
          34.3 30.7 25.5 25.4 28.8 33.9
   9        1    2    3
          36.6 25.8 25.5
  10        1
          25.7
  11        1    2    3    4    5    6
          25.6 25.3 22.3 26.8 26.8 27.9
  12        1    2    3    4    5
          26.8 26.7 26.4 26.1 24.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.7 28.0 22.5 28.8 29.4 29.8 33.5 34.5 34.9 34.9

          34.9 31.7 30.4 29.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.7 30.3 31.6 34.2 34.6 34.9 34.6 33.3 30.3 29.5

          28.0 24.0 28.3 23.7
  15        1    2    3    4    5    6    7    8    9   10

          21.3 23.6 18.7 19.0 19.2 19.2 19.3 19.1 18.9 24.5

  16        1    2    3    4    5    6    7    8    9   10

          24.4 18.8 19.1 19.1 19.1 19.1 18.9 18.6 23.6 21.2

  17        1    2    3    4    5    6    7
          23.6 23.7 19.6 19.4 20.5 21.4 17.5
  18        1    2    3    4    5    6    7
          17.3 21.4 20.6 19.4 19.5 23.9 23.7
1

 RECEIVER    LEQ(H)   L10
 77           49.3   50.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          20.4 22.3 22.6 22.5 22.7 23.6
   2        1    2    3    4    5    6
          26.2 26.8 27.3 25.6 23.3 23.5
   3        1
          23.5
   4        1    2    3
          24.1 39.7 30.3
   5        1    2    3    4    5    6
          26.7 23.8 24.0 30.2 34.3 31.2
   6        1    2    3
```

```
          27.9 26.8 30.3
   7        1    2    3    4
          30.2 26.5 27.7 29.6
   8        1    2    3    4    5    6
          34.2 30.0 24.2 23.8 26.7 29.8
   9        1    2    3
          39.5 23.8 23.2
  10        1
          23.4
  11        1    2    3    4    5    6
          23.4 24.4 27.7 26.7 26.2 25.9
  12        1    2    3    4    5
          22.8 22.8 22.9 22.7 20.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.2 27.5 22.0 28.3 30.9 34.6 34.3 34.2 34.4 31.2

          30.1 30.2 29.8 29.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.2 29.7 30.1 30.3 30.9 34.3 34.3 34.1 35.1 30.3

          27.5 23.5 27.8 23.3
  15        1    2    3    4    5    6    7    8    9   10

          20.3 22.4 17.3 17.6 17.8 17.8 17.9 17.8 17.7 23.5

  16        1    2    3    4    5    6    7    8    9   10

          23.4 17.6 17.8 17.7 17.7 17.7 17.5 17.3 22.4 20.3

  17        1    2    3    4    5    6    7
          22.2 22.7 22.6 24.2 22.1 20.2 16.4
  18        1    2    3    4    5    6    7
          16.2 20.3 23.1 23.9 22.5 22.7 22.1
1

 RECEIVER    LEQ(H)   L10
 78           40.1   41.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           6.9  9.2  9.7  9.5  9.6  8.6
   2        1    2    3    4    5    6
          10.7 11.8 12.2 16.8 18.5 18.9
   3        1
          19.2
   4        1    2    3
          22.6 26.3 24.1
   5        1    2    3    4    5    6
          21.7 19.2 19.5 24.9 28.7 26.5
   6        1    2    3
          23.8 23.7 26.6
   7        1    2    3    4
          26.9 23.2 23.5 24.9
   8        1    2    3    4    5    6
          28.6 24.7 19.3 19.0 21.6 22.7
   9        1    2    3
          26.1 22.5 18.8
  10        1
          18.8
  11        1    2    3    4    5    6
          18.4 16.7 12.2 11.7 10.7 10.1
  12        1    2    3    4    5
           8.6  9.3  9.6  9.5  7.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           9.5 13.6  8.1 14.3 14.7 14.8 14.3 14.0 18.0 18.0

          20.7 25.3 24.0 23.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.9 23.9 25.2 20.3 17.7 18.0 14.2 14.2 15.3 14.8

          13.5  9.6 14.0  9.5
  15        1    2    3    4    5    6    7    8    9   10

           7.0 10.1  5.4  5.9  6.2  6.3  6.5  6.5  6.4 12.2

  16        1    2    3    4    5    6    7    8    9   10

          12.0  6.3  6.4  6.3  6.1  6.1  5.8  5.2 10.0  7.0

  17        1    2    3    4    5    6    7
           6.1  6.6  6.4  6.0  6.8  7.5  3.4
  18        1    2    3    4    5    6    7
           3.1  7.4  6.8  6.0  6.3  6.5  6.0
1

 RECEIVER    LEQ(H)   L10
 79           45.5   48.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           6.9  8.8  9.1  9.1  9.5 10.5
   2        1    2    3    4    5    6
          13.1 13.8 13.9 17.5 18.1 18.7
   3        1
          25.9
   4        1    2    3
          34.1 37.2 27.2
   5        1    2    3    4    5    6
          25.1 22.7 22.8 27.7 30.9 31.0
   6        1    2    3
          28.3 27.3 30.6
   7        1    2    3    4
          30.6 27.1 28.1 29.8
   8        1    2    3    4    5    6
          30.6 27.7 22.9 22.7 25.2 26.2
   9        1    2    3
          37.5 37.6 29.1
  10        1
          18.5
  11        1    2    3    4    5    6
          18.1 17.6 13.9 13.7 13.1 12.7
  12        1    2    3    4    5
           9.4  9.1  9.0  8.8  7.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.6 16.7 11.1 17.4 17.9 18.1 17.8 17.6 18.0 17.8

          17.8 18.1 17.7 17.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.3 17.6 18.0 18.1 17.6 17.9 17.7 17.6 18.6 18.0

          16.6 12.6 17.1 12.6
  15        1    2    3    4    5    6    7    8    9   10

           9.8 12.4  7.5  7.8  8.0  8.1  8.2  8.1  8.0 13.7

  16        1    2    3    4    5    6    7    8    9   10

          13.7  7.9  8.0  8.0  8.0  7.9  7.7  7.4 12.4  9.8

  17        1    2    3    4    5    6    7
           8.8  9.2  8.9  8.5  9.4 10.1  6.1
  18        1    2    3    4    5    6    7
           5.8 10.1  9.4  8.5  8.8  9.2  8.7
1

 RECEIVER    LEQ(H)   L10
 80           46.0   48.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           5.6  7.5  7.8  7.7  8.2  9.3
   2        1    2    3    4    5    6
          11.8 12.5 12.6 16.4 17.5 18.8
   3        1
          31.9
   4        1    2    3
          34.6 37.2 27.7
   5        1    2    3    4    5    6
          25.4 22.9 23.1 28.0 30.5 31.5
   6        1    2    3
          28.7 27.6 30.9
   7        1    2    3    4
          30.9 27.3 28.5 29.8
   8        1    2    3    4    5    6
          30.4 28.0 23.1 23.0 25.5 26.6
   9        1    2    3
          37.4 37.9 33.5
  10        1
          18.5
  11        1    2    3    4    5    6
          17.4 16.4 12.6 12.4 11.8 11.4
  12        1    2    3    4    5
           8.1  7.8  7.7  7.5  5.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          11.0 15.2  9.7 15.9 16.4 16.7 16.4 16.3 16.6 16.4

          16.3 16.7 16.3 15.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.8 16.2 16.6 16.7 16.2 16.6 16.4 16.2 17.1 16.5

          15.1 11.2 15.6 11.1
  15        1    2    3    4    5    6    7    8    9   10

           8.3 10.9  6.0  6.3  6.6  6.7  6.7  9.1 19.0 28.2

  16        1    2    3    4    5    6    7    8    9   10

          28.0 18.8  6.6  6.6  6.6  6.4  6.3  5.9 10.9  8.3

  17        1    2    3    4    5    6    7
           7.5  7.9  7.6  7.2  8.0  8.7  4.6
  18        1    2    3    4    5    6    7
           4.4  8.7  8.0  7.1  7.5  7.9  7.4
1

 RECEIVER    LEQ(H)   L10
 81           47.3   49.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           3.9  5.8  6.1  6.1  6.6  7.9
   2        1    2    3    4    5    6
          10.7 11.7 11.9 21.7 22.9 26.2
   3        1
          34.3
   4        1    2    3
          36.1 35.8 29.0
   5        1    2    3    4    5    6
          26.3 23.7 23.9 28.6 31.0 29.8
   6        1    2    3
          29.1 28.0 31.3
   7        1    2    3    4
          31.2 27.8 28.9 28.3
   8        1    2    3    4    5    6
          30.9 28.7 23.9 23.7 26.3 27.9
   9        1    2    3
          36.3 38.8 36.0
  10        1
          28.8
  11        1    2    3    4    5    6
          23.2 22.3 11.9 11.5 10.6 10.0
  12        1    2    3    4    5
           6.5  6.1  6.0  5.8  3.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.1 27.2 21.5 27.9 28.4 27.5 14.6 14.5 14.9 14.8

          14.8 15.2 14.8 14.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.4 14.8 15.1 15.1 14.6 14.8 14.6 14.4 27.9 28.5

          27.0 23.0 27.5 23.2
  15        1    2    3    4    5    6    7    8    9   10

          19.7 22.5 17.8 18.3 18.9 19.2 23.6 24.6 24.3 29.6

  16        1    2    3    4    5    6    7    8    9   10

          29.6 24.2 24.5 23.3 19.1 18.7 18.3 17.7 22.5 19.8

  17        1    2    3    4    5    6    7
           6.1  6.5  6.1 16.7 18.5 19.5 15.9
  18        1    2    3    4    5    6    7
          15.7 19.6 18.6 16.1  6.0  6.4  5.9
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****
STAM2VU1
Version 1.20
****
STAMINA 2.0/BCR
MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
TRAFFIC NOISE PREDICTION MODEL

MODIFIED TO:
1. ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
2. CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
3. PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.

****

MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
AND BOWLBY & ASSOCIATES, INC.
2014 BROADWAY, SUITE 210
NASHVILLE, TN 37203-2425
TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE *.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.

(INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH)

Meadowood - Single-Family 1st Floor (Receivers 82-121)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

HEIGHT	CODE	DESCRIPTION
.00	1	RECEIVER HEIGHT ADJUSTMENT
1.00	2	A-WEIGHTED SOUND LEVEL ONLY
.00	3	HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
.00	4	HEIGHT ADJUSTMENT FOR HEAVY TRUCKS (HT)
.00	5	HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS (MT)
.000	6	HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4) CARS--CALVENO C0 = 5.20 C1 = 38.80 S0 = .00
2.300	7	HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5) MT--CALVENO C0 = 35.30 C1 = 25.60 S0 = .00
8.000	8	HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6) HT--CALVENO C0 = 50.40 C1 = 19.20 S0 = .00

0ROADWAY 1 HRC nb (76 to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6287767.4	2067284.0	276.0	0
2	6287704.7	2067456.2	276.0	0
3	6287629.7	2067702.5	279.0	0
4	6287568.8	2067936.5	284.0	0
5	6287512.3	2068148.3	284.0	0
6	6287446.9	2068359.4	282.0	0
7	6287374.5	2068606.6	279.0	0

0ROADWAY 2 HRC nb (Pankey to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
7	6287374.5	2068606.6	279.0	0
8	6287273.9	2068832.6	278.0	0
9	6287137.9	2069057.7	278.0	0
10	6287017.0	2069263.4	280.0	0
11	6286760.9	2069688.9	285.0	0
12	6286533.2	2070137.4	290.0	0
13	6286310.7	2070587.7	296.0	0

0ROADWAY 3 HRC nb (School to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
13	6286310.7	2070587.7	296.0	0
14	6286086.4	2071030.0	302.0	0

0ROADWAY 4 HRC nb (26 to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286086.4	2071030.0	302.0	0
15	6285859.5	2071475.8	308.0	0
16	6285540.8	2072106.2	311.0	0
17	6285403.1	2072385.2	310.0	0

0ROADWAY 5 HRC nb (Harvest Glen to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
17	6285403.1	2072385.2	310.0	0
18	6285328.1	2072574.1	310.0	0
19	6285298.0	2072673.9	310.0	0
20	6285270.7	2072773.6	311.0	0
21	6285221.2	2073078.2	314.0	0
22	6285201.8	2073673.3	322.0	0
23	6285188.6	2074037.0	338.0	0

0ROADWAY 6 HRC nb (Longspur to Baltimore)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
23	6285188.6	2074037.0	338.0	0
24	6285145.3	2074308.9	346.0	0
25	6285056.1	2074546.4	351.0	0
26	6284650.0	2075149.4	356.0	0

0ROADWAY 7 HRC sb (Baltimore to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6284621.8	2075132.6	356.0	0
2	6285015.5	2074527.9	351.0	0
3	6285099.4	2074300.1	346.0	0
4	6285141.8	2074033.5	338.0	0
5	6285159.4	2073671.5	322.0	0

0ROADWAY 8 HRC sb (Longspur to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
5	6285159.4	2073671.5	322.0	0
6	6285181.5	2073072.9	314.0	0
7	6285228.3	2072759.5	311.0	0
8	6285256.5	2072658.0	310.0	0
9	6285287.4	2072557.3	310.0	0
10	6285368.7	2072369.3	310.0	0
11	6285504.6	2072087.7	311.0	0

0ROADWAY 9 HRC sb (Harvest Glen to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
11	6285504.6	2072087.7	311.0	0
12	6285818.9	2071457.3	308.0	0
13	6286045.8	2071007.9	302.0	0
14	6286269.2	2070567.4	296.0	0

0ROADWAY 10 HRC sb (26 to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	14.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286269.2	2070567.4	296.0	0
15	6286493.4	2070122.4	290.0	0

0ROADWAY 11 HRC sb (School to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
15	6286493.4	2070122.4	290.0	0
16	6286720.3	2069667.7	285.0	0
17	6286977.2	2069239.6	280.0	0
18	6287102.6	2069033.0	278.0	0
19	6287238.6	2068813.1	278.0	0

20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0

	COORDINATES X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

1

BARRIER 1 TYPE(A) Pad Edges 1

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286634.5	2070357.1	300.0	300.0	.0	0
2	6286502.0	2070298.3	300.0	300.0		
3	6286265.1	2070793.1	310.0	310.0		
4	6286320.9	2070828.5	310.0	310.0		

1

BARRIER 2 TYPE(A) Pad Edges 2

	COORDINATES X	Y	Z	Z0	DELZ	P
5	6286349.5	2070944.8	315.0	315.0	.0	0
6	6286239.3	2070896.7	314.0	314.0		
7	6286196.9	2070902.4	314.0	314.0		
8	6286078.1	2071137.0	311.0	311.0		
9	6286004.6	2071292.5	316.0	316.0		
10	6286004.6	2071603.5	317.0	317.0		
11	6286004.6	2071990.8	321.0	321.0		
12	6286004.5	2072360.7	324.0	324.0		
13	6286289.0	2072499.4	326.0	326.0		
14	6286498.0	2072566.2	329.0	329.0		

1

BARRIER 3 TYPE(A) Pad Edges 3

	COORDINATES X	Y	Z	Z0	DELZ	P
15	6286634.5	2072765.6	395.0	395.0	.0	0
16	6286621.9	2072916.9	395.0	395.0		
17	6286648.3	2073055.3	397.0	397.0		
18	6286685.9	2073120.3	400.0	400.0		
19	6286802.5	2073223.1	408.0	408.0		
20	6286939.8	2073344.0	421.0	421.0		
21	6287080.9	2073468.3	434.0	434.0		
22	6287179.3	2073554.7	442.0	442.0		
23	6287319.9	2073660.5	447.0	447.0		

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BARRIER 4 TYPE(A) Pad Edges 4

	COORDINATES X	Y	Z	Z0	DELZ	P
24	6286661.4	2072669.3	399.0	399.0	.0	0
25	6286691.4	2072606.8	402.0	402.0		
26	6286808.6	2072443.9	413.0	413.0		
27	6286883.6	2072343.9	420.0	420.0		
28	6286840.1	2072178.6	425.0	425.0		
29	6286812.9	2072107.3	425.0	425.0		
30	6286826.1	2072043.3	425.0	425.0		
31	6286826.1	2072043.3	425.0	425.0		
32	6286852.2	2071992.5	425.0	425.0		
33	6286902.8	2071961.7	425.0	425.0		

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BARRIER 5 TYPE(A) Pad Edges 5

	COORDINATES X	Y	Z	Z0	DELZ	P
33	6286902.8	2071961.7	425.0	425.0	.0	0
34	6286962.6	2071945.7	425.0	425.0		
35	6287015.8	2071960.1	425.0	425.0		
36	6287071.5	2071996.1	425.0	425.0		
37	6287133.1	2072101.5	433.0	433.0		
38	6287208.1	2072073.0	440.0	440.0		
39	6287286.5	2072058.4	443.0	443.0		
40	6287479.3	2072046.8	454.0	454.0		
41	6287668.5	2072035.1	465.0	465.0		
41b	6287685.1	2071982.5	494.0	494.0		

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BARRIER 6 TYPE(A) Pad Edges 6

	COORDINATES X	Y	Z	Z0	DELZ	P
41b	6287685.1	2071982.5	494.0	494.0	.0	0
42	6287686.6	2071882.5	494.0	494.0		
42b	6287699.0	2071869.6	494.0	494.0		
43	6287687.4	2071826.0	494.0	494.0		
44	6287537.5	2071795.8	493.0	493.0		
45	6287494.5	2071766.0	493.0	493.0		
46	6287457.5	2071786.6	493.0	493.0		
47	6287414.4	2071765.2	493.0	493.0		
48	6287295.5	2071799.6	493.0	493.0		
49	6287284.9	2071649.7	489.0	489.0		

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BARRIER 7 TYPE(A) Pad Edges 7

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
49	6287284.9	2071649.7	489.0	489.0	.0	0
50	6287348.9	2071527.3	487.0	487.0		
51	6287424.5	2071350.9	481.0	481.0		
52	6287467.2	2071294.2	479.0	479.0		
53	6287518.6	2071247.5	477.0	477.0		

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BARRIER 8 TYPE(A) Pad Edges 8

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
54	6287218.1	2070892.1	417.0	417.0	.0	0
55	6287157.9	2071011.8	422.0	422.0		
56	6287075.2	2071176.2	427.0	427.0		
57	6287007.6	2071272.7	427.0	427.0		
58	6286932.0	2071401.6	427.0	427.0		
59	6286944.0	2071476.9	427.0	427.0		
60	6286980.6	2071530.1	427.0	427.0		
61	6287085.3	2071587.4	427.0	427.0		
61b	6287195.3	2071545.3	430.0	430.0		

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BARRIER 9 TYPE(A) Pad Edges 9

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
62	6287504.8	2073407.6	464.0	464.0	.0	0
63	6287455.9	2073368.6	463.0	463.0		
64	6287170.1	2073077.7	459.0	459.0		
65	6287084.1	2072959.0	458.0	458.0		
66	6287062.5	2072812.7	457.0	457.0		
67	6287098.4	2072672.4	456.0	456.0		
68	6287206.8	2072488.9	454.0	454.0		
69	6287296.9	2072394.7	453.0	453.0		
70	6287367.3	2072346.7	452.0	452.0		
71	6287469.2	2072361.5	452.0	452.0		

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BARRIER 10 TYPE(A) Pad Edges 10

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
72	6287697.7	2073088.0	486.0	486.0	.0	0
73	6287547.5	2072976.4	486.0	486.0		
74	6287491.4	2072888.6	486.0	486.0		
75	6287491.1	2072766.9	485.0	485.0		
76	6287635.8	2072596.6	482.0	482.0		
77	6287767.5	2072309.5	477.0	477.0		

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BARRIER 11 TYPE(A) Pad Edges 11

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
78	6287168.3	2074113.6	447.0	447.0	.0	0
79	6287306.7	2073811.7	443.0	443.0		
80	6287536.9	2073481.4	457.0	457.0		

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BARRIER 12 TYPE(A) Pad Edges 12

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
81	6287283.0	2074170.1	465.0	465.0	.0	0
82	6287469.8	2073845.2	471.0	471.0		
82b	6287616.6	2073652.3	478.0	478.0		
82c	6287630.6	2073609.8	478.0	478.0		
83	6287702.0	2073532.9	475.0	475.0		

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BARRIER 13 TYPE(A) Pad Edges 14

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
84	6288855.6	2071200.7	606.0	606.0	.0	0
85	6288817.6	2071249.1	606.0	606.0		
85b	6288817.1	2071249.5	600.0	600.0		
85c	6288775.2	2071293.2	600.0	600.0		
85d	6288774.8	2071293.5	593.0	593.0		
86	6288730.6	2071333.3	593.0	593.0		
86b	6288730.4	2071333.5	585.0	585.0		
87	6288637.1	2071415.2	574.0	574.0		
87b	6288636.6	2071415.5	558.0	558.0		
87c	6288577.5	2071447.1	558.0	558.0		

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BARRIER 14 TYPE(A) Pad Edges 15

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
87c	6288577.5	2071447.1	558.0	558.0	.0	0
87d	6288576.6	2071447.3	542.0	542.0		
87e	6288512.6	2071462.6	542.0	542.0		
87f	6288512.2	2071462.7	535.0	535.0		
87g	6288454.3	2071466.7	535.0	535.0		
87h	6288453.5	2071466.7	528.0	528.0		
87i	6288396.4	2071470.4	528.0	528.0		

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BARRIER 15 TYPE(A) Pad Edges 16

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
88	6287934.8	2071070.6	463.0	463.0	.0	0
89	6287896.0	2071051.1	461.0	461.0		
90	6287829.7	2071017.7	457.0	457.0		
91	6287774.3	2070989.8	452.0	452.0		
92	6287719.9	2070962.3	446.0	446.0		
93	6287660.0	2070932.2	438.0	438.0		
94	6287602.9	2070903.4	431.0	431.0		
95	6287558.2	2070880.9	426.0	426.0		
96	6287504.6	2070853.9	426.0	426.0		
97	6287457.4	2070947.6	426.0	426.0		

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BARRIER 16 TYPE(A) Pad Edges 17

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
98	6287917.7	2071215.4	471.0	471.0	.0	0
99	6288056.8	2071153.4	487.0	487.0		
100	6288174.3	2071168.6	499.0	499.0		
101	6288341.6	2071223.3	517.0	517.0		
102	6288383.4	2071229.3	517.0	517.0		
103	6288411.9	2071206.0	518.0	518.0		

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BARRIER 17 TYPE(A) Pade Edges 18

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
104	6287531.1	2074308.7	483.0	483.0	.0	0
105	6287706.9	2074046.2	487.0	487.0		
106	6287847.9	2073869.2	491.0	491.0		
107	6287887.1	2073856.0	493.0	493.0		

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BARRIER 18 TYPE(A) Pad Edges 19

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
108a	6287776.1	2074544.5	503.0	503.0	.0	0
108b	6287725.5	2074618.8	503.0	503.0		
109	6287778.2	2074656.5	513.0	513.0		
110	6287798.1	2074702.8	518.0	518.0		
111	6287807.8	2074744.0	518.0	518.0		

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Receivers @ 5'

	----------COORDINATES----------		
	X	Y	Z
82	6287240.5	2072077.8	444.0
83	6287109.1	2072080.3	431.0
84	6286962.4	2071956.6	429.0
85	6286827.2	2072089.3	429.0
86	6286860.5	2072192.6	429.0
87	6286873.0	2072375.1	421.0
88	6286836.1	2072426.2	417.0
89	6286797.7	2072477.9	414.0
90	6286761.7	2072527.8	410.0
91	6286725.2	2072577.9	407.0
92	6286688.4	2072638.8	404.0
93	6286639.8	2072799.4	399.0
94	6286637.0	2072967.7	399.0
95	6286677.5	2073086.5	402.0
96	6286772.8	2073179.9	408.0
97	6286846.0	2073247.0	412.0
98	6286920.0	2073312.4	421.0
99	6286985.8	2073370.3	426.0
100	6287055.6	2073432.3	435.0
101	6287113.4	2073481.9	439.0
102	6287162.5	2073523.6	443.0
103	6287215.7	2073565.6	447.0
104	6287274.1	2073611.0	450.0
105	6287492.5	2073384.0	468.0
106	6287408.7	2073302.7	467.0
107	6287329.6	2073219.8	466.0
108	6287251.2	2073144.3	464.0
109	6287160.6	2073043.7	463.0
110	6287083.1	2072899.9	462.0
111	6287082.6	2072754.3	461.0
112	6287161.8	2072585.1	460.0
113	6287251.0	2072461.1	458.0
114	6287331.5	2072382.6	457.0
115	6287755.2	2072368.7	482.0
116	6287683.4	2072520.8	485.0
117	6287621.2	2072633.3	487.0
118	6287548.3	2072717.4	489.0
119	6287498.4	2072850.1	491.0
120	6287611.8	2073011.0	491.0
121	6287432.9	2073646.1	452.0

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ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

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 SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

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      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
13 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
14 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
15 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
16 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
17 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
18 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
1

 RECEIVER     LEQ(H)   L10
 82            48.5   50.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            18.9 25.4 25.7 25.9 26.5 27.9
    2        1    2    3    4    5    6
            30.7 29.9 18.9 22.2 23.1 30.2
    3        1
            33.9
    4        1    2    3
            35.4 33.7 29.2
    5        1    2    3    4    5    6
            26.6 23.9 24.0 28.8 31.2 28.9
    6        1    2    3
            28.8 28.3 31.5
    7        1    2    3    4
            31.5 28.0 28.7 27.1
    8        1    2    3    4    5    6
            31.1 28.8 24.0 23.9 26.6 28.2
    9        1    2    3
            33.8 37.0 35.7
   10        1
            32.6
   11        1    2    3    4    5    6
            23.4 22.5 19.0 27.9 30.6 30.0
   12        1    2    3    4    5
            26.4 25.9 25.7 25.4 23.4
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            22.6 26.6 21.0 27.1 27.4 27.8 27.6 32.2 34.3 31.2

            14.3 14.5 14.1 13.7
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            13.7 14.0 14.4 14.6 31.4 34.2 32.2 27.3 28.2 27.5

            26.2 22.5 27.0 22.7
   15        1    2    3    4    5    6    7    8    9   10

            19.0 21.8 17.3 17.8 23.0 24.9 24.9 24.7 24.4 29.8

   16        1    2    3    4    5    6    7    8    9   10

            29.8 24.3 24.6 24.7 24.7 23.0 17.8 17.3 21.8 19.0

   17        1    2    3    4    5    6    7
            25.8 16.6 16.3 16.2 17.5 18.5 15.0
   18        1    2    3    4    5    6    7
            14.8 18.5 17.5 16.1 16.2 16.8 25.9
1

 RECEIVER     LEQ(H)   L10
 83            46.2   48.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            15.1 16.9 17.2 17.1 17.2 15.9
    2        1    2    3    4    5    6
            17.7 17.9 17.6 21.4 26.5 33.5
    3        1
            33.5
    4        1    2    3
            32.2 32.1 28.1
    5        1    2    3    4    5    6
            25.2 22.4 22.3 27.0 30.1 27.8
    6        1    2    3
            24.7 23.6 27.9
    7        1    2    3    4
            27.2 23.3 24.5 26.2
    8        1    2    3    4    5    6
            30.1 27.0 22.4 22.4 25.1 27.0
    9        1    2    3
            32.1 31.8 33.6
   10        1
            35.3
   11        1    2    3    4    5    6
            28.1 21.6 17.7 17.9 17.7 18.0
   12        1    2    3    4    5
            15.5 17.0 17.2 17.0 15.2
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            23.9 27.2 19.1 25.2 25.4 25.5 24.9 25.0 25.9 26.0

            29.0 29.5 27.5 22.1
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            22.0 27.9 29.4 29.2 25.8 25.8 25.1 24.6 25.9 25.5

            24.3 20.6 27.7 24.0
   15        1    2    3    4    5    6    7    8    9   10

            17.1 22.7 19.7 20.2 20.5 20.4 20.5 20.1 19.7 25.2

   16        1    2    3    4    5    6    7    8    9   10

            25.2 19.6 20.1 20.3 20.3 20.4 20.2 19.6 22.9 17.2

   17        1    2    3    4    5    6    7
            14.0 14.5 14.2 14.3 15.7 16.7 13.2
   18        1    2    3    4    5    6    7
            13.0 16.7 15.7 14.3 14.1 14.5 14.0
1

 RECEIVER     LEQ(H)   L10
 84            51.4   53.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            14.0 15.7 15.8 15.5 15.6 16.4
    2        1    2    3    4    5    6
            18.6 19.3 19.4 32.2 38.7 35.1
    3        1
            35.6
    4        1    2    3
            39.0 40.9 33.9
    5        1    2    3    4    5    6
            29.1 25.5 25.1 29.2 30.8 27.5
    6        1    2    3
            24.3 23.4 26.7
    7        1    2    3    4
            26.6 23.1 24.2 26.0
    8        1    2    3    4    5    6
            30.8 29.4 25.1 25.5 29.2 32.6
    9        1    2    3
            40.8 40.8 37.7
   10        1
            36.6
   11        1    2    3    4    5    6
            38.3 33.6 19.7 19.4 18.7 18.7
   12        1    2    3    4    5
            15.7 15.7 15.8 15.6 14.0
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            28.8 33.1 27.6 33.9 34.5 34.3 26.0 25.5 25.4 25.4

            26.1 27.6 26.9 26.1
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            26.1 26.9 27.5 26.3 25.0 25.3 25.7 25.8 34.6 34.6

            33.0 29.1 33.5 28.9
   15        1    2    3    4    5    6    7    8    9   10

            26.7 29.4 24.8 25.1 25.4 25.6 25.6 25.4 25.2 30.6

   16        1    2    3    4    5    6    7    8    9   10

            30.6 25.0 25.3 25.4 25.4 25.3 25.1 24.6 29.4 26.6

   17        1    2    3    4    5    6    7
            15.0 15.9 15.9 23.3 26.8 27.3 23.1
   18        1    2    3    4    5    6    7
            22.9 27.3 26.8 22.4 15.8 15.8 14.8
1

 RECEIVER     LEQ(H)   L10
 85            53.3   55.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            13.9 15.7 15.9 15.8 15.9 16.6
    2        1    2    3    4    5    6
            24.7 26.7 27.1 31.6 34.0 34.6
```

```
  3        1
         35.2
  4        1    2    3
         41.4 44.9 40.0
  5        1    2    3    4    5    6
         36.1 32.5 32.2 36.3 37.8 34.2
  6        1    2    3
         30.4 29.2 32.3
  7        1    2    3    4
         32.3 28.9 30.2 32.5
  8        1    2    3    4    5    6
         37.7 36.2 32.1 32.4 35.9 38.7
  9        1    2    3
         44.6 41.8 37.5
 10        1
         36.1
 11        1    2    3    4    5    6
         34.2 31.6 27.1 26.6 25.6 24.0
 12        1    2    3    4    5
         16.0 15.9 16.1 15.9 14.1
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         28.6 32.0 26.2 31.7 31.2 30.7 30.1 29.6 29.3 24.8

         24.2 25.1 25.8 25.3
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         25.2 25.7 24.9 24.5 24.7 29.3 29.8 29.9 31.1 31.6

         30.9 27.6 32.4 28.7
 15        1    2    3    4    5    6    7    8    9   10

         24.1 28.6 24.5 24.9 25.2 25.3 25.4 25.3 25.1 30.5

 16        1    2    3    4    5    6    7    8    9   10

         30.5 25.0 25.2 25.2 25.2 25.1 24.8 24.4 28.9 24.3

 17        1    2    3    4    5    6    7
         21.1 21.8 21.7 21.4 22.4 23.7 20.2
 18        1    2    3    4    5    6    7
         19.9 23.5 22.4 21.4 21.5 21.7 21.0
1

RECEIVER    LEQ(H)   L10
86           51.4   53.4

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         12.8 14.6 14.8 14.5 14.7 15.5
  2        1    2    3    4    5    6
         17.7 19.1 25.0 29.0 30.6 32.9
  3        1
         33.9
  4        1    2    3
         37.5 41.9 39.9
  5        1    2    3    4    5    6
         36.0 32.6 32.2 36.4 38.0 34.4
  6        1    2    3
         30.6 29.4 32.5
  7        1    2    3    4
         32.5 29.1 30.5 32.7
  8        1    2    3    4    5    6
         37.8 36.3 32.1 32.4 35.8 38.5
  9        1    2    3
         41.7 38.1 34.8
 10        1
         32.5
 11        1    2    3    4    5    6
         30.7 29.0 25.0 22.0 17.9 17.7
 12        1    2    3    4    5
         14.7 14.7 14.9 14.7 13.0
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         23.4 27.6 22.1 28.4 28.9 29.0 28.7 28.4 24.7 24.0

         23.9 25.6 25.2 24.3
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         24.3 25.2 25.4 24.2 23.7 24.7 28.5 28.4 29.5 29.0

         27.5 23.6 28.0 23.5
 15        1    2    3    4    5    6    7    8    9   10

         21.0 23.8 19.2 19.6 19.9 20.0 20.1 20.0 20.1 26.2

 16        1    2    3    4    5    6    7    8    9   10

         26.2 19.9 20.0 19.9 19.9 19.8 19.5 19.1 23.7 21.0

 17        1    2    3    4    5    6    7
         16.0 20.3 20.1 19.7 20.6 21.4 17.4
 18        1    2    3    4    5    6    7
         17.1 21.4 20.6 19.7 20.0 20.3 15.4
1

RECEIVER    LEQ(H)   L10
87           51.0   53.2

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         10.4 12.1 12.3 12.1 12.2 13.0
  2        1    2    3    4    5    6
         15.2 15.9 18.0 23.5 24.7 30.2
  3        1
         32.8
  4        1    2    3
         37.4 42.9 39.2
  5        1    2    3    4    5    6
         35.3 31.8 31.2 35.4 36.7 32.3
  6        1    2    3
         28.9 28.2 32.6
  7        1    2    3    4
         32.3 28.0 28.7 30.8
  8        1    2    3    4    5    6
         36.5 35.5 31.3 31.8 35.4 37.9
  9        1    2    3
         42.8 38.9 34.6
 10        1
         32.1
 11        1    2    3    4    5    6
         24.8 23.5 19.2 15.9 15.3 15.2
 12        1    2    3    4    5
         12.2 12.2 12.4 12.2 10.5
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         25.8 27.7 18.6 24.7 25.1 25.3 24.9 23.7 22.1 21.8

         22.4 22.8 21.9 22.0
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         21.5 21.8 22.7 22.6 21.4 22.0 23.8 24.7 25.7 25.2

         23.8 20.0 28.4 25.9
 15        1    2    3    4    5    6    7    8    9   10

         17.0 22.5 21.5 22.2 22.7 23.3 23.6 23.9 24.3 29.8

 16        1    2    3    4    5    6    7    8    9   10

         29.8 24.2 23.8 23.4 23.2 22.7 22.1 21.4 22.8 17.0

 17        1    2    3    4    5    6    7
         11.5 14.9 15.4 15.1 16.1 17.0 13.1
 18        1    2    3    4    5    6    7
         12.9 17.0 16.2 15.1 15.3 14.7 11.3
1

RECEIVER    LEQ(H)   L10
88           49.7   51.6

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         9.7 11.5 11.7 11.4 11.6 12.4
  2        1    2    3    4    5    6
         14.7 15.8 18.4 22.3 30.6 32.1
  3        1
         32.5
  4        1    2    3
         36.6 40.6 36.8
  5        1    2    3    4    5    6
         33.3 29.9 29.6 33.9 35.4 31.7
  6        1    2    3
         28.4 27.8 32.1
  7        1    2    3    4
         31.7 27.5 28.3 30.2
  8        1    2    3    4    5    6
         35.3 33.9 29.6 29.8 33.2 35.5
  9        1    2    3
         40.4 37.2 34.3
 10        1
         33.2
 11        1    2    3    4    5    6
         31.1 22.4 18.4 17.0 14.8 14.7
 12        1    2    3    4    5
         11.7 11.6 11.8 11.6  9.8
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         24.1 28.2 22.6 28.7 29.1 24.8 23.5 23.2 21.5 20.8

         21.4 22.0 21.0 20.2
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         20.2 20.9 21.8 21.6 20.6 21.5 23.3 23.2 25.6 29.2

         27.9 24.1 28.5 24.1
 15        1    2    3    4    5    6    7    8    9   10

         21.3 24.4 19.7 20.2 20.7 21.0 21.2 21.3 21.4 27.3

 16        1    2    3    4    5    6    7    8    9   10

         27.3 21.3 21.2 21.0 20.9 20.5 20.2 19.6 24.3 21.4

 17        1    2    3    4    5    6    7
         11.8 14.2 14.0 13.8 15.3 21.6 17.7
 18        1    2    3    4    5    6    7
         17.4 21.5 14.9 13.7 13.9 14.2 11.5
1

RECEIVER    LEQ(H)   L10
89           51.7   53.8

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         9.2 11.0 11.2 11.0 11.2 12.0
  2        1    2    3    4    5    6
         14.3 17.1 17.6 29.1 32.5 31.9
  3        1
         32.3
  4        1    2    3
         37.2 43.1 39.7
  5        1    2    3    4    5    6
         36.1 32.7 32.2 36.4 37.6 33.1
  6        1    2    3
         29.6 28.9 33.2
  7        1    2    3    4
         32.8 28.7 29.5 31.6
  8        1    2    3    4    5    6
         37.6 36.4 32.3 32.7 36.3 38.7
  9        1    2    3
         43.0 38.1 34.1
 10        1
         32.9
 11        1    2    3    4    5    6
         32.9 29.9 17.7 17.4 15.1 14.3
 12        1    2    3    4    5
         11.2 11.1 11.3 11.1  9.3
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         25.4 29.3 23.7 29.7 29.9 29.8 28.9 22.2 21.8 20.3

         20.6 21.3 20.4 19.6
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         19.6 20.4 21.1 20.8 20.1 21.7 22.3 28.8 30.2 30.0

         28.9 25.2 29.7 25.5
 15        1    2    3    4    5    6    7    8    9   10

         22.3 25.6 21.0 21.6 22.4 22.8 23.2 23.5 24.2 29.8

 16        1    2    3    4    5    6    7    8    9   10
```

```
          29.7 24.1 23.4 23.1 22.7 22.2 21.7 21.0 25.6 22.3

  17        1    2    3    4    5    6    7
           12.4 13.3 20.3 20.5 21.5 22.4 18.5
  18        1    2    3    4    5    6    7
           18.2 22.3 21.5 20.4 19.9 13.3 12.2
1

 RECEIVER    LEQ(H)   L10
 90           50.1   52.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
            8.7 10.5 10.7 10.4 10.7 11.5
   2        1    2    3    4    5    6
           15.3 22.3 25.5 29.9 31.8 31.6
   3        1
           32.1
   4        1    2    3
           36.2 40.8 37.3
   5        1    2    3    4    5    6
           33.9 30.7 30.4 34.6 36.3 32.4
   6        1    2    3
           29.0 28.5 32.0
   7        1    2    3    4
           31.9 28.2 28.9 30.8
   8        1    2    3    4    5    6
           36.2 34.6 30.2 30.5 33.8 36.0
   9        1    2    3
           40.5 36.9 33.8
  10        1
           32.6
  11        1    2    3    4    5    6
           31.7 29.9 25.5 24.2 15.9 15.0
  12        1    2    3    4    5
           10.7 10.6 10.7 10.5  8.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           23.9 28.0 22.4 28.5 28.8 28.9 28.4 28.1 25.1 19.8

           19.6 20.4 19.8 18.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           18.9 19.7 20.3 19.9 19.5 25.1 28.2 28.2 29.4 29.0

           27.7 23.9 28.3 24.0
  15        1    2    3    4    5    6    7    8    9   10

           21.1 24.2 19.5 19.9 20.4 20.8 21.1 21.1 21.2 27.1

  16        1    2    3    4    5    6    7    8    9   10

           27.1 21.0 21.1 20.9 20.7 20.3 19.9 19.4 24.1 21.0

  17        1    2    3    4    5    6    7
           17.7 20.3 20.1 19.8 20.7 21.4 17.4
  18        1    2    3    4    5    6    7
           17.1 21.4 20.7 19.7 20.0 20.2 17.3
1

 RECEIVER    LEQ(H)   L10
 91           51.5   53.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
            8.2 10.0 10.2 10.1 18.9 21.5
   2        1    2    3    4    5    6
           24.3 25.3 25.6 30.1 31.8 31.3
   3        1
           31.8
   4        1    2    3
           36.9 42.5 39.3
   5        1    2    3    4    5    6
           36.0 32.7 32.3 36.5 37.9 33.5
   6        1    2    3
           30.0 28.9 32.2
   7        1    2    3    4
           32.2 28.8 29.9 32.0
   8        1    2    3    4    5    6
           37.9 36.6 32.3 32.6 35.8 38.0
   9        1    2    3
           42.3 37.4 33.5
  10        1
           32.3
  11        1    2    3    4    5    6
           31.8 30.1 25.6 25.2 24.2 23.7
  12        1    2    3    4    5
           20.2 19.7 19.4 10.1  8.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           24.8 28.7 23.1 29.1 29.4 29.3 28.7 28.3 28.4 23.2

           19.0 19.7 19.3 18.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           18.4 19.2 19.6 19.3 23.3 28.4 28.5 28.5 29.8 29.5

           28.3 24.6 29.1 24.8
  15        1    2    3    4    5    6    7    8    9   10

           21.6 25.0 20.3 21.0 21.4 22.1 22.5 22.5 22.8 29.0

  16        1    2    3    4    5    6    7    8    9   10

           28.9 22.6 22.5 22.4 22.0 21.3 20.8 20.3 25.0 21.7

  17        1    2    3    4    5    6    7
           19.8 20.4 20.3 20.1 21.0 21.8 18.0
  18        1    2    3    4    5    6    7
           17.7 21.8 21.0 20.0 20.2 20.4 19.6
1

 RECEIVER    LEQ(H)   L10
 92           52.6   54.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           10.9 19.0 19.3 19.4 20.0 21.2
   2        1    2    3    4    5    6
           24.0 24.9 25.2 29.8 31.5 31.0
   3        1
           31.6
   4        1    2    3
           36.6 43.9 40.6
   5        1    2    3    4    5    6
           37.2 34.0 33.8 38.1 39.9 36.3
   6        1    2    3
           32.5 31.2 34.1
   7        1    2    3    4
           34.0 30.9 32.3 34.7
   8        1    2    3    4    5    6
           39.8 38.0 33.6 33.8 37.0 39.2
   9        1    2    3
           43.6 37.8 33.2
  10        1
           32.0
  11        1    2    3    4    5    6
           31.4 29.8 25.2 24.8 24.0 23.4
  12        1    2    3    4    5
           19.9 19.4 19.3 19.0 17.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           25.3 29.1 23.4 29.3 29.4 29.2 28.5 28.1 28.2 25.5

           18.4 19.2 18.7 18.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           18.0 18.6 19.0 18.7 25.6 28.1 28.2 28.2 29.7 29.6

           28.5 24.9 29.5 25.4
  15        1    2    3    4    5    6    7    8    9   10

           21.8 25.4 20.7 21.5 22.3 23.2 24.2 24.1 23.9 29.6

  16        1    2    3    4    5    6    7    8    9   10

           29.5 23.8 24.1 24.0 23.1 22.2 21.4 20.8 25.4 21.8

  17        1    2    3    4    5    6    7
           19.5 20.1 20.0 19.8 20.9 21.8 18.0
  18        1    2    3    4    5    6    7
           17.8 21.8 20.9 19.8 19.9 20.1 19.4
1

 RECEIVER    LEQ(H)   L10
 93           53.1   55.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           15.8 17.8 18.1 18.1 18.7 19.9
   2        1    2    3    4    5    6
           25.7 29.4 29.6 33.8 33.6 30.2
   3        1
           30.7
   4        1    2    3
           35.7 43.4 40.5
   5        1    2    3    4    5    6
           37.4 34.3 34.1 38.6 40.6 37.0
   6        1    2    3
           33.2 31.8 34.6
   7        1    2    3    4
           34.6 31.5 33.0 35.4
   8        1    2    3    4    5    6
           40.4 38.4 33.9 34.0 37.1 39.1
   9        1    2    3
           43.1 36.8 32.3
  10        1
           31.1
  11        1    2    3    4    5    6
           32.8 33.8 29.6 29.2 28.4 23.1
  12        1    2    3    4    5
           18.7 18.3 18.1 17.9 15.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           26.0 30.0 26.0 32.3 32.7 32.9 32.5 32.3 32.2 25.1

           17.5 18.2 17.7 16.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           16.9 17.6 18.0 17.8 25.3 32.2 32.4 32.3 33.4 32.8

           31.4 27.5 30.3 26.2
  15        1    2    3    4    5    6    7    8    9   10

           24.9 27.2 21.6 22.7 23.5 23.7 23.9 23.7 23.7 29.3

  16        1    2    3    4    5    6    7    8    9   10

           29.3 23.5 23.7 23.6 23.6 23.4 22.8 21.4 27.1 24.9

  17        1    2    3    4    5    6    7
           23.9 24.5 24.3 23.9 24.6 25.3 21.2
  18        1    2    3    4    5    6    7
           21.0 25.3 24.7 23.8 24.1 24.4 23.8
1

 RECEIVER    LEQ(H)   L10
 94           52.4   54.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
            6.4  8.2 15.3 15.5 15.9 17.0
   2        1    2    3    4    5    6
           19.7 20.9 21.6 32.0 33.0 29.5
   3        1
           29.9
   4        1    2    3
           34.9 42.6 40.0
   5        1    2    3    4    5    6
           37.0 34.1 34.0 38.6 40.9 37.6
   6        1    2    3
           33.8 32.3 35.1
   7        1    2    3    4
           35.0 32.1 33.5 35.9
   8        1    2    3    4    5    6
           40.7 38.5 33.8 33.8 36.8 38.6
   9        1    2    3
           42.4 35.8 31.3
  10        1
           30.3
  11        1    2    3    4    5    6
           32.1 32.7 21.8 21.1 19.9 19.3
  12        1    2    3    4    5
```

```
          16.0 15.7 15.7 15.4 13.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.7 26.7 21.1 27.1 27.4 30.9 32.2 28.7 25.2 21.1

          17.2 17.9 17.1 16.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          16.4 17.1 17.7 17.5 21.5 25.2 28.9 32.0 31.3 27.5

          26.3 22.6 27.1 22.8
  15        1    2    3    4    5    6    7    8    9   10

          19.7 22.6 18.0 18.6 19.3 19.7 20.9 21.1 22.7 28.9

  16        1    2    3    4    5    6    7    8    9   10

          28.9 22.5 21.1 20.9 19.6 19.2 18.6 17.9 22.7 19.7

  17        1    2    3    4    5    6    7
          15.7 19.0 23.8 23.5 22.8 19.9 15.9
  18        1    2    3    4    5    6    7
          15.7 19.9 23.2 23.4 23.7 18.5 15.5
1

 RECEIVER    LEQ(H)   L10
 95           51.2   53.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           6.2  8.0  8.2  8.0  8.1  9.0
   2        1    2    3    4    5    6
          12.4 18.6 19.3 24.3 27.0 28.9
   3        1
          29.3
   4        1    2    3
          32.7 38.4 39.3
   5        1    2    3    4    5    6
          36.5 33.6 33.6 38.3 40.8 37.7
   6        1    2    3
          34.0 32.6 35.3
   7        1    2    3    4
          35.3 32.3 33.7 36.0
   8        1    2    3    4    5    6
          40.6 38.1 33.4 33.4 36.2 37.9
   9        1    2    3
          38.3 33.4 30.7
  10        1
          29.8
  11        1    2    3    4    5    6
          27.7 24.5 19.6 18.9 15.9 12.1
  12        1    2    3    4    5
           8.1  8.1  8.2  8.1  6.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.8 26.0 20.4 31.4 32.1 27.3 25.1 24.3 22.0 17.3

          17.5 17.9 17.3 16.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.0 17.0 17.7 17.8 17.0 22.1 24.5 24.9 28.2 32.2

          30.9 22.2 26.4 21.9
  15        1    2    3    4    5    6    7    8    9   10

          24.2 24.8 17.1 17.6 18.1 18.3 18.8 18.9 19.3 25.8

  16        1    2    3    4    5    6    7    8    9   10

          25.7 19.1 18.8 18.7 18.2 18.0 17.5 17.0 24.5 24.2

  17        1    2    3    4    5    6    7
          13.4 14.8 15.4 15.7 17.4 24.3 20.6
  18        1    2    3    4    5    6    7
          20.3 24.1 17.2 15.7 15.2 14.8 13.1
1

 RECEIVER    LEQ(H)   L10
 96           48.5   50.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           6.5  8.2  8.2  8.0  8.0  8.8
   2        1    2    3    4    5    6
          11.0 11.7 13.4 21.0 24.3 27.2
   3        1
          28.7
   4        1    2    3
          31.8 36.2 33.8
   5        1    2    3    4    5    6
          31.7 29.1 29.3 34.6 37.7 36.0
   6        1    2    3
          33.4 32.5 35.3
   7        1    2    3    4
          35.2 32.2 33.3 34.3
   8        1    2    3    4    5    6
          37.6 34.5 29.2 28.9 31.5 32.5
   9        1    2    3
          36.0 32.4 29.9
  10        1
          27.0
  11        1    2    3    4    5    6
          24.6 21.6 13.5 12.4 11.1 11.0
  12        1    2    3    4    5
           8.1  8.1  8.3  8.1  6.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.4 25.3 19.7 25.5 25.3 24.6 23.1 19.1 18.0 17.9

          17.9 18.5 17.5 13.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.9 17.5 18.3 18.3 17.5 17.9 19.2 22.7 25.1 25.5

          24.6 21.1 25.8 22.1
  15        1    2    3    4    5    6    7    8    9   10

          17.7 21.1 16.6 22.0 22.5 22.3 18.3 18.2 18.4 25.0

  16        1    2    3    4    5    6    7    8    9   10

          24.9 18.3 18.2 18.1 22.1 22.4 22.1 16.9 21.1 17.7

  17        1    2    3    4    5    6    7
           7.6  9.5 12.9 13.8 15.5 16.9 13.7
  18        1    2    3    4    5    6    7
          13.4 16.9 15.4 13.6 12.7  9.5  7.4
1

 RECEIVER    LEQ(H)   L10
 97           46.4   48.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           7.1  8.5  8.6  8.2  8.2  8.7
   2        1    2    3    4    5    6
          10.8 11.4 11.7 17.2 22.6 25.3
   3        1
          28.2
   4        1    2    3
          31.1 35.5 33.0
   5        1    2    3    4    5    6
          30.3 27.4 27.4 32.3 35.0 32.3
   6        1    2    3
          28.8 27.5 30.4
   7        1    2    3    4
          30.3 27.2 28.5 30.6
   8        1    2    3    4    5    6
          34.8 32.1 27.3 27.2 30.1 31.7
   9        1    2    3
          35.3 31.7 28.7
  10        1
          25.6
  11        1    2    3    4    5    6
          23.2 17.8 12.6 11.4 10.9 10.9
  12        1    2    3    4    5
           8.1  8.1  8.5  8.5  7.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.9 24.7 19.0 24.6 24.2 23.2 19.8 18.5 18.1 18.3

          18.3 18.7 13.2 10.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          10.8 13.9 18.5 18.5 18.0 18.0 18.6 19.5 23.6 24.4

          23.8 20.4 25.1 21.0
  15        1    2    3    4    5    6    7    8    9   10

          16.8 20.6 15.9 16.6 17.2 21.4 22.6 21.6 18.1 24.5

  16        1    2    3    4    5    6    7    8    9   10

          24.5 17.9 21.6 22.4 21.4 17.1 16.5 16.0 20.6 16.8

  17        1    2    3    4    5    6    7
           7.1  8.8  9.6  9.9 14.4 15.9 12.7
  18        1    2    3    4    5    6    7
          12.5 15.9 14.3  9.4  9.5  8.7  7.0
1

 RECEIVER    LEQ(H)   L10
 98           48.5   50.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           7.9  9.7  9.7  9.0  8.8  9.2
   2        1    2    3    4    5    6
          11.1 11.5 11.4 17.2 20.9 25.2
   3        1
          27.9
   4        1    2    3
          31.5 35.2 33.5
   5        1    2    3    4    5    6
          31.5 29.0 29.3 34.9 38.3 36.9
   6        1    2    3
          33.5 32.3 35.2
   7        1    2    3    4
          35.1 31.9 33.2 35.2
   8        1    2    3    4    5    6
          38.2 34.9 29.2 28.9 31.4 32.3
   9        1    2    3
          35.0 32.1 27.9
  10        1
          25.5
  11        1    2    3    4    5    6
          21.7 17.5 11.7 11.5 11.1 11.4
  12        1    2    3    4    5
           8.6  8.9  9.3  9.5  8.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.0 24.8 19.1 24.8 23.9 21.3 20.5 18.5 19.0 19.1

          19.2 15.7 11.6 11.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          11.1 11.5 15.9 19.5 18.7 18.8 18.6 20.2 21.7 24.4

          24.0 20.6 25.2 21.1
  15        1    2    3    4    5    6    7    8    9   10

          16.9 20.8 16.1 16.7 17.1 17.3 19.3 22.3 22.2 26.8

  16        1    2    3    4    5    6    7    8    9   10

          27.8 22.1 22.2 19.0 17.3 16.9 16.6 16.1 20.8 16.9

  17        1    2    3    4    5    6    7
           7.4  8.1 10.0 10.3 11.5 15.4 12.8
  18        1    2    3    4    5    6    7
          12.5 15.2 11.5 10.2  9.8  8.1  7.3
1

 RECEIVER    LEQ(H)   L10
 99           46.2   48.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           9.0 10.7  9.9  9.7  9.6  9.5
   2        1    2    3    4    5    6
          11.2 11.4 11.3 16.6 18.7 24.4
```

```
  3        1
          27.5
  4        1    2    3
          31.8 34.7 32.4
  5        1    2    3    4    5    6
          29.6 26.9 27.0 32.0 35.0 32.6
  6        1    2    3
          29.5 28.4 31.4
  7        1    2    3    4
          31.3 28.1 29.2 30.9
  8        1    2    3    4    5    6
          34.9 31.9 26.9 26.8 29.5 31.1
  9        1    2    3
          34.6 32.4 27.2
 10        1
          24.6
 11        1    2    3    4    5    6
          19.7 17.1 11.5 11.4 11.2 11.5
 12        1    2    3    4    5
           9.0  9.7 10.0  9.9  8.9
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          20.8 24.5 18.8 24.4 21.6 21.8 19.9 18.7 19.5 19.1

          14.7 12.3 11.8 11.3
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          11.3 11.7 12.2 15.2 19.0 19.3 18.8 19.6 22.2 22.0

          23.6 20.2 24.9 20.9
 15        1    2    3    4    5    6    7    8    9   10

          14.5 20.0 15.8 16.4 16.9 17.2 17.5 18.9 22.0 27.6

 16        1    2    3    4    5    6    7    8    9   10

          27.7 21.9 18.8 17.3 17.1 16.7 16.4 15.8 20.0 14.9

 17        1    2    3    4    5    6    7
           7.5  8.1  8.7 10.6 11.8 12.9 11.4
 18        1    2    3    4    5    6    7
          10.6 12.9 11.8 10.6  8.2  8.1  7.4
1

 RECEIVER    LEQ(H)   L10
 100          48.6   50.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
           6.2  8.1  8.3  8.2  8.6  9.5
  2        1    2    3    4    5    6
          11.6 11.7 11.4 16.2 18.8 23.7
  3        1
          27.2
  4        1    2    3
          31.6 34.8 33.7
  5        1    2    3    4    5    6
          33.6 30.8 30.9 35.8 38.8 36.4
  6        1    2    3
          33.1 32.0 35.0
  7        1    2    3    4
          34.9 31.6 32.8 34.6
  8        1    2    3    4    5    6
          38.6 35.7 30.7 30.7 33.5 32.6
  9        1    2    3
          34.5 32.6 27.1
 10        1
          24.2
 11        1    2    3    4    5    6
          19.0 16.8 11.6 11.7 11.6 11.7
 12        1    2    3    4    5
           8.5  8.2  8.3  8.1  6.3
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          20.9 24.7 18.9 22.7 22.7 22.5 19.8 18.1 17.4 16.9

          12.5 12.8 12.3 11.8
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          11.8 12.2 12.7 12.9 16.8 17.3 18.2 19.6 22.9 22.7

          21.5 20.4 25.0 20.9
 15        1    2    3    4    5    6    7    8    9   10

          14.2 19.6 15.8 16.3 16.8 17.2 17.8 18.0 20.1 27.5

 16        1    2    3    4    5    6    7    8    9   10

          27.5 19.8 17.9 17.6 17.1 16.6 16.4 15.7 19.8 14.3

 17        1    2    3    4    5    6    7
           7.8  8.4  8.6 10.0 12.7 13.7 10.0
 18        1    2    3    4    5    6    7
           9.8 13.8 12.8  9.5  8.5  8.4  7.7
1

 RECEIVER    LEQ(H)   L10
 101          47.8   50.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
           2.0  6.9  9.0  8.9  9.2 10.2
  2        1    2    3    4    5    6
          12.3 11.7 11.2 15.5 18.9 22.6
  3        1
          26.9
  4        1    2    3
          31.2 34.6 32.1
  5        1    2    3    4    5    6
          30.0 27.4 27.6 33.8 38.2 36.1
  6        1    2    3
          32.9 31.8 34.9
  7        1    2    3    4
          34.8 31.5 32.6 34.4
  8        1    2    3    4    5    6
          38.3 33.8 27.6 27.3 29.9 30.9
  9        1    2    3
          34.4 31.9 26.5
 10        1
          23.2
 11        1    2    3    4    5    6
          19.0 16.2 11.5 11.7 11.9 12.3
 12        1    2    3    4    5
           9.1  8.9  9.0  8.8  5.4
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          20.6 23.7 16.5 22.6 23.0 21.6 18.1 17.8 18.1 15.3

          12.7 13.0 12.5 12.0
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          11.9 12.4 12.9 13.0 15.3 18.0 17.9 17.9 22.0 23.1

          21.7 17.9 24.2 20.7
 15        1    2    3    4    5    6    7    8    9   10

          14.5 18.2 15.6 16.1 16.6 16.9 17.4 17.7 18.9 27.2

 16        1    2    3    4    5    6    7    8    9   10

          27.2 18.8 17.6 17.5 16.8 16.5 16.1 15.5 18.4 14.5

 17        1    2    3    4    5    6    7
           8.1  8.5  8.5  8.5 12.5 14.0 10.3
 18        1    2    3    4    5    6    7
          10.1 14.1 12.3  8.4  8.4  8.5  8.0
1

 RECEIVER    LEQ(H)   L10
 102          47.3   49.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
           2.0  3.8  3.9  4.2  9.9 10.7
  2        1    2    3    4    5    6
          12.9 11.9 11.3 15.0 18.3 21.8
  3        1
          26.3
  4        1    2    3
          30.5 34.5 31.5
  5        1    2    3    4    5    6
          29.4 26.9 27.2 33.1 37.4 35.9
  6        1    2    3
          32.8 31.7 34.8
  7        1    2    3    4
          34.7 31.4 32.5 34.2
  8        1    2    3    4    5    6
          37.5 33.1 27.2 26.8 29.3 30.3
  9        1    2    3
          34.4 31.3 26.1
 10        1
          22.3
 11        1    2    3    4    5    6
          18.6 15.4 11.4 11.8 12.7 12.9
 12        1    2    3    4    5
           9.8  9.7  4.7  3.8  2.1
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          20.5 22.6 16.7 22.9 21.4 19.3 18.9 18.6 18.6 13.1

          12.9 13.2 12.7 12.1
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          12.1 12.6 13.1 13.2 12.8 18.6 18.7 18.7 19.7 21.8

          22.0 18.2 23.1 20.6
 15        1    2    3    4    5    6    7    8    9   10

          14.0 17.4 15.4 16.1 16.4 16.7 17.2 17.5 18.9 26.9

 16        1    2    3    4    5    6    7    8    9   10

          26.9 18.8 17.5 17.3 16.6 16.3 16.1 15.4 17.6 14.3

 17        1    2    3    4    5    6    7
           8.5  8.6  8.5  8.8 10.0 12.7 10.6
 18        1    2    3    4    5    6    7
          10.4 12.4 10.1  8.7  8.4  8.6  8.4
1

 RECEIVER    LEQ(H)   L10
 103          47.1   49.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
           2.2  3.9  4.0  3.8  4.0  7.9
  2        1    2    3    4    5    6
          13.2 12.6 11.3 14.9 17.8 20.8
  3        1
          25.8
  4        1    2    3
          29.8 34.4 30.9
  5        1    2    3    4    5    6
          28.6 25.9 26.2 31.6 37.6 35.7
  6        1    2    3
          32.6 31.6 34.7
  7        1    2    3    4
          34.6 31.2 32.3 34.0
  8        1    2    3    4    5    6
          37.7 31.6 26.1 25.9 28.5 29.7
  9        1    2    3
          34.4 30.6 25.6
 10        1
          21.4
 11        1    2    3    4    5    6
          18.1 15.1 11.4 12.1 13.2 13.0
 12        1    2    3    4    5
           4.0  3.8  4.0  3.9  2.2
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          18.9 22.8 13.4 19.5 19.9 20.1 19.7 19.4 17.5 13.2

          13.1 13.4 12.9 12.3
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          12.3 12.8 13.3 13.4 13.0 17.5 19.5 19.5 20.5 20.0

          18.6 15.0 23.1 18.9
 15        1    2    3    4    5    6    7    8    9   10

          11.6 16.2 13.8 15.9 16.3 16.5 16.9 17.4 18.7 26.8

 16        1    2    3    4    5    6    7    8    9   10
```

```
          27.1 18.5 17.4 17.0 16.4 16.2 15.9 14.0 16.3 11.6

   17       1    2    3    4    5    6    7
           8.9  8.8  8.6  8.8 10.4 11.4  7.6
   18       1    2    3    4    5    6    7
           7.4 11.4 10.3  8.7  8.5  8.8  9.0
1

 RECEIVER    LEQ(H)   L10
 104          47.0   49.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           2.2  4.0  4.1  3.9  4.0  4.8
   2        1    2    3    4    5    6
           9.8 13.3 11.2 14.7 17.4 19.8
   3        1
          25.3
   4        1    2    3
          28.8 34.2 30.3
   5        1    2    3    4    5    6
          27.6 25.6 26.4 34.5 37.6 35.4
   6        1    2    3
          32.4 31.4 34.6
   7        1    2    3    4
          34.5 31.1 32.1 33.7
   8        1    2    3    4    5    6
          37.5 34.4 26.4 25.6 27.5 29.0
   9        1    2    3
          34.4 29.5 24.9
  10        1
          20.3
  11        1    2    3    4    5    6
          17.8 14.9 11.4 12.7 12.1  7.0
  12        1    2    3    4    5
           4.0  3.9  4.1  4.0  2.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.2 19.3 13.7 19.8 20.2 20.5 20.1 19.9 13.6 13.3

          13.2 13.5 13.0 12.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.4 12.9 13.4 13.5 13.0 13.6 20.0 19.9 20.9 20.3

          18.9 15.1 19.6 15.3
  15        1    2    3    4    5    6    7    8    9   10

          11.8 14.2 10.2 14.9 16.1 16.3 16.6 17.0 18.0 26.5

  16        1    2    3    4    5    6    7    8    9   10

          26.5 17.8 17.0 16.5 16.2 16.0 15.0 10.5 14.2 11.8

  17        1    2    3    4    5    6    7
           8.9  8.8  8.6  8.7 10.3 11.7  7.8
  18        1    2    3    4    5    6    7
           7.6 11.6 10.3  8.6  8.5  8.9  8.7
1

 RECEIVER    LEQ(H)   L10
 105          45.1   47.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.2  5.9  5.9  5.6  5.7  6.4
   2        1    2    3    4    5    6
           8.4  8.8  8.6 15.6 17.1 21.3
   3        1
          21.6
   4        1    2    3
          22.9 31.2 30.4
   5        1    2    3    4    5    6
          28.3 26.2 27.0 32.1 34.4 31.8
   6        1    2    3
          29.7 29.6 33.4
   7        1    2    3    4
          33.3 29.6 30.0 30.5
   8        1    2    3    4    5    6
          34.6 32.5 27.5 26.5 28.0 29.2
   9        1    2    3
          31.2 23.1 21.4
  10        1
          21.3
  11        1    2    3    4    5    6
          18.0 16.1  8.7  8.8  8.5  8.6
  12        1    2    3    4    5
           5.7  5.6  5.9  5.9  4.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.4 23.3 17.4 23.2 23.4 23.5 15.3 15.1 15.4 15.3

          15.1 16.0 16.7 15.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.7 16.6 15.7 15.4 15.0 15.3 15.1 15.0 23.8 23.4

          22.4 18.8 23.6 19.4
  15        1    2    3    4    5    6    7    8    9   10

          14.8 17.7 13.4 13.7 14.1 14.3 14.5 14.6 14.8 21.0

  16        1    2    3    4    5    6    7    8    9   10

          20.9 14.6 14.6 14.3 14.2 14.0 13.7 13.3 17.7 14.9

  17        1    2    3    4    5    6    7
           4.7  5.1  6.9 11.0 12.4 13.7 10.4
  18        1    2    3    4    5    6    7
          10.1 13.6 12.4 11.0  5.8  5.1  4.6
1

 RECEIVER    LEQ(H)   L10
 106          46.6   48.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.2  6.0  6.0  5.8  5.9  6.6
   2        1    2    3    4    5    6
           8.7  9.1 13.0 16.4 18.7 22.1
   3        1
          23.4
   4        1    2    3
          24.2 32.1 31.8
   5        1    2    3    4    5    6
          30.0 28.6 29.0 34.2 37.0 34.6
   6        1    2    3
          31.4 30.4 33.6
   7        1    2    3    4
          33.5 30.1 31.2 32.9
   8        1    2    3    4    5    6
          36.9 34.1 29.3 28.3 29.4 30.6
   9        1    2    3
          32.0 24.4 22.5
  10        1
          22.1
  11        1    2    3    4    5    6
          19.5 16.6 13.8  9.1  8.7  8.8
  12        1    2    3    4    5
           5.9  5.8  6.0  6.0  4.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.8 23.9 17.9 23.8 23.8 24.1 22.8 15.2 15.5 15.4

          15.3 15.5 14.9 15.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.4 14.8 15.4 15.6 15.0 15.5 15.3 22.5 24.4 23.9

          22.9 19.4 24.3 19.9
  15        1    2    3    4    5    6    7    8    9   10

          15.3 18.5 14.0 14.4 14.8 14.9 15.1 15.3 15.4 21.5

  16        1    2    3    4    5    6    7    8    9   10

          21.5 15.3 15.3 14.9 14.9 14.7 14.4 14.0 18.6 15.5

  17        1    2    3    4    5    6    7
           4.8  8.9 11.4 11.3 12.8 14.3 10.9
  18        1    2    3    4    5    6    7
          10.7 14.2 12.8 11.3 11.3  8.4  4.7
1

 RECEIVER    LEQ(H)   L10
 107          46.9   49.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.3  6.1  6.1  5.9  6.1  6.8
   2        1    2    3    4    5    6
           9.0 16.1 14.1 17.0 20.5 22.9
   3        1
          25.1
   4        1    2    3
          25.8 32.7 31.8
   5        1    2    3    4    5    6
          29.6 27.9 28.6 34.6 37.4 34.8
   6        1    2    3
          31.6 30.5 33.7
   7        1    2    3    4
          33.6 30.2 31.3 33.1
   8        1    2    3    4    5    6
          37.2 34.6 28.5 27.8 29.2 30.6
   9        1    2    3
          32.6 26.0 23.9
  10        1
          22.9
  11        1    2    3    4    5    6
          21.2 17.2 13.9 16.7  9.0  9.0
  12        1    2    3    4    5
           6.0  6.0  6.2  6.1  4.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.3 24.4 18.9 24.6 24.4 24.3 24.2 21.9 15.7 15.5

          15.4 15.7 15.1 14.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.5 15.0 15.5 15.6 15.2 15.6 22.1 23.9 24.7 24.5

          23.7 20.3 24.8 20.4
  15        1    2    3    4    5    6    7    8    9   10

          15.9 19.5 14.8 15.1 15.5 15.6 15.9 16.0 16.1 22.1

  16        1    2    3    4    5    6    7    8    9   10

          22.1 16.0 16.0 15.7 15.6 15.4 15.1 14.7 19.5 16.1

  17        1    2    3    4    5    6    7
           9.1 13.2 11.6 11.7 13.3 14.9 11.7
  18        1    2    3    4    5    6    7
          11.3 14.9 13.2 11.7 11.6 13.4  7.7
1

 RECEIVER    LEQ(H)   L10
 108          47.3   49.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.4  6.2  6.2  6.0  6.2  7.0
   2        1    2    3    4    5    6
          17.8 17.9 14.0 17.5 22.1 23.6
   3        1
          26.4
   4        1    2    3
          27.7 33.7 32.1
   5        1    2    3    4    5    6
          29.9 27.8 28.4 34.5 37.7 35.1
   6        1    2    3
          31.8 30.7 33.8
   7        1    2    3    4
          33.6 30.4 31.5 33.4
   8        1    2    3    4    5    6
          37.6 34.6 28.3 27.7 29.8 30.9
   9        1    2    3
          33.6 27.8 25.4
  10        1
          23.6
  11        1    2    3    4    5    6
          22.8 17.8 14.2 16.9 18.8 14.4
  12        1    2    3    4    5
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          6.1  6.1  6.2  6.2  4.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.7 24.8 19.2 25.4 24.8 24.6 24.2 24.8 20.8 15.5

          15.3 15.6 15.1 14.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.5 15.0 15.5 15.6 15.2 20.9 24.8 23.9 25.0 25.0

          24.5 20.7 25.1 20.7
  15        1    2    3    4    5    6    7    8    9   10

          16.9 20.0 15.2 15.6 16.0 16.2 16.5 16.5 16.6 22.5

  16        1    2    3    4    5    6    7    8    9   10

          22.5 16.5 16.5 16.3 16.1 15.9 15.6 15.1 20.0 17.1

  17        1    2    3    4    5    6    7
          14.7 12.0 12.0 12.1 13.8 15.5 13.5
  18        1    2    3    4    5    6    7
          13.1 15.4 13.9 12.0 11.8 12.1 14.8
1

 RECEIVER    LEQ(H)   L10
 109          48.4   50.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.8 10.3 16.9 16.9 17.1 17.9
   2        1    2    3    4    5    6
          20.4 15.2 14.7 18.4 24.2 24.9
   3        1
          28.5
   4        1    2    3
          31.3 35.5 33.7
   5        1    2    3    4    5    6
          31.8 30.7 30.9 35.6 38.1 35.3
   6        1    2    3
          31.9 30.8 33.8
   7        1    2    3    4
          33.7 30.5 31.6 33.6
   8        1    2    3    4    5    6
          37.9 35.5 30.7 30.6 31.7 32.6
   9        1    2    3
          35.4 31.2 28.7
  10        1
          25.0
  11        1    2    3    4    5    6
          24.8 18.7 14.9 15.2 19.0 20.2
  12        1    2    3    4    5
          17.1 16.9 17.0 16.8  6.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.4 25.6 20.0 26.2 26.2 25.3 24.5 24.6 26.2 21.3

          15.5 15.7 15.2 14.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.7 15.1 15.6 15.8 21.5 26.1 24.6 24.3 25.7 26.4

          25.3 21.5 25.9 21.5
  15        1    2    3    4    5    6    7    8    9   10

          18.5 21.2 16.4 16.8 17.1 17.4 17.6 17.6 17.4 23.1

  16        1    2    3    4    5    6    7    8    9   10

          23.1 17.3 17.5 17.4 17.2 17.0 16.8 16.3 21.2 18.5

  17        1    2    3    4    5    6    7
          13.6 12.5 12.6 13.0 14.8 18.1 14.7
  18        1    2    3    4    5    6    7
          14.4 18.0 14.7 12.9 12.4 12.5 13.8
1

 RECEIVER    LEQ(H)   L10
 110          50.4   52.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          16.4 18.3 18.5 18.6 18.5 17.0
   2        1    2    3    4    5    6
          16.2 16.1 15.7 19.6 26.5 27.0
   3        1
          30.0
   4        1    2    3
          34.6 41.0 37.6
   5        1    2    3    4    5    6
          34.5 31.5 31.4 36.0 38.3 35.3
   6        1    2    3
          31.9 30.7 33.7
   7        1    2    3    4
          33.6 30.4 31.6 33.7
   8        1    2    3    4    5    6
          38.2 35.9 31.2 31.3 34.3 36.3
   9        1    2    3
          40.8 37.1 32.0
  10        1
          27.5
  11        1    2    3    4    5    6
          26.7 21.6 16.0 16.1 16.1 17.8
  12        1    2    3    4    5
          16.6 18.1 18.5 18.3 16.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.8 26.6 21.0 27.2 27.6 26.7 25.4 25.0 26.2 27.2

          23.6 16.0 15.4 14.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.9 15.3 15.9 24.5 26.9 26.1 25.1 25.1 27.1 27.7

          26.4 22.6 27.0 22.8
  15        1    2    3    4    5    6    7    8    9   10

          19.6 22.2 17.5 18.0 20.4 22.2 22.8 23.0 22.8 28.5

  16        1    2    3    4    5    6    7    8    9   10

          28.5 22.7 23.0 22.6 22.1 20.6 18.0 17.4 22.1 19.6

  17        1    2    3    4    5    6    7
          12.8 13.4 13.7 14.2 17.8 20.0 15.9
  18        1    2    3    4    5    6    7
          15.7 20.0 17.5 14.1 13.5 13.4 12.7
1

 RECEIVER    LEQ(H)   L10
 111          50.6   52.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          16.9 18.9 19.2 19.2 17.5 17.8
   2        1    2    3    4    5    6
          16.8 16.9 16.5 20.5 27.9 28.4
   3        1
          30.7
   4        1    2    3
          35.3 41.5 37.9
   5        1    2    3    4    5    6
          34.7 31.6 31.4 35.9 38.1 35.1
   6        1    2    3
          31.5 30.3 33.3
   7        1    2    3    4
          33.2 30.0 31.3 33.4
   8        1    2    3    4    5    6
          38.0 35.9 31.3 31.4 34.5 36.6
   9        1    2    3
          41.2 36.7 32.3
  10        1
          28.4
  11        1    2    3    4    5    6
          28.3 21.8 16.8 16.9 16.9 17.8
  12        1    2    3    4    5
          17.6 17.6 18.9 18.9 17.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.8 27.8 22.2 28.4 28.9 27.2 26.0 25.7 26.6 27.7

          26.5 16.3 15.7 15.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.1 15.6 16.2 27.1 27.4 26.5 25.7 25.7 27.7 29.0

          27.5 23.6 28.1 23.9
  15        1    2    3    4    5    6    7    8    9   10

          20.5 22.9 18.1 18.7 19.4 22.3 23.5 23.4 23.2 28.8

  16        1    2    3    4    5    6    7    8    9   10

          28.7 23.1 23.3 23.3 22.3 19.4 18.7 18.0 22.9 20.4

  17        1    2    3    4    5    6    7
          13.6 14.2 14.5 15.0 17.7 20.6 16.6
  18        1    2    3    4    5    6    7
          16.4 20.6 17.3 14.9 14.3 14.2 13.5
1

 RECEIVER    LEQ(H)   L10
 112          50.4   52.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          17.3 19.2 19.5 19.6 20.2 21.4
   2        1    2    3    4    5    6
          23.6 17.7 17.2 20.9 27.7 30.9
   3        1
          30.7
   4        1    2    3
          35.0 41.6 37.8
   5        1    2    3    4    5    6
          34.3 31.2 31.0 35.4 37.5 34.4
   6        1    2    3
          30.8 28.2 30.8
   7        1    2    3    4
          31.0 28.5 30.6 32.7
   8        1    2    3    4    5    6
          37.4 35.3 30.8 31.0 34.2 36.4
   9        1    2    3
          41.3 35.2 30.0
  10        1
          29.8
  11        1    2    3    4    5    6
          28.5 21.2 17.3 17.7 21.5 23.5
  12        1    2    3    4    5
          20.1 19.6 19.5 19.2 17.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          26.1 30.4 24.8 31.4 27.3 27.2 26.6 26.6 28.2 27.8

          16.2 16.5 16.0 15.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.5 15.9 16.4 18.1 27.8 28.2 26.6 26.4 27.6 27.5

          30.4 26.2 30.7 26.1
  15        1    2    3    4    5    6    7    8    9   10

          20.1 24.5 19.3 19.6 19.9 20.2 20.4 20.9 21.5 28.9

  16        1    2    3    4    5    6    7    8    9   10

          28.8 21.4 20.9 20.3 20.2 19.8 19.6 19.2 24.4 20.5

  17        1    2    3    4    5    6    7
          15.9 15.0 15.1 15.4 17.1 18.6 17.4
  18        1    2    3    4    5    6    7
          16.7 18.5 17.1 15.3 15.0 15.0 16.1
1

 RECEIVER    LEQ(H)   L10
 113          47.6   49.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           5.3  7.1  7.3  7.3  7.8 19.7
   2        1    2    3    4    5    6
          24.3 23.8 17.6 21.0 21.9 31.5
```

```
  3        1
          30.8
  4        1    2    3
          31.0 36.5 34.3
  5        1    2    3    4    5    6
          32.4 30.2 29.7 33.2 33.7 29.0
  6        1    2    3
          25.4 24.2 27.3
  7        1    2    3    4
          27.3 24.0 25.2 27.4
  8        1    2    3    4    5    6
          33.8 33.5 29.8 30.6 32.7 33.3
  9        1    2    3
          36.4 31.1 30.2
 10        1
          31.6
 11        1    2    3    4    5    6
          24.3 21.2 17.8 22.4 24.3 23.8
 12        1    2    3    4    5
          15.8  7.6  7.4  7.1  5.3
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          26.7 26.6 21.0 27.0 27.2 27.4 27.2 27.8 26.1 16.3

          16.1 16.5 16.0 15.5
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          15.5 15.9 16.4 16.5 15.9 26.2 27.9 26.9 27.8 27.4

          26.2 22.5 27.0 27.6
 15        1    2    3    4    5    6    7    8    9   10

          19.1 23.3 22.3 22.6 21.6 21.2 21.2 21.2 21.3 27.8

 16        1    2    3    4    5    6    7    8    9   10

          27.8 21.2 21.2 21.0 21.2 21.5 22.5 22.4 23.5 19.1

 17        1    2    3    4    5    6    7
          19.8 15.6 15.4 15.6 16.9 18.4 14.9
 18        1    2    3    4    5    6    7
          14.7 18.2 17.0 15.5 15.3 15.9 19.8
1

 RECEIVER     LEQ(H)   L10
 114           45.9   47.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
          5.2  7.1  7.3  7.2  7.5  8.4
  2        1    2    3    4    5    6
          10.9 11.5 21.2 21.0 21.6 29.6
  3        1
          31.4
  4        1    2    3
          29.8 33.9 32.1
  5        1    2    3    4    5    6
          28.9 26.2 26.2 31.1 31.9 28.4
  6        1    2    3
          24.6 23.2 26.4
  7        1    2    3    4
          26.4 23.0 24.6 26.8
  8        1    2    3    4    5    6
          31.9 31.6 26.4 26.2 28.9 30.8
  9        1    2    3
          33.9 29.9 31.9
 10        1
          31.8
 11        1    2    3    4    5    6
          21.9 21.2 20.4 16.8 10.9 10.6
 12        1    2    3    4    5
          7.4  7.2  7.2  7.1  5.3
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          22.5 26.5 20.9 26.9 27.4 27.7 27.4 16.0 16.3 16.2

          16.1 16.5 16.0 15.5
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          15.5 15.9 16.3 16.4 15.9 16.3 16.1 27.2 28.1 27.4

          26.1 22.4 26.9 22.5
 15        1    2    3    4    5    6    7    8    9   10

          18.9 21.6 17.0 18.6 20.2 21.2 21.2 22.9 23.5 28.5

 16        1    2    3    4    5    6    7    8    9   10

          28.7 23.4 22.8 21.1 21.1 20.1 18.7 17.0 21.6 18.9

 17        1    2    3    4    5    6    7
          6.7 16.4 15.9 15.9 17.2 18.3 14.7
 18        1    2    3    4    5    6    7
          14.5 18.4 17.2 15.8 15.8 16.1  6.6
1

 RECEIVER     LEQ(H)   L10
 115           43.4   45.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
          14.3 16.2 16.7 16.6 16.9 17.5
  2        1    2    3    4    5    6
          17.0 14.7 14.0 16.8 17.1 17.8
  3        1
          28.9
  4        1    2    3
          30.9 30.4 29.5
  5        1    2    3    4    5    6
          26.4 23.0 22.7 26.6 28.0 24.5
  6        1    2    3
          21.8 21.4 25.3
  7        1    2    3    4
          25.3 21.3 21.8 23.0
  8        1    2    3    4    5    6
          28.1 26.8 22.8 23.0 26.4 28.1
  9        1    2    3
          30.6 31.2 30.2
 10        1
          18.0
 11        1    2    3    4    5    6
          17.2 16.8 13.9 14.6 14.7 20.1
 12        1    2    3    4    5
          17.1 17.0 17.0 16.5 14.6
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          15.0 19.2 13.6 19.8 20.3 20.6 20.2 25.4 26.9 25.4

          24.0 23.5 23.0 19.8
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          19.9 23.1 23.3 24.4 25.1 26.9 25.3 20.0 21.0 20.4

          18.9 15.1 19.5 15.0
 15        1    2    3    4    5    6    7    8    9   10

          11.9 14.0  8.9  9.0  9.3  9.3  9.4 15.7 18.3 28.2

 16        1    2    3    4    5    6    7    8    9   10

          28.1 18.2 15.3  9.3  9.3  9.2  9.0  8.8 14.0 11.9

 17        1    2    3    4    5    6    7
          10.3 10.6 10.3 10.1 11.1 11.9  8.0
 18        1    2    3    4    5    6    7
          7.7 11.9 11.1 10.0 10.2 10.6 11.0
1

 RECEIVER     LEQ(H)   L10
 116           43.6   45.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
          9.2 10.9 11.0 10.8 10.9 11.7
  2        1    2    3    4    5    6
          13.9 13.7 13.0 16.3 16.9 21.0
  3        1
          29.9
  4        1    2    3
          29.9 32.1 30.0
  5        1    2    3    4    5    6
          26.3 23.0 22.6 27.0 28.6 25.8
  6        1    2    3
          23.3 22.8 26.4
  7        1    2    3    4
          26.3 22.6 23.2 24.4
  8        1    2    3    4    5    6
          28.7 27.1 22.7 23.0 26.3 28.8
  9        1    2    3
          32.2 29.6 31.2
 10        1
          22.9
 11        1    2    3    4    5    6
          17.0 16.4 13.1 13.5 13.9 13.8
 12        1    2    3    4    5
          10.8 10.8 11.0 10.9  9.2
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          14.9 19.0 13.5 19.8 20.2 20.6 20.3 20.1 20.5 22.1

          24.0 23.3 23.8 21.8
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          24.0 21.9 23.1 24.5 21.2 20.4 20.2 20.0 21.0 20.3

          18.9 15.0 19.4 15.0
 15        1    2    3    4    5    6    7    8    9   10

          11.8 13.7  8.7  8.9 17.2 18.2 19.3 23.1 22.8 28.2

 16        1    2    3    4    5    6    7    8    9   10

          28.2 22.7 23.0 18.6 18.1 17.3  8.9  8.6 13.7 11.8

 17        1    2    3    4    5    6    7
          9.9 10.0  9.8  9.5 10.7 11.6  7.7
 18        1    2    3    4    5    6    7
          7.5 11.6 10.7  9.5  9.7 10.0  9.8
1

 RECEIVER     LEQ(H)   L10
 117           44.1   45.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
          9.0 10.7 10.8 10.5 10.6 11.4
  2        1    2    3    4    5    6
          13.0 13.0 12.6 16.1 18.4 25.1
  3        1
          29.7
  4        1    2    3
          29.0 33.4 30.1
  5        1    2    3    4    5    6
          26.6 23.3 23.0 27.4 29.6 27.2
  6        1    2    3
          24.4 23.5 26.9
  7        1    2    3    4
          26.9 23.2 24.2 25.6
  8        1    2    3    4    5    6
          29.7 27.5 23.1 23.3 26.5 28.9
  9        1    2    3
          33.5 28.9 30.5
 10        1
          26.6
 11        1    2    3    4    5    6
          19.0 16.2 12.7 13.0 12.9 13.5
 12        1    2    3    4    5
          10.5 10.5 10.8 10.7  9.1
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          14.9 18.9 13.4 19.6 20.1 20.4 20.1 20.0 20.3 20.2

          20.0 22.9 21.8 27.3
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          27.3 21.7 22.6 20.3 19.9 20.3 20.0 19.8 20.8 20.1

          18.7 14.9 19.3 14.9
 15        1    2    3    4    5    6    7    8    9   10

          11.5 16.3 17.3 17.7 18.0 21.0 23.1 22.9 22.7 28.1

 16        1    2    3    4    5    6    7    8    9   10
```

```
          28.1 22.6 22.8 22.9 20.9 17.9 17.6 17.3 16.8 11.6

  17        1    2    3    4    5    6    7
           9.2  9.6  9.4  9.2 10.3 11.2  7.5
  18        1    2    3    4    5    6    7
           7.2 11.3 10.4  9.2  9.3  9.6  9.1
1

 RECEIVER    LEQ(H)   L10
 118          44.9   46.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           8.9 10.6 10.7 10.4 10.4 10.7
   2        1    2    3    4    5    6
          12.6 12.8 12.5 16.1 20.5 27.0
   3        1
          29.6
   4        1    2    3
          29.8 34.5 30.6
   5        1    2    3    4    5    6
          27.2 24.1 24.0 28.5 30.8 28.2
   6        1    2    3
          25.0 24.5 27.9
   7        1    2    3    4
          28.0 24.4 24.9 26.6
   8        1    2    3    4    5    6
          30.8 28.5 23.9 24.0 27.1 29.3
   9        1    2    3
          34.3 29.9 30.3
  10        1
          29.0
  11        1    2    3    4    5    6
          21.1 16.2 12.6 12.8 12.6 12.8
  12        1    2    3    4    5
          10.2 10.5 10.7 10.6  9.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.4 26.4 20.9 24.1 20.1 20.3 20.1 19.8 20.3 20.1

          19.9 20.2 20.4 20.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.6 20.1 20.1 20.3 19.8 20.2 19.9 19.8 20.7 20.1

          23.2 22.3 26.8 22.5
  15        1    2    3    4    5    6    7    8    9   10

          11.9 22.1 17.2 17.6 21.6 23.0 23.0 22.7 22.6 28.1

  16        1    2    3    4    5    6    7    8    9   10

          28.1 22.4 22.7 22.8 22.8 21.6 17.6 17.2 22.1 13.3

  17        1    2    3    4    5    6    7
           8.8  9.4  9.2  9.0 10.2 11.3  9.8
  18        1    2    3    4    5    6    7
           7.3 11.2 10.2  9.0  9.1  9.3  8.8
1

 RECEIVER    LEQ(H)   L10
 119          45.7   47.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           8.6 10.2 10.2  9.7  9.7 10.2
   2        1    2    3    4    5    6
          12.1 12.4 12.1 18.0 20.6 28.0
   3        1
          28.9
   4        1    2    3
          31.8 34.3 30.7
   5        1    2    3    4    5    6
          27.5 24.4 24.3 29.0 31.5 29.1
   6        1    2    3
          27.9 28.6 32.5
   7        1    2    3    4
          32.4 28.5 28.0 27.6
   8        1    2    3    4    5    6
          31.4 28.9 24.3 24.4 27.4 29.4
   9        1    2    3
          34.2 30.9 28.5
  10        1
          29.7
  11        1    2    3    4    5    6
          21.0 18.6 12.3 12.4 12.1 12.4
  12        1    2    3    4    5
           9.7  9.9 10.2 10.2  8.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.2 26.2 20.6 26.8 26.9 20.1 19.7 19.6 19.9 19.8

          19.6 19.8 19.3 19.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.5 19.2 19.7 19.9 19.5 19.8 19.6 19.4 20.5 27.2

          26.0 22.1 26.6 22.3
  15        1    2    3    4    5    6    7    8    9   10

          19.2 21.8 17.0 21.9 22.6 22.7 22.7 22.6 22.4 27.9

  16        1    2    3    4    5    6    7    8    9   10

          27.9 22.3 22.6 22.6 22.6 22.5 22.0 16.9 21.8 19.3

  17        1    2    3    4    5    6    7
           8.4  8.9  8.8  8.8 14.2 19.1 15.3
  18        1    2    3    4    5    6    7
          15.1 19.1 13.1  8.8  8.6  8.9  8.3
1

 RECEIVER    LEQ(H)   L10
 120          43.9   45.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           7.8  9.5  9.5  9.2  9.3  9.8
   2        1    2    3    4    5    6
          11.3 11.5 11.1 14.7 18.9 25.6
   3        1
          27.2
   4        1    2    3
          28.3 31.2 27.9
   5        1    2    3    4    5    6
          25.3 22.7 22.8 27.6 31.0 28.8
   6        1    2    3
          27.8 28.5 32.5
   7        1    2    3    4
          32.4 28.3 27.6 27.2
   8        1    2    3    4    5    6
          30.9 27.7 22.8 22.7 25.3 26.8
   9        1    2    3
          31.2 28.3 25.9
  10        1
          25.2
  11        1    2    3    4    5    6
          19.4 15.1 11.2 11.4 11.3 11.8
  12        1    2    3    4    5
           9.2  9.3  9.5  9.5  7.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.1 25.4 19.8 24.6 19.0 19.3 19.0 18.8 19.2 19.0

          20.1 21.3 21.0 17.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.5 20.8 21.2 20.1 18.7 19.1 18.9 18.7 19.6 19.1

          24.0 21.3 25.8 21.2
  15        1    2    3    4    5    6    7    8    9   10

          13.7 20.8 15.9 16.1 16.5 16.6 16.8 16.8 16.7 22.4

  16        1    2    3    4    5    6    7    8    9   10

          22.4 16.6 16.8 16.6 16.5 16.3 16.1 15.8 20.8 14.5

  17        1    2    3    4    5    6    7
           7.6  8.1  7.9  7.8  9.0 10.1 13.1
  18        1    2    3    4    5    6    7
          12.0 10.0  9.0  7.7  7.8  8.1  7.5
1

 RECEIVER    LEQ(H)   L10
 121          43.2   45.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           2.3  4.0  4.1  3.9  4.1  4.7
   2        1    2    3    4    5    6
           6.9  7.3 10.5 14.2 16.1 18.2
   3        1
          19.4
   4        1    2    3
          26.4 32.5 29.4
   5        1    2    3    4    5    6
          26.0 23.0 22.9 27.9 31.6 30.1
   6        1    2    3
          28.3 27.4 30.6
   7        1    2    3    4
          30.5 27.1 28.1 28.4
   8        1    2    3    4    5    6
          31.5 28.0 22.9 22.9 26.0 28.2
   9        1    2    3
          32.5 26.6 19.7
  10        1
          18.1
  11        1    2    3    4    5    6
          16.5 14.4 11.3  7.3  6.9  6.9
  12        1    2    3    4    5
           4.0  3.9  4.2  4.0  2.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.3 19.3 13.7 19.9 20.3 20.6 19.1 13.2 13.6 13.4

          13.3 13.5 14.7 13.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.7 14.4 13.4 13.6 13.1 13.5 13.3 18.9 21.0 20.4

          19.0 15.1 19.6 15.3
  15        1    2    3    4    5    6    7    8    9   10

          11.9 14.1  9.2  9.5  9.9 10.0 10.4 15.0 16.2 23.3

  16        1    2    3    4    5    6    7    8    9   10

          23.3 16.1 14.9 10.2  9.9  9.8  9.4  9.1 14.1 11.9

  17        1    2    3    4    5    6    7
           3.0  6.2  8.6  8.5  9.8 11.3  7.8
  18        1    2    3    4    5    6    7
           7.6 11.2  9.9  8.5  8.6  5.7  2.9
```

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                    ************************
                           STAM2VU1
                         Version 1.20
                    ************************
                       STAMINA 2.0/BCR
              MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
                TRAFFIC NOISE PREDICTION MODEL

         MODIFIED TO:
           1.   ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
           2.   CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY
                USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
           3.   PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A
                DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE
                LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.
                    ************************
            MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
                BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
                        AND BOWLBY & ASSOCIATES, INC.
                          2014 BROADWAY, SUITE 210
                          NASHVILLE, TN 37203-2425
                      TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE
HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK
CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE
*.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.

         (INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH )

 Meadowood - Single-Family 2nd Floor (Receivers 42-81)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

      HEIGHT      CODE          DESCRIPTION
        .00         1      RECEIVER HEIGHT ADJUSTMENT
       1.00         2      A-WEIGHTED SOUND LEVEL ONLY
        .00         3      HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
        .00         4      HEIGHT ADJUSTMENT FOR HEAVY TRUCKS   (HT)
        .00         5      HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS  (MT)
       .000         6      HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4)
                           CARS--CALVENO
                           C0 =       5.20  C1 =      38.80  S0 =        .00
      2.300         7      HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5)
                           MT--CALVENO
                           C0 =      35.30  C1 =      25.60  S0 =        .00
      8.000         8      HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6)
                           HT--CALVENO
                           C0 =      50.40  C1 =      19.20  S0 =        .00

0ROADWAY   1     HRC nb (76 to Pankey)

                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS               0.        30.0
                       HT                 0.        30.0
                       MT                 0.        30.0
                       VEH4             415.        40.0
                       VEH5              13.        40.0
                       VEH6               9.        40.0
0                     ------------COORDINATES-------------
                          X           Y            Z      GRADE
 1                    6287767.4   2067284.0      276.0       0
 2                    6287704.7   2067456.2      276.0       0
 3                    6287629.7   2067702.5      279.0       0
 4                    6287568.8   2067936.5      284.0       0
 5                    6287512.3   2068148.3      284.0       0
 6                    6287446.9   2068359.4      282.0       0
 7                    6287374.5   2068606.6      279.0       0

0ROADWAY   2     HRC nb (Pankey to School)

                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS               0.        30.0
                       HT                 0.        30.0
                       MT                 0.        30.0
                       VEH4             695.        40.0
                       VEH5              22.        40.0
                       VEH6              15.        40.0
0                     ------------COORDINATES-------------
                          X           Y            Z      GRADE
 7                    6287374.5   2068606.6      279.0       0
 8                    6287273.9   2068832.6      278.0       0
 9                    6287137.9   2069057.7      278.0       0
 10                   6287017.0   2069263.4      280.0       0
 11                   6286760.9   2069688.9      285.0       0
 12                   6286533.2   2070137.4      290.0       0
 13                   6286310.7   2070587.7      296.0       0

0ROADWAY   3     HRC nb (School to 26)

                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS               0.        30.0
                       HT                 0.        30.0
                       MT                 0.        30.0
                       VEH4             689.        40.0
                       VEH5              22.        40.0
                       VEH6              15.        40.0
0                     ------------COORDINATES-------------
                          X           Y            Z      GRADE
 13                   6286310.7   2070587.7      296.0       0
 14                   6286086.4   2071030.0      302.0       0

0ROADWAY   4     HRC nb (26 to Harvest Glen)

                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS               0.        30.0
                       HT                 0.        30.0
                       MT                 0.        30.0
                       VEH4             634.        40.0
                       VEH5              20.        40.0
                       VEH6              13.        40.0
0                     ------------COORDINATES-------------
                          X           Y            Z      GRADE
 14                   6286086.4   2071030.0      302.0       0
 15                   6285859.5   2071475.8      308.0       0
 16                   6285540.8   2072106.2      311.0       0
 17                   6285403.1   2072385.2      310.0       0

0ROADWAY   5     HRC nb (Harvest Glen to Longspur)

                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS               0.        30.0
                       HT                 0.        30.0
                       MT                 0.        30.0
                       VEH4             488.        40.0
                       VEH5              15.        40.0
                       VEH6              10.        40.0
0                     ------------COORDINATES-------------
                          X           Y            Z      GRADE
 17                   6285403.1   2072385.2      310.0       0
 18                   6285328.1   2072574.1      310.0       0
 19                   6285298.0   2072673.9      310.0       0
 20                   6285270.7   2072773.6      311.0       0
 21                   6285221.2   2073078.2      314.0       0
 22                   6285201.8   2073673.3      322.0       0
 23                   6285188.6   2074037.0      338.0       0

0ROADWAY   6     HRC nb (Longspur to Baltimore)

                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS               0.        30.0
                       HT                 0.        30.0
                       MT                 0.        30.0
                       VEH4             347.        40.0
                       VEH5              11.        40.0
                       VEH6               7.        40.0
0                     ------------COORDINATES-------------
                          X           Y            Z      GRADE
 23                   6285188.6   2074037.0      338.0       0
 24                   6285145.3   2074308.9      346.0       0
 25                   6285056.1   2074546.4      351.0       0
 26                   6284650.0   2075149.4      356.0       0

0ROADWAY   7     HRC sb (Baltimore to Longspur)

                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS               0.        30.0
                       HT                 0.        30.0
                       MT                 0.        30.0
                       VEH4             347.        40.0
                       VEH5              11.        40.0
                       VEH6               7.        40.0
0                     ------------COORDINATES-------------
                          X           Y            Z      GRADE
 1                    6284621.8   2075132.6      356.0       0
 2                    6285015.5   2074527.9      351.0       0
 3                    6285099.4   2074300.1      346.0       0
 4                    6285141.8   2074033.5      338.0       0
 5                    6285159.4   2073671.5      322.0       0

0ROADWAY   8     HRC sb (Longspur to Harvest Glen)

                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS               0.        30.0
                       HT                 0.        30.0
                       MT                 0.        30.0
                       VEH4             488.        40.0
                       VEH5              15.        40.0
                       VEH6              10.        40.0
0                     ------------COORDINATES-------------
                          X           Y            Z      GRADE
 5                    6285159.4   2073671.5      322.0       0
 6                    6285181.5   2073072.9      314.0       0
 7                    6285228.3   2072759.5      311.0       0
 8                    6285256.5   2072658.0      310.0       0
 9                    6285287.4   2072557.3      310.0       0
 10                   6285368.7   2072369.3      310.0       0
 11                   6285504.6   2072087.7      311.0       0

0ROADWAY   9     HRC sb (Harvest Glen to 26)

                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS               0.        30.0
                       HT                 0.        30.0
                       MT                 0.        30.0
                       VEH4             634.        40.0
                       VEH5              20.        40.0
                       VEH6              13.        40.0
0                     ------------COORDINATES-------------
                          X           Y            Z      GRADE
 11                   6285504.6   2072087.7      311.0       0
 12                   6285818.9   2071457.3      308.0       0
 13                   6286045.8   2071007.9      302.0       0
 14                   6286269.2   2070567.4      296.0       0

0ROADWAY  10     HRC sb (26 to School)

                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS               0.        30.0
                       HT                 0.        30.0
                       MT                 0.        30.0
                       VEH4             689.        40.0
                       VEH5              22.        40.0
                       VEH6              14.        40.0
0                     ------------COORDINATES-------------
                          X           Y            Z      GRADE
 14                   6286269.2   2070567.4      296.0       0
 15                   6286493.4   2070122.4      290.0       0

0ROADWAY  11     HRC sb (School to Pankey)

                  VEHICLE TYPE   VEHICLES/HOUR     SPEED
                       CARS               0.        30.0
                       HT                 0.        30.0
                       MT                 0.        30.0
                       VEH4             695.        40.0
                       VEH5              22.        40.0
                       VEH6              15.        40.0
0                     ------------COORDINATES-------------
                          X           Y            Z      GRADE
 15                   6286493.4   2070122.4      290.0       0
 16                   6286720.3   2069667.7      285.0       0
 17                   6286977.2   2069239.6      280.0       0
 18                   6287102.6   2069033.0      278.0       0
 19                   6287238.6   2068813.1      278.0       0
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20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0

	COORDINATES X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

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BARRIER 1 TYPE(A) Pad Edges 1

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286634.5	2070357.1	300.0	300.0	.0	0
2	6286502.0	2070298.3	300.0	300.0		
3	6286265.1	2070793.1	310.0	310.0		
4	6286320.9	2070828.5	310.0	310.0		

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BARRIER 2 TYPE(A) Pad Edges 2

	COORDINATES X	Y	Z	Z0	DELZ	P
5	6286349.5	2070944.8	315.0	315.0	.0	0
6	6286239.3	2070896.7	314.0	314.0		
7	6286196.9	2070902.4	314.0	314.0		
8	6286078.1	2071137.0	311.0	311.0		
9	6286004.6	2071292.5	316.0	316.0		
10	6286004.6	2071603.5	317.0	317.0		
11	6286004.6	2071990.8	321.0	321.0		
12	6286004.5	2072360.7	324.0	324.0		
13	6286289.0	2072499.4	326.0	326.0		
14	6286498.0	2072566.2	329.0	329.0		

1

BARRIER 3 TYPE(A) Pad Edges 3

	COORDINATES X	Y	Z	Z0	DELZ	P
15	6286634.5	2072765.6	395.0	395.0	.0	0
16	6286621.9	2072916.9	395.0	395.0		
17	6286648.3	2073055.3	397.0	397.0		
18	6286685.9	2073120.3	400.0	400.0		
19	6286802.5	2073223.1	408.0	408.0		
20	6286939.8	2073344.0	421.0	421.0		
21	6287080.9	2073468.3	434.0	434.0		
22	6287179.3	2073554.7	442.0	442.0		
23	6287319.9	2073660.5	447.0	447.0		

1

BARRIER 4 TYPE(A) Pad Edges 4

	COORDINATES X	Y	Z	Z0	DELZ	P
24	6286661.4	2072669.3	399.0	399.0	.0	0
25	6286691.4	2072606.8	402.0	402.0		
26	6286808.6	2072443.9	413.0	413.0		
27	6286883.6	2072343.9	420.0	420.0		
28	6286840.1	2072178.6	425.0	425.0		
29	6286812.9	2072107.3	425.0	425.0		
30	6286826.1	2072043.3	425.0	425.0		
31	6286826.1	2072043.3	425.0	425.0		
32	6286852.2	2071992.5	425.0	425.0		
33	6286902.8	2071961.7	425.0	425.0		

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BARRIER 5 TYPE(A) Pad Edges 5

	COORDINATES X	Y	Z	Z0	DELZ	P
33	6286902.8	2071961.7	425.0	425.0	.0	0
34	6286962.6	2071945.7	425.0	425.0		
35	6287015.8	2071960.1	425.0	425.0		
36	6287071.5	2071996.1	425.0	425.0		
37	6287133.1	2072101.5	433.0	433.0		
38	6287208.1	2072073.0	440.0	440.0		
39	6287286.5	2072058.4	443.0	443.0		
40	6287479.3	2072046.8	454.0	454.0		
41	6287668.5	2072035.1	465.0	465.0		
41b	6287685.1	2071982.5	494.0	494.0		

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BARRIER 6 TYPE(A) Pad Edges 6

	COORDINATES X	Y	Z	Z0	DELZ	P
41b	6287685.1	2071982.5	494.0	494.0	.0	0
42	6287686.6	2071882.5	494.0	494.0		
42b	6287699.0	2071869.6	494.0	494.0		
43	6287687.4	2071826.0	494.0	494.0		
44	6287537.5	2071795.8	493.0	493.0		
45	6287494.5	2071766.0	493.0	493.0		
46	6287457.5	2071786.6	493.0	493.0		
47	6287414.4	2071765.2	493.0	493.0		
48	6287295.5	2071799.6	493.0	493.0		
49	6287284.9	2071649.7	489.0	489.0		

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BARRIER 7 TYPE(A) Pad Edges 7

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
49	6287284.9	2071649.7	489.0	489.0	.0	0
50	6287348.9	2071527.3	487.0	487.0		
51	6287424.5	2071350.9	481.0	481.0		
52	6287467.2	2071294.2	479.0	479.0		
53	6287518.6	2071247.5	477.0	477.0		

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BARRIER 8 TYPE(A) Pad Edges 8

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
54	6287218.1	2070892.1	417.0	417.0	.0	0
55	6287157.9	2071011.8	422.0	422.0		
56	6287075.2	2071176.2	427.0	427.0		
57	6287007.6	2071272.7	427.0	427.0		
58	6286932.0	2071401.6	427.0	427.0		
59	6286944.0	2071476.9	427.0	427.0		
60	6286980.6	2071530.1	427.0	427.0		
61	6287085.3	2071587.4	427.0	427.0		
61b	6287195.3	2071545.3	430.0	430.0		

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BARRIER 9 TYPE(A) Pad Edges 9

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
62	6287504.8	2073407.6	464.0	464.0	.0	0
63	6287455.9	2073368.6	463.0	463.0		
64	6287170.1	2073077.7	459.0	459.0		
65	6287084.1	2072959.0	458.0	458.0		
66	6287062.5	2072812.7	457.0	457.0		
67	6287098.4	2072672.4	456.0	456.0		
68	6287206.8	2072488.9	454.0	454.0		
69	6287296.9	2072394.7	453.0	453.0		
70	6287367.3	2072346.7	452.0	452.0		
71	6287469.2	2072361.5	452.0	452.0		

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BARRIER 10 TYPE(A) Pad Edges 10

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
72	6287697.7	2073088.0	486.0	486.0	.0	0
73	6287547.5	2072976.4	486.0	486.0		
74	6287491.4	2072888.6	486.0	486.0		
75	6287491.1	2072766.9	485.0	485.0		
76	6287635.8	2072596.6	482.0	482.0		
77	6287767.5	2072309.5	477.0	477.0		

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BARRIER 11 TYPE(A) Pad Edges 11

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
78	6287168.3	2074113.6	447.0	447.0	.0	0
79	6287306.7	2073811.7	443.0	443.0		
80	6287536.9	2073481.4	457.0	457.0		

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BARRIER 12 TYPE(A) Pad Edges 12

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
81	6287283.0	2074170.1	465.0	465.0	.0	0
82	6287469.8	2073845.2	471.0	471.0		
82b	6287616.6	2073652.3	478.0	478.0		
82c	6287630.6	2073609.8	478.0	478.0		
83	6287702.0	2073532.9	475.0	475.0		

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BARRIER 13 TYPE(A) Pad Edges 14

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
84	6288855.6	2071200.7	606.0	606.0	.0	0
85	6288817.6	2071249.1	606.0	606.0		
85b	6288817.1	2071249.5	600.0	600.0		
85c	6288775.2	2071293.2	600.0	600.0		
85d	6288774.8	2071293.5	593.0	593.0		
86	6288730.6	2071333.3	593.0	593.0		
86b	6288730.4	2071333.5	585.0	585.0		
87	6288637.1	2071415.2	574.0	574.0		
87b	6288636.6	2071415.5	558.0	558.0		
87c	6288577.5	2071447.1	558.0	558.0		

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BARRIER 14 TYPE(A) Pad Edges 15

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
87c	6288577.5	2071447.1	558.0	558.0	.0	0
87d	6288576.6	2071447.3	542.0	542.0		
87e	6288512.6	2071462.6	542.0	542.0		
87f	6288512.2	2071462.7	535.0	535.0		
87g	6288454.3	2071466.7	535.0	535.0		
87h	6288453.5	2071466.7	528.0	528.0		
87i	6288396.4	2071470.4	528.0	528.0		

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BARRIER 15 TYPE(A) Pad Edges 16

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
88	6287934.8	2071070.6	463.0	463.0	.0	0
89	6287896.0	2071051.1	461.0	461.0		
90	6287829.7	2071017.7	457.0	457.0		
91	6287774.3	2070989.8	452.0	452.0		
92	6287719.9	2070962.3	446.0	446.0		
93	6287660.0	2070932.2	438.0	438.0		
94	6287602.9	2070903.4	431.0	431.0		
95	6287558.2	2070880.9	426.0	426.0		
96	6287504.6	2070853.9	426.0	426.0		
97	6287457.4	2070947.6	426.0	426.0		

1

BARRIER 16 TYPE(A) Pad Edges 17

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
98	6287917.7	2071215.4	471.0	471.0	.0	0
99	6288056.8	2071153.4	487.0	487.0		
100	6288174.3	2071168.6	499.0	499.0		
101	6288341.6	2071223.3	517.0	517.0		
102	6288383.4	2071229.3	517.0	517.0		
103	6288411.9	2071206.0	518.0	518.0		

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BARRIER 17 TYPE(A) Pade Edges 18

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
104	6287531.1	2074308.7	483.0	483.0	.0	0
105	6287706.9	2074046.2	487.0	487.0		
106	6287847.9	2073869.2	491.0	491.0		
107	6287887.1	2073856.0	493.0	493.0		

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BARRIER 18 TYPE(A) Pad Edges 19

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
108a	6287776.1	2074544.5	503.0	503.0	.0	0
108b	6287725.5	2074618.8	503.0	503.0		
109	6287778.2	2074656.5	513.0	513.0		
110	6287798.1	2074702.8	518.0	518.0		
111	6287807.8	2074744.0	518.0	518.0		

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BARRIER 19 TYPE(A) topo

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
101	6288085.4	2071071.8	480.0	480.0	.0	0
102	6288126.7	2071075.6	490.0	490.0		
103	6288184.4	2071080.1	500.0	500.0		
104	6288251.7	2071097.2	510.0	510.0		
105	6288303.1	2071102.9	520.0	520.0		
106	6288351.3	2071117.5	520.0	520.0		
107	6288405.9	2071126.4	520.0	520.0		
108	6288430.0	2071156.2	520.0	520.0		
109	6288449.0	2071195.5	520.0	520.0		
110	6288523.0	2071244.5	520.0	520.0		

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BARRIER 20 TYPE(A) topo cont.

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
110	6288523.0	2071244.5	520.0	520.0	.0	0
111	6288548.5	2071277.9	540.0	540.0		
112	6288475.2	2071383.9	540.0	540.0		
113	6288552.4	2071426.4	550.0	550.0		
114	6288585.8	2071413.3	560.0	560.0		
115	6288606.7	2071398.3	570.0	570.0		
116	6288659.1	2071359.7	580.0	580.0		
117	6288723.8	2071295.6	590.0	590.0		
118	6288785.3	2071224.9	600.0	600.0		
119	6288860.6	2071169.9	610.0	610.0		

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Receivers @ 15'

	----------COORDINATES----------		
	X	Y	Z
42	6287209.4	2070932.6	431.0
43	6287178.7	2070993.6	433.0
44	6287124.4	2071102.2	439.0
45	6287070.4	2071208.9	442.0
46	6287011.5	2071313.5	442.0
47	6286953.5	2071473.5	441.0
48	6287522.5	2070876.7	440.0
49	6287583.7	2070904.9	445.0
50	6287641.1	2070934.2	452.0
51	6287698.8	2070963.5	461.0
52	6287753.1	2070989.9	466.0
53	6287807.4	2071017.6	471.0
54	6287863.0	2071046.2	475.0
55	6287917.2	2071073.2	477.0
56	6287991.1	2071192.0	486.0
57	6288126.8	2071166.8	502.0
58	6288204.0	2071190.3	513.0
59	6288260.7	2071208.1	523.0
60	6288313.9	2071224.5	528.0
61	6288362.9	2071239.5	531.0
62	6288406.6	2071227.5	532.0
63	6288483.4	2071474.3	549.0
64	6288549.4	2071464.5	557.0
65	6288609.3	2071442.1	573.0
66	6288668.5	2071402.8	588.0
67	6288714.7	2071361.7	599.0
68	6288759.5	2071320.9	607.0
69	6288803.3	2071278.6	615.0
70	6288841.8	2071234.7	620.0
71	6287500.6	2071278.0	492.0
72	6287443.5	2071343.1	494.0
73	6287391.9	2071446.5	498.0
74	6287340.0	2071566.7	502.0
75	6287299.9	2071702.6	505.0
76	6287610.5	2071800.0	508.0
77	6287697.0	2071890.8	509.0
78	6287687.1	2072010.9	480.0
79	6287626.5	2072047.9	476.0
80	6287511.7	2072055.9	468.0
81	6287331.8	2072066.2	458.0

1

ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 10 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 11 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 12 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 13 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 14 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 15 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 16 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 17 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 18 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
1

 SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

  1 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  2 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  3 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  4 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  5 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  6 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
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        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  7 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
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        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  8 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
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        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  9 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
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        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 10 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
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        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 11 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 12 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 13 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
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        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 14 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 15 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 16 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 17 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 18 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
1

 RECEIVER    LEQ(H)   L10
 42           56.1   57.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            26.4 28.5 29.0 29.4 30.2 31.8
    2        1    2    3    4    5    6
            34.9 36.2 36.9 41.8 44.1 43.4
    3        1
            41.5
    4        1    2    3
            38.9 41.1 35.6
    5        1    2    3    4    5    6
            31.6 28.1 27.7 31.9 33.5 30.1
    6        1    2    3
            24.8 21.9 24.9
    7        1    2    3    4
            25.5 22.5 25.2 28.6
    8        1    2    3    4    5    6
            33.5 31.9 27.7 28.0 31.5 34.4
    9        1    2    3
            41.3 40.2 42.4
   10        1
            43.3
   11        1    2    3    4    5    6
            43.8 41.6 36.8 36.0 34.8 33.9
   12        1    2    3    4    5
            30.1 29.4 29.0 28.5 26.4
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            30.8 35.2 29.7 36.1 36.8 37.2 37.0 36.8 37.2 37.1

            37.0 37.5 37.0 36.7
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            36.7 37.0 37.4 37.4 36.8 37.2 37.0 36.8 37.7 36.9

            35.3 31.3 35.6 30.9
   15        1    2    3    4    5    6    7    8    9   10

            29.1 32.1 27.4 27.7 27.9 27.9 27.8 27.4 27.0 32.1

   16        1    2    3    4    5    6    7    8    9   10

            32.0 26.9 27.3 27.6 27.8 27.8 27.6 27.2 32.0 29.1

   17        1    2    3    4    5    6    7
            30.0 30.3 29.9 29.2 29.8 30.1 25.7
   18        1    2    3    4    5    6    7
            25.5 30.1 29.8 29.1 29.7 30.3 29.8
1

 RECEIVER    LEQ(H)   L10
 43           56.0   57.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            26.2 28.3 28.8 29.2 30.0 31.5
    2        1    2    3    4    5    6
            34.6 35.9 36.5 41.4 43.8 43.0
    3        1
            41.8
    4        1    2    3
            39.2 41.5 35.9
    5        1    2    3    4    5    6
            31.8 28.3 28.0 32.1 33.7 30.4
    6        1    2    3
            25.3 20.6 24.0
    7        1    2    3    4
            25.4 22.7 26.7 28.8
    8        1    2    3    4    5    6
            33.7 32.2 27.9 28.3 31.8 34.7
    9        1    2    3
            41.6 41.2 42.5
   10        1
            43.1
   11        1    2    3    4    5    6
            43.6 41.3 36.5 35.7 34.5 33.6
   12        1    2    3    4    5
            29.8 29.1 28.8 28.3 26.2
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            30.7 35.0 29.6 36.0 36.7 37.1 36.8 36.6 37.0 36.9

            36.8 37.3 36.8 36.5
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            36.5 36.8 37.2 37.2 36.6 37.0 36.8 36.6 37.5 36.8

            35.2 31.2 35.4 30.8
   15        1    2    3    4    5    6    7    8    9   10

            29.0 31.9 27.2 27.6 27.8 27.8 27.7 27.4 27.0 32.0

   16        1    2    3    4    5    6    7    8    9   10

            32.0 26.8 27.3 27.5 27.7 27.7 27.5 27.1 31.9 29.0

   17        1    2    3    4    5    6    7
            29.7 30.1 29.6 29.0 29.6 29.9 25.6
   18        1    2    3    4    5    6    7
            25.3 29.9 29.6 28.9 29.5 30.0 29.6
1

 RECEIVER    LEQ(H)   L10
 44           55.9   57.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            25.8 28.0 28.5 28.8 29.5 31.1
    2        1    2    3    4    5    6
            34.1 35.4 36.0 40.9 43.2 42.8
    3        1
            41.9
    4        1    2    3
            40.1 42.3 36.4
    5        1    2    3    4    5    6
            32.3 28.8 28.4 32.6 34.2 29.7
    6        1    2    3
            22.4 21.4 25.0
    7        1    2    3    4
            25.0 21.2 22.5 28.8
    8        1    2    3    4    5    6
            34.1 32.6 28.4 28.7 32.3 35.2
    9        1    2    3
            42.2 41.9 42.8
   10        1
            42.9
   11        1    2    3    4    5    6
            43.0 40.7 35.9 35.2 34.1 33.2
   12        1    2    3    4    5
            29.4 28.8 28.4 28.0 25.9
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            30.5 34.8 29.4 35.8 36.4 36.8 36.5 36.3 36.7 36.6
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```
          36.5 36.9 36.5 36.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.1 36.4 36.8 36.9 36.3 36.7 36.5 36.3 37.3 36.6

          35.0 30.9 35.2 30.6
  15        1    2    3    4    5    6    7    8    9   10

          28.7 31.7 27.0 27.4 27.6 27.6 27.6 27.2 26.8 32.0

  16        1    2    3    4    5    6    7    8    9   10

          31.9 26.7 27.2 27.4 27.5 27.5 27.3 26.9 31.6 28.7

  17        1    2    3    4    5    6    7
          29.3 29.7 29.3 28.7 29.2 29.6 25.3
  18        1    2    3    4    5    6    7
          25.0 29.6 29.2 28.6 29.1 29.6 29.1
1

 RECEIVER    LEQ(H)   L10
 45           55.8   57.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.5 27.6 28.1 28.4 29.2 30.7
   2        1    2    3    4    5    6
          33.7 34.9 35.5 40.3 42.7 42.4
   3        1
          41.9
   4        1    2    3
          40.8 42.9 36.9
   5        1    2    3    4    5    6
          32.8 29.3 28.9 33.0 34.6 28.5
   6        1    2    3
          25.1 24.6 28.7
   7        1    2    3    4
          28.6 24.5 25.1 28.1
   8        1    2    3    4    5    6
          34.5 33.0 28.9 29.2 32.7 35.7
   9        1    2    3
          42.7 42.6 42.8
  10        1
          42.5
  11        1    2    3    4    5    6
          42.5 40.2 35.4 34.7 33.6 32.8
  12        1    2    3    4    5
          29.0 28.4 28.0 27.6 25.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.3 34.6 29.2 35.5 36.2 36.5 36.2 36.0 36.4 36.2

          36.2 36.6 36.1 35.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          34.8 36.1 36.5 36.5 36.0 36.4 36.2 36.0 37.0 36.3

          34.7 30.7 35.0 30.4
  15        1    2    3    4    5    6    7    8    9   10

          28.5 31.4 26.8 27.1 27.4 27.4 27.4 27.1 26.7 31.9

  16        1    2    3    4    5    6    7    8    9   10

          31.9 26.6 27.0 27.2 27.3 27.2 27.1 26.6 31.4 28.4

  17        1    2    3    4    5    6    7
          28.9 29.3 28.9 28.3 28.9 29.3 25.0
  18        1    2    3    4    5    6    7
          24.8 29.3 28.9 28.2 28.8 29.2 28.7
1

 RECEIVER    LEQ(H)   L10
 46           55.7   57.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.2 27.3 27.8 28.0 28.8 30.3
   2        1    2    3    4    5    6
          33.2 34.5 35.0 39.7 42.1 41.7
   3        1
          41.7
   4        1    2    3
          41.4 43.5 37.5
   5        1    2    3    4    5    6
          33.3 29.8 29.4 33.5 35.0 31.5
   6        1    2    3
          27.9 26.7 30.1
   7        1    2    3    4
          30.1 26.6 27.7 29.9
   8        1    2    3    4    5    6
          34.9 33.5 29.3 29.7 33.2 36.2
   9        1    2    3
          43.3 43.1 42.7
  10        1
          42.0
  11        1    2    3    4    5    6
          42.0 39.6 34.9 34.3 33.2 32.4
  12        1    2    3    4    5
          28.7 28.0 27.7 27.3 25.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.1 34.5 29.0 35.3 36.0 36.3 36.0 35.7 36.1 35.9

          35.9 36.3 35.8 34.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          34.7 35.8 36.2 36.2 35.7 36.1 35.9 35.8 36.7 36.1

          34.5 30.5 34.8 30.2
  15        1    2    3    4    5    6    7    8    9   10

          28.2 31.2 26.5 26.9 27.2 27.3 27.3 27.0 26.6 31.8

  16        1    2    3    4    5    6    7    8    9   10

          31.8 26.5 26.9 27.0 27.1 27.0 26.8 26.4 31.1 28.2

  17        1    2    3    4    5    6    7
          28.5 28.9 28.5 28.0 28.6 29.1 24.8
  18        1    2    3    4    5    6    7
          24.5 29.1 28.6 27.9 28.4 28.8 28.3
1

 RECEIVER    LEQ(H)   L10
 47           55.1   56.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          23.6 25.6 25.9 25.8 26.1 27.1
   2        1    2    3    4    5    6
          29.9 31.4 32.4 38.7 41.1 40.3
   3        1
          41.3
   4        1    2    3
          41.7 44.2 38.1
   5        1    2    3    4    5    6
          34.0 30.4 30.0 34.1 35.6 32.1
   6        1    2    3
          28.4 27.3 30.6
   7        1    2    3    4
          30.6 27.0 28.3 30.5
   8        1    2    3    4    5    6
          35.5 34.1 30.0 30.4 33.9 36.9
   9        1    2    3
          43.9 43.3 42.2
  10        1
          40.8
  11        1    2    3    4    5    6
          41.1 38.9 33.0 31.8 30.3 29.6
  12        1    2    3    4    5
          26.5 26.3 26.4 26.0 24.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.8 34.1 28.6 35.0 35.6 35.9 35.6 35.3 35.7 33.7

          32.1 31.3 30.4 32.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.1 30.4 31.2 32.4 33.6 35.7 35.5 35.4 36.4 35.7

          34.2 30.2 34.5 29.9
  15        1    2    3    4    5    6    7    8    9   10

          27.9 30.7 26.1 26.5 26.8 26.9 26.9 26.7 26.4 31.5

  16        1    2    3    4    5    6    7    8    9   10

          31.5 26.2 26.6 26.7 26.8 26.7 26.4 25.9 30.7 27.8

  17        1    2    3    4    5    6    7
          26.2 28.4 28.0 27.5 28.1 28.6 24.4
  18        1    2    3    4    5    6    7
          24.1 28.6 28.2 27.4 27.9 28.3 26.0
1

 RECEIVER    LEQ(H)   L10
 48           54.9   56.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.6 28.8 29.3 29.6 30.5 32.0
   2        1    2    3    4    5    6
          35.1 36.3 36.9 41.4 42.9 41.5
   3        1
          38.4
   4        1    2    3
          34.1 32.4 26.4
   5        1    2    3    4    5    6
          22.1 18.6 18.2 22.2 24.6 22.7
   6        1    2    3
          20.2 19.7 23.4
   7        1    2    3    4
          23.4 19.5 20.1 21.1
   8        1    2    3    4    5    6
          24.7 22.6 18.5 18.9 22.5 25.6
   9        1    2    3
          32.7 34.2 39.3
  10        1
          41.3
  11        1    2    3    4    5    6
          42.7 41.2 36.7 36.1 35.0 34.1
  12        1    2    3    4    5
          30.3 29.6 29.2 28.7 26.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.6 35.0 29.6 36.0 36.7 37.2 37.0 36.9 37.4 37.3

          37.4 37.9 37.5 37.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.2 37.5 37.8 37.7 37.1 37.4 37.1 36.8 37.7 36.9

          35.2 31.1 35.4 30.7
  15        1    2    3    4    5    6    7    8    9   10

          29.0 31.8 27.0 27.2 27.4 27.3 27.2 26.7 26.3 31.3

  16        1    2    3    4    5    6    7    8    9   10

          31.3 26.2 26.7 26.9 27.2 27.2 27.1 26.8 31.7 29.0

  17        1    2    3    4    5    6    7
          30.1 30.4 29.9 29.2 29.7 29.9 25.5
  18        1    2    3    4    5    6    7
          25.3 30.0 29.7 29.1 29.7 30.3 30.0
1

 RECEIVER    LEQ(H)   L10
 49           54.6   56.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.5 28.7 29.2 29.5 30.3 31.9
   2        1    2    3    4    5    6
          34.9 36.1 36.6 41.1 42.5 40.9
   3        1
          37.0
   4        1    2    3
          32.8 31.3 25.5
   5        1    2    3    4    5    6
          21.6 18.1 17.8 22.5 25.3 23.5
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```
  6        1    2    3
          20.8 20.0 23.5
  7        1    2    3    4
          23.5 19.7 20.6 21.9
  8        1    2    3    4    5    6
          25.4 22.6 18.0 18.5 21.9 24.7
  9        1    2    3
          31.8 33.0 38.1
 10        1
          40.7
 11        1    2    3    4    5    6
          42.3 40.9 36.5 35.9 34.8 34.0
 12        1    2    3    4    5
          30.2 29.5 29.2 28.7 26.6
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          30.5 34.9 29.4 35.9 36.6 37.1 36.9 36.8 37.3 37.3

          37.3 37.8 37.5 37.2
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          37.2 37.4 37.7 37.7 37.0 37.3 37.0 36.7 37.6 36.7

          35.1 31.0 35.3 30.5
 15        1    2    3    4    5    6    7    8    9   10

          28.9 31.6 26.8 27.0 27.2 27.1 26.9 26.5 26.1 31.0

 16        1    2    3    4    5    6    7    8    9   10

          31.0 26.0 26.5 26.7 26.9 27.0 27.0 26.6 31.6 28.8

 17        1    2    3    4    5    6    7
          30.0 30.3 29.7 29.0 29.5 29.8 25.4
 18        1    2    3    4    5    6    7
          25.2 29.8 29.5 28.9 29.6 30.2 29.8
1

 RECEIVER    LEQ(H)   L10
 50           54.4   55.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.5 28.6 29.1 29.4 30.2 31.8
   2        1    2    3    4    5    6
          34.8 35.9 36.4 40.8 42.1 40.4
   3        1
          35.3
   4        1    2    3
          32.3 31.0 25.5
   5        1    2    3    4    5    6
          21.6 18.7 18.7 23.3 26.1 24.2
   6        1    2    3
          20.9 19.6 23.3
   7        1    2    3    4
          23.3 19.6 20.8 22.6
   8        1    2    3    4    5    6
          26.2 23.5 18.8 18.9 21.9 24.7
   9        1    2    3
          31.5 32.6 36.9
  10        1
          40.1
  11        1    2    3    4    5    6
          41.9 40.6 36.3 35.7 34.7 33.8
  12        1    2    3    4    5
          30.1 29.4 29.0 28.6 26.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.3 34.8 29.3 35.8 36.5 37.0 36.8 36.7 37.2 37.2

          37.2 37.8 37.4 37.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.2 37.4 37.7 37.6 36.9 37.2 36.9 36.6 37.4 36.6

          34.9 30.9 35.1 30.4
  15        1    2    3    4    5    6    7    8    9   10

          28.7 31.5 26.6 26.8 27.0 26.9 26.7 26.3 25.9 30.8

  16        1    2    3    4    5    6    7    8    9   10

          30.8 25.8 26.3 26.5 26.8 26.8 26.8 26.5 31.4 28.7

  17        1    2    3    4    5    6    7
          29.8 30.1 29.5 28.9 29.3 29.6 25.2
  18        1    2    3    4    5    6    7
          25.0 29.7 29.4 28.8 29.4 30.0 29.7
1

 RECEIVER    LEQ(H)   L10
 51           54.2   55.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.4 28.5 29.0 29.3 30.1 31.6
   2        1    2    3    4    5    6
          34.6 35.7 36.1 40.5 41.7 39.8
   3        1
          35.0
   4        1    2    3
          32.3 31.1 25.9
   5        1    2    3    4    5    6
          22.6 19.8 19.8 24.7 27.2 27.1
   6        1    2    3
          20.6 19.8 23.5
   7        1    2    3    4
          23.4 19.6 22.1 25.0
   8        1    2    3    4    5    6
          27.2 24.7 19.9 19.9 22.7 25.0
   9        1    2    3
          31.6 32.6 36.2
  10        1
          39.7
  11        1    2    3    4    5    6
          41.5 40.3 36.0 35.5 34.5 33.7
  12        1    2    3    4    5
          29.9 29.3 28.9 28.5 26.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.2 34.6 29.2 35.6 36.4 36.9 36.7 36.6 37.1 37.1

          37.2 37.7 37.4 37.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.1 37.3 37.6 37.5 36.8 37.1 36.8 36.5 37.3 36.5

          34.8 30.8 35.0 30.3
  15        1    2    3    4    5    6    7    8    9   10

          28.6 31.3 26.4 26.6 26.8 26.7 26.5 26.1 25.7 30.7

  16        1    2    3    4    5    6    7    8    9   10

          30.6 25.6 26.1 26.3 26.6 26.6 26.6 26.3 31.2 28.6

  17        1    2    3    4    5    6    7
          29.7 29.9 29.4 28.7 29.2 29.5 25.1
  18        1    2    3    4    5    6    7
          24.9 29.5 29.2 28.6 29.3 29.9 29.5
1

 RECEIVER    LEQ(H)   L10
 52           54.0   55.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.3 28.4 28.9 29.2 30.0 31.5
   2        1    2    3    4    5    6
          34.4 35.6 35.9 40.2 41.3 39.5
   3        1
          34.4
   4        1    2    3
          31.5 30.6 25.8
   5        1    2    3    4    5    6
          22.9 20.3 20.3 25.0 29.1 20.8
   6        1    2    3
          12.4 11.4 15.1
   7        1    2    3    4
          15.2 11.3 12.4 22.2
   8        1    2    3    4    5    6
          28.6 25.0 20.3 20.3 23.1 24.8
   9        1    2    3
          31.0 32.0 35.4
  10        1
          39.5
  11        1    2    3    4    5    6
          41.1 40.0 35.8 35.3 34.3 33.5
  12        1    2    3    4    5
          29.8 29.2 28.8 28.4 26.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.1 34.5 29.1 35.5 36.3 36.8 36.6 36.5 37.0 37.0

          37.1 37.6 37.3 37.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.1 37.3 37.6 37.4 36.8 37.0 36.7 36.4 37.2 36.4

          34.7 30.6 34.9 30.2
  15        1    2    3    4    5    6    7    8    9   10

          28.5 31.2 26.2 26.5 26.6 26.5 26.3 25.9 25.5 30.5

  16        1    2    3    4    5    6    7    8    9   10

          30.5 25.4 25.9 26.1 26.4 26.4 26.4 26.1 31.1 28.4

  17        1    2    3    4    5    6    7
          29.5 29.8 29.2 28.5 29.0 29.4 25.0
  18        1    2    3    4    5    6    7
          24.7 29.4 29.1 28.5 29.1 29.7 29.4
1

 RECEIVER    LEQ(H)   L10
 53           53.8   55.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.2 28.3 28.8 29.1 29.8 31.3
   2        1    2    3    4    5    6
          34.3 35.4 35.7 39.9 41.0 39.2
   3        1
          33.9
   4        1    2    3
          30.8 30.1 26.1
   5        1    2    3    4    5    6
          23.4 20.7 20.7 25.3 19.4 15.2
   6        1    2    3
          11.8 11.1 15.1
   7        1    2    3    4
          15.1 10.9 11.9 13.9
   8        1    2    3    4    5    6
          20.7 25.4 20.7 20.7 23.3 25.0
   9        1    2    3
          30.6 31.3 34.6
  10        1
          39.1
  11        1    2    3    4    5    6
          40.8 39.7 35.6 35.2 34.2 33.4
  12        1    2    3    4    5
          29.7 29.1 28.7 28.3 26.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.0 34.4 29.0 35.4 36.2 36.6 36.5 36.4 36.9 36.9

          37.0 37.6 37.3 37.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.1 37.2 37.5 37.4 36.7 36.9 36.6 36.3 37.1 36.3

          34.6 30.5 34.8 30.1
  15        1    2    3    4    5    6    7    8    9   10

          28.3 31.0 26.1 26.3 26.4 26.3 26.1 25.8 25.3 30.3

  16        1    2    3    4    5    6    7    8    9   10

          30.3 25.2 25.7 25.9 26.2 26.3 26.2 25.9 30.9 28.3

  17        1    2    3    4    5    6    7
          29.4 29.6 29.1 28.4 28.9 29.2 24.8
  18        1    2    3    4    5    6    7
          24.6 29.2 28.9 28.3 29.0 29.6 29.2
```

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1

 RECEIVER    LEQ(H)   L10
 54           53.6   55.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.1 28.2 28.7 29.0 29.7 31.2
   2        1    2    3    4    5    6
          34.1 35.2 35.5 39.6 40.6 38.8
   3        1
          33.4
   4        1    2    3
          30.0 29.6 26.2
   5        1    2    3    4    5    6
          22.4 14.1 13.2 17.0 18.4 14.7
   6        1    2    3
          11.7 11.2 15.2
   7        1    2    3    4
          15.2 11.1 11.7 13.3
   8        1    2    3    4    5    6
          18.5 17.3 13.5 14.6 23.5 25.2
   9        1    2    3
          30.0 30.5 33.7
  10        1
          38.7
  11        1    2    3    4    5    6
          40.4 39.4 35.3 35.0 34.0 33.2
  12        1    2    3    4    5
          29.6 28.9 28.6 28.2 26.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.9 34.3 28.8 35.3 36.0 36.5 36.4 36.3 36.8 36.9

          37.0 37.5 37.2 37.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.0 37.2 37.4 37.3 36.6 36.8 36.5 36.2 37.0 36.1

          34.5 30.4 34.7 30.0
  15        1    2    3    4    5    6    7    8    9   10

          28.2 30.8 25.9 26.1 26.2 26.1 26.0 25.6 25.2 30.1

  16        1    2    3    4    5    6    7    8    9   10

          30.1 25.0 25.5 25.7 26.0 26.1 26.0 25.7 30.8 28.2

  17        1    2    3    4    5    6    7
          29.2 29.5 28.9 28.2 28.7 29.1 24.7
  18        1    2    3    4    5    6    7
          24.4 29.1 28.8 28.2 28.8 29.4 29.1
1

 RECEIVER    LEQ(H)   L10
 55           53.3   54.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          26.0 28.1 28.6 28.9 29.6 31.1
   2        1    2    3    4    5    6
          33.9 35.0 35.2 39.4 40.3 37.9
   3        1
          32.0
   4        1    2    3
          28.8 28.9 20.5
   5        1    2    3    4    5    6
          15.9 12.4 11.9 16.2 17.5 14.4
   6        1    2    3
          11.5 11.0 15.3
   7        1    2    3    4
          15.3 10.9 11.5 13.0
   8        1    2    3    4    5    6
          17.7 16.4 12.1 12.5 16.2 20.9
   9        1    2    3
          29.3 29.4 32.6
  10        1
          36.6
  11        1    2    3    4    5    6
          40.1 39.2 35.1 34.8 33.8 33.1
  12        1    2    3    4    5
          29.4 28.8 28.5 28.1 26.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.8 34.2 28.7 35.2 35.9 36.4 36.3 36.2 36.8 36.8

          36.9 37.5 37.2 37.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          37.0 37.1 37.4 37.2 36.5 36.7 36.4 36.1 36.9 36.0

          34.4 30.3 34.6 29.8
  15        1    2    3    4    5    6    7    8    9   10

          28.1 30.7 25.7 25.9 26.0 25.9 25.8 25.4 25.0 30.0

  16        1    2    3    4    5    6    7    8    9   10

          30.0 24.9 25.3 25.6 25.8 25.9 25.9 25.6 30.6 28.0

  17        1    2    3    4    5    6    7
          29.1 29.3 28.8 28.1 28.6 28.9 24.5
  18        1    2    3    4    5    6    7
          24.3 28.9 28.6 28.0 28.6 29.3 28.9
1

 RECEIVER    LEQ(H)   L10
 56           52.4   53.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.7 27.8 28.2 28.4 29.1 30.6
   2        1    2    3    4    5    6
          33.4 34.4 34.6 37.8 34.9 34.8
   3        1
          30.1
   4        1    2    3
          27.4 24.1 18.8
   5        1    2    3    4    5    6
          15.0 11.5 11.3 15.5 17.5 15.4
   6        1    2    3
          13.3 13.1 17.4
   7        1    2    3    4
          17.4 12.8 13.2 13.8
   8        1    2    3    4    5    6
          17.5 15.7 11.5 11.7 15.2 17.8
   9        1    2    3
          24.3 28.2 29.9
  10        1
          34.9
  11        1    2    3    4    5    6
          34.9 37.6 34.5 34.2 33.3 32.6
  12        1    2    3    4    5
          29.0 28.4 28.1 27.7 25.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.5 33.9 28.4 34.8 35.6 36.1 35.9 35.9 36.4 36.4

          36.5 37.1 36.9 36.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.6 36.8 37.0 36.9 36.2 36.4 36.0 35.7 36.5 35.7

          34.0 30.0 34.2 29.5
  15        1    2    3    4    5    6    7    8    9   10

          27.7 30.3 25.3 25.5 25.6 25.5 25.3 24.9 24.6 29.7

  16        1    2    3    4    5    6    7    8    9   10

          29.7 24.4 24.9 25.2 25.4 25.4 25.4 25.2 30.2 27.7

  17        1    2    3    4    5    6    7
          28.6 28.8 28.3 27.6 28.2 28.5 24.2
  18        1    2    3    4    5    6    7
          23.9 28.5 28.2 27.6 28.2 28.8 28.4
1

 RECEIVER    LEQ(H)   L10
 57           52.4   53.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.7 27.8 28.2 28.4 29.1 30.5
   2        1    2    3    4    5    6
          33.3 34.3 34.4 38.4 39.2 36.9
   3        1
          30.7
   4        1    2    3
          27.9 25.1 19.6
   5        1    2    3    4    5    6
          15.7 12.4 12.0 16.2 18.7 17.8
   6        1    2    3
          15.9 15.9 20.3
   7        1    2    3    4
          20.2 15.7 15.9 16.2
   8        1    2    3    4    5    6
          18.7 16.5 12.3 12.6 16.0 18.7
   9        1    2    3
          25.6 28.7 31.1
  10        1
          36.3
  11        1    2    3    4    5    6
          39.0 38.2 34.3 34.0 33.2 32.6
  12        1    2    3    4    5
          29.0 28.4 28.1 27.7 25.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.4 33.8 28.3 34.8 35.5 36.0 35.9 35.9 36.4 36.5

          36.6 35.6 34.0 32.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          33.0 34.0 35.7 37.0 36.2 36.4 36.0 35.7 36.5 35.6

          33.9 29.9 34.1 29.4
  15        1    2    3    4    5    6    7    8    9   10

          27.6 30.1 25.1 25.3 25.4 25.3 25.1 24.7 24.3 29.4

  16        1    2    3    4    5    6    7    8    9   10

          29.5 24.2 24.7 24.9 25.2 25.2 25.2 25.0 30.1 27.6

  17        1    2    3    4    5    6    7
          28.5 28.8 28.2 27.5 28.1 28.4 24.0
  18        1    2    3    4    5    6    7
          23.8 28.4 28.1 27.5 28.1 28.7 28.4
1

 RECEIVER    LEQ(H)   L10
 58           51.7   53.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          23.3 25.4 25.9 26.3 27.0 28.4
   2        1    2    3    4    5    6
          31.6 33.7 34.2 38.1 38.8 36.5
   3        1
          30.9
   4        1    2    3
          27.8 25.2 19.9
   5        1    2    3    4    5    6
          16.1 12.6 12.3 16.8 20.4 20.0
   6        1    2    3
          17.9 17.8 22.2
   7        1    2    3    4
          22.1 17.6 17.9 18.4
   8        1    2    3    4    5    6
          20.3 17.1 12.6 13.0 16.4 19.0
   9        1    2    3
          25.7 28.5 31.0
  10        1
          36.0
  11        1    2    3    4    5    6
          38.6 37.9 34.1 33.8 31.9 30.8
  12        1    2    3    4    5
          27.2 26.6 26.2 25.6 23.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.2 33.6 28.2 34.6 35.4 35.9 35.8 35.8 35.6 33.7
```

```
          32.9 32.8 32.2 31.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.8 32.2 32.8 33.3 33.5 35.4 35.9 35.6 36.3 35.5

          33.8 29.7 34.0 29.3
  15        1    2    3    4    5    6    7    8    9   10

          27.5 29.9 24.9 25.1 25.2 25.1 24.9 24.5 24.1 29.3

  16        1    2    3    4    5    6    7    8    9   10

          29.3 24.0 24.5 24.7 24.9 25.0 25.0 24.8 29.8 27.4

  17        1    2    3    4    5    6    7
          27.1 28.6 28.0 27.4 27.9 28.2 23.9
  18        1    2    3    4    5    6    7
          23.7 28.3 27.9 27.3 27.9 28.5 26.9
1

 RECEIVER    LEQ(H)   L10
 59           51.8   53.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.3 27.6 28.0 27.9 28.3 29.2
   2        1    2    3    4    5    6
          31.9 33.3 33.8 37.9 38.5 36.2
   3        1
          31.2
   4        1    2    3
          28.1 25.7 20.4
   5        1    2    3    4    5    6
          16.6 13.2 13.1 17.6 22.2 21.7
   6        1    2    3
          19.6 19.2 22.9
   7        1    2    3    4
          22.9 19.0 19.4 20.2
   8        1    2    3    4    5    6
          22.2 17.8 13.3 13.5 16.9 19.5
   9        1    2    3
          26.2 28.7 31.1
  10        1
          36.5
  11        1    2    3    4    5    6
          38.3 37.7 33.9 33.7 32.3 31.7
  12        1    2    3    4    5
          28.7 28.2 27.9 27.6 25.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.1 33.5 28.1 34.5 35.3 35.8 35.7 35.7 36.2 35.4

          34.1 33.1 32.2 31.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.8 32.2 33.0 34.6 35.3 36.2 35.8 35.5 36.2 35.4

          33.7 29.6 33.9 29.2
  15        1    2    3    4    5    6    7    8    9   10

          27.4 29.8 24.8 24.9 25.0 24.9 24.8 24.4 24.0 29.1

  16        1    2    3    4    5    6    7    8    9   10

          29.2 23.9 24.3 24.5 24.8 24.9 24.8 24.6 29.8 27.3

  17        1    2    3    4    5    6    7
          28.2 28.5 27.9 27.2 27.8 28.1 23.8
  18        1    2    3    4    5    6    7
          23.5 28.1 27.8 27.2 27.8 28.4 28.1
1

 RECEIVER    LEQ(H)   L10
 60           50.4   51.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          20.7 22.8 23.3 23.5 24.2 25.7
   2        1    2    3    4    5    6
          28.7 29.9 30.4 35.6 38.3 35.9
   3        1
          30.9
   4        1    2    3
          27.6 25.3 20.2
   5        1    2    3    4    5    6
          16.3 13.3 13.1 17.9 23.1 22.4
   6        1    2    3
          20.1 19.3 23.0
   7        1    2    3    4
          23.0 19.1 19.9 20.9
   8        1    2    3    4    5    6
          23.1 18.0 13.4 13.5 16.6 19.3
   9        1    2    3
          25.9 28.2 30.8
  10        1
          36.2
  11        1    2    3    4    5    6
          38.1 36.1 30.6 29.9 28.7 27.9
  12        1    2    3    4    5
          24.2 23.6 23.3 22.8 20.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.0 33.4 28.0 34.4 35.2 35.7 33.3 31.9 31.6 31.3

          31.4 32.1 31.8 31.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.6 31.8 32.0 31.7 31.1 31.6 32.1 33.1 36.2 35.2

          33.6 29.6 33.8 29.1
  15        1    2    3    4    5    6    7    8    9   10

          27.2 29.7 24.6 24.8 24.9 24.7 24.6 24.2 23.8 29.0

  16        1    2    3    4    5    6    7    8    9   10

          29.0 23.7 24.2 24.4 24.6 24.7 24.7 24.5 29.6 27.2

  17        1    2    3    4    5    6    7
          23.9 24.9 25.8 26.4 27.7 28.0 23.7
  18        1    2    3    4    5    6    7
          23.4 28.0 27.7 26.2 25.4 24.7 23.7
1

 RECEIVER    LEQ(H)   L10
 61           49.0   50.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          20.9 22.8 23.0 23.1 23.7 24.9
   2        1    2    3    4    5    6
          27.3 28.5 28.7 33.0 36.2 35.6
   3        1
          30.6
   4        1    2    3
          26.8 24.8 19.8
   5        1    2    3    4    5    6
          16.0 13.1 12.9 18.4 23.7 22.7
   6        1    2    3
          20.1 19.3 23.0
   7        1    2    3    4
          22.9 19.0 20.0 21.2
   8        1    2    3    4    5    6
          23.6 18.4 13.2 13.3 16.2 18.9
   9        1    2    3
          25.3 27.6 30.4
  10        1
          35.4
  11        1    2    3    4    5    6
          36.4 33.0 28.6 28.3 27.2 26.9
  12        1    2    3    4    5
          23.5 23.0 22.9 22.7 20.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.0 31.4 25.6 30.8 30.7 31.0 31.1 31.2 31.8 32.0

          32.1 32.6 32.3 32.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.0 32.2 32.5 32.4 31.7 31.8 31.3 30.8 31.4 30.9

          30.1 27.0 31.8 29.0
  15        1    2    3    4    5    6    7    8    9   10

          24.3 29.6 24.5 24.7 24.7 24.6 24.4 24.1 23.7 28.9

  16        1    2    3    4    5    6    7    8    9   10

          28.9 23.6 24.0 24.2 24.5 24.6 24.6 24.4 29.5 24.4

  17        1    2    3    4    5    6    7
          22.9 23.1 22.7 22.1 22.9 23.7 20.1
  18        1    2    3    4    5    6    7
          19.8 23.6 22.9 22.0 22.6 23.0 22.8
1

 RECEIVER    LEQ(H)   L10
 62           49.5   50.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          22.8 24.3 24.3 24.1 24.3 25.2
   2        1    2    3    4    5    6
          27.8 28.5 28.1 31.8 33.3 34.5
   3        1
          29.6
   4        1    2    3
          26.4 24.4 19.4
   5        1    2    3    4    5    6
          15.7 12.7 12.5 18.2 23.5 22.6
   6        1    2    3
          19.9 19.2 22.9
   7        1    2    3    4
          22.8 18.9 19.8 21.0
   8        1    2    3    4    5    6
          23.5 18.3 12.8 13.0 15.9 18.5
   9        1    2    3
          24.9 27.2 30.3
  10        1
          34.5
  11        1    2    3    4    5    6
          33.3 31.8 28.0 28.3 27.6 27.3
  12        1    2    3    4    5
          24.1 24.0 24.3 24.3 22.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          25.9 30.3 24.9 31.5 32.3 33.1 33.1 33.3 34.1 34.2

          34.3 34.7 34.6 34.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          34.5 34.4 34.5 34.5 33.8 34.0 33.4 32.9 33.4 32.3

          30.6 26.4 30.6 25.9
  15        1    2    3    4    5    6    7    8    9   10

          23.1 24.7 20.4 21.9 22.6 24.5 24.4 24.0 23.6 28.8

  16        1    2    3    4    5    6    7    8    9   10

          28.8 23.5 23.9 24.2 24.4 24.5 21.9 20.3 24.7 23.0

  17        1    2    3    4    5    6    7
          23.3 23.5 22.9 22.4 23.0 23.5 19.4
  18        1    2    3    4    5    6    7
          19.2 23.6 23.1 22.3 22.8 23.5 23.2
1

 RECEIVER    LEQ(H)   L10
 63           48.6   49.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          21.0 22.3 22.3 22.3 22.8 23.8
   2        1    2    3    4    5    6
          25.6 26.4 27.2 31.5 32.4 31.7
   3        1
          27.5
   4        1    2    3
          23.4 23.5 20.2
   5        1    2    3    4    5    6
          20.4 18.5 18.9 24.1 26.6 28.4
```

```
 6        1    2    3
         22.9 20.6 25.1
 7        1    2    3    4
         25.4 21.0 23.9 27.1
 8        1    2    3    4    5    6
         26.4 24.1 18.9 18.3 20.2 19.0
 9        1    2    3
         23.8 23.9 27.6
10        1
         32.1
11        1    2    3    4    5    6
         32.4 31.5 27.3 26.5 25.4 25.8
12        1    2    3    4    5
         22.7 22.2 22.3 22.2 20.9
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         28.4 32.8 27.0 30.8 30.3 31.0 31.1 31.3 32.0 33.6

         35.6 31.8 31.3 31.0
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         31.0 31.3 32.1 35.9 32.9 31.8 31.3 30.8 31.4 30.4

         30.1 28.0 33.1 28.5
15        1    2    3    4    5    6    7    8    9   10

         24.0 28.8 23.8 24.0 24.0 24.0 23.8 23.4 23.0 28.3

16        1    2    3    4    5    6    7    8    9   10

         28.3 22.9 23.4 23.6 23.8 23.9 23.9 23.7 28.8 24.3

17        1    2    3    4    5    6    7
         21.8 22.1 21.5 21.2 21.9 23.0 19.9
18        1    2    3    4    5    6    7
         19.6 23.0 21.9 21.1 21.5 22.0 21.7
1

RECEIVER     LEQ(H)   L10
64            49.9   51.3

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
         23.4 25.3 25.6 25.5 25.8 25.6
 2        1    2    3    4    5    6
         26.8 27.4 26.4 31.1 32.5 32.0
 3        1
         27.8
 4        1    2    3
         23.6 23.7 20.7
 5        1    2    3    4    5    6
         21.0 19.0 19.3 24.0 27.6 28.2
 6        1    2    3
         22.8 20.6 25.7
 7        1    2    3    4
         26.0 20.9 23.6 26.8
 8        1    2    3    4    5    6
         27.8 24.1 19.3 18.8 20.8 19.4
 9        1    2    3
         24.0 24.2 27.9
10        1
         32.1
11        1    2    3    4    5    6
         32.7 31.1 26.5 27.2 26.7 27.2
12        1    2    3    4    5
         25.8 25.7 25.8 25.5 23.6
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         28.4 32.7 27.3 33.7 34.5 34.9 34.8 34.8 35.4 33.9

         33.1 32.5 31.7 35.9
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         35.3 31.8 32.4 33.3 33.7 35.4 35.0 34.6 35.4 34.5

         32.9 28.8 33.1 28.4
15        1    2    3    4    5    6    7    8    9   10

         25.7 27.9 23.7 23.8 23.9 23.8 23.7 23.4 23.0 28.1

16        1    2    3    4    5    6    7    8    9   10

         28.1 22.9 23.3 23.5 23.7 23.8 23.8 23.5 27.9 25.6

17        1    2    3    4    5    6    7
         22.9 23.1 22.6 22.3 23.4 24.3 20.6
18        1    2    3    4    5    6    7
         20.5 24.4 23.5 22.3 22.6 23.1 22.9
1

RECEIVER     LEQ(H)   L10
65            50.4   51.7

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
         21.7 24.4 25.8 27.2 27.8 29.1
 2        1    2    3    4    5    6
         31.7 32.5 32.4 32.2 35.7 34.3
 3        1
         29.6
 4        1    2    3
         25.3 25.0 22.0
 5        1    2    3    4    5    6
         22.2 19.6 19.6 24.7 28.7 28.2
 6        1    2    3
         24.8 22.5 27.5
 7        1    2    3    4
         27.7 23.1 24.9 26.6
 8        1    2    3    4    5    6
         29.0 24.8 19.6 19.5 22.0 20.8
 9        1    2    3
         25.5 26.0 29.2
10        1
         34.4
11        1    2    3    4    5    6
         35.9 32.3 31.5 32.3 31.6 31.1
12        1    2    3    4    5
         27.6 27.2 26.2 24.8 22.0
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         28.3 32.7 27.3 33.7 34.4 34.9 34.8 34.8 35.5 31.5

         31.0 31.4 31.1 30.7
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         30.7 31.0 31.3 31.3 31.4 33.7 35.0 34.6 35.4 34.5

         32.9 28.8 33.0 28.4
15        1    2    3    4    5    6    7    8    9   10

         26.4 28.7 23.6 23.8 23.8 23.7 23.6 23.3 22.9 28.1

16        1    2    3    4    5    6    7    8    9   10

         28.1 22.8 23.2 23.4 23.6 23.7 23.7 23.5 28.7 26.4

17        1    2    3    4    5    6    7
         27.1 27.3 26.8 26.1 26.7 27.1 22.7
18        1    2    3    4    5    6    7
         22.6 27.1 26.7 26.1 26.7 27.2 26.9
1

RECEIVER     LEQ(H)   L10
66            51.1   52.4

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
         24.8 26.8 27.1 27.3 27.9 29.1
 2        1    2    3    4    5    6
         31.8 32.5 32.5 36.1 36.5 34.3
 3        1
         29.9
 4        1    2    3
         27.3 26.5 22.9
 5        1    2    3    4    5    6
         22.4 19.7 19.9 26.9 30.3 28.0
 6        1    2    3
         24.9 24.0 27.7
 7        1    2    3    4
         27.6 23.8 24.7 26.5
 8        1    2    3    4    5    6
         30.5 26.9 19.9 19.6 22.2 21.7
 9        1    2    3
         27.0 27.8 30.1
10        1
         34.6
11        1    2    3    4    5    6
         36.4 35.9 32.4 32.3 31.6 31.2
12        1    2    3    4    5
         27.7 27.2 27.1 26.8 24.8
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         28.3 32.7 27.3 33.7 34.5 35.0 34.9 34.9 35.5 35.6

         34.2 33.5 32.5 31.8
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         31.8 32.5 33.5 34.6 35.3 35.5 35.0 34.7 35.4 34.5

         32.9 28.8 33.1 28.4
15        1    2    3    4    5    6    7    8    9   10

         26.5 28.8 23.5 23.8 23.8 23.6 23.5 23.1 22.8 28.0

16        1    2    3    4    5    6    7    8    9   10

         28.0 22.7 23.1 23.3 23.6 23.7 23.7 23.4 28.7 26.4

17        1    2    3    4    5    6    7
         27.1 27.3 26.8 26.1 26.7 27.1 22.8
18        1    2    3    4    5    6    7
         22.6 27.1 26.7 26.1 26.7 27.3 27.0
1

RECEIVER     LEQ(H)   L10
67            51.7   53.1

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
         24.9 26.9 27.2 27.3 27.9 29.2
 2        1    2    3    4    5    6
         31.8 32.5 32.5 36.1 36.5 34.2
 3        1
         30.1
 4        1    2    3
         29.0 27.6 23.2
 5        1    2    3    4    5    6
         22.3 19.7 20.5 27.7 30.7 27.8
 6        1    2    3
         24.7 23.9 27.5
 7        1    2    3    4
         27.4 23.6 24.6 26.3
 8        1    2    3    4    5    6
         30.6 28.1 20.4 19.7 22.1 22.4
 9        1    2    3
         28.1 28.9 30.7
10        1
         34.6
11        1    2    3    4    5    6
         36.4 36.0 32.4 32.3 31.7 31.2
12        1    2    3    4    5
         27.7 27.3 27.1 26.8 24.9
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         28.3 32.7 27.3 33.7 34.5 35.0 34.9 34.9 35.6 35.7

         35.9 36.6 36.4 36.3
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         36.2 36.3 36.5 36.2 35.4 35.5 35.1 34.7 35.4 34.6

         32.9 28.8 33.1 28.4
15        1    2    3    4    5    6    7    8    9   10

         26.5 28.8 23.6 23.7 23.8 23.6 23.5 23.1 22.7 27.9

16        1    2    3    4    5    6    7    8    9   10

         27.9 22.6 23.1 23.3 23.6 23.7 23.7 23.5 28.7 26.4

17        1    2    3    4    5    6    7
         27.1 27.3 26.8 26.2 26.7 27.1 22.8
18        1    2    3    4    5    6    7
         22.6 27.2 26.8 26.1 26.7 27.3 27.0
```

```
1

 RECEIVER    LEQ(H)   L10
 68           51.8   53.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.0 27.0 27.3 27.4 28.0 29.2
   2        1    2    3    4    5    6
          31.9 32.6 32.5 36.1 36.5 34.2
   3        1
          29.9
   4        1    2    3
          29.9 28.3 23.7
   5        1    2    3    4    5    6
          22.0 19.7 20.6 27.7 30.6 27.6
   6        1    2    3
          24.5 23.8 27.4
   7        1    2    3    4
          27.3 23.5 24.3 26.1
   8        1    2    3    4    5    6
          30.5 27.6 20.5 19.7 21.7 22.9
   9        1    2    3
          28.8 29.3 30.9
  10        1
          34.5
  11        1    2    3    4    5    6
          36.3 36.0 32.4 32.4 31.7 31.3
  12        1    2    3    4    5
          27.8 27.3 27.2 26.9 25.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.4 32.8 27.3 33.8 34.5 35.0 35.0 35.0 35.6 35.8

          36.0 36.7 36.5 36.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.4 36.4 36.6 36.3 35.5 35.6 35.1 34.8 35.5 34.6

          32.9 28.9 33.1 28.4
  15        1    2    3    4    5    6    7    8    9   10

          26.5 28.8 23.6 23.7 23.8 23.6 23.5 23.1 22.7 27.9

  16        1    2    3    4    5    6    7    8    9   10

          27.9 22.6 23.1 23.3 23.5 23.6 23.7 23.5 28.7 26.5

  17        1    2    3    4    5    6    7
          27.2 27.4 26.8 26.2 26.8 27.2 22.8
  18        1    2    3    4    5    6    7
          22.6 27.2 26.8 26.1 26.7 27.3 27.1
1

 RECEIVER    LEQ(H)   L10
 69           51.8   53.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.1 27.0 27.3 27.5 28.0 29.3
   2        1    2    3    4    5    6
          31.9 32.6 32.5 36.1 36.4 34.2
   3        1
          30.0
   4        1    2    3
          30.1 28.9 24.1
   5        1    2    3    4    5    6
          21.7 19.8 20.7 27.7 30.2 27.5
   6        1    2    3
          24.4 23.6 27.3
   7        1    2    3    4
          27.1 23.2 24.2 26.0
   8        1    2    3    4    5    6
          30.1 28.2 20.6 19.5 21.6 23.3
   9        1    2    3
          29.3 29.6 31.1
  10        1
          34.6
  11        1    2    3    4    5    6
          36.3 35.9 32.4 32.4 31.8 31.3
  12        1    2    3    4    5
          27.9 27.4 27.3 27.0 25.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.4 32.8 27.3 33.8 34.5 35.1 35.0 35.1 35.7 35.9

          36.1 36.8 36.6 36.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.5 36.5 36.7 36.4 35.6 35.6 35.2 34.8 35.5 34.6

          32.9 28.9 33.2 28.4
  15        1    2    3    4    5    6    7    8    9   10

          26.5 28.8 23.6 23.7 23.8 23.6 23.4 23.1 22.7 28.0

  16        1    2    3    4    5    6    7    8    9   10

          28.0 22.6 23.0 23.3 23.5 23.6 23.6 23.5 28.7 26.5

  17        1    2    3    4    5    6    7
          27.2 27.4 26.9 26.2 26.8 27.2 22.8
  18        1    2    3    4    5    6    7
          22.6 27.2 26.8 26.2 26.8 27.4 27.1
1

 RECEIVER    LEQ(H)   L10
 70           51.9   53.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.1 27.1 27.4 27.6 28.1 29.4
   2        1    2    3    4    5    6
          32.0 32.6 32.5 36.1 36.4 34.3
   3        1
          29.9
   4        1    2    3
          30.2 29.2 24.2
   5        1    2    3    4    5    6
          21.4 19.2 20.0 27.3 30.1 27.4
   6        1    2    3
          24.2 23.5 26.7
   7        1    2    3    4
          26.6 23.2 24.0 25.8
   8        1    2    3    4    5    6
          30.1 27.9 20.0 19.0 21.5 23.4
   9        1    2    3
          29.5 29.6 31.1
  10        1
          34.6
  11        1    2    3    4    5    6
          36.2 35.9 32.4 32.4 31.8 31.4
  12        1    2    3    4    5
          27.9 27.5 27.4 27.1 25.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.4 32.8 27.4 33.8 34.6 35.1 35.1 35.1 35.8 35.9

          36.2 36.9 36.7 36.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.6 36.7 36.8 36.5 35.7 35.7 35.3 34.9 35.6 34.7

          33.0 28.9 33.2 28.5
  15        1    2    3    4    5    6    7    8    9   10

          26.6 28.8 23.6 23.7 23.7 23.6 23.4 23.0 22.7 28.0

  16        1    2    3    4    5    6    7    8    9   10

          28.0 22.6 23.0 23.2 23.5 23.6 23.6 23.5 28.7 26.5

  17        1    2    3    4    5    6    7
          27.3 27.5 26.9 26.3 26.8 27.2 22.9
  18        1    2    3    4    5    6    7
          22.6 27.2 26.9 26.2 26.8 27.4 27.2
1

 RECEIVER    LEQ(H)   L10
 71           54.1   55.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.5 27.6 28.0 28.2 29.0 30.5
   2        1    2    3    4    5    6
          33.4 34.5 34.9 39.4 40.9 39.1
   3        1
          37.3
   4        1    2    3
          37.1 37.6 35.2
   5        1    2    3    4    5    6
          31.4 28.0 27.6 31.8 33.0 26.7
   6        1    2    3
          22.6 21.4 24.7
   7        1    2    3    4
          24.8 21.2 22.6 25.6
   8        1    2    3    4    5    6
          33.1 31.8 27.6 27.9 31.3 34.0
   9        1    2    3
          37.9 37.6 38.8
  10        1
          40.0
  11        1    2    3    4    5    6
          40.8 39.2 34.8 34.3 33.3 32.5
  12        1    2    3    4    5
          28.9 28.2 27.9 27.5 25.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.8 34.1 28.7 35.1 35.8 36.2 35.9 35.8 36.2 36.2

          36.2 36.7 36.3 36.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.0 36.3 36.6 36.5 35.9 36.2 36.0 35.8 36.6 35.9

          34.3 30.2 34.5 29.9
  15        1    2    3    4    5    6    7    8    9   10

          28.0 30.8 25.9 26.2 26.4 26.4 26.3 26.0 25.6 30.7

  16        1    2    3    4    5    6    7    8    9   10

          30.7 25.5 25.9 26.1 26.3 26.3 26.1 25.8 30.7 27.9

  17        1    2    3    4    5    6    7
          28.6 28.9 28.5 27.9 28.4 28.8 24.5
  18        1    2    3    4    5    6    7
          24.2 28.8 28.4 27.8 28.3 28.8 28.4
1

 RECEIVER    LEQ(H)   L10
 72           54.4   55.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.3 27.4 27.8 28.1 28.8 30.2
   2        1    2    3    4    5    6
          33.2 34.3 34.7 39.2 40.8 39.6
   3        1
          37.9
   4        1    2    3
          37.9 40.1 35.5
   5        1    2    3    4    5    6
          31.7 28.3 28.0 32.1 34.0 30.6
   6        1    2    3
          27.1 26.2 29.6
   7        1    2    3    4
          29.5 25.9 27.0 29.1
   8        1    2    3    4    5    6
          33.9 32.2 27.9 28.2 31.6 34.3
   9        1    2    3
          40.3 39.3 39.4
  10        1
          39.9
  11        1    2    3    4    5    6
          40.7 39.0 34.6 34.1 33.1 32.3
  12        1    2    3    4    5
          28.7 28.0 27.7 27.3 25.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.7 34.1 28.6 35.0 35.7 36.1 35.8 35.7 36.1 36.0
```

```
          36.0 36.5 36.1 35.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          35.8 36.0 36.4 36.3 35.8 36.1 35.8 35.6 36.5 35.8

          34.2 30.2 34.5 29.8
  15        1    2    3    4    5    6    7    8    9   10

          27.9 30.6 25.8 26.1 26.3 26.3 26.2 25.9 25.6 30.8

  16        1    2    3    4    5    6    7    8    9   10

          30.8 25.5 25.9 26.0 26.2 26.2 26.1 25.7 30.6 27.8

  17        1    2    3    4    5    6    7
          28.4 28.7 28.3 27.7 28.3 28.7 24.4
  18        1    2    3    4    5    6    7
          24.1 28.7 28.3 27.6 28.2 28.7 28.2
1

 RECEIVER    LEQ(H)   L10
 73           54.3   55.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          25.0 27.1 27.5 27.7 28.4 29.9
   2        1    2    3    4    5    6
          32.8 33.9 34.3 38.7 40.4 39.6
   3        1
          38.1
   4        1    2    3
          38.6 41.3 36.0
   5        1    2    3    4    5    6
          32.1 28.7 28.4 32.5 34.3 30.9
   6        1    2    3
          27.5 26.5 29.9
   7        1    2    3    4
          29.8 26.2 27.3 29.4
   8        1    2    3    4    5    6
          34.3 32.6 28.3 28.6 32.0 34.7
   9        1    2    3
          41.1 40.1 39.7
  10        1
          39.7
  11        1    2    3    4    5    6
          40.3 38.6 34.2 33.7 32.7 32.0
  12        1    2    3    4    5
          28.3 27.7 27.4 27.0 25.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.5 33.9 28.4 34.8 35.4 35.8 35.6 35.4 35.8 35.7

          35.7 36.2 35.8 35.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          35.4 35.7 36.1 36.1 35.5 35.8 35.6 35.4 36.3 35.6

          33.9 30.0 34.3 29.6
  15        1    2    3    4    5    6    7    8    9   10

          27.6 30.4 25.6 25.9 26.1 26.2 26.1 25.8 25.5 30.7

  16        1    2    3    4    5    6    7    8    9   10

          30.7 25.4 25.8 25.9 26.0 26.0 25.9 25.5 30.4 27.6

  17        1    2    3    4    5    6    7
          28.0 28.4 28.0 27.4 28.0 28.4 24.1
  18        1    2    3    4    5    6    7
          23.9 28.4 28.0 27.3 27.8 28.3 27.9
1

 RECEIVER    LEQ(H)   L10
 74           54.2   55.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.7 26.7 27.1 27.4 28.0 29.5
   2        1    2    3    4    5    6
          32.3 33.4 33.8 38.2 40.0 38.9
   3        1
          38.2
   4        1    2    3
          38.9 41.8 36.4
   5        1    2    3    4    5    6
          32.5 29.1 28.8 33.0 34.7 31.4
   6        1    2    3
          27.9 26.8 30.2
   7        1    2    3    4
          30.2 26.6 27.7 29.8
   8        1    2    3    4    5    6
          34.7 33.0 28.7 29.1 32.5 35.1
   9        1    2    3
          41.5 40.4 39.5
  10        1
          39.3
  11        1    2    3    4    5    6
          39.9 38.2 33.7 33.3 32.3 31.6
  12        1    2    3    4    5
          27.9 27.3 27.1 26.7 24.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.3 33.7 28.1 34.6 35.2 35.5 35.3 35.1 35.5 35.4

          35.4 35.8 35.4 35.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          35.1 35.4 35.7 35.7 35.1 35.5 35.2 35.1 36.0 35.3

          33.7 29.7 34.1 29.4
  15        1    2    3    4    5    6    7    8    9   10

          27.4 30.1 25.4 25.7 25.9 25.9 25.9 25.7 25.4 30.6

  16        1    2    3    4    5    6    7    8    9   10

          30.5 25.2 25.6 25.7 25.8 25.8 25.6 25.2 30.1 27.4

  17        1    2    3    4    5    6    7
          27.6 28.0 27.6 27.0 27.7 28.1 23.9
  18        1    2    3    4    5    6    7
          23.6 28.1 27.7 27.0 27.5 27.9 27.5
1

 RECEIVER    LEQ(H)   L10
 75           53.8   55.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.3 26.4 26.7 26.9 27.6 29.0
   2        1    2    3    4    5    6
          31.9 32.9 33.1 36.5 37.5 37.5
   3        1
          37.7
   4        1    2    3
          39.1 42.0 36.8
   5        1    2    3    4    5    6
          33.0 29.6 29.2 33.4 35.1 31.8
   6        1    2    3
          28.3 27.2 30.5
   7        1    2    3    4
          30.5 27.0 28.2 30.2
   8        1    2    3    4    5    6
          35.0 33.4 29.1 29.5 32.9 35.5
   9        1    2    3
          41.8 40.6 39.1
  10        1
          38.6
  11        1    2    3    4    5    6
          38.4 37.5 33.2 32.8 31.8 31.1
  12        1    2    3    4    5
          27.5 26.9 26.7 26.3 24.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.1 33.4 27.9 34.2 34.9 35.2 34.9 34.8 35.2 35.1

          35.0 35.4 33.2 30.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.3 33.3 35.4 35.4 34.8 35.1 34.9 34.7 35.7 35.0

          33.4 29.5 33.8 29.2
  15        1    2    3    4    5    6    7    8    9   10

          27.1 29.9 25.0 25.4 25.6 25.6 25.7 25.4 25.1 30.4

  16        1    2    3    4    5    6    7    8    9   10

          30.3 25.0 25.4 25.5 25.5 25.5 25.3 24.9 29.8 27.0

  17        1    2    3    4    5    6    7
          27.2 27.6 27.2 26.7 27.3 27.8 23.5
  18        1    2    3    4    5    6    7
          23.3 27.8 27.3 26.6 27.1 27.5 27.0
1

 RECEIVER    LEQ(H)   L10
 76           50.2   51.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          24.1 26.1 26.5 26.7 27.3 28.6
   2        1    2    3    4    5    6
          28.4 28.9 24.0 27.1 27.3 27.6
   3        1
          27.6
   4        1    2    3
          27.6 37.2 35.4
   5        1    2    3    4    5    6
          31.4 28.0 27.8 32.5 34.4 31.2
   6        1    2    3
          27.8 26.8 30.2
   7        1    2    3    4
          30.2 26.6 27.7 29.6
   8        1    2    3    4    5    6
          34.3 32.5 28.1 28.3 31.6 34.1
   9        1    2    3
          36.8 27.8 27.4
  10        1
          27.6
  11        1    2    3    4    5    6
          27.5 27.3 24.1 28.6 28.4 30.4
  12        1    2    3    4    5
          27.2 26.7 26.4 26.1 24.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          24.3 28.5 23.0 29.2 29.8 30.2 33.5 34.5 34.9 34.9

          34.9 34.2 31.8 30.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.3 31.7 34.1 35.2 34.6 34.9 34.6 33.4 30.6 29.9

          28.4 24.5 28.8 24.4
  15        1    2    3    4    5    6    7    8    9   10

          21.7 24.2 19.4 19.7 19.9 19.9 19.9 19.7 19.4 24.9

  16        1    2    3    4    5    6    7    8    9   10

          24.8 19.3 19.6 19.7 19.8 19.8 19.6 19.3 24.2 21.7

  17        1    2    3    4    5    6    7
          26.6 26.0 21.1 20.8 21.7 22.3 18.1
  18        1    2    3    4    5    6    7
          17.8 22.3 21.7 20.7 21.0 26.2 26.6
1

 RECEIVER    LEQ(H)   L10
 77           50.0   51.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          23.2 25.1 25.4 24.9 24.4 24.7
   2        1    2    3    4    5    6
          26.9 27.2 28.0 28.8 24.7 24.9
   3        1
          24.9
   4        1    2    3
          25.5 39.8 31.4
   5        1    2    3    4    5    6
          28.0 25.7 26.7 32.3 34.3 31.2
```

```
 6        1    2    3
         27.9 26.8 30.3
 7        1    2    3    4
         30.2 26.5 27.7 29.6
 8        1    2    3    4    5    6
         34.2 32.3 27.0 26.1 28.3 31.1
 9        1    2    3
         39.6 25.4 24.7
10        1
         24.9
11        1    2    3    4    5    6
         24.9 26.6 29.4 27.0 27.1 27.4
12        1    2    3    4    5
         24.8 25.5 25.9 25.6 23.9
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         23.5 27.8 22.3 28.7 31.1 34.6 34.3 34.2 34.7 34.4

         31.4 30.7 30.0 29.5
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         29.5 29.9 30.7 31.7 34.0 34.7 34.4 34.1 35.1 30.6

         27.8 23.8 28.2 23.6
15        1    2    3    4    5    6    7    8    9   10

         21.3 23.6 18.7 18.9 19.1 19.2 19.2 19.0 18.9 24.3

16        1    2    3    4    5    6    7    8    9   10

         24.2 18.7 19.0 19.0 19.1 19.1 18.9 18.6 23.6 21.2

17        1    2    3    4    5    6    7
         24.2 24.6 25.7 25.9 23.4 21.5 17.5
18        1    2    3    4    5    6    7
         17.3 21.6 24.2 25.8 26.3 24.9 24.1
1

RECEIVER    LEQ(H)   L10
78           44.3   46.3

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
         9.2 11.3 11.4 11.2 11.3 11.7
 2        1    2    3    4    5    6
         14.6 16.0 16.1 19.1 19.4 19.8
 3        1
         20.0
 4        1    2    3
         31.9 34.1 28.6
 5        1    2    3    4    5    6
         26.0 23.2 23.2 27.7 31.8 31.5
 6        1    2    3
         28.1 27.1 27.7
 7        1    2    3    4
         28.9 26.9 27.9 29.9
 8        1    2    3    4    5    6
         31.7 27.7 23.1 23.2 25.9 27.6
 9        1    2    3
         34.1 31.4 19.7
10        1
         19.6
11        1    2    3    4    5    6
         19.5 19.1 16.0 15.9 14.6 13.8
12        1    2    3    4    5
         10.7 11.0 11.3 11.3  9.2
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         14.9 18.8 13.3 19.2 19.3 19.2 18.4 17.8 20.0 20.2

         22.5 26.8 25.3 24.4
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         24.3 25.2 26.6 22.2 19.9 19.9 18.0 18.3 19.7 19.6

         18.4 14.8 19.3 15.0
15        1    2    3    4    5    6    7    8    9   10

         12.0 14.9 10.0 10.4 10.6 10.6 10.7 10.6 10.5 16.3

16        1    2    3    4    5    6    7    8    9   10

         16.3 10.4 10.6 10.6 10.5 10.6 10.3  9.9 14.9 12.0

17        1    2    3    4    5    6    7
         9.9 10.7 10.7 10.5 11.4 12.3  8.4
18        1    2    3    4    5    6    7
         8.1 12.2 11.4 10.4 10.5 10.5  9.7
1

RECEIVER    LEQ(H)   L10
79           46.0   48.5

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
         8.6 10.5 10.7 10.7 11.1 12.1
 2        1    2    3    4    5    6
         14.6 15.2 15.2 18.6 18.9 19.5
 3        1
         26.0
 4        1    2    3
         34.1 37.5 28.8
 5        1    2    3    4    5    6
         26.4 23.6 23.5 28.1 32.1 31.7
 6        1    2    3
         28.3 27.3 30.6
 7        1    2    3    4
         30.6 27.1 28.1 30.2
 8        1    2    3    4    5    6
         32.0 28.1 23.4 23.5 26.4 27.8
 9        1    2    3
         37.8 37.6 29.1
10        1
         19.3
11        1    2    3    4    5    6
         19.0 18.5 15.2 15.2 14.6 14.2
12        1    2    3    4    5
         11.0 10.7 10.7 10.5  8.6
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         14.2 18.4 12.8 19.1 19.6 19.8 19.5 19.3 19.7 19.5

         19.5 19.8 19.4 19.0
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         18.9 19.3 19.7 19.8 19.3 19.6 19.4 19.3 20.3 19.7

         18.3 14.3 18.8 14.3
15        1    2    3    4    5    6    7    8    9   10

         11.4 13.9  9.0  9.3  9.5  9.6  9.7  9.6  9.5 15.2

16        1    2    3    4    5    6    7    8    9   10

         15.2  9.4  9.5  9.5  9.5  9.4  9.2  8.9 13.9 11.5

17        1    2    3    4    5    6    7
         10.3 10.8 10.5 10.1 11.0 11.7  7.7
18        1    2    3    4    5    6    7
          7.5 11.7 11.0 10.0 10.4 10.7 10.2
1

RECEIVER    LEQ(H)   L10
80           46.4   48.9

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
         6.9  8.8  9.1  9.0  9.4 10.5
 2        1    2    3    4    5    6
         13.0 13.7 13.7 17.5 18.3 19.1
 3        1
         32.1
 4        1    2    3
         34.6 37.5 29.3
 5        1    2    3    4    5    6
         26.9 24.0 23.9 28.4 31.8 31.9
 6        1    2    3
         28.7 27.6 30.9
 7        1    2    3    4
         30.9 27.3 28.5 30.3
 8        1    2    3    4    5    6
         31.8 28.4 23.9 24.0 26.8 28.3
 9        1    2    3
         37.8 37.9 33.6
10        1
         18.9
11        1    2    3    4    5    6
         18.3 17.5 13.7 13.6 13.0 12.6
12        1    2    3    4    5
          9.4  9.0  9.0  8.8  6.9
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         12.3 16.5 11.0 17.2 17.7 18.0 17.8 17.6 18.0 17.8

         17.7 18.1 17.6 17.2
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         17.2 17.5 18.0 18.0 17.5 17.9 17.7 17.5 18.5 17.8

         16.4 12.5 16.9 12.4
15        1    2    3    4    5    6    7    8    9   10

          9.6 12.2  7.3  7.5  7.8  7.9  8.0 10.0 19.6 28.4

16        1    2    3    4    5    6    7    8    9   10

         28.3 19.5  7.8  7.8  7.8  7.7  7.5  7.2 12.1  9.6

17        1    2    3    4    5    6    7
          8.7  9.1  8.8  8.4  9.2  9.9  5.9
18        1    2    3    4    5    6    7
          5.7  9.9  9.3  8.3  8.7  9.1  8.6
1

RECEIVER    LEQ(H)   L10
81           47.9   50.1

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
          5.0  6.9  7.1  7.1  7.6  8.7
 2        1    2    3    4    5    6
         11.2 12.0 12.0 22.9 24.1 27.0
 3        1
         34.3
 4        1    2    3
         36.1 36.7 30.8
 5        1    2    3    4    5    6
         27.9 24.9 24.7 29.1 32.2 32.3
 6        1    2    3
         29.1 28.0 31.3
 7        1    2    3    4
         31.2 27.8 28.9 31.0
 8        1    2    3    4    5    6
         32.3 29.1 24.6 24.8 27.8 29.7
 9        1    2    3
         37.1 38.8 36.0
10        1
         29.2
11        1    2    3    4    5    6
         24.5 23.6 12.1 11.9 11.2 10.8
12        1    2    3    4    5
          7.5  7.1  7.1  6.8  5.0
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         23.4 27.7 22.1 28.5 29.0 28.1 15.7 15.5 16.0 15.9

         15.9 16.3 15.9 15.5
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         15.4 15.8 16.2 16.2 15.6 15.9 15.7 15.4 28.5 29.1

         27.6 23.6 28.0 23.4
15        1    2    3    4    5    6    7    8    9   10

         20.8 23.6 18.8 19.2 19.6 19.7 23.6 24.6 24.3 29.6

16        1    2    3    4    5    6    7    8    9   10

         29.6 24.2 24.5 23.4 19.6 19.5 19.2 18.7 23.6 20.8

17        1    2    3    4    5    6    7
          6.9  7.3  6.9 18.1 19.8 20.8 17.0
18        1    2    3    4    5    6    7
         16.8 20.8 19.9 17.4  6.8  7.3  6.8
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                    ************************
                           STAM2VU1
                         Version 1.20
                    ************************
                       STAMINA 2.0/BCR
            MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
                TRAFFIC NOISE PREDICTION MODEL

        MODIFIED TO:
          1.   ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
          2.   CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY
               USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
          3.   PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A
               DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE
               LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.
                    ************************
           MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
               BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
                     AND BOWLBY & ASSOCIATES, INC.
                        2014 BROADWAY, SUITE 210
                        NASHVILLE, TN 37203-2425
                  TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE
HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK
CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE
*.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.

         (INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH )

 Meadowood - Single-Family 1st Floor (Receivers 42-81)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

      HEIGHT       CODE          DESCRIPTION
        .00          1      RECEIVER HEIGHT ADJUSTMENT
       1.00          2      A-WEIGHTED SOUND LEVEL ONLY
        .00          3      HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
        .00          4      HEIGHT ADJUSTMENT FOR HEAVY TRUCKS    (HT)
        .00          5      HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS   (MT)
       .000          6      HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4)
                            CARS--CALVENO
                            C0 =       5.20  C1 =      38.80  S0 =        .00
      2.300          7      HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5)
                            MT--CALVENO
                            C0 =      35.30  C1 =      25.60  S0 =        .00
      8.000          8      HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6)
                            HT--CALVEN0
                            C0 =      50.40  C1 =      19.20  S0 =        .00

0ROADWAY   1      HRC nb (76 to Pankey)

                     VEHICLE TYPE   VEHICLES/HOUR      SPEED
                         CARS              0.           30.0
                         HT                0.           30.0
                         MT                0.           30.0
                         VEH4            415.           40.0
                         VEH5             13.           40.0
                         VEH6              9.           40.0
0                      ------------COORDINATES------------
                           X           Y             Z    GRADE
 1                     6287767.4   2067284.0      276.0     0
 2                     6287704.7   2067456.2      276.0     0
 3                     6287629.7   2067702.5      279.0     0
 4                     6287568.8   2067936.5      284.0     0
 5                     6287512.3   2068148.3      284.0     0
 6                     6287446.9   2068359.4      282.0     0
 7                     6287374.5   2068606.6      279.0     0

0ROADWAY   2      HRC nb (Pankey to School)

                     VEHICLE TYPE   VEHICLES/HOUR      SPEED
                         CARS              0.           30.0
                         HT                0.           30.0
                         MT                0.           30.0
                         VEH4            695.           40.0
                         VEH5             22.           40.0
                         VEH6             15.           40.0
0                      ------------COORDINATES------------
                           X           Y             Z    GRADE
 7                     6287374.5   2068606.6      279.0     0
 8                     6287273.9   2068832.6      278.0     0
 9                     6287137.9   2069057.7      278.0     0
 10                    6287017.0   2069263.4      280.0     0
 11                    6286760.9   2069688.9      285.0     0
 12                    6286533.2   2070137.4      290.0     0
 13                    6286310.7   2070587.7      296.0     0

0ROADWAY   3      HRC nb (School to 26)

                     VEHICLE TYPE   VEHICLES/HOUR      SPEED
                         CARS              0.           30.0
                         HT                0.           30.0
                         MT                0.           30.0
                         VEH4            689.           40.0
                         VEH5             22.           40.0
                         VEH6             15.           40.0
0                      ------------COORDINATES------------
                           X           Y             Z    GRADE
 13                    6286310.7   2070587.7      296.0     0
 14                    6286086.4   2071030.0      302.0     0

0ROADWAY   4      HRC nb (26 to Harvest Glen)

                     VEHICLE TYPE   VEHICLES/HOUR      SPEED
                         CARS              0.           30.0
                         HT                0.           30.0
                         MT                0.           30.0
                         VEH4            634.           40.0
                         VEH5             20.           40.0
                         VEH6             13.           40.0
0                      ------------COORDINATES------------
                           X           Y             Z    GRADE
 14                    6286086.4   2071030.0      302.0     0
 15                    6285859.5   2071475.8      308.0     0
 16                    6285540.8   2072106.2      311.0     0
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 17                    6285403.1   2072385.2      310.0     0

0ROADWAY   5      HRC nb (Harvest Glen to Longspur)

                     VEHICLE TYPE   VEHICLES/HOUR      SPEED
                         CARS              0.           30.0
                         HT                0.           30.0
                         MT                0.           30.0
                         VEH4            488.           40.0
                         VEH5             15.           40.0
                         VEH6             10.           40.0
0                      ------------COORDINATES------------
                           X           Y             Z    GRADE
 17                    6285403.1   2072385.2      310.0     0
 18                    6285328.1   2072574.1      310.0     0
 19                    6285298.0   2072673.9      310.0     0
 20                    6285270.7   2072773.6      311.0     0
 21                    6285221.2   2073078.2      314.0     0
 22                    6285201.8   2073673.3      322.0     0
 23                    6285188.6   2074037.0      338.0     0

0ROADWAY   6      HRC nb (Longspur to Baltimore)

                     VEHICLE TYPE   VEHICLES/HOUR      SPEED
                         CARS              0.           30.0
                         HT                0.           30.0
                         MT                0.           30.0
                         VEH4            347.           40.0
                         VEH5             11.           40.0
                         VEH6              7.           40.0
0                      ------------COORDINATES------------
                           X           Y             Z    GRADE
 23                    6285188.6   2074037.0      338.0     0
 24                    6285145.3   2074308.9      346.0     0
 25                    6285056.1   2074546.4      351.0     0
 26                    6284650.0   2075149.4      356.0     0

0ROADWAY   7      HRC sb (Baltimore to Longspur)

                     VEHICLE TYPE   VEHICLES/HOUR      SPEED
                         CARS              0.           30.0
                         HT                0.           30.0
                         MT                0.           30.0
                         VEH4            347.           40.0
                         VEH5             11.           40.0
                         VEH6              7.           40.0
0                      ------------COORDINATES------------
                           X           Y             Z    GRADE
 1                     6284621.8   2075132.6      356.0     0
 2                     6285015.5   2074527.9      351.0     0
 3                     6285099.4   2074300.1      346.0     0
 4                     6285141.8   2074033.5      338.0     0
 5                     6285159.4   2073671.5      322.0     0

0ROADWAY   8      HRC sb (Longspur to Harvest Glen)

                     VEHICLE TYPE   VEHICLES/HOUR      SPEED
                         CARS              0.           30.0
                         HT                0.           30.0
                         MT                0.           30.0
                         VEH4            488.           40.0
                         VEH5             15.           40.0
                         VEH6             10.           40.0
0                      ------------COORDINATES------------
                           X           Y             Z    GRADE
 5                     6285159.4   2073671.5      322.0     0
 6                     6285181.5   2073072.9      314.0     0
 7                     6285228.3   2072759.5      311.0     0
 8                     6285256.5   2072658.0      310.0     0
 9                     6285287.4   2072557.3      310.0     0
 10                    6285368.7   2072369.3      310.0     0
 11                    6285504.6   2072087.7      311.0     0

0ROADWAY   9      HRC sb (Harvest Glen to 26)

                     VEHICLE TYPE   VEHICLES/HOUR      SPEED
                         CARS              0.           30.0
                         HT                0.           30.0
                         MT                0.           30.0
                         VEH4            634.           40.0
                         VEH5             20.           40.0
                         VEH6             13.           40.0
0                      ------------COORDINATES------------
                           X           Y             Z    GRADE
 11                    6285504.6   2072087.7      311.0     0
 12                    6285818.9   2071457.3      308.0     0
 13                    6286045.8   2071007.9      302.0     0
 14                    6286269.2   2070567.4      296.0     0

0ROADWAY  10      HRC sb (26 to School)

                     VEHICLE TYPE   VEHICLES/HOUR      SPEED
                         CARS              0.           30.0
                         HT                0.           30.0
                         MT                0.           30.0
                         VEH4            689.           40.0
                         VEH5             22.           40.0
                         VEH6             14.           40.0
0                      ------------COORDINATES------------
                           X           Y             Z    GRADE
 14                    6286269.2   2070567.4      296.0     0
 15                    6286493.4   2070122.4      290.0     0

0ROADWAY  11      HRC sb (School to Pankey)

                     VEHICLE TYPE   VEHICLES/HOUR      SPEED
                         CARS              0.           30.0
                         HT                0.           30.0
                         MT                0.           30.0
                         VEH4            695.           40.0
                         VEH5             22.           40.0
                         VEH6             15.           40.0
0                      ------------COORDINATES------------
                           X           Y             Z    GRADE
 15                    6286493.4   2070122.4      290.0     0
 16                    6286720.3   2069667.7      285.0     0
 17                    6286977.2   2069239.6      280.0     0
 18                    6287102.6   2069033.0      278.0     0
 19                    6287238.6   2068813.1      278.0     0
```

20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0

	COORDINATES X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

1

BARRIER 1 TYPE(A) Pad Edges 1

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286634.5	2070357.1	300.0	300.0	.0	0
2	6286502.0	2070298.3	300.0	300.0		
3	6286265.1	2070793.1	310.0	310.0		
4	6286320.9	2070828.5	310.0	310.0		

1

BARRIER 2 TYPE(A) Pad Edges 2

	COORDINATES X	Y	Z	Z0	DELZ	P
5	6286349.5	2070944.8	315.0	315.0	.0	0
6	6286239.3	2070896.7	314.0	314.0		
7	6286196.9	2070902.4	314.0	314.0		
8	6286078.1	2071137.0	311.0	311.0		
9	6286004.6	2071292.5	316.0	316.0		
10	6286004.6	2071603.5	317.0	317.0		
11	6286004.6	2071990.8	321.0	321.0		
12	6286004.5	2072360.7	324.0	324.0		
13	6286289.0	2072499.4	326.0	326.0		
14	6286498.0	2072566.2	329.0	329.0		

1

BARRIER 3 TYPE(A) Pad Edges 3

	COORDINATES X	Y	Z	Z0	DELZ	P
15	6286634.5	2072765.6	401.0	395.0	1.0	3
16	6286621.9	2072916.9	401.0	395.0		
17	6286648.3	2073055.3	403.0	397.0		
18	6286685.9	2073120.3	406.0	400.0		
19	6286802.5	2073223.1	414.0	408.0		
20	6286939.8	2073344.0	427.0	421.0		
21	6287080.9	2073468.3	440.0	434.0		
22	6287179.3	2073554.7	448.0	442.0		
23	6287319.9	2073660.5	453.0	447.0		

1

BARRIER 4 TYPE(A) Pad Edges 4

	COORDINATES X	Y	Z	Z0	DELZ	P
24	6286661.4	2072669.3	405.0	399.0	1.0	3
25	6286691.4	2072606.8	408.0	402.0		
26	6286808.6	2072443.9	419.0	413.0		
27	6286883.6	2072343.9	426.0	420.0		
28	6286840.1	2072178.6	431.0	425.0		
29	6286816.2	2072125.3	431.0	425.0		
30	6286823.2	2072059.3	431.0	425.0		
32	6286845.0	2072002.5	431.0	425.0		
33	6286884.7	2071971.4	431.0	425.0		

1

BARRIER 5 TYPE(A) Pad Edges 5

	COORDINATES X	Y	Z	Z0	DELZ	P
33	6286902.8	2071961.7	431.0	425.0	1.0	3
34	6286962.6	2071945.7	431.0	425.0		
35	6287015.8	2071960.1	431.0	425.0		
36	6287071.5	2071996.1	431.0	425.0		
37	6287133.1	2072101.5	439.0	433.0		
38	6287208.1	2072073.0	446.0	440.0		
39	6287286.5	2072058.4	449.0	443.0		
40	6287479.3	2072046.8	460.0	454.0		
41	6287668.5	2072035.1	471.0	465.0		
41b	6287685.1	2071982.5	500.0	494.0		

1

BARRIER 6 TYPE(A) Pad Edges 6

	COORDINATES X	Y	Z	Z0	DELZ	P
41b	6287685.1	2071982.5	500.0	494.0	1.0	3
42	6287686.6	2071882.5	500.0	494.0		
42b	6287699.0	2071869.6	500.0	494.0		
43	6287687.4	2071826.0	500.0	494.0		
44	6287537.5	2071795.8	499.0	493.0		
45	6287494.5	2071766.0	499.0	493.0		
46	6287457.5	2071786.6	499.0	493.0		
47	6287414.4	2071765.2	499.0	493.0		
48	6287295.5	2071799.6	499.0	493.0		
49	6287284.9	2071649.7	495.0	489.0		

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BARRIER 7 TYPE(A) Pad Edges 7

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
49	6287284.9	2071649.7	495.0	489.0	1.0	3
50	6287348.9	2071527.3	493.0	487.0		
51	6287424.5	2071350.9	487.0	481.0		
52	6287467.2	2071294.2	485.0	479.0		
53	6287518.6	2071247.5	483.0	477.0		

1

BARRIER 8 TYPE(A) Pad Edges 8

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
54	6287218.1	2070892.1	423.0	417.0	1.0	3
55	6287157.9	2071011.8	428.0	422.0		
56	6287075.2	2071176.2	433.0	427.0		
57	6287007.6	2071272.7	433.0	427.0		
58	6286932.0	2071401.6	433.0	427.0		
59	6286944.0	2071476.9	433.0	427.0		
60	6286980.6	2071530.1	433.0	427.0		
61	6287085.3	2071587.4	433.0	427.0		
61b	6287195.3	2071545.3	436.0	430.0		

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BARRIER 9 TYPE(A) Pad Edges 9

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
62	6287504.8	2073407.6	464.0	464.0	.0	0
63	6287455.9	2073368.6	463.0	463.0		
64	6287170.1	2073077.7	459.0	459.0		
65	6287084.1	2072959.0	458.0	458.0		
66	6287062.5	2072812.7	457.0	457.0		
67	6287098.4	2072672.4	456.0	456.0		
68	6287206.8	2072488.9	454.0	454.0		
69	6287296.9	2072394.7	453.0	453.0		
70	6287367.3	2072346.7	452.0	452.0		
71	6287469.2	2072361.5	452.0	452.0		

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BARRIER 10 TYPE(A) Pad Edges 10

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
72	6287697.7	2073088.0	486.0	486.0	.0	0
73	6287547.5	2072976.4	486.0	486.0		
74	6287491.4	2072888.6	486.0	486.0		
75	6287491.1	2072766.9	485.0	485.0		
76	6287635.8	2072596.6	482.0	482.0		
77	6287767.5	2072309.5	477.0	477.0		

1

BARRIER 11 TYPE(A) Pad Edges 11

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
78	6287168.3	2074113.6	447.0	447.0	.0	0
79	6287306.7	2073811.7	443.0	443.0		
80	6287536.9	2073481.4	457.0	457.0		

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BARRIER 12 TYPE(A) Pad Edges 12

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
81	6287283.0	2074170.1	465.0	465.0	.0	0
82	6287469.8	2073845.2	471.0	471.0		
82b	6287616.6	2073652.3	478.0	478.0		
82c	6287630.6	2073609.8	478.0	478.0		
83	6287702.0	2073532.9	475.0	475.0		

1

BARRIER 13 TYPE(A) Pad Edges 14

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
84	6288855.6	2071200.7	606.0	606.0	.0	0
85	6288817.6	2071249.1	606.0	606.0		
85b	6288817.1	2071249.5	600.0	600.0		
85c	6288775.2	2071293.2	600.0	600.0		
85d	6288774.8	2071293.5	593.0	593.0		
86	6288730.6	2071333.3	593.0	593.0		
86b	6288730.4	2071333.5	585.0	585.0		
87	6288637.1	2071415.2	574.0	574.0		
87b	6288636.6	2071415.5	558.0	558.0		
87c	6288577.5	2071447.1	558.0	558.0		

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BARRIER 14 TYPE(A) Pad Edges 15

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
87c	6288577.5	2071447.1	558.0	558.0	.0	0
87d	6288576.6	2071447.3	542.0	542.0		
87e	6288512.6	2071462.6	542.0	542.0		
87f	6288512.2	2071462.7	535.0	535.0		
87g	6288454.3	2071466.7	535.0	535.0		
87h	6288453.5	2071466.7	528.0	528.0		
87i	6288396.4	2071470.4	528.0	528.0		

1

BARRIER 15 TYPE(A) Pad Edges 16

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
88	6287934.8	2071070.6	469.0	463.0	1.0	3
89	6287896.0	2071051.1	467.0	461.0		
90	6287829.7	2071017.7	463.0	457.0		
91	6287774.3	2070989.8	458.0	452.0		
92	6287719.9	2070962.3	452.0	446.0		
93	6287660.0	2070932.2	444.0	438.0		
94	6287602.9	2070903.4	437.0	431.0		
95	6287558.2	2070880.9	432.0	426.0		
96	6287504.6	2070853.9	432.0	426.0		
97	6287457.4	2070947.6	432.0	426.0		

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BARRIER 16 TYPE(A) Pad Edges 17

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
98	6287917.7	2071215.4	471.0	471.0	.0	0
99	6288056.8	2071153.4	487.0	487.0		
100	6288174.3	2071168.6	499.0	499.0		
101	6288341.6	2071223.3	517.0	517.0		
102	6288383.4	2071229.3	517.0	517.0		
103	6288411.9	2071206.0	518.0	518.0		

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BARRIER 17 TYPE(A) Pade Edges 18

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
104	6287531.1	2074308.7	483.0	483.0	.0	0
105	6287706.9	2074046.2	487.0	487.0		
106	6287847.9	2073869.2	491.0	491.0		
107	6287887.1	2073856.0	493.0	493.0		

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BARRIER 18 TYPE(A) Pad Edges 19

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
108a	6287776.1	2074544.5	503.0	503.0	.0	0
108b	6287725.5	2074618.8	503.0	503.0		
109	6287778.2	2074656.5	513.0	513.0		
110	6287798.1	2074702.8	518.0	518.0		
111	6287807.8	2074744.0	518.0	518.0		

1

BARRIER 19 TYPE(A) topo

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
101	6288085.4	2071071.8	480.0	480.0	.0	0
102	6288126.7	2071075.6	490.0	490.0		
103	6288184.4	2071080.1	500.0	500.0		
104	6288251.7	2071097.2	510.0	510.0		
105	6288303.1	2071102.9	520.0	520.0		
106	6288351.3	2071117.5	520.0	520.0		
107	6288405.9	2071126.4	520.0	520.0		
108	6288430.0	2071156.2	520.0	520.0		
109	6288449.0	2071195.5	520.0	520.0		
110	6288523.0	2071244.5	520.0	520.0		

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BARRIER 20 TYPE(A) topo cont.

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
110	6288523.0	2071244.5	520.0	520.0	.0	0
111	6288548.5	2071277.9	540.0	540.0		
112	6288475.2	2071383.9	540.0	540.0		
113	6288552.4	2071426.4	550.0	550.0		
114	6288585.8	2071413.3	560.0	560.0		
115	6288606.7	2071398.3	570.0	570.0		
116	6288659.1	2071359.7	580.0	580.0		
117	6288723.8	2071295.6	590.0	590.0		
118	6288785.3	2071224.9	600.0	600.0		
119	6288860.6	2071169.9	610.0	610.0		

1

Receivers @ 5'

	----------COORDINATES----------		
	X	Y	Z
42	6287209.4	2070932.6	421.0
43	6287178.7	2070993.6	423.0
44	6287124.4	2071102.2	429.0
45	6287070.4	2071208.9	432.0
46	6287011.5	2071313.5	432.0
47	6286953.5	2071473.5	431.0
48	6287522.5	2070876.7	430.0
49	6287583.7	2070904.9	435.0
50	6287641.1	2070934.2	442.0
51	6287698.8	2070963.5	451.0
52	6287753.1	2070989.9	456.0
53	6287807.4	2071017.6	461.0
54	6287863.0	2071046.2	465.0
55	6287917.2	2071073.2	467.0
56	6287991.1	2071192.0	476.0
57	6288126.8	2071166.8	492.0
58	6288204.0	2071190.3	503.0
59	6288260.7	2071208.1	513.0
60	6288313.9	2071224.5	518.0
61	6288362.9	2071239.5	521.0
62	6288406.6	2071227.5	522.0
63	6288483.4	2071474.3	539.0
64	6288549.4	2071464.5	547.0
65	6288609.3	2071442.1	563.0
66	6288668.5	2071402.8	578.0
67	6288714.7	2071361.7	589.0
68	6288759.5	2071320.9	597.0
69	6288803.3	2071278.6	605.0
70	6288841.8	2071234.7	610.0
71	6287500.6	2071278.0	482.0
72	6287443.5	2071343.1	484.0
73	6287391.9	2071446.5	488.0
74	6287340.0	2071566.7	492.0
75	6287299.9	2071702.6	495.0
76	6287610.5	2071800.0	498.0
77	6287697.0	2071890.8	499.0
78	6287687.1	2072010.9	470.0
79	6287626.5	2072047.9	466.0
80	6287511.7	2072055.9	458.0
81	6287331.8	2072066.2	448.0

1

ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
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3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

```
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 10 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 11 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 12 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 13 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 14 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 15 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 16 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 17 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 18 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
1

 SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

  1 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  2 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  3 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  4 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  5 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  6 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  7 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  8 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  9 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 10 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 11 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 12 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 13 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 14 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 15 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 16 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 17 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 18 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
1

 RECEIVER    LEQ(H)   L10
 42           48.7   50.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          18.8 20.8 21.1 21.3 21.8 23.1
   2        1    2    3    4    5    6
          25.7 26.5 26.6 30.6 31.8 32.6
   3        1
          32.0
   4        1    2    3
          30.3 29.8 24.6
   5        1    2    3    4    5    6
          20.8 17.5 17.2 21.5 23.4 20.3
   6        1    2    3
          16.9 16.1 19.7
   7        1    2    3    4
          19.7 15.9 16.8 18.8
   8        1    2    3    4    5    6
          23.4 21.5 17.2 17.4 20.8 23.3
   9        1    2    3
          29.6 30.1 31.3
  10        1
          32.1
  11        1    2    3    4    5    6
          31.6 30.4 26.5 26.3 25.6 25.1
  12        1    2    3    4    5
          21.7 21.2 21.0 20.7 18.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.0 25.5 20.1 26.7 27.6 28.4 28.4 28.7 29.5 29.8

          35.4 37.5 37.0 36.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.7 37.0 37.4 35.4 29.5 29.5 28.8 28.2 28.8 27.7

          25.8 21.6 25.9 21.0
  15        1    2    3    4    5    6    7    8    9   10

          19.3 21.7 16.9 17.1 17.1 17.1 16.9 16.4 16.0 21.0

  16        1    2    3    4    5    6    7    8    9   10

          21.0 15.9 16.4 16.7 17.0 17.0 17.0 16.7 21.7 19.3

  17        1    2    3    4    5    6    7
          21.2 21.3 20.5 19.7 20.2 20.4 16.0
  18        1    2    3    4    5    6    7
          15.7 20.5 20.2 19.7 20.4 21.2 21.1
1

 RECEIVER    LEQ(H)   L10
 43           46.8   48.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          18.0 20.0 20.3 20.5 21.0 22.2
   2        1    2    3    4    5    6
          24.8 25.6 25.7 29.6 30.8 31.6
   3        1
          31.3
   4        1    2    3
          29.6 29.2 24.0
   5        1    2    3    4    5    6
          20.3 17.0 16.8 21.1 23.2 20.3
   6        1    2    3
          17.2 16.1 19.8
   7        1    2    3    4
          19.8 16.1 17.0 18.7
   8        1    2    3    4    5    6
          23.1 21.1 16.7 16.9 20.2 22.8
   9        1    2    3
          29.0 29.4 30.6
  10        1
          31.2
  11        1    2    3    4    5    6
          30.6 29.4 25.5 25.3 24.7 24.2
  12        1    2    3    4    5
          20.8 20.4 20.2 19.9 17.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.0 24.5 19.1 25.7 26.6 27.4 27.5 27.8 28.7 29.1

          29.6 30.7 34.0 36.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          36.5 33.5 30.6 30.0 28.8 28.7 27.9 27.3 27.9 26.7

          24.8 20.6 24.9 20.0
  15        1    2    3    4    5    6    7    8    9   10

          18.3 20.7 15.8 16.0 16.1 16.0 15.8 15.4 15.0 20.0

  16        1    2    3    4    5    6    7    8    9   10

          20.0 14.8 15.4 15.6 15.9 15.9 15.9 15.7 20.6 18.3

  17        1    2    3    4    5    6    7
          20.4 20.4 19.6 18.8 19.2 19.5 15.0
  18        1    2    3    4    5    6    7
          14.7 19.5 19.3 18.7 19.5 20.3 20.2
1

 RECEIVER    LEQ(H)   L10
 44           49.0   50.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          19.9 21.9 22.3 22.5 23.2 24.5
   2        1    2    3    4    5    6
          27.3 28.2 28.6 32.8 34.3 35.7
   3        1
          36.2
   4        1    2    3
          34.2 33.5 28.1
   5        1    2    3    4    5    6
          24.1 20.8 20.4 24.6 26.3 22.8
   6        1    2    3
          19.2 18.4 22.2
   7        1    2    3    4
          22.2 18.2 19.2 21.3
   8        1    2    3    4    5    6
          26.3 24.7 20.4 20.7 24.1 26.9
   9        1    2    3
          33.4 34.0 35.1
  10        1
          35.3
  11        1    2    3    4    5    6
          34.2 32.7 28.5 28.1 27.2 26.6
  12        1    2    3    4    5
          23.0 22.5 22.3 21.9 19.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.9 28.3 22.8 29.3 30.0 30.5 30.3 30.3 30.8 30.8

          30.8 31.3 31.0 34.4
```

```
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          33.9 30.9 31.2 31.1 30.5 30.7 30.4 30.1 31.0 30.1

          28.4 24.4 28.6 23.9
  15        1    2    3    4    5    6    7    8    9   10

          22.0 24.7 19.9 20.2 20.4 20.4 20.3 20.0 19.6 24.7

  16        1    2    3    4    5    6    7    8    9   10

          24.7 19.5 19.9 20.1 20.3 20.3 20.2 19.8 24.6 22.0

  17        1    2    3    4    5    6    7
          22.7 23.0 22.5 21.9 22.5 22.9 18.6
  18        1    2    3    4    5    6    7
          18.3 22.9 22.5 21.9 22.4 23.0 22.6
1

 RECEIVER    LEQ(H)   L10
 45           49.3   50.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          19.4 21.4 21.8 21.9 22.6 23.9
   2        1    2    3    4    5    6
          26.7 27.8 28.2 32.6 34.5 36.2
   3        1
          37.2
   4        1    2    3
          35.7 35.2 29.7
   5        1    2    3    4    5    6
          25.8 22.3 22.0 26.1 27.6 23.9
   6        1    2    3
          20.8 20.0 23.7
   7        1    2    3    4
          23.7 19.8 20.6 22.5
   8        1    2    3    4    5    6
          27.6 26.2 22.0 22.4 25.8 28.5
   9        1    2    3
          35.1 35.6 36.2
  10        1
          35.9
  11        1    2    3    4    5    6
          34.4 32.6 28.2 27.7 26.7 26.0
  12        1    2    3    4    5
          22.5 22.0 21.7 21.4 19.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          24.2 28.5 23.1 29.4 30.1 30.4 30.1 29.9 30.3 30.2

          30.3 30.8 30.4 32.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.4 30.4 30.7 30.7 29.9 30.3 30.1 29.9 30.9 30.2

          28.6 24.6 28.9 24.3
  15        1    2    3    4    5    6    7    8    9   10

          22.2 25.1 20.4 20.7 21.0 21.1 21.1 20.8 20.5 25.7

  16        1    2    3    4    5    6    7    8    9   10

          25.7 20.4 20.8 20.9 21.0 20.9 20.7 20.3 25.0 22.2

  17        1    2    3    4    5    6    7
          22.2 22.6 22.3 21.8 22.5 22.9 18.7
  18        1    2    3    4    5    6    7
          18.5 23.0 22.5 21.7 22.2 22.6 22.1
1

 RECEIVER    LEQ(H)   L10
 46           48.7   50.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          18.8 20.8 21.2 21.4 21.9 23.2
   2        1    2    3    4    5    6
          25.9 26.9 27.3 31.7 33.5 35.3
   3        1
          36.8
   4        1    2    3
          35.5 35.2 29.8
   5        1    2    3    4    5    6
          25.9 22.5 22.1 26.3 27.9 24.7
   6        1    2    3
          21.6 20.7 24.3
   7        1    2    3    4
          24.3 20.5 21.5 23.2
   8        1    2    3    4    5    6
          27.9 26.4 22.2 22.5 25.9 28.7
   9        1    2    3
          35.1 35.4 35.6
  10        1
          35.0
  11        1    2    3    4    5    6
          33.4 31.7 27.3 26.8 25.9 25.3
  12        1    2    3    4    5
          21.9 21.4 21.2 20.8 18.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          24.1 28.4 22.9 29.2 29.8 30.1 29.8 29.6 29.9 29.6

          29.4 29.6 28.9 28.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.3 28.9 29.5 29.8 29.4 29.8 29.7 29.6 30.6 29.9

          28.4 24.4 28.8 24.2
  15        1    2    3    4    5    6    7    8    9   10

          22.0 24.9 20.1 20.5 20.9 21.0 21.0 20.7 20.5 25.7

  16        1    2    3    4    5    6    7    8    9   10

          25.7 20.3 20.7 20.8 20.8 20.7 20.5 20.0 24.8 21.9

  17        1    2    3    4    5    6    7
          21.5 22.0 21.7 21.3 22.0 22.6 18.4
  18        1    2    3    4    5    6    7
          18.2 22.6 22.0 21.2 21.6 21.9 21.4
1

 RECEIVER    LEQ(H)   L10
 47           47.3   48.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          17.1 19.0 19.4 19.4 19.8 20.9
   2        1    2    3    4    5    6
          23.5 24.4 24.7 28.9 30.5 33.4
   3        1
          35.4
   4        1    2    3
          34.5 34.4 28.9
   5        1    2    3    4    5    6
          25.0 21.5 21.2 25.3 27.0 23.7
   6        1    2    3
          20.3 19.3 22.7
   7        1    2    3    4
          22.6 19.0 20.1 22.1
   8        1    2    3    4    5    6
          26.9 25.3 21.1 21.5 24.9 27.7
   9        1    2    3
          34.2 34.3 34.2
  10        1
          33.2
  11        1    2    3    4    5    6
          30.7 29.0 24.8 24.4 23.5 23.1
  12        1    2    3    4    5
          19.8 19.5 19.4 19.1 17.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.0 27.2 21.7 28.0 28.5 28.8 28.4 28.1 28.3 28.0

          27.6 27.6 26.7 31.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.1 26.6 27.5 28.0 27.7 28.3 28.2 28.2 29.2 28.6

          27.2 23.2 27.5 23.0
  15        1    2    3    4    5    6    7    8    9   10

          20.5 23.4 18.8 19.2 19.4 19.5 19.5 19.2 18.9 24.0

  16        1    2    3    4    5    6    7    8    9   10

          24.0 18.7 19.1 19.3 19.3 19.3 19.1 18.6 23.3 20.5

  17        1    2    3    4    5    6    7
          19.3 19.9 19.7 19.4 20.3 21.0 16.9
  18        1    2    3    4    5    6    7
          16.7 21.0 20.3 19.4 19.6 19.9 19.2
1

 RECEIVER    LEQ(H)   L10
 48           46.9   48.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          18.5 20.6 21.1 21.4 22.1 23.5
   2        1    2    3    4    5    6
          26.4 27.4 27.8 32.0 33.1 33.7
   3        1
          32.8
   4        1    2    3
          28.3 27.5 21.9
   5        1    2    3    4    5    6
          18.0 14.7 14.4 18.6 21.2 19.3
   6        1    2    3
          16.9 16.7 20.7
   7        1    2    3    4
          20.7 16.5 16.8 17.8
   8        1    2    3    4    5    6
          21.2 18.9 14.6 14.8 18.2 21.0
   9        1    2    3
          27.7 28.6 32.3
  10        1
          33.3
  11        1    2    3    4    5    6
          33.0 31.8 27.7 27.3 26.3 25.6
  12        1    2    3    4    5
          21.9 21.4 21.1 20.6 18.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.2 27.5 22.0 28.4 29.0 29.4 29.2 29.0 29.4 29.3

          29.3 29.7 29.3 29.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.0 29.3 29.6 29.6 29.0 29.4 29.1 29.0 29.9 29.2

          27.6 23.6 27.9 23.3
  15        1    2    3    4    5    6    7    8    9   10

          21.3 24.2 19.4 19.7 19.9 19.8 19.7 19.4 19.0 24.2

  16        1    2    3    4    5    6    7    8    9   10

          24.1 18.9 19.3 19.5 19.7 19.8 19.6 19.3 24.1 21.2

  17        1    2    3    4    5    6    7
          21.7 22.0 21.5 20.9 21.6 22.0 17.7
  18        1    2    3    4    5    6    7
          17.5 22.0 21.6 20.9 21.4 21.9 21.5
1

 RECEIVER    LEQ(H)   L10
 49           49.4   50.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          21.4 23.6 24.1 24.4 25.2 26.7
   2        1    2    3    4    5    6
          29.7 31.0 31.4 36.0 37.0 34.7
   3        1
          32.9
   4        1    2    3
          27.6 27.0 21.6
   5        1    2    3    4    5    6
          17.9 14.6 14.3 19.0 21.9 20.2
   6        1    2    3
```

```
          18.0 17.6 21.5
   7        1    2    3    4
          21.6 17.5 17.8 18.7
   8        1    2    3    4    5    6
          21.9 19.2 14.5 14.8 18.1 20.7
   9        1    2    3
          27.2 28.0 32.6
  10        1
          34.4
  11        1    2    3    4    5    6
          36.7 35.8 31.3 30.8 29.7 28.8
  12        1    2    3    4    5
          25.1 24.4 24.0 23.6 21.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          25.5 29.9 24.5 30.9 31.6 32.1 31.9 31.8 32.2 32.1

          32.1 32.6 32.2 31.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.8 32.1 32.5 32.5 31.9 32.2 31.9 31.7 32.6 31.7

          30.1 26.0 30.3 25.6
  15        1    2    3    4    5    6    7    8    9   10

          23.9 26.7 21.9 22.3 22.6 22.5 22.3 21.7 21.1 26.0

  16        1    2    3    4    5    6    7    8    9   10

          26.0 21.0 21.7 22.1 22.4 22.4 22.2 21.8 26.7 23.8

  17        1    2    3    4    5    6    7
          24.9 25.2 24.7 24.0 24.5 24.8 20.4
  18        1    2    3    4    5    6    7
          20.2 24.8 24.5 23.9 24.5 25.1 24.7
1

 RECEIVER     LEQ(H)   L10
 50            49.6   51.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          21.4 23.6 24.1 24.4 25.2 26.7
   2        1    2    3    4    5    6
          29.7 30.9 31.3 35.8 37.1 35.7
   3        1
          33.8
   4        1    2    3
          27.5 26.9 21.9
   5        1    2    3    4    5    6
          18.1 15.2 15.2 19.9 23.1 21.6
   6        1    2    3
          19.0 17.5 21.5
   7        1    2    3    4
          21.6 17.9 19.0 20.1
   8        1    2    3    4    5    6
          23.1 20.1 15.3 15.3 18.4 20.9
   9        1    2    3
          27.3 28.0 32.6
  10        1
          35.4
  11        1    2    3    4    5    6
          36.9 35.6 31.2 30.7 29.6 28.8
  12        1    2    3    4    5
          25.0 24.4 24.0 23.5 21.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          25.5 29.9 24.4 30.8 31.5 32.0 31.8 31.7 32.2 32.1

          32.1 32.6 32.2 31.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.9 32.2 32.5 32.5 31.9 32.2 31.9 31.6 32.5 31.7

          30.0 26.0 30.3 25.6
  15        1    2    3    4    5    6    7    8    9   10

          23.8 26.7 21.9 22.3 22.7 22.6 22.9 23.0 23.5 28.0

  16        1    2    3    4    5    6    7    8    9   10

          28.1 23.3 23.0 22.6 22.4 22.4 22.2 21.8 26.6 23.8

  17        1    2    3    4    5    6    7
          24.8 25.1 24.5 23.9 24.4 24.7 20.3
  18        1    2    3    4    5    6    7
          20.1 24.7 24.4 23.8 24.4 25.0 24.6
1

 RECEIVER     LEQ(H)   L10
 51            50.7   52.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          22.5 24.6 25.1 25.4 26.1 27.5
   2        1    2    3    4    5    6
          30.4 31.5 31.9 36.1 37.1 38.2
   3        1
          33.1
   4        1    2    3
          27.8 27.3 22.4
   5        1    2    3    4    5    6
          19.1 16.3 16.4 21.4 24.8 26.7
   6        1    2    3
          18.6 18.3 22.4
   7        1    2    3    4
          22.5 18.2 21.3 24.5
   8        1    2    3    4    5    6
          24.8 21.5 16.5 16.5 19.2 21.5
   9        1    2    3
          27.6 28.3 32.8
  10        1
          36.1
  11        1    2    3    4    5    6
          36.9 35.9 31.8 31.3 30.3 29.6
  12        1    2    3    4    5
          26.0 25.4 25.1 24.6 22.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.0 32.2 26.7 32.9 33.4 33.7 33.3 33.1 33.4 33.2

          33.1 33.5 33.1 32.7

  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          32.7 33.0 33.4 33.5 33.0 33.4 33.2 33.2 34.2 33.5

          32.1 28.2 32.5 28.1
  15        1    2    3    4    5    6    7    8    9   10

          25.7 28.8 24.1 24.7 25.3 25.2 26.1 26.1 25.7 30.6

  16        1    2    3    4    5    6    7    8    9   10

          30.6 25.6 26.1 25.9 25.1 25.0 24.6 24.0 28.8 25.7

  17        1    2    3    4    5    6    7
          25.7 26.0 25.6 25.1 25.7 26.2 22.1
  18        1    2    3    4    5    6    7
          21.8 26.2 25.8 25.0 25.5 25.9 25.5
1

 RECEIVER     LEQ(H)   L10
 52            49.4   51.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          21.3 23.4 23.9 24.2 24.9 26.4
   2        1    2    3    4    5    6
          29.4 30.5 30.8 35.1 36.3 37.6
   3        1
          32.3
   4        1    2    3
          27.4 27.0 22.5
   5        1    2    3    4    5    6
          19.6 17.0 17.1 22.1 28.1 20.0
   6        1    2    3
           9.4  8.5 12.2
   7        1    2    3    4
          12.3  8.4  9.3 21.9
   8        1    2    3    4    5    6
          27.4 22.3 17.1 17.0 19.7 21.5
   9        1    2    3
          27.3 27.8 31.9
  10        1
          35.5
  11        1    2    3    4    5    6
          36.1 35.0 30.7 30.3 29.3 28.5
  12        1    2    3    4    5
          24.8 24.1 23.8 23.4 21.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          25.3 29.6 24.2 30.6 31.3 31.8 31.6 31.5 32.0 32.0

          32.0 32.5 32.2 31.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.9 32.2 32.5 32.4 31.7 32.0 31.7 31.4 32.2 31.4

          29.8 25.7 30.0 25.3
  15        1    2    3    4    5    6    7    8    9   10

          23.5 26.3 21.4 21.8 22.0 21.9 22.0 22.1 22.6 30.2

  16        1    2    3    4    5    6    7    8    9   10

          30.1 22.4 22.0 21.8 21.8 21.8 21.7 21.3 26.2 23.5

  17        1    2    3    4    5    6    7
          24.5 24.8 24.2 23.5 24.0 24.4 20.0
  18        1    2    3    4    5    6    7
          19.8 24.4 24.1 23.5 24.1 24.7 24.4
1

 RECEIVER     LEQ(H)   L10
 53            48.9   50.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          21.0 23.1 23.6 23.9 24.6 26.0
   2        1    2    3    4    5    6
          28.9 30.0 30.3 34.5 35.5 36.7
   3        1
          31.4
   4        1    2    3
          26.9 26.7 22.9
   5        1    2    3    4    5    6
          20.1 17.6 17.8 22.9 16.0 12.5
   6        1    2    3
           9.3  8.6 12.5
   7        1    2    3    4
          12.5  8.5  9.3 11.1
   8        1    2    3    4    5    6
          17.9 23.0 17.9 17.7 20.3 21.8
   9        1    2    3
          27.0 27.4 31.0
  10        1
          35.0
  11        1    2    3    4    5    6
          35.4 34.4 30.2 29.8 28.8 28.1
  12        1    2    3    4    5
          24.5 23.8 23.5 23.1 21.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          25.0 29.4 24.0 30.4 31.1 31.6 31.4 31.3 31.8 31.7

          31.8 32.3 31.9 31.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.6 31.8 32.2 32.1 31.5 31.8 31.5 31.2 32.1 31.2

          29.6 25.5 29.8 25.1
  15        1    2    3    4    5    6    7    8    9   10

          23.3 26.0 21.1 21.3 21.5 21.4 21.3 21.1 21.2 29.1

  16        1    2    3    4    5    6    7    8    9   10

          29.9 21.0 21.1 21.1 21.3 21.3 21.2 20.9 25.9 23.3

  17        1    2    3    4    5    6    7
          24.1 24.4 23.9 23.3 23.8 24.2 19.8
  18        1    2    3    4    5    6    7
          19.6 24.2 23.8 23.2 23.8 24.3 24.0
1
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RECEIVER    LEQ(H)   L10
54           48.4   49.8

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          20.9 23.0 23.4 23.7 24.4 25.8
   2        1    2    3    4    5    6
          28.6 29.6 29.9 33.8 34.4 34.9
   3        1
          30.4
   4        1    2    3
          26.3 26.4 23.1
   5        1    2    3    4    5    6
          19.2 10.4  9.8 13.9 15.7 12.4
   6        1    2    3
           9.4  8.8 12.7
   7        1    2    3    4
          12.7  8.6  9.3 10.9
   8        1    2    3    4    5    6
          15.8 14.1 10.0 10.7 20.5 22.0
   9        1    2    3
          26.7 26.8 30.0
  10        1
          34.1
  11        1    2    3    4    5    6
          34.4 33.7 29.8 29.4 28.5 27.9
  12        1    2    3    4    5
          24.2 23.7 23.4 23.0 20.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          24.9 29.3 23.8 30.2 31.0 31.4 31.2 31.2 31.7 31.6

          31.7 32.2 31.9 31.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          31.6 31.8 32.1 32.0 31.4 31.6 31.3 31.1 31.9 31.1

          29.4 25.4 29.6 24.9
  15        1    2    3    4    5    6    7    8    9   10

          23.1 25.8 20.8 21.1 21.2 21.1 21.0 20.6 20.3 28.0

  16        1    2    3    4    5    6    7    8    9   10

          27.8 20.2 20.6 20.7 21.0 21.0 21.0 20.7 25.7 23.1

  17        1    2    3    4    5    6    7
          23.9 24.2 23.6 23.0 23.6 23.9 19.6
  18        1    2    3    4    5    6    7
          19.3 23.9 23.6 22.9 23.5 24.1 23.7
1

RECEIVER    LEQ(H)   L10
55           47.0   48.4

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          19.4 21.5 21.9 22.1 22.8 24.1
   2        1    2    3    4    5    6
          27.0 28.0 28.2 32.3 32.8 32.8
   3        1
          29.2
   4        1    2    3
          25.5 25.9 17.2
   5        1    2    3    4    5    6
          12.9  9.5  9.2 13.5 15.2 12.2
   6        1    2    3
           9.3  8.7 12.8
   7        1    2    3    4
          12.7  8.6  9.3 10.7
   8        1    2    3    4    5    6
          15.2 13.6  9.3  9.6 13.1 17.6
   9        1    2    3
          26.1 26.0 29.4
  10        1
          32.6
  11        1    2    3    4    5    6
          32.7 32.2 28.1 27.8 26.9 26.2
  12        1    2    3    4    5
          22.7 22.1 21.9 21.4 19.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          24.0 28.3 22.8 29.2 29.8 30.2 29.9 29.8 30.2 30.1

          30.1 30.6 30.2 29.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.9 30.1 30.5 30.4 29.9 30.2 29.9 29.7 30.7 29.9

          28.4 24.4 28.7 24.1
  15        1    2    3    4    5    6    7    8    9   10

          22.1 24.9 20.0 20.3 20.4 20.4 20.5 20.2 19.9 26.9

  16        1    2    3    4    5    6    7    8    9   10

          26.7 19.8 20.2 20.2 20.3 20.3 20.2 19.8 24.8 22.0

  17        1    2    3    4    5    6    7
          22.3 22.6 22.1 21.6 22.2 22.7 18.4
  18        1    2    3    4    5    6    7
          18.2 22.7 22.2 21.5 22.0 22.5 22.1
1

RECEIVER    LEQ(H)   L10
56           42.2   43.5

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          13.9 16.0 16.4 16.6 17.3 18.7
   2        1    2    3    4    5    6
          21.5 22.5 22.8 27.1 28.5 29.5
   3        1
          26.4
   4        1    2    3
          24.5 21.3 16.2
   5        1    2    3    4    5    6
          12.6  9.2  8.9 13.2 15.3 13.0
   6        1    2    3
          10.5 10.1 14.2
   7        1    2    3    4
          14.2  9.9 10.4 11.4
   8        1    2    3    4    5    6
          15.3 13.4  9.1  9.3 12.7 15.2
   9        1    2    3
          21.4 25.1 26.4
  10        1
          29.2
  11        1    2    3    4    5    6
          28.4 27.0 22.7 22.3 21.4 20.7
  12        1    2    3    4    5
          17.2 16.6 16.4 16.0 14.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.6 22.9 17.4 23.7 24.4 24.7 24.5 24.3 24.8 24.7

          24.7 25.2 24.9 24.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          24.6 24.8 25.1 25.1 24.4 24.7 24.5 24.3 25.2 24.5

          22.9 19.0 23.3 18.7
  15        1    2    3    4    5    6    7    8    9   10

          16.6 19.4 14.7 15.1 15.3 15.3 15.4 15.2 15.1 20.5

  16        1    2    3    4    5    6    7    8    9   10

          20.5 14.9 15.2 15.2 15.2 15.1 15.0 14.6 19.4 16.5

  17        1    2    3    4    5    6    7
          16.7 17.1 16.7 16.1 16.8 17.2 13.0
  18        1    2    3    4    5    6    7
          12.8 17.2 16.8 16.0 16.5 17.0 16.6
1

RECEIVER    LEQ(H)   L10
57           43.7   45.3

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          15.1 17.2 17.6 17.9 18.6 20.0
   2        1    2    3    4    5    6
          22.9 24.0 24.4 29.1 30.7 32.6
   3        1
          27.8
   4        1    2    3
          25.0 22.2 17.0
   5        1    2    3    4    5    6
          13.2 10.0  9.6 13.9 16.3 14.8
   6        1    2    3
          12.7 12.4 16.7
   7        1    2    3    4
          16.7 12.2 12.6 13.3
   8        1    2    3    4    5    6
          16.3 14.1  9.9 10.1 13.4 16.0
   9        1    2    3
          22.5 25.6 27.7
  10        1
          31.4
  11        1    2    3    4    5    6
          30.6 29.0 24.3 23.7 22.8 22.1
  12        1    2    3    4    5
          18.4 17.8 17.6 17.1 15.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.1 24.4 18.9 25.2 25.7 26.0 25.7 25.5 25.9 25.8

          25.7 26.2 25.9 25.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          25.6 25.8 26.1 26.1 25.5 25.8 25.6 25.5 26.5 25.8

          24.3 20.4 24.8 20.2
  15        1    2    3    4    5    6    7    8    9   10

          18.1 21.3 16.5 16.9 17.0 17.2 17.4 17.3 17.3 22.8

  16        1    2    3    4    5    6    7    8    9   10

          22.8 17.1 17.3 17.2 17.1 16.9 16.9 16.3 21.2 18.1

  17        1    2    3    4    5    6    7
          18.1 18.4 18.0 17.5 18.2 18.7 14.5
  18        1    2    3    4    5    6    7
          14.2 18.7 18.2 17.4 17.9 18.4 17.9
1

RECEIVER    LEQ(H)   L10
58           47.3   48.7

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          19.4 21.5 22.0 22.3 23.0 24.5
   2        1    2    3    4    5    6
          27.5 28.7 29.1 33.1 33.8 34.3
   3        1
          27.8
   4        1    2    3
          24.8 22.4 17.3
   5        1    2    3    4    5    6
          13.7 10.2 10.0 14.5 17.6 16.6
   6        1    2    3
          14.5 14.3 18.8
   7        1    2    3    4
          18.8 14.1 14.4 15.1
   8        1    2    3    4    5    6
          17.6 14.7 10.1 10.5 13.8 16.3
   9        1    2    3
          22.7 25.5 28.7
  10        1
          32.9
  11        1    2    3    4    5    6
          33.6 32.9 29.0 28.6 27.5 26.6
  12        1    2    3    4    5
          23.0 22.4 22.1 21.6 19.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          24.7 29.0 23.6 30.0 30.6 30.9 30.7 30.4 30.6 30.0

          29.4 29.3 28.4 27.5
```

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  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.6 28.3 29.2 29.8 29.7 30.5 30.6 30.5 31.4 30.7

          29.1 25.1 29.4 24.8
  15        1    2    3    4    5    6    7    8    9   10

          22.8 25.3 20.4 20.6 20.7 20.7 20.7 20.6 20.5 26.1

  16        1    2    3    4    5    6    7    8    9   10

          26.0 20.3 20.5 20.6 20.6 20.6 20.6 20.3 25.2 22.7

  17        1    2    3    4    5    6    7
          22.7 23.3 23.0 22.4 23.0 23.4 19.1
  18        1    2    3    4    5    6    7
          18.9 23.5 23.0 22.3 22.8 23.2 22.5
1

 RECEIVER    LEQ(H)   L10
 59           48.2   49.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          20.0 22.1 22.5 22.7 23.4 24.7
   2        1    2    3    4    5    6
          27.6 28.6 28.9 33.2 36.3 34.8
   3        1
          28.2
   4        1    2    3
          24.9 22.8 17.8
   5        1    2    3    4    5    6
          14.0 10.8 10.6 15.1 19.1 18.3
   6        1    2    3
          16.4 16.3 20.8
   7        1    2    3    4
          20.8 16.1 16.1 16.8
   8        1    2    3    4    5    6
          19.1 15.3 10.8 11.0 14.3 16.8
   9        1    2    3
          23.1 25.6 28.8
  10        1
          34.3
  11        1    2    3    4    5    6
          36.6 33.2 28.8 28.5 27.5 26.9
  12        1    2    3    4    5
          23.3 22.8 22.5 22.1 20.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          26.9 30.5 24.7 30.5 30.8 30.9 30.7 30.6 30.9 30.6

          30.2 29.8 28.7 27.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.8 28.7 29.7 30.6 30.4 30.9 30.8 30.5 31.4 30.9

          29.7 26.2 30.9 27.1
  15        1    2    3    4    5    6    7    8    9   10

          23.5 29.7 24.8 24.9 25.0 24.9 24.8 24.4 24.0 29.1

  16        1    2    3    4    5    6    7    8    9   10

          29.2 23.9 24.3 24.5 24.8 24.9 24.8 24.6 29.7 23.5

  17        1    2    3    4    5    6    7
          22.9 23.3 22.9 22.3 22.9 23.5 19.6
  18        1    2    3    4    5    6    7
          19.3 23.5 22.9 22.2 22.8 23.3 22.7
1

 RECEIVER    LEQ(H)   L10
 60           47.0   48.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          17.3 19.6 20.2 20.5 21.3 22.9
   2        1    2    3    4    5    6
          26.1 27.4 28.0 32.5 34.8 34.2
   3        1
          27.9
   4        1    2    3
          24.5 22.6 17.6
   5        1    2    3    4    5    6
          13.9 10.8 10.6 15.3 20.0 19.1
   6        1    2    3
          17.3 17.3 21.4
   7        1    2    3    4
          21.4 17.1 17.0 17.6
   8        1    2    3    4    5    6
          19.9 15.5 10.8 11.0 14.1 16.7
   9        1    2    3
          22.9 25.2 28.5
  10        1
          33.8
  11        1    2    3    4    5    6
          34.6 32.4 28.0 27.3 26.2 25.1
  12        1    2    3    4    5
          21.4 20.7 20.3 19.7 17.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          24.8 28.8 23.3 29.5 30.2 30.5 29.8 29.0 28.6 27.9

          27.3 27.7 27.3 26.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          26.9 27.2 27.5 27.6 27.4 28.6 29.1 29.6 30.9 30.3

          28.7 24.8 29.2 24.9
  15        1    2    3    4    5    6    7    8    9   10

          22.4 26.1 21.7 24.4 24.7 24.7 24.6 24.2 23.8 29.0

  16        1    2    3    4    5    6    7    8    9   10

          29.0 23.7 24.2 24.4 24.6 24.7 24.4 21.7 26.1 22.4

  17        1    2    3    4    5    6    7
          21.2 22.1 22.2 21.8 22.6 23.0 18.7
  18        1    2    3    4    5    6    7
          18.5 23.0 22.6 21.7 22.0 22.0 21.0
1

 RECEIVER    LEQ(H)   L10
 61           46.0   47.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          17.8 19.6 19.7 19.5 19.6 20.2
   2        1    2    3    4    5    6
          22.4 24.2 25.3 31.2 33.0 33.5
   3        1
          27.5
   4        1    2    3
          23.9 22.2 17.3
   5        1    2    3    4    5    6
          13.7 10.7 10.4 15.7 20.4 19.7
   6        1    2    3
          17.7 17.3 21.3
   7        1    2    3    4
          21.4 17.2 17.6 18.1
   8        1    2    3    4    5    6
          20.4 15.8 10.7 10.9 13.8 16.4
   9        1    2    3
          22.5 24.6 28.1
  10        1
          33.0
  11        1    2    3    4    5    6
          32.9 31.3 25.5 24.2 22.5 22.3
  12        1    2    3    4    5
          19.5 19.5 19.6 19.5 17.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.9 28.0 22.4 28.3 28.3 28.3 28.3 28.3 28.9 28.9

          29.0 29.4 29.1 28.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.6 29.0 29.3 29.3 28.6 28.8 28.4 28.0 28.8 28.5

          27.6 24.0 28.4 24.0
  15        1    2    3    4    5    6    7    8    9   10

          21.6 24.6 19.9 20.7 21.1 22.1 21.7 21.5 21.4 27.3

  16        1    2    3    4    5    6    7    8    9   10

          27.1 21.3 21.5 21.5 22.2 21.0 20.7 19.8 24.5 21.6

  17        1    2    3    4    5    6    7
          18.5 18.8 19.1 19.2 20.4 21.4 17.7
  18        1    2    3    4    5    6    7
          17.4 21.3 20.3 19.0 18.9 18.8 18.4
1

 RECEIVER    LEQ(H)   L10
 62           46.1   47.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          18.9 20.7 20.9 20.7 20.9 21.7
   2        1    2    3    4    5    6
          23.8 24.0 23.3 27.2 31.4 33.3
   3        1
          27.3
   4        1    2    3
          23.7 21.9 17.0
   5        1    2    3    4    5    6
          13.4 10.4 10.2 15.6 20.3 19.5
   6        1    2    3
          17.4 17.0 21.2
   7        1    2    3    4
          21.1 16.9 17.4 18.0
   8        1    2    3    4    5    6
          20.3 15.6 10.5 10.6 13.6 16.1
   9        1    2    3
          22.2 24.4 27.8
  10        1
          33.0
  11        1    2    3    4    5    6
          31.5 27.3 23.1 23.8 23.7 23.7
  12        1    2    3    4    5
          20.8 20.7 20.8 20.7 18.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.8 27.2 21.7 28.1 28.8 29.4 29.3 29.3 29.9 29.9

          30.0 30.5 30.3 30.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          30.0 30.1 30.4 30.3 29.6 29.8 29.4 29.0 29.8 28.9

          27.3 23.2 27.5 22.9
  15        1    2    3    4    5    6    7    8    9   10

          20.3 22.1 18.3 19.3 19.3 19.5 19.7 20.8 22.9 28.8

  16        1    2    3    4    5    6    7    8    9   10

          28.8 23.5 20.7 19.5 19.4 19.2 19.2 18.2 22.1 20.3

  17        1    2    3    4    5    6    7
          19.9 20.1 19.7 19.2 20.0 20.6 16.5
  18        1    2    3    4    5    6    7
          16.3 20.7 20.1 19.2 19.6 20.1 19.8
1

 RECEIVER    LEQ(H)   L10
 63           46.4   47.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          19.6 21.2 21.3 21.0 20.8 21.2
   2        1    2    3    4    5    6
          22.8 23.4 24.9 30.6 31.7 30.8
   3        1
          24.8
   4        1    2    3
          21.0 21.3 17.8
   5        1    2    3    4    5    6
          17.1 15.2 15.8 21.5 24.7 27.6
   6        1    2    3
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          21.2 19.7 23.7
   7        1    2    3    4
          23.8 19.8 22.3 26.2
   8        1    2    3    4    5    6
          24.6 21.5 15.7 15.1 17.0 16.5
   9        1    2    3
          21.5 21.3 24.8
  10        1
          31.1
  11        1    2    3    4    5    6
          31.6 30.6 25.2 23.5 22.7 23.4
  12        1    2    3    4    5
          20.7 20.9 21.2 21.2 19.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          24.9 28.4 22.6 28.8 29.3 29.8 29.7 29.8 30.3 30.5

          30.7 27.6 26.9 26.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          26.3 26.9 27.8 31.1 30.2 30.3 29.9 29.5 30.3 29.4

          27.9 24.1 28.8 25.1
  15        1    2    3    4    5    6    7    8    9   10

          21.5 25.8 22.5 24.0 24.0 24.0 23.8 23.4 23.0 28.3

  16        1    2    3    4    5    6    7    8    9   10

          28.3 22.9 23.4 23.6 23.8 23.9 23.9 22.4 25.9 21.5

  17        1    2    3    4    5    6    7
          19.3 19.5 19.2 19.5 21.0 22.0 17.9
  18        1    2    3    4    5    6    7
          17.7 22.0 20.9 19.4 19.1 19.6 19.3
1

 RECEIVER    LEQ(H)   L10
 64           45.7   47.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          17.1 19.1 19.5 19.7 20.3 21.5
   2        1    2    3    4    5    6
          24.3 25.2 24.0 29.7 31.7 31.3
   3        1
          25.2
   4        1    2    3
          21.2 21.4 18.2
   5        1    2    3    4    5    6
          17.8 16.0 16.6 22.2 26.0 27.7
   6        1    2    3
          21.1 19.7 23.8
   7        1    2    3    4
          24.1 19.7 21.5 26.7
   8        1    2    3    4    5    6
          25.5 22.2 16.6 15.9 17.7 16.9
   9        1    2    3
          21.7 21.6 25.2
  10        1
          31.2
  11        1    2    3    4    5    6
          31.7 29.8 24.1 25.1 24.3 23.7
  12        1    2    3    4    5
          20.2 19.7 19.5 19.2 17.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.2 27.5 22.0 28.2 28.6 28.8 28.4 27.9 28.0 27.7

          27.5 27.7 27.1 26.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          26.6 27.0 27.6 27.8 27.5 28.0 28.0 28.1 29.2 28.8

          27.4 23.5 27.9 23.3
  15        1    2    3    4    5    6    7    8    9   10

          20.9 23.6 19.1 23.8 23.9 23.8 23.7 23.4 23.0 28.1

  16        1    2    3    4    5    6    7    8    9   10

          28.1 22.9 23.3 23.5 23.7 23.8 23.8 19.1 23.6 20.9

  17        1    2    3    4    5    6    7
          19.7 20.3 20.1 19.8 20.7 21.3 17.3
  18        1    2    3    4    5    6    7
          17.0 21.3 20.6 19.7 20.0 20.2 19.6
1

 RECEIVER    LEQ(H)   L10
 65           45.4   46.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          14.8 17.2 17.9 18.4 19.3 21.2
   2        1    2    3    4    5    6
          24.6 26.3 26.8 30.9 32.2 32.3
   3        1
          26.5
   4        1    2    3
          22.6 22.5 19.3
   5        1    2    3    4    5    6
          19.5 17.8 18.4 23.5 27.5 27.9
   6        1    2    3
          22.4 20.6 25.9
   7        1    2    3    4
          26.9 20.9 23.7 26.6
   8        1    2    3    4    5    6
          27.6 23.6 18.3 17.7 19.4 18.1
   9        1    2    3
          22.9 23.1 26.6
  10        1
          32.0
  11        1    2    3    4    5    6
          32.1 30.8 26.8 26.2 24.7 23.4
  12        1    2    3    4    5
          19.3 18.6 18.0 17.3 14.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.3 27.5 22.0 28.2 28.4 28.2 27.2 26.3 26.0 25.1

          24.4 24.1 22.8 22.2

  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.2 22.9 24.0 24.7 24.9 26.0 26.4 27.2 28.7 28.6

          27.4 23.6 27.9 23.4
  15        1    2    3    4    5    6    7    8    9   10

          21.2 23.8 18.9 19.5 19.6 20.2 20.9 21.4 22.5 28.1

  16        1    2    3    4    5    6    7    8    9   10

          28.1 22.3 21.5 20.7 20.1 19.5 19.4 18.8 23.7 21.2

  17        1    2    3    4    5    6    7
          19.4 20.3 20.3 20.1 20.9 21.6 17.5
  18        1    2    3    4    5    6    7
          17.3 21.6 20.9 19.9 20.1 20.1 19.2
1

 RECEIVER    LEQ(H)   L10
 66           45.4   46.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          16.4 18.5 19.0 19.2 19.8 21.1
   2        1    2    3    4    5    6
          24.0 25.1 25.4 29.6 30.8 32.2
   3        1
          27.8
   4        1    2    3
          24.2 23.8 20.2
   5        1    2    3    4    5    6
          20.5 18.7 18.9 23.7 27.8 28.0
   6        1    2    3
          24.6 22.7 27.4
   7        1    2    3    4
          27.6 23.0 24.7 26.5
   8        1    2    3    4    5    6
          27.6 23.8 18.9 18.6 20.3 19.0
   9        1    2    3
          24.2 24.9 27.9
  10        1
          31.0
  11        1    2    3    4    5    6
          30.8 29.6 25.4 25.0 24.0 23.3
  12        1    2    3    4    5
          19.7 19.2 19.0 18.6 16.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.8 27.0 21.5 27.7 28.1 28.3 27.7 27.3 27.4 27.1

          26.7 26.8 26.2 25.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          25.6 26.1 26.7 27.0 26.8 27.4 27.4 27.5 28.7 28.2

          26.9 23.0 27.4 22.9
  15        1    2    3    4    5    6    7    8    9   10

          20.5 23.4 18.2 18.6 18.7 18.6 18.5 18.2 17.9 23.3

  16        1    2    3    4    5    6    7    8    9   10

          23.2 17.8 18.1 18.3 18.5 18.5 18.5 18.2 23.3 20.5

  17        1    2    3    4    5    6    7
          19.3 19.8 19.7 19.3 20.2 20.8 16.7
  18        1    2    3    4    5    6    7
          16.5 20.8 20.2 19.2 19.5 19.8 19.1
1

 RECEIVER    LEQ(H)   L10
 67           47.1   48.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          19.6 21.6 22.0 22.1 22.7 24.0
   2        1    2    3    4    5    6
          26.7 27.5 27.5 31.2 31.6 32.3
   3        1
          29.4
   4        1    2    3
          25.6 24.8 20.7
   5        1    2    3    4    5    6
          20.8 19.0 18.9 24.0 27.9 27.8
   6        1    2    3
          24.7 23.9 27.5
   7        1    2    3    4
          27.4 23.6 24.6 26.3
   8        1    2    3    4    5    6
          27.7 24.0 19.0 18.9 20.5 19.7
   9        1    2    3
          25.3 26.3 29.1
  10        1
          31.7
  11        1    2    3    4    5    6
          31.5 31.0 27.4 27.3 26.6 26.1
  12        1    2    3    4    5
          22.6 22.1 21.9 21.6 19.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.9 28.1 22.7 29.0 29.6 30.0 29.9 29.9 30.4 30.3

          30.1 30.3 29.7 29.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          29.1 29.6 30.3 30.5 30.0 30.4 30.0 29.7 30.5 29.7

          28.1 24.2 28.5 24.0
  15        1    2    3    4    5    6    7    8    9   10

          21.7 24.4 19.4 19.8 19.8 20.0 20.2 20.2 20.4 26.6

  16        1    2    3    4    5    6    7    8    9   10

          26.5 20.2 20.2 20.0 19.9 19.7 19.7 19.3 24.4 21.7

  17        1    2    3    4    5    6    7
          22.0 22.3 21.8 21.2 21.8 22.2 18.0
  18        1    2    3    4    5    6    7
          17.8 22.2 21.8 21.1 21.7 22.3 21.9
1
```

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RECEIVER    LEQ(H)   L10
68           47.6   48.9

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         19.9 21.9 22.3 22.4 23.0 24.2
  2        1    2    3    4    5    6
         26.9 27.6 27.6 31.5 32.2 32.4
  3        1
         29.3
  4        1    2    3
         26.5 25.5 21.2
  5        1    2    3    4    5    6
         20.5 18.8 18.9 24.1 28.2 27.6
  6        1    2    3
         24.5 23.8 27.4
  7        1    2    3    4
         27.3 23.5 24.3 26.1
  8        1    2    3    4    5    6
         28.3 24.1 18.9 18.8 20.2 20.2
  9        1    2    3
         26.1 27.3 29.7
  10       1
         33.1
  11       1    2    3    4    5    6
         32.2 31.4 27.5 27.4 26.7 26.3
  12       1    2    3    4    5
         22.8 22.3 22.2 21.9 19.9
  13       1    2    3    4    5    6    7    8    9   10

  11      12   13   14
         24.9 29.0 23.5 29.6 30.1 30.3 30.1 30.0 30.6 30.6

         30.6 30.8 30.1 29.4
  14       1    2    3    4    5    6    7    8    9   10

  11      12   13   14
         29.5 30.1 30.7 30.9 30.4 30.6 30.2 29.9 30.8 30.2

         28.8 25.0 29.4 25.0
  15       1    2    3    4    5    6    7    8    9   10

         22.4 25.6 20.7 21.3 21.3 21.8 22.3 23.1 22.7 27.9

  16       1    2    3    4    5    6    7    8    9   10

         27.9 22.6 22.8 22.1 21.7 21.2 21.2 20.6 25.5 22.4

  17       1    2    3    4    5    6    7
         22.2 22.4 21.9 21.4 22.1 22.7 18.6
  18       1    2    3    4    5    6    7
         18.4 22.7 22.1 21.3 21.8 22.4 22.1
1

RECEIVER    LEQ(H)   L10
69           48.1   49.4

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         20.1 22.1 22.3 22.5 23.1 24.3
  2        1    2    3    4    5    6
         27.0 27.8 27.9 32.1 33.3 32.8
  3        1
         29.4
  4        1    2    3
         27.4 26.3 21.5
  5        1    2    3    4    5    6
         20.2 18.7 18.8 24.3 28.5 27.4
  6        1    2    3
         24.4 23.6 27.3
  7        1    2    3    4
         27.1 23.2 24.2 25.8
  8        1    2    3    4    5    6
         28.8 24.2 18.8 18.5 19.9 20.8
  9        1    2    3
         26.9 28.0 30.2
  10       1
         33.4
  11       1    2    3    4    5    6
         33.3 32.0 27.9 27.6 26.9 26.4
  12       1    2    3    4    5
         22.9 22.5 22.3 22.0 20.0
  13       1    2    3    4    5    6    7    8    9   10

  11      12   13   14
         26.3 30.2 24.6 30.5 30.8 30.9 30.4 30.2 30.7 30.9

         31.0 31.4 30.9 30.4
  14       1    2    3    4    5    6    7    8    9   10

  11      12   13   14
         30.4 30.9 31.3 31.3 30.6 30.7 30.4 30.2 31.3 30.9

         29.7 26.1 30.5 26.5
  15       1    2    3    4    5    6    7    8    9   10

         23.4 27.1 22.5 23.7 23.8 23.6 23.5 23.1 22.7 28.0

  16       1    2    3    4    5    6    7    8    9   10

         28.0 22.6 23.0 23.3 23.5 23.6 23.6 22.4 27.1 23.4

  17       1    2    3    4    5    6    7
         22.3 22.6 22.3 21.8 22.7 23.4 19.5
  18       1    2    3    4    5    6    7
         19.2 23.4 22.7 21.8 22.2 22.6 22.2
1

RECEIVER    LEQ(H)   L10
70           48.0   49.3

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         20.2 22.2 22.5 22.6 23.2 24.4
  2        1    2    3    4    5    6
         27.1 27.8 27.8 31.7 32.3 32.6
  3        1
         29.4
  4        1    2    3
         27.9 26.7 21.7
  5        1    2    3    4    5    6
         19.6 18.3 18.6 23.9 28.0 27.4
  6        1    2    3
         24.1 22.2 26.5
  7        1    2    3    4
         25.9 22.3 24.0 25.8
  8        1    2    3    4    5    6
         28.1 23.9 18.5 18.3 19.5 21.0
  9        1    2    3
         27.3 28.4 30.4
  10       1
         33.1
  11       1    2    3    4    5    6
         32.3 31.6 27.8 27.7 27.0 26.5
  12       1    2    3    4    5
         23.1 22.6 22.5 22.1 20.2
  13       1    2    3    4    5    6    7    8    9   10

  11      12   13   14
         25.9 29.9 24.3 30.4 30.8 31.0 30.6 30.4 30.9 31.0

         31.2 31.8 31.4 31.0
  14       1    2    3    4    5    6    7    8    9   10

  11      12   13   14
         31.1 31.4 31.7 31.5 30.7 30.9 30.6 30.4 31.4 30.9

         29.6 25.8 30.2 26.0
  15       1    2    3    4    5    6    7    8    9   10

         23.1 26.2 21.3 21.9 21.9 22.3 22.9 23.0 22.7 28.0

  16       1    2    3    4    5    6    7    8    9   10

         28.0 22.6 23.0 22.8 22.2 21.8 21.8 21.2 26.2 23.1

  17       1    2    3    4    5    6    7
         22.4 22.7 22.3 21.9 22.6 23.3 19.3
  18       1    2    3    4    5    6    7
         19.0 23.3 22.6 21.8 22.2 22.7 22.3
1

RECEIVER    LEQ(H)   L10
71           46.1   47.4

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         17.8 19.8 20.2 20.3 20.9 22.1
  2        1    2    3    4    5    6
         24.8 25.7 25.8 29.7 30.8 31.6
  3        1
         32.0
  4        1    2    3
         30.5 30.6 25.4
  5        1    2    3    4    5    6
         21.7 18.3 18.0 22.2 23.8 20.1
  6        1    2    3
         16.8 15.8 19.4
  7        1    2    3    4
         19.5 15.7 16.7 18.6
  8        1    2    3    4    5    6
         23.8 22.3 18.0 18.3 21.7 24.3
  9        1    2    3
         30.5 30.4 31.0
  10       1
         31.3
  11       1    2    3    4    5    6
         30.7 29.6 25.8 25.5 24.7 24.2
  12       1    2    3    4    5
         20.7 20.3 20.1 19.8 17.8
  13       1    2    3    4    5    6    7    8    9   10

  11      12   13   14
         21.7 26.1 20.6 27.1 27.8 28.3 28.1 28.1 28.7 28.7

         28.8 29.4 29.1 28.9
  14       1    2    3    4    5    6    7    8    9   10

  11      12   13   14
         28.9 29.0 29.3 29.1 28.5 28.6 28.3 28.0 28.8 27.9

         26.2 22.2 26.5 21.8
  15       1    2    3    4    5    6    7    8    9   10

         19.7 22.3 17.4 17.6 17.8 17.8 17.6 17.3 17.0 22.2

  16       1    2    3    4    5    6    7    8    9   10

         22.2 16.9 17.3 17.5 17.6 17.6 17.5 17.2 22.2 19.7

  17       1    2    3    4    5    6    7
         20.3 20.6 20.1 19.5 20.1 20.5 16.2
  18       1    2    3    4    5    6    7
         16.0 20.5 20.1 19.4 19.9 20.5 20.2
1

RECEIVER    LEQ(H)   L10
72           45.4   46.7

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         17.2 19.2 19.5 19.6 20.2 21.4
  2        1    2    3    4    5    6
         24.0 24.8 24.9 28.8 29.8 30.7
  3        1
         31.0
  4        1    2    3
         29.9 30.1 25.2
  5        1    2    3    4    5    6
         21.6 18.3 18.0 22.3 24.3 21.2
  6        1    2    3
         18.0 17.1 20.7
  7        1    2    3    4
         20.7 16.9 17.9 19.7
  8        1    2    3    4    5    6
         24.2 22.3 18.0 18.3 21.5 24.0
  9        1    2    3
         29.9 29.8 30.2
  10       1
         30.4
  11       1    2    3    4    5    6
         29.7 28.7 24.9 24.6 23.9 23.4
  12       1    2    3    4    5
         20.0 19.6 19.4 19.2 17.2
  13       1    2    3    4    5    6    7    8    9   10

  11      12   13   14
         20.9 25.3 19.8 26.3 27.0 27.6 27.5 27.5 28.1 28.2

         28.3 29.0 28.7 28.5
```

```
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           28.5 28.6 28.9 28.6 27.9 28.1 27.6 27.3 28.0 27.1

           25.4 21.4 25.6 20.9
  15        1    2    3    4    5    6    7    8    9   10

           18.9 21.3 16.5 16.7 16.8 16.8 16.7 16.4 16.0 21.3

  16        1    2    3    4    5    6    7    8    9   10

           21.3 15.9 16.3 16.5 16.7 16.7 16.6 16.3 21.3 18.9

  17        1    2    3    4    5    6    7
           19.5 19.8 19.3 18.7 19.3 19.7 15.4
  18        1    2    3    4    5    6    7
           15.1 19.7 19.3 18.6 19.2 19.7 19.4
1

 RECEIVER    LEQ(H)   L10
 73           46.0   47.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           17.9 19.9 20.2 20.3 20.8 22.0
   2        1    2    3    4    5    6
           24.6 25.3 25.4 29.2 30.2 31.1
   3        1
           31.6
   4        1    2    3
           30.5 30.7 25.8
   5        1    2    3    4    5    6
           22.2 18.9 18.6 22.9 25.0 22.0
   6        1    2    3
           18.8 17.9 21.5
   7        1    2    3    4
           21.4 17.7 18.7 20.5
   8        1    2    3    4    5    6
           24.9 23.0 18.6 18.8 22.0 24.6
   9        1    2    3
           30.5 30.4 30.7
  10        1
           30.8
  11        1    2    3    4    5    6
           30.2 29.1 25.4 25.2 24.5 24.0
  12        1    2    3    4    5
           20.6 20.2 20.1 19.8 17.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           21.4 25.8 20.3 26.8 27.6 28.2 28.1 28.2 28.8 28.9

           29.1 29.7 29.4 29.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           29.0 29.3 29.6 29.4 28.6 28.8 28.3 27.9 28.6 27.7

           25.9 21.9 26.2 21.4
  15        1    2    3    4    5    6    7    8    9   10

           19.4 21.8 16.9 17.1 17.2 17.2 17.1 16.8 16.4 21.6

  16        1    2    3    4    5    6    7    8    9   10

           21.6 16.3 16.7 16.9 17.1 17.1 17.0 16.7 21.8 19.4

  17        1    2    3    4    5    6    7
           20.1 20.4 19.8 19.2 19.8 20.2 15.9
  18        1    2    3    4    5    6    7
           15.7 20.3 19.9 19.2 19.7 20.3 20.0
1

 RECEIVER    LEQ(H)   L10
 74           46.7   48.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           17.9 19.9 20.2 20.3 20.8 22.0
   2        1    2    3    4    5    6
           24.7 25.6 25.7 29.7 31.0 32.1
   3        1
           33.2
   4        1    2    3
           32.1 32.5 27.6
   5        1    2    3    4    5    6
           24.0 20.7 20.4 24.7 26.6 23.6
   6        1    2    3
           20.2 19.3 22.8
   7        1    2    3    4
           22.8 19.1 20.1 22.0
   8        1    2    3    4    5    6
           26.6 24.7 20.4 20.6 23.9 26.4
   9        1    2    3
           32.3 31.9 32.0
  10        1
           31.8
  11        1    2    3    4    5    6
           30.9 29.7 25.7 25.4 24.6 24.1
  12        1    2    3    4    5
           20.7 20.3 20.2 19.8 17.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           22.3 26.6 21.1 27.6 28.2 28.7 28.5 28.4 28.8 28.8

           28.8 29.2 29.0 28.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           28.6 29.0 29.1 29.1 28.5 28.8 28.5 28.2 29.1 28.3

           26.7 22.7 27.0 22.4
  15        1    2    3    4    5    6    7    8    9   10

           20.2 22.7 17.9 18.2 18.3 18.4 18.4 18.1 17.8 23.1

  16        1    2    3    4    5    6    7    8    9   10

           23.0 17.7 18.0 18.2 18.3 18.2 18.1 17.8 22.7 20.2

  17        1    2    3    4    5    6    7
           20.3 20.6 20.2 19.7 20.4 20.9 16.6
  18        1    2    3    4    5    6    7
           16.4 20.9 20.4 19.6 20.1 20.6 20.1
1

 RECEIVER    LEQ(H)   L10
 75           46.9   48.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           17.9 19.9 20.2 20.2 20.6 21.7
   2        1    2    3    4    5    6
           24.3 25.1 25.3 29.3 30.9 32.2
   3        1
           33.6
   4        1    2    3
           32.6 33.1 28.3
   5        1    2    3    4    5    6
           24.5 21.2 20.9 25.2 27.1 24.1
   6        1    2    3
           20.7 19.8 23.2
   7        1    2    3    4
           23.2 19.6 20.6 22.5
   8        1    2    3    4    5    6
           27.1 25.3 20.9 21.2 24.5 27.0
   9        1    2    3
           33.0 32.5 32.3
  10        1
           32.0
  11        1    2    3    4    5    6
           31.0 29.4 25.4 25.1 24.3 23.9
  12        1    2    3    4    5
           20.6 20.2 20.2 19.9 18.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           23.2 27.6 22.1 28.4 28.9 29.3 28.9 28.7 29.0 28.8

           28.6 28.6 28.0 27.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           27.3 27.9 28.6 28.9 28.5 29.0 28.8 28.7 29.7 29.1

           27.5 23.6 27.9 23.3
  15        1    2    3    4    5    6    7    8    9   10

           21.0 23.6 18.7 19.0 19.2 19.1 19.2 18.9 18.6 23.9

  16        1    2    3    4    5    6    7    8    9   10

           23.9 18.5 18.9 19.0 19.1 19.0 18.9 18.6 23.5 20.9

  17        1    2    3    4    5    6    7
           20.1 20.6 20.3 20.0 20.8 21.4 17.3
  18        1    2    3    4    5    6    7
           17.1 21.4 20.8 19.9 20.2 20.5 19.9
1

 RECEIVER    LEQ(H)   L10
 76           47.0   48.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           21.5 23.3 23.5 23.2 23.2 24.0
   2        1    2    3    4    5    6
           26.3 27.0 19.9 23.0 23.3 23.6
   3        1
           23.7
   4        1    2    3
           23.5 28.9 27.3
   5        1    2    3    4    5    6
           23.9 20.7 20.5 24.9 27.0 23.9
   6        1    2    3
           20.7 19.7 23.2
   7        1    2    3    4
           23.2 19.5 20.5 22.4
   8        1    2    3    4    5    6
           26.9 24.9 20.5 20.6 23.8 26.1
   9        1    2    3
           28.7 23.6 23.4
  10        1
           23.5
  11        1    2    3    4    5    6
           23.4 23.1 20.0 26.1 26.3 25.9
  12        1    2    3    4    5
           23.4 23.5 23.9 23.7 22.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           22.3 26.4 20.9 27.2 27.8 28.2 33.3 34.5 34.9 34.8

           30.4 30.4 29.9 29.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           29.1 29.8 30.3 30.8 32.5 34.9 34.6 33.1 28.6 27.8

           26.3 22.4 26.8 22.3
  15        1    2    3    4    5    6    7    8    9   10

           19.1 21.1 16.0 16.2 16.4 16.4 16.4 16.3 16.2 22.1

  16        1    2    3    4    5    6    7    8    9   10

           21.8 16.1 16.3 16.2 16.3 16.3 16.2 15.9 21.1 19.0

  17        1    2    3    4    5    6    7
           22.0 21.5 17.0 16.8 17.9 18.8 15.1
  18        1    2    3    4    5    6    7
           14.9 18.9 18.0 16.7 16.9 21.7 21.9
1

 RECEIVER    LEQ(H)   L10
 77           44.8   46.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           17.4 19.3 19.6 19.6 20.1 21.0
   2        1    2    3    4    5    6
           23.3 23.8 23.7 22.7 21.7 22.0
   3        1
           22.0
   4        1    2    3
           22.1 32.3 27.9
   5        1    2    3    4    5    6
           24.4 21.2 20.9 25.3 27.5 24.6
   6        1    2    3
```

```
          21.4 20.5 24.0
   7        1    2    3    4
          24.0 20.3 21.3 23.0
   8        1    2    3    4    5    6
          27.4 25.3 20.9 21.1 24.3 26.6
   9        1    2    3
          32.1 22.1 21.7
  10        1
          21.9
  11        1    2    3    4    5    6
          21.8 22.1 23.7 23.7 23.2 23.1
  12        1    2    3    4    5
          19.9 19.6 19.5 19.3 17.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.5 25.7 20.1 26.5 27.2 27.9 27.6 27.7 28.3 28.3

          28.3 29.5 28.7 27.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.7 28.6 29.4 28.6 28.0 28.2 27.8 27.4 28.4 27.2

          25.6 21.6 26.0 21.6
  15        1    2    3    4    5    6    7    8    9   10

          18.3 19.9 14.8 15.0 15.1 15.1 15.2 15.1 15.0 21.0

  16        1    2    3    4    5    6    7    8    9   10

          20.9 14.9 15.1 15.0 15.1 15.1 14.9 14.7 19.9 18.3

  17        1    2    3    4    5    6    7
          19.0 19.2 18.9 18.4 17.8 17.8 14.1
  18        1    2    3    4    5    6    7
          13.9 17.9 18.1 18.3 18.7 19.1 19.0
1

 RECEIVER     LEQ(H)   L10
 78            35.6   37.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          4.2  6.6  7.3  7.4  7.7  8.1
   2        1    2    3    4    5    6
          10.7 11.7 11.9 16.1 17.4 18.4
   3        1
          19.0
   4        1    2    3
          18.9 19.8 15.6
   5        1    2    3    4    5    6
          12.8 10.0 10.1 15.2 19.1 18.5
   6        1    2    3
          16.9 17.1 21.6
   7        1    2    3    4
          21.2 16.6 16.5 16.7
   8        1    2    3    4    5    6
          18.9 15.0  9.9  9.8 12.6 14.3
   9        1    2    3
          19.6 18.8 18.4
  10        1
          18.1
  11        1    2    3    4    5    6
          17.3 15.9 11.8 11.5 10.7 10.1
  12        1    2    3    4    5
           7.2  7.3  7.3  7.0  4.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           8.2 12.5  7.0 13.4 14.0 14.3 14.1 14.0 15.9 15.3

          18.5 23.5 22.3 21.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.3 22.2 23.4 18.0 15.1 15.8 14.1 13.9 14.8 14.1

          12.6  8.6 12.9  8.3
  15        1    2    3    4    5    6    7    8    9   10

           6.1  8.7  3.8  4.1  4.3  4.2  4.3  4.1  3.8  9.0

  16        1    2    3    4    5    6    7    8    9   10

           9.0  3.6  4.0  4.1  4.1  4.2  4.1  3.7  8.6  6.0

  17        1    2    3    4    5    6    7
           6.1  6.5  6.1  5.6  6.3  6.7  2.5
  18        1    2    3    4    5    6    7
           2.3  6.7  6.3  5.5  6.0  6.4  6.0
1

 RECEIVER     LEQ(H)   L10
 79            42.6   44.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          4.8  6.7  7.0  7.0  7.5  8.6
   2        1    2    3    4    5    6
          11.2 12.0 12.1 16.0 17.3 18.5
   3        1
          25.8
   4        1    2    3
          31.9 31.5 25.4
   5        1    2    3    4    5    6
          23.2 20.9 21.3 26.6 30.5 29.8
   6        1    2    3
          26.2 26.3 30.6
   7        1    2    3    4
          30.6 26.5 26.4 28.7
   8        1    2    3    4    5    6
          30.1 26.7 21.4 21.0 23.3 24.3
   9        1    2    3
          31.5 30.9 24.9
  10        1
          18.1
  11        1    2    3    4    5    6
          17.2 16.0 12.1 11.9 11.2 10.8
  12        1    2    3    4    5
           7.4  7.0  6.9  6.7  4.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          10.4 14.5  8.9 15.2 15.7 16.0 15.6 15.4 15.8 15.7

          15.6 16.0 15.6 15.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.2 15.5 15.9 15.9 15.4 15.7 15.6 15.4 16.4 15.8

          14.4 10.4 14.9 10.5
  15        1    2    3    4    5    6    7    8    9   10

           7.7 10.5  5.6  5.9  6.0  6.2  6.4  6.3  6.2 11.8

  16        1    2    3    4    5    6    7    8    9   10

          11.8  6.0  6.2  6.2  6.1  5.9  5.8  5.5 10.4  7.7

  17        1    2    3    4    5    6    7
           6.8  7.3  7.0  6.6  7.4  8.1  4.0
  18        1    2    3    4    5    6    7
           3.8  8.0  7.4  6.5  6.9  7.2  6.7
1

 RECEIVER     LEQ(H)   L10
 80            42.5   44.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          3.8  5.7  6.1  6.1  6.6  7.9
   2        1    2    3    4    5    6
          10.6 11.6 11.9 16.1 17.5 18.7
   3        1
          28.4
   4        1    2    3
          29.6 30.8 25.7
   5        1    2    3    4    5    6
          23.3 20.9 21.2 26.5 29.9 30.8
   6        1    2    3
          25.8 26.4 30.9
   7        1    2    3    4
          30.9 26.5 26.0 29.2
   8        1    2    3    4    5    6
          29.9 26.6 21.3 21.0 23.4 24.5
   9        1    2    3
          30.8 29.6 26.9
  10        1
          18.5
  11        1    2    3    4    5    6
          17.4 16.0 11.9 11.5 10.6 10.0
  12        1    2    3    4    5
           6.5  6.1  6.1  5.8  3.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           9.2 13.4  7.9 14.1 14.6 14.9 14.7 14.5 14.8 14.7

          14.6 15.0 14.5 14.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.1 14.5 14.9 14.9 14.4 14.8 14.7 14.5 15.3 14.7

          13.3  9.4 13.8  9.3
  15        1    2    3    4    5    6    7    8    9   10

           6.6  9.3  4.4  4.7  4.9  5.1  5.1  6.2 13.8 19.5

  16        1    2    3    4    5    6    7    8    9   10

          19.5 13.5  5.0  4.9  5.0  4.8  4.7  4.3  9.2  6.7

  17        1    2    3    4    5    6    7
           6.0  6.4  6.1  5.6  6.3  7.0  2.9
  18        1    2    3    4    5    6    7
           2.7  7.0  6.4  5.5  6.0  6.4  5.9
1

 RECEIVER     LEQ(H)   L10
 81            43.4   45.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          3.4  5.4  5.8  5.9  6.5  7.9
   2        1    2    3    4    5    6
          10.7 11.7 11.9 20.6 21.7 23.8
   3        1
          30.3
   4        1    2    3
          30.5 31.2 26.5
   5        1    2    3    4    5    6
          23.8 21.3 21.5 26.7 30.0 28.6
   6        1    2    3
          28.8 26.8 31.3
   7        1    2    3    4
          31.3 26.9 28.9 26.2
   8        1    2    3    4    5    6
          30.0 26.8 21.6 21.3 23.8 25.3
   9        1    2    3
          31.4 30.5 28.8
  10        1
          24.2
  11        1    2    3    4    5    6
          22.0 21.1 11.9 11.5 10.6 10.0
  12        1    2    3    4    5
           6.4  5.9  5.8  5.4  3.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.5 21.7 16.1 22.4 22.9 22.0 14.1 13.9 14.3 14.2

          14.1 14.6 14.2 13.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.8 14.1 14.5 14.5 13.9 14.3 14.1 13.9 22.5 23.0

          21.6 17.7 22.1 17.6
  15        1    2    3    4    5    6    7    8    9   10

          15.1 18.0 13.2 13.7 14.1 14.3 14.4 14.4 14.3 20.0

  16        1    2    3    4    5    6    7    8    9   10

          20.0 14.2 14.3 14.1 14.2 13.9 13.6 13.1 18.0 15.1

  17        1    2    3    4    5    6    7
           6.1  6.5  6.1 13.7 15.0 15.6 11.4
  18        1    2    3    4    5    6    7
          11.2 15.6 14.9 13.0  6.0  6.4  5.9
```

****
OPTIMA-VU1
****
BARRIER OPTIMIZATION PROGRAM USING
PARTIAL SOUND ENERGIES COMPUTED BY THE
STAMINA 2.0 PROGRAM
MODIFIED FROM THE FHWA VAX VERSON -- MARCH 1983

MODIFIED TO:
1. PLACE BARRIER COST DATA IN A DATA FILE CALLED OPTCOST.DTA TO ALLOW USER TO USE COSTS OTHER THAN THE FHWA NATIONAL AVERAGES.
****
MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
IN JUNE 1991 BY
VANDERBILT ENGINEERING CENTER FOR TRANSPORTATION
OPERATIONS AND RESEARCH (VECTOR)
BOX 96-B, VANDERBILT UNIVERSITY, NASHVILLE, TENNESSEE 37235
(615) 322-3683
****

PROBLEM TITLE
****
Meadowood - Single-Family 1st Floor (Receivers 42-81)No 15

EFFECTIVENESS/COST RATIO AND BARRIER HEIGHT MATRICES
****

BARRIER SECTION NO IDENT — EFFECTIVENESS/COST RATIO — CORRESPONDING BARRIER HEIGHTS(IN FT)

HEIGHT INDEX		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
1	1	*	0.							0.	0.						
2	2	*	0.							0.	0.						
3	3	*	0.							0.	0.						
4	5	*	0.							0.	0.						
5	6	*	0.							0.	0.						
6	7	*	0.							0.	0.						
7	8	*	0.							0.	0.						
8	9	*	0.							0.	0.						
9	10	*	0.							0.	0.						
10	11	*	0.							0.	0.						
11	12	*	0.							0.	0.						
12	13	*	0.							0.	0.						
13	15	*	4.	5.	5.	4.	3.	2.	2.	0.	3.	4.	5.	6.	7.	8.	9.
14	16	*	-7.	-1.	2.	2.	0.	-1.	-1.	0.	3.	4.	5.	6.	7.	8.	9.
15	17	*	0.	0.	0.	0.	0.	0.	0.	0.	3.	4.	5.	6.	7.	8.	9.
16	18	*	0.	0.	0.	0.	0.	0.	0.	0.	3.	4.	5.	6.	7.	8.	9.
17	19	*	0.	0.	0.	0.	0.	0.	0.	0.	3.	4.	5.	6.	7.	8.	9.
18	20	*	0.	0.	0.	0.	0.	0.	0.	0.	3.	4.	5.	6.	7.	8.	9.
19	21	*	0.	0.	0.	0.	0.	0.	0.	0.	3.	4.	5.	6.	7.	8.	9.
20	22	*	0.	0.	0.	0.	0.	0.	0.	0.	3.	4.	5.	6.	7.	8.	9.
21	24	*	0.	-1.	-2.	-3.	-4.	-5.	-6.	0.	3.	4.	5.	6.	7.	8.	9.
22	25	*	-7.	-9.	-9.	-8.	-7.	-6.	-5.	0.	3.	4.	5.	6.	7.	8.	9.
23	26	*	-5.	-3.	-3.	-3.	-2.	-2.	-2.	0.	3.	4.	5.	6.	7.	8.	9.
24	27	*	4.	4.	4.	3.	3.	3.	3.	0.	3.	4.	5.	6.	7.	8.	9.
25	28	*	4.	4.	3.	3.	2.	2.	2.	0.	3.	4.	5.	6.	7.	8.	9.
26	29	*	4.	4.	3.	2.	2.	2.	1.	0.	3.	4.	5.	6.	7.	8.	9.
27	30	*	4.	4.	3.	2.	2.	1.	1.	0.	3.	4.	5.	6.	7.	8.	9.
28	32	*	3.	3.	2.	1.	1.	0.	0.	0.	3.	4.	5.	6.	7.	8.	9.
29	33	*	3.	3.	2.	1.	1.	0.	0.	0.	3.	4.	5.	6.	7.	8.	9.
30	34	*	0.	0.	0.	0.	0.	0.	0.	0.	3.	4.	5.	6.	7.	8.	9.
31	35	*	-7.	-7.	-7.	-8.	-8.	-8.	-8.	0.	3.	4.	5.	6.	7.	8.	9.
32	36	*	0.	0.	0.	0.	0.	0.	0.	0.	3.	4.	5.	6.	7.	8.	9.
33	37	*	0.	0.	0.	0.	0.	0.	0.	0.	3.	4.	5.	6.	7.	8.	9.
34	38	*	0.	0.	0.	0.	0.	0.	0.	0.	3.	4.	5.	6.	7.	8.	9.
35	39	*	16.	15.	13.	11.	9.	7.	6.	0.	3.	4.	5.	6.	7.	8.	9.
36	40	*	13.	12.	12.	10.	9.	7.	6.	0.	3.	4.	5.	6.	7.	8.	9.
37	41	*	8.	7.	6.	4.	3.	2.	2.	0.	3.	4.	5.	6.	7.	8.	9.
38	41b	*	18.	15.	15.	15.	14.	12.	11.	0.	3.	4.	5.	6.	7.	8.	9.
39	42	*	6.	3.	3.	3.	3.	2.	1.	0.	3.	4.	5.	6.	7.	8.	9.
40	42b	*	16.	14.	15.	15.	15.	14.	13.	0.	3.	4.	5.	6.	7.	8.	9.
41	43	*	14.	13.	13.	12.	11.	10.	9.	0.	3.	4.	5.	6.	7.	8.	9.
42	44	*	2.	2.	1.	1.	1.	0.	0.	0.	3.	4.	5.	6.	7.	8.	9.
43	45	*	-4.	-5.	-6.	-7.	-7.	-7.	-8.	0.	3.	4.	5.	6.	7.	8.	9.
44	46	*	1.	1.	1.	0.	0.	0.	0.	0.	3.	4.	5.	6.	7.	8.	9.
45	47	*	-7.	-7.	-8.	-9.	-9.	-9.	-9.	0.	3.	4.	5.	6.	7.	8.	9.
46	48	*	20.	18.	19.	18.	16.	14.	13.	0.	3.	4.	5.	6.	7.	8.	9.
47	49	*	23.	21.	22.	21.	19.	18.	17.	0.	3.	4.	5.	6.	7.	8.	9.
48	50	*	23.	21.	21.	19.	17.	15.	14.	0.	3.	4.	5.	6.	7.	8.	9.
49	51	*	27.	25.	24.	22.	20.	18.	18.	0.	3.	4.	5.	6.	7.	8.	9.
50	52	*	27.	24.	25.	23.	21.	19.	18.	0.	3.	4.	5.	6.	7.	8.	9.
51	54	*	27.	26.	24.	22.	20.	19.	18.	0.	3.	4.	5.	6.	7.	8.	9.
52	55	*	24.	21.	22.	21.	20.	18.	17.	0.	3.	4.	5.	6.	7.	8.	9.
53	56	*	25.	23.	23.	23.	22.	20.	20.	0.	3.	4.	5.	6.	7.	8.	9.
54	57	*	21.	21.	21.	20.	19.	18.	17.	0.	3.	4.	5.	6.	7.	8.	9.
55	58	*	25.	23.	22.	20.	18.	16.	16.	0.	3.	4.	5.	6.	7.	8.	9.
56	59	*	19.	17.	18.	16.	14.	12.	11.	0.	3.	4.	5.	6.	7.	8.	9.
57	60	*	3.	3.	3.	2.	2.	1.	1.	0.	3.	4.	5.	6.	7.	8.	9.
58	61	*	-1.	-1.	-2.	-2.	-2.	-3.	-3.	0.	3.	4.	5.	6.	7.	8.	9.
59	62	*	0.							0.	0.						
60	63	*	0.							0.	0.						
61	64	*	0.							0.	0.						
62	65	*	0.							0.	0.						
63	66	*	0.							0.	0.						
64	67	*	0.							0.	0.						
65	68	*	0.							0.	0.						
66	69	*	0.							0.	0.						
67	70	*	0.							0.	0.						
68	72	*	0.							0.	0.						
69	73	*	0.							0.	0.						
70	74	*	0.							0.	0.						
71	75	*	0.							0.	0.						
72	76	*	0.							0.	0.						
73	78	*	0.							0.	0.						
74	79	*	0.							0.	0.						
75	81	*	0.							0.	0.						
76	82	*	0.							0.	0.						
77	82b	*	0.							0.	0.						
78	82c	*	0.							0.	0.						
79	84	*	0.							0.	0.						
80	85	*	0.							0.	0.						
81	85b	*	0.							0.	0.						
82	85c	*	0.							0.	0.						
83	85d	*	0.							0.	0.						
84	86	*	0.							0.	0.						
85	86b	*	0.							0.	0.						
86	87	*	0.							0.	0.						
87	87b	*	0.							0.	0.						
88	87c	*	0.							0.	0.						
89	87d	*	0.							0.	0.						
90	87e	*	0.							0.	0.						
91	87f	*	0.							0.	0.						
92	87g	*	0.							0.	0.						
93	87h	*	0.							0.	0.						
94	88	*	27.	23.	23.	24.	23.	21.	20.	0.	3.	4.	5.	6.	7.	8.	9.
95	89	*	26.	27.	21.	20.	22.	21.	21.	0.	3.	4.	5.	6.	7.	8.	9.
96	90	*	27.	29.	23.	21.	23.	22.	22.	0.	3.	4.	5.	6.	7.	8.	9.
97	91	*	26.	30.	25.	21.	23.	23.	23.	0.	3.	4.	5.	6.	7.	8.	9.
98	92	*	19.	25.	29.	27.	22.	21.	22.	0.	3.	4.	5.	6.	7.	8.	9.
99	93	*	27.	30.	25.	21.	23.	23.	23.	0.	3.	4.	5.	6.	7.	8.	9.
100	94	*	28.	31.	25.	23.	24.	24.	24.	0.	3.	4.	5.	6.	7.	8.	9.
101	95	*	25.	23.	24.	23.	21.	19.	19.	0.	3.	4.	5.	6.	7.	8.	9.
102	96	*	19.	20.	19.	18.	17.	16.	16.	0.	3.	4.	5.	6.	7.	8.	9.
103	98	*	0.							0.	0.						
104	99	*	0.							0.	0.						
105	100	*	0.							0.	0.						
106	101	*	0.							0.	0.						
107	102	*	0.							0.	0.						
108	104	*	0.							0.	0.						
109	105	*	0.							0.	0.						
110	106	*	0.							0.	0.						
111	108a	*	0.							0.	0.						
112	108b	*	0.							0.	0.						
113	109	*	0.							0.	0.						
114	110	*	0.							0.	0.						
115	101	*	0.							0.	0.						
116	102	*	0.							0.	0.						
117	103	*	0.							0.	0.						
118	104	*	0.							0.	0.						
119	105	*	0.							0.	0.						
120	106	*	0.							0.	0.						
121	107	*	0.							0.	0.						
122	108	*	0.							0.	0.						
123	109	*	0.							0.	0.						
124	110	*	0.							0.	0.						
125	111	*	0.							0.	0.						
126	112	*	0.							0.	0.						
127	113	*	0.							0.	0.						
128	114	*	0.							0.	0.						
129	115	*	0.							0.	0.						
130	116	*	0.							0.	0.						
131	117	*	0.							0.	0.						
132	118	*	0.							0.	0.						
HEIGHT INDEX		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8

Meadowood - Single-Family 1st Floor (Receivers 42-81)No 15

```
BARRIER HEIGHT INDEX FOR EACH BARRIER SECTION
  1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  1  1  1  1  1  2  2  2  2  2
  2  2  2  2  2  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  2  2
  2  2  2  2  2  2  2  2  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  3  3  3  3
  3  3  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1  1  1
CORRESPONDING BARRIER HEIGHTS FOR EACH SECTION
 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 3. 3. 3. 0. 0. 0. 0. 0. 3. 3. 3. 3. 3.
 3. 3. 3. 3. 3. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 3. 3. 3. 3. 3.
 3. 3. 3. 3. 3. 3. 3. 3. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 3. 3. 3. 4. 4. 4. 4.
 4. 4. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
 0. 0. 0. 0. 0. 0. 0.
```

R E S U L T S
****

REC	REC ID	LEQ	LEQ(Z(0))	IL
1	42	51.5	53.8	2.3
2	43	50.2	52.5	2.3
3	44	51.8	56.2	4.4
4	45	51.6	55.8	4.2
5	46	51.1	52.8	1.7
6	47	50.6	54.1	3.5
7	48	49.5	53.8	4.3
8	49	51.4	54.2	2.8
9	50	51.8	54.1	2.4
10	51	53.7	54.0	.3
11	52	51.7	53.8	2.2
12	53	52.8	53.5	.7
13	54	52.3	53.1	.8
14	55	49.3	52.8	3.4
15	56	42.3	42.4	.1
16	57	43.8	43.9	.1
17	58	47.3	47.4	.1
18	59	48.3	48.3	.0
19	60	47.1	47.1	.0
20	61	46.1	46.2	.1

21	62	46.2	46.2	.0
22	63	46.4	46.5	.0
23	64	45.8	45.8	.0
24	65	45.5	45.5	.1
25	66	45.5	45.5	.1
26	67	47.2	47.3	.1
27	68	47.7	47.7	.0
28	69	48.2	48.2	.0
29	70	48.1	48.1	.0
30	71	49.8	54.4	4.6
31	72	49.6	54.0	4.4
32	73	49.9	54.5	4.6
33	74	49.8	54.3	4.5
34	75	49.4	52.8	3.4
35	76	48.6	49.0	.3
36	77	49.4	49.5	.1
37	78	37.8	37.9	.2
38	79	45.1	45.3	.2
39	80	44.8	45.0	.2
40	81	48.4	48.5	.1

BARRIER TYPE	COST	AREA (SQ. FT.)
FH-BERM	0.	0.
FH-MASON	52900.	10790.
FH-WOOD	0.	0.
FH-CONC	0.	0.
FH-STEEL	0.	0.

****

TOTALS: $	52900.	10790.

END OF ALL CASES

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                    ************************
                          OPTIMA-VU1
                    ************************
                 BARRIER OPTIMIZATION PROGRAM USING
                PARTIAL SOUND ENERGIES COMPUTED BY THE
                       STAMINA 2.0 PROGRAM
              MODIFIED FROM THE FHWA VAX VERSON -- MARCH 1983

         MODIFIED TO:
            1.   PLACE BARRIER COST DATA IN A DATA FILE CALLED
                 OPTCOST.DTA TO ALLOW USER TO USE COSTS OTHER THAN
                 THE FHWA NATIONAL AVERAGES.
                        ************************
           MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
                            IN JUNE 1991 BY
           VANDERBILT ENGINEERING CENTER FOR TRANSPORTATION
                  OPERATIONS AND RESEARCH (VECTOR)
         BOX 96-B, VANDERBILT UNIVERSITY, NASHVILLE, TENNESSEE 37235
                           (615) 322-3683
                       ***********************

     PROBLEM TITLE
     *************
 Meadowood - Single-Family 2nd Floor (Receivers 42-81)No 15

              EFFECTIVENESS/COST RATIO AND BARRIER HEIGHT MATRICES
              ****************************************************
BARRIER SECTION        EFFECTIVENESS/COST                  CORRESPONDING
   NO  IDENT                 RATIO                          BARRIER HEIGHTS(IN
FT)

 HEIGHT INDEX   1   2    3    4    5    6    7    8    1  2  3  4  5  6  7  8
     1  1       *   0.                                 0. 0.
     2  2       *   0.                                 0. 0.
     3  3       *   0.                                 0. 0.
     4  5       *   0.                                 0. 0.
     5  6       *   0.                                 0. 0.
     6  7       *   0.                                 0. 0.
     7  8       *   0.                                 0. 0.
     8  9       *   0.                                 0. 0.
     9  10      *   0.                                 0. 0.
    10  11      *   0.                                 0. 0.
    11  12      *   0.                                 0. 0.
    12  13      *   0.                                 0. 0.
    13  15      *  -9.   0.   2.   1.  -1.  -2.  -3.   0. 3. 4. 5. 6. 7. 8.
9.
    14  16      *   0.   0.   0.   0.   0.   0.   0.   0. 3. 4. 5. 6. 7. 8.
9.
    15  17      *   0.   0.   0.   0.   0.   0.   0.   0. 3. 4. 5. 6. 7. 8.
9.
    16  18      *   0.   0.   0.   0.   0.   0.   0.   0. 3. 4. 5. 6. 7. 8.
9.
    17  19      *   0.   0.   0.   0.   0.   0.   0.   0. 3. 4. 5. 6. 7. 8.
9.
    18  20      *   0.   0.   0.   0.   0.   0.   0.   0. 3. 4. 5. 6. 7. 8.
9.
    19  21      *   0.   0.   0.   0.   0.   0.   0.   0. 3. 4. 5. 6. 7. 8.
9.
    20  22      *   0.   0.   0.   0.   0.   0.   0.   0. 3. 4. 5. 6. 7. 8.
9.
    21  24      *   5.   5.   4.   3.   1.   0.   0.   0. 3. 4. 5. 6. 7. 8.
9.
    22  25      *   2.   1.  -1.  -3.  -4.  -5.  -6.   0. 3. 4. 5. 6. 7. 8.
9.
    23  26      *   1.  -1.  -3.  -5.  -6.  -8.  -8.   0. 3. 4. 5. 6. 7. 8.
9.
    24  27      *   6.   6.   6.   6.   5.   5.   5.   0. 3. 4. 5. 6. 7. 8.
9.
    25  28      *   9.  10.   9.   8.   7.   6.   6.   0. 3. 4. 5. 6. 7. 8.
9.
    26  29      *   9.   9.   8.   7.   6.   6.   5.   0. 3. 4. 5. 6. 7. 8.
9.
    27  30      *  10.   9.   8.   7.   6.   6.   5.   0. 3. 4. 5. 6. 7. 8.
9.
    28  32      *   8.   8.   8.   7.   6.   5.   5.   0. 3. 4. 5. 6. 7. 8.
9.
    29  33      *   6.   6.   5.   4.   4.   4.   3.   0. 3. 4. 5. 6. 7. 8.
9.
    30  34      *   0.  -4.  -2.  -3.  -4.  -6.  -6.   0. 3. 4. 5. 6. 7. 8.
9.
    31  35      *  -7.  -8.  -7.  -6.  -4.  -4.  -3.   0. 3. 4. 5. 6. 7. 8.
9.
    32  36      *   1.  -1.  -3.  -6.  -8. -11. -12.   0. 3. 4. 5. 6. 7. 8.
9.
    33  37      *   0.   0.   0.   0.   0.   0.   0.   0. 3. 4. 5. 6. 7. 8.
9.
    34  38      *   0.   0.   0.   0.   0.   0.   0.   0. 3. 4. 5. 6. 7. 8.
9.
    35  39      *   0.   0.   0.   0.   0.   0.   0.   0. 3. 4. 5. 6. 7. 8.
9.
    36  40      *   0.   0.   0.   0.   0.   0.   0.   0. 3. 4. 5. 6. 7. 8.
9.
    37  41      *  19.  18.  16.  14.  12.  11.  10.   0. 3. 4. 5. 6. 7. 8.
9.
    38  41b     *   3.   4.   4.   3.   3.   3.   2.   0. 3. 4. 5. 6. 7. 8.
9.
    39  42      *   3.   3.   2.   2.   1.   0.   0.   0. 3. 4. 5. 6. 7. 8.
9.
    40  42b     *   4.   5.   6.   7.   7.   5.   5.   0. 3. 4. 5. 6. 7. 8.
9.
    41  43      *   7.   8.   9.   8.   6.   5.   4.   0. 3. 4. 5. 6. 7. 8.
9.
    42  44      *   4.   4.   3.   2.   2.   2.   2.   0. 3. 4. 5. 6. 7. 8.
9.
    43  45      *  -1.  -2.  -2.  -3.  -3.  -4.  -4.   0. 3. 4. 5. 6. 7. 8.
9.
    44  46      *   3.   3.   2.   1.   1.   1.   1.   0. 3. 4. 5. 6. 7. 8.
9.
    45  47      *  -2.  -3.  -4.  -5.  -5.  -5.  -6.   0. 3. 4. 5. 6. 7. 8.
9.
    46  48      *   5.   4.   4.   3.   2.   2.   2.   0. 3. 4. 5. 6. 7. 8.
9.
    47  49      *  13.  15.  17.  17.  15.  12.  11.   0. 3. 4. 5. 6. 7. 8.
9.
    48  50      *  10.  12.  12.  12.  10.   9.   8.   0. 3. 4. 5. 6. 7. 8.
9.
    49  51      *  12.  14.  15.  15.  13.  11.  10.   0. 3. 4. 5. 6. 7. 8.
9.
    50  52      *   8.   8.   7.   7.   8.   8.   8.   0. 3. 4. 5. 6. 7. 8.
9.
    51  54      *  19.  20.  20.  18.  17.  16.  15.   0. 3. 4. 5. 6. 7. 8.
9.
    52  55      *  17.  17.  17.  16.  14.  13.  12.   0. 3. 4. 5. 6. 7. 8.
9.
    53  56      *  16.  17.  16.  15.  14.  13.  13.   0. 3. 4. 5. 6. 7. 8.
9.
    54  57      *  20.  20.  20.  18.  16.  15.  14.   0. 3. 4. 5. 6. 7. 8.
9.
    55  58      *  18.  19.  18.  16.  15.  13.  12.   0. 3. 4. 5. 6. 7. 8.
9.
    56  59      *  12.  13.  13.  12.  10.   9.   9.   0. 3. 4. 5. 6. 7. 8.
9.
    57  60      *   4.   4.   4.   4.   4.   4.   4.   0. 3. 4. 5. 6. 7. 8.
9.
    58  61      *  -6.  -4.  -4.  -4.  -3.  -3.  -3.   0. 3. 4. 5. 6. 7. 8.
9.
    59  62      *   0.                                 0. 0.
    60  63      *   0.                                 0. 0.
    61  64      *   0.                                 0. 0.
    62  65      *   0.                                 0. 0.
    63  66      *   0.                                 0. 0.
    64  67      *   0.                                 0. 0.
    65  68      *   0.                                 0. 0.
    66  69      *   0.                                 0. 0.
    67  70      *   0.                                 0. 0.
    68  72      *   0.                                 0. 0.
    69  73      *   0.                                 0. 0.
    70  74      *   0.                                 0. 0.
    71  75      *   0.                                 0. 0.
    72  76      *   0.                                 0. 0.
    73  78      *   0.                                 0. 0.
    74  79      *   0.                                 0. 0.
    75  81      *   0.                                 0. 0.
    76  82      *   0.                                 0. 0.
    77  82b     *   0.                                 0. 0.
    78  82c     *   0.                                 0. 0.
    79  84      *   0.                                 0. 0.
    80  85      *   0.                                 0. 0.
    81  85b     *   0.                                 0. 0.
    82  85c     *   0.                                 0. 0.
    83  85d     *   0.                                 0. 0.
    84  86      *   0.                                 0. 0.
    85  86b     *   0.                                 0. 0.
    86  87      *   0.                                 0. 0.
    87  87b     *   0.                                 0. 0.
    88  87c     *   0.                                 0. 0.
    89  87d     *   0.                                 0. 0.
    90  87e     *   0.                                 0. 0.
    91  87f     *   0.                                 0. 0.
    92  87g     *   0.                                 0. 0.
    93  87h     *   0.                                 0. 0.
    94  88      *  15.  13.  11.   8.   6.   3.   2.   0. 3. 4. 5. 6. 7. 8.
9.
    95  89      *  10.  10.   9.   9.   8.   7.   7.   0. 3. 4. 5. 6. 7. 8.
9.
    96  90      *   9.  11.  11.  10.   8.   7.   7.   0. 3. 4. 5. 6. 7. 8.
9.
    97  91      *  12.  11.   9.   8.   7.   6.   6.   0. 3. 4. 5. 6. 7. 8.
9.
    98  92      *  12.  13.  13.  13.  12.  10.  10.   0. 3. 4. 5. 6. 7. 8.
9.
    99  93      *   6.   7.   7.   7.   5.   4.   4.   0. 3. 4. 5. 6. 7. 8.
9.
   100  94      *   4.   6.   7.   7.   6.   5.   4.   0. 3. 4. 5. 6. 7. 8.
9.
   101  95      *  12.  12.  11.  10.   9.   7.   6.   0. 3. 4. 5. 6. 7. 8.
9.
   102  96      *  16.  15.  12.  11.   9.   9.   9.   0. 3. 4. 5. 6. 7. 8.
9.
   103  98      *   0.                                 0. 0.
   104  99      *   0.                                 0. 0.
   105  100     *   0.                                 0. 0.
   106  101     *   0.                                 0. 0.
   107  102     *   0.                                 0. 0.
   108  104     *   0.                                 0. 0.
   109  105     *   0.                                 0. 0.
   110  106     *   0.                                 0. 0.
   111  108a    *   0.                                 0. 0.
   112  108b    *   0.                                 0. 0.
   113  109     *   0.                                 0. 0.
   114  110     *   0.                                 0. 0.
   115  101     *   0.                                 0. 0.
   116  102     *   0.                                 0. 0.
   117  103     *   0.                                 0. 0.
   118  104     *   0.                                 0. 0.
   119  105     *   0.                                 0. 0.
   120  106     *   0.                                 0. 0.
   121  107     *   0.                                 0. 0.
   122  108     *   0.                                 0. 0.
   123  109     *   0.                                 0. 0.
   124  110     *   0.                                 0. 0.
   125  111     *   0.                                 0. 0.
   126  112     *   0.                                 0. 0.
   127  113     *   0.                                 0. 0.
   128  114     *   0.                                 0. 0.
   129  115     *   0.                                 0. 0.
   130  116     *   0.                                 0. 0.
   131  117     *   0.                                 0. 0.
   132  118     *   0.                                 0. 0.

 HEIGHT INDEX   1   2    3    4    5    6    7    8    1  2  3  4  5  6  7  8

 Meadowood - Single-Family 2nd Floor (Receivers 42-81)No 15


 BARRIER HEIGHT INDEX FOR EACH BARRIER SECTION
   1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  1  1  1  1  1  2  2  2  2  2
   2  2  2  2  2  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  2  2
   2  2  2  2  2  2  2  2  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
   1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  3  3  3  3
   3  3  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
   1  1  1  1  1  1  1
 CORRESPONDING BARRIER HEIGHTS FOR EACH SECTION
  0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 3. 3. 3. 0. 0. 0. 0. 0. 3. 3. 3. 3. 3.
  3. 3. 3. 3. 3. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 3. 3. 3. 3. 3.
  3. 3. 3. 3. 3. 3. 3. 3. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
  0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 3. 3. 3. 4. 4. 4. 4.
  4. 4. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
  0. 0. 0. 0. 0. 0. 0.

      R E S U L T S
      *************

 REC     REC ID          LEQ       LEQ(Z(0))        IL
   1     42              56.0       56.1            .0
   2     43              56.0       56.0            .0
   3     44              55.7       55.7            .0
   4     45              55.6       55.6            .0
   5     46              55.5       55.6            .1
   6     47              54.5       55.1            .6
   7     48              54.9       54.9            .0
   8     49              54.5       54.6            .1
   9     50              54.3       54.4            .2
  10     51              54.1       54.2            .0
  11     52              53.9       54.0            .1
  12     53              53.7       53.8            .1
  13     54              53.5       53.5            .1
  14     55              53.2       53.3            .1
  15     56              52.2       52.3            .2
  16     57              52.4       52.4            .0
  17     58              51.6       51.6            .0
  18     59              51.8       51.8            .0
  19     60              50.4       50.4            .0
  20     61              49.0       49.0            .0
```

21	62	49.4	49.5	.0
22	63	48.5	48.5	.0
23	64	49.9	49.9	.0
24	65	50.3	50.3	.0
25	66	51.1	51.1	.0
26	67	51.7	51.7	.0
27	68	51.8	51.8	.0
28	69	51.8	51.8	.0
29	70	51.9	51.9	.0
30	71	53.9	54.2	.3
31	72	54.1	54.4	.2
32	73	54.2	54.4	.2
33	74	53.9	54.1	.2
34	75	53.4	53.8	.4
35	76	49.8	50.2	.4
36	77	49.6	50.0	.4
37	78	45.6	45.6	.0
38	79	45.7	45.9	.2
39	80	46.2	46.4	.2
40	81	47.6	47.8	.3

BARRIER TYPE	COST	AREA (SQ. FT.)
FH-BERM	0.	0.
FH-MASON	52900.	10790.
FH-WOOD	0.	0.
FH-CONC	0.	0.
FH-STEEL	0.	0.

****

TOTALS: $	52900.	10790.

END OF ALL CASES

****
STAM2VU1
Version 1.20
****
STAMINA 2.0/BCR
MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
TRAFFIC NOISE PREDICTION MODEL

MODIFIED TO:
1. ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
2. CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
3. PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.

****

MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
AND BOWLBY & ASSOCIATES, INC.
2014 BROADWAY, SUITE 210
NASHVILLE, TN 37203-2425
TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE *.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.

(INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH)

Meadowood - Single-Family 2nd Floor (Receivers 82-121)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

HEIGHT	CODE	DESCRIPTION
.00	1	RECEIVER HEIGHT ADJUSTMENT
1.00	2	A-WEIGHTED SOUND LEVEL ONLY
.00	3	HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
.00	4	HEIGHT ADJUSTMENT FOR HEAVY TRUCKS (HT)
.00	5	HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS (MT)
.000	6	HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4) CARS--CALVENO C0 = 5.20 C1 = 38.80 S0 = .00
2.300	7	HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5) MT--CALVENO C0 = 35.30 C1 = 25.60 S0 = .00
8.000	8	HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6) HT--CALVEN0 C0 = 50.40 C1 = 19.20 S0 = .00

0ROADWAY 1 HRC nb (76 to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6287767.4	2067284.0	276.0	0
2	6287704.7	2067456.2	276.0	0
3	6287629.7	2067702.5	279.0	0
4	6287568.8	2067936.5	284.0	0
5	6287512.3	2068148.3	284.0	0
6	6287446.9	2068359.4	282.0	0
7	6287374.5	2068606.6	279.0	0

0ROADWAY 2 HRC nb (Pankey to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
7	6287374.5	2068606.6	279.0	0
8	6287273.9	2068832.6	278.0	0
9	6287137.9	2069057.7	278.0	0
10	6287017.0	2069263.4	280.0	0
11	6286760.9	2069688.9	285.0	0
12	6286533.2	2070137.4	290.0	0
13	6286310.7	2070587.7	296.0	0

0ROADWAY 3 HRC nb (School to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
13	6286310.7	2070587.7	296.0	0
14	6286086.4	2071030.0	302.0	0

0ROADWAY 4 HRC nb (26 to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286086.4	2071030.0	302.0	0
15	6285859.5	2071475.8	308.0	0
16	6285540.8	2072106.2	311.0	0
17	6285403.1	2072385.2	310.0	0

0ROADWAY 5 HRC nb (Harvest Glen to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
17	6285403.1	2072385.2	310.0	0
18	6285328.1	2072574.1	310.0	0
19	6285298.0	2072673.9	310.0	0
20	6285270.7	2072773.6	311.0	0
21	6285221.2	2073078.2	314.0	0
22	6285201.8	2073673.3	322.0	0
23	6285188.6	2074037.0	338.0	0

0ROADWAY 6 HRC nb (Longspur to Baltimore)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
23	6285188.6	2074037.0	338.0	0
24	6285145.3	2074308.9	346.0	0
25	6285056.1	2074546.4	351.0	0
26	6284650.0	2075149.4	356.0	0

0ROADWAY 7 HRC sb (Baltimore to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6284621.8	2075132.6	356.0	0
2	6285015.5	2074527.9	351.0	0
3	6285099.4	2074300.1	346.0	0
4	6285141.8	2074033.5	338.0	0
5	6285159.4	2073671.5	322.0	0

0ROADWAY 8 HRC sb (Longspur to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
5	6285159.4	2073671.5	322.0	0
6	6285181.5	2073072.9	314.0	0
7	6285228.3	2072759.5	311.0	0
8	6285256.5	2072658.0	310.0	0
9	6285287.4	2072557.3	310.0	0
10	6285368.7	2072369.3	310.0	0
11	6285504.6	2072087.7	311.0	0

0ROADWAY 9 HRC sb (Harvest Glen to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
11	6285504.6	2072087.7	311.0	0
12	6285818.9	2071457.3	308.0	0
13	6286045.8	2071007.9	302.0	0
14	6286269.2	2070567.4	296.0	0

0ROADWAY 10 HRC sb (26 to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	14.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286269.2	2070567.4	296.0	0
15	6286493.4	2070122.4	290.0	0

0ROADWAY 11 HRC sb (School to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
15	6286493.4	2070122.4	290.0	0
16	6286720.3	2069667.7	285.0	0
17	6286977.2	2069239.6	280.0	0
18	6287102.6	2069033.0	278.0	0
19	6287238.6	2068813.1	278.0	0

20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0

	COORDINATES X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

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BARRIER 1 TYPE(A) Pad Edges 1

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286634.5	2070357.1	300.0	300.0	.0	0
2	6286502.0	2070298.3	300.0	300.0		
3	6286265.1	2070793.1	310.0	310.0		
4	6286320.9	2070828.5	310.0	310.0		

1

BARRIER 2 TYPE(A) Pad Edges 2

	COORDINATES X	Y	Z	Z0	DELZ	P
5	6286349.5	2070944.8	315.0	315.0	.0	0
6	6286239.3	2070896.7	314.0	314.0		
7	6286196.9	2070902.4	314.0	314.0		
8	6286078.1	2071137.0	311.0	311.0		
9	6286004.6	2071292.5	316.0	316.0		
10	6286004.6	2071603.5	317.0	317.0		
11	6286004.6	2071990.8	321.0	321.0		
12	6286004.5	2072360.7	324.0	324.0		
13	6286289.0	2072499.4	326.0	326.0		
14	6286498.0	2072566.2	329.0	329.0		

1

BARRIER 3 TYPE(A) Pad Edges 3

	COORDINATES X	Y	Z	Z0	DELZ	P
15	6286634.5	2072765.6	395.0	395.0	.0	0
16	6286621.9	2072916.9	395.0	395.0		
17	6286648.3	2073055.3	397.0	397.0		
18	6286685.9	2073120.3	400.0	400.0		
19	6286802.5	2073223.1	408.0	408.0		
20	6286939.8	2073344.0	421.0	421.0		
21	6287080.9	2073468.3	434.0	434.0		
22	6287179.3	2073554.7	442.0	442.0		
23	6287319.9	2073660.5	447.0	447.0		

1

BARRIER 4 TYPE(A) Pad Edges 4

	COORDINATES X	Y	Z	Z0	DELZ	P
24	6286661.4	2072669.3	399.0	399.0	.0	0
25	6286691.4	2072606.8	402.0	402.0		
26	6286808.6	2072443.9	413.0	413.0		
27	6286883.6	2072343.9	420.0	420.0		
28	6286840.1	2072178.6	425.0	425.0		
29	6286812.9	2072107.3	425.0	425.0		
30	6286826.1	2072043.3	425.0	425.0		
31	6286826.1	2072043.3	425.0	425.0		
32	6286852.2	2071992.5	425.0	425.0		
33	6286902.8	2071961.7	425.0	425.0		

1

BARRIER 5 TYPE(A) Pad Edges 5

	COORDINATES X	Y	Z	Z0	DELZ	P
33	6286902.8	2071961.7	425.0	425.0	.0	0
34	6286962.6	2071945.7	425.0	425.0		
35	6287015.8	2071960.1	425.0	425.0		
36	6287071.5	2071996.1	425.0	425.0		
37	6287133.1	2072101.5	433.0	433.0		
38	6287208.1	2072073.0	440.0	440.0		
39	6287286.5	2072058.4	443.0	443.0		
40	6287479.3	2072046.8	454.0	454.0		
41	6287668.5	2072035.1	465.0	465.0		
41b	6287685.1	2071982.5	494.0	494.0		

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BARRIER 6 TYPE(A) Pad Edges 6

	COORDINATES X	Y	Z	Z0	DELZ	P
41b	6287685.1	2071982.5	494.0	494.0	.0	0
42	6287686.6	2071882.5	494.0	494.0		
42b	6287699.0	2071869.6	494.0	494.0		
43	6287687.4	2071826.0	494.0	494.0		
44	6287537.5	2071795.8	493.0	493.0		
45	6287494.5	2071766.0	493.0	493.0		
46	6287457.5	2071786.6	493.0	493.0		
47	6287414.4	2071765.2	493.0	493.0		
48	6287295.5	2071799.6	493.0	493.0		
49	6287284.9	2071649.7	489.0	489.0		

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BARRIER 7 TYPE(A) Pad Edges 7

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
49	6287284.9	2071649.7	489.0	489.0	.0	0
50	6287348.9	2071527.3	487.0	487.0		
51	6287424.5	2071350.9	481.0	481.0		
52	6287467.2	2071294.2	479.0	479.0		
53	6287518.6	2071247.5	477.0	477.0		

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BARRIER 8 TYPE(A) Pad Edges 8

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
54	6287218.1	2070892.1	417.0	417.0	.0	0
55	6287157.9	2071011.8	422.0	422.0		
56	6287075.2	2071176.2	427.0	427.0		
57	6287007.6	2071272.7	427.0	427.0		
58	6286932.0	2071401.6	427.0	427.0		
59	6286944.0	2071476.9	427.0	427.0		
60	6286980.6	2071530.1	427.0	427.0		
61	6287085.3	2071587.4	427.0	427.0		
61b	6287195.3	2071545.3	430.0	430.0		

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BARRIER 9 TYPE(A) Pad Edges 9

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
62	6287504.8	2073407.6	464.0	464.0	.0	0
63	6287455.9	2073368.6	463.0	463.0		
64	6287170.1	2073077.7	459.0	459.0		
65	6287084.1	2072959.0	458.0	458.0		
66	6287062.5	2072812.7	457.0	457.0		
67	6287098.4	2072672.4	456.0	456.0		
68	6287206.8	2072488.9	454.0	454.0		
69	6287296.9	2072394.7	453.0	453.0		
70	6287367.3	2072346.7	452.0	452.0		
71	6287469.2	2072361.5	452.0	452.0		

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BARRIER 10 TYPE(A) Pad Edges 10

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
72	6287697.7	2073088.0	486.0	486.0	.0	0
73	6287547.5	2072976.4	486.0	486.0		
74	6287491.4	2072888.6	486.0	486.0		
75	6287491.1	2072766.9	485.0	485.0		
76	6287635.8	2072596.6	482.0	482.0		
77	6287767.5	2072309.5	477.0	477.0		

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BARRIER 11 TYPE(A) Pad Edges 11

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
78	6287168.3	2074113.6	447.0	447.0	.0	0
79	6287306.7	2073811.7	443.0	443.0		
80	6287536.9	2073481.4	457.0	457.0		

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BARRIER 12 TYPE(A) Pad Edges 12

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
81	6287283.0	2074170.1	465.0	465.0	.0	0
82	6287469.8	2073845.2	471.0	471.0		
82b	6287616.6	2073652.3	478.0	478.0		
82c	6287630.6	2073609.8	478.0	478.0		
83	6287702.0	2073532.9	475.0	475.0		

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BARRIER 13 TYPE(A) Pad Edges 14

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
84	6288855.6	2071200.7	606.0	606.0	.0	0
85	6288817.6	2071249.1	606.0	606.0		
85b	6288817.1	2071249.5	600.0	600.0		
85c	6288775.2	2071293.2	600.0	600.0		
85d	6288774.8	2071293.5	593.0	593.0		
86	6288730.6	2071333.3	593.0	593.0		
86b	6288730.4	2071333.5	585.0	585.0		
87	6288637.1	2071415.2	574.0	574.0		
87b	6288636.6	2071415.5	558.0	558.0		
87c	6288577.5	2071447.1	558.0	558.0		

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BARRIER 14 TYPE(A) Pad Edges 15

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
87c	6288577.5	2071447.1	558.0	558.0	.0	0
87d	6288576.6	2071447.3	542.0	542.0		
87e	6288512.6	2071462.6	542.0	542.0		
87f	6288512.2	2071462.7	535.0	535.0		
87g	6288454.3	2071466.7	535.0	535.0		
87h	6288453.5	2071466.7	528.0	528.0		
87i	6288396.4	2071470.4	528.0	528.0		

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BARRIER 15 TYPE(A) Pad Edges 16

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
88	6287934.8	2071070.6	463.0	463.0	.0	0
89	6287896.0	2071051.1	461.0	461.0		
90	6287829.7	2071017.7	457.0	457.0		
91	6287774.3	2070989.8	452.0	452.0		
92	6287719.9	2070962.3	446.0	446.0		
93	6287660.0	2070932.2	438.0	438.0		
94	6287602.9	2070903.4	431.0	431.0		
95	6287558.2	2070880.9	426.0	426.0		
96	6287504.6	2070853.9	426.0	426.0		
97	6287457.4	2070947.6	426.0	426.0		

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BARRIER 16 TYPE(A) Pad Edges 17

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
98	6287917.7	2071215.4	471.0	471.0	.0	0
99	6288056.8	2071153.4	487.0	487.0		
100	6288174.3	2071168.6	499.0	499.0		
101	6288341.6	2071223.3	517.0	517.0		
102	6288383.4	2071229.3	517.0	517.0		
103	6288411.9	2071206.0	518.0	518.0		

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BARRIER 17 TYPE(A) Pade Edges 18

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
104	6287531.1	2074308.7	483.0	483.0	.0	0
105	6287706.9	2074046.2	487.0	487.0		
106	6287847.9	2073869.2	491.0	491.0		
107	6287887.1	2073856.0	493.0	493.0		

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BARRIER 18 TYPE(A) Pad Edges 19

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
108a	6287776.1	2074544.5	503.0	503.0	.0	0
108b	6287725.5	2074618.8	503.0	503.0		
109	6287778.2	2074656.5	513.0	513.0		
110	6287798.1	2074702.8	518.0	518.0		
111	6287807.8	2074744.0	518.0	518.0		

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Receivers @ 15'

	----------COORDINATES----------		
	X	Y	Z
82	6287240.5	2072077.8	454.0
83	6287109.1	2072080.3	441.0
84	6286962.4	2071956.6	439.0
85	6286827.2	2072089.3	439.0
86	6286860.5	2072192.6	439.0
87	6286873.0	2072375.1	431.0
88	6286836.1	2072426.2	427.0
89	6286797.7	2072477.9	424.0
90	6286761.7	2072527.8	420.0
91	6286725.2	2072577.9	417.0
92	6286688.4	2072638.8	414.0
93	6286639.8	2072799.4	409.0
94	6286637.0	2072967.7	409.0
95	6286677.5	2073086.5	412.0
96	6286772.8	2073179.9	418.0
97	6286846.0	2073247.0	422.0
98	6286920.0	2073312.4	431.0
99	6286985.8	2073370.3	436.0
100	6287055.6	2073432.3	445.0
101	6287113.4	2073481.9	449.0
102	6287162.5	2073523.6	453.0
103	6287215.7	2073565.6	457.0
104	6287274.1	2073611.0	460.0
105	6287492.5	2073384.0	478.0
106	6287408.7	2073302.7	477.0
107	6287329.6	2073219.8	476.0
108	6287251.2	2073144.3	474.0
109	6287160.6	2073043.7	473.0
110	6287083.1	2072899.9	472.0
111	6287082.6	2072754.3	471.0
112	6287161.8	2072585.1	470.0
113	6287251.0	2072461.1	468.0
114	6287331.5	2072382.6	467.0
115	6287755.2	2072368.7	492.0
116	6287683.4	2072520.8	495.0
117	6287621.2	2072633.3	497.0
118	6287548.3	2072717.4	499.0
119	6287498.4	2072850.1	501.0
120	6287611.8	2073011.0	501.0
121	6287432.9	2073646.1	462.0

1

ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

```
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 18 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
1

 SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

  1 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  2 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  3 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  4 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  5 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  6 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  7 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  8 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  9 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 10 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 11 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 12 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 13 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 14 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 15 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 16 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 17 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 18 * .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
1

 RECEIVER    LEQ(H)   L10
 82           49.3   51.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            18.9 25.4 25.7 25.9 26.5 27.9
    2        1    2    3    4    5    6
            30.7 30.0 20.3 23.6 24.5 30.5
    3        1
            34.4
    4        1    2    3
            35.9 36.3 31.7
    5        1    2    3    4    5    6
            28.6 25.4 25.2 29.7 33.0 32.6
    6        1    2    3
            29.4 28.3 31.5
    7        1    2    3    4
            31.5 28.0 29.1 30.9
    8        1    2    3    4    5    6
            32.9 29.7 25.1 25.3 28.5 30.6
    9        1    2    3
            36.3 37.4 36.2
   10        1
            33.2
   11        1    2    3    4    5    6
            24.8 23.9 20.5 28.0 30.6 30.0
   12        1    2    3    4    5
            26.4 25.9 25.7 25.4 23.4
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            23.4 27.6 22.1 28.3 28.8 29.1 28.8 32.4 34.3 31.2

            15.6 15.5 15.0 14.7
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            14.7 15.0 15.4 16.0 31.4 34.2 32.4 28.5 29.5 28.9

            27.5 23.6 28.0 23.5
   15        1    2    3    4    5    6    7    8    9   10

            20.7 23.5 18.9 19.3 23.2 24.9 24.9 24.7 24.4 29.8

   16        1    2    3    4    5    6    7    8    9   10

            29.8 24.3 24.6 24.7 24.7 23.2 19.2 18.8 23.4 20.7

   17        1    2    3    4    5    6    7
            25.8 18.3 18.1 18.0 19.4 20.4 16.8
   18        1    2    3    4    5    6    7
            16.6 20.4 19.4 18.0 18.0 18.4 25.9
1

 RECEIVER    LEQ(H)   L10
 83           49.2   51.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            17.5 19.5 19.7 19.7 19.8 17.4
    2        1    2    3    4    5    6
            19.1 19.3 19.0 22.8 30.5 34.1
    3        1
            34.1
    4        1    2    3
            35.5 35.7 31.6
    5        1    2    3    4    5    6
            28.5 25.6 25.4 29.8 31.8 28.9
    6        1    2    3
            26.8 27.4 31.7
    7        1    2    3    4
            31.6 27.0 26.7 27.4
    8        1    2    3    4    5    6
            31.7 29.7 25.4 25.5 28.5 30.5
    9        1    2    3
            35.8 35.6 36.3
   10        1
            35.8
   11        1    2    3    4    5    6
            31.8 23.1 19.1 19.3 19.2 19.6
   12        1    2    3    4    5
            17.1 19.5 19.8 19.5 17.6
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            28.5 31.4 21.3 27.3 27.6 27.5 26.9 26.8 27.7 28.4

            34.0 34.5 32.2 23.7
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            23.6 32.6 34.4 34.0 28.1 27.6 26.9 26.7 27.9 27.7

            26.5 22.8 32.0 28.5
   15        1    2    3    4    5    6    7    8    9   10

            19.4 26.9 24.3 24.7 24.9 25.0 25.1 24.9 24.6 30.1

   16        1    2    3    4    5    6    7    8    9   10

            30.1 24.5 24.8 24.9 24.9 24.8 24.6 24.1 27.1 19.4

   17        1    2    3    4    5    6    7
            15.6 16.1 16.1 16.1 17.8 18.9 15.4
   18        1    2    3    4    5    6    7
            15.2 18.9 17.8 16.1 15.9 16.1 15.6
1

 RECEIVER    LEQ(H)   L10
 84           52.9   54.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            16.1 17.8 17.9 17.6 17.8 18.4
    2        1    2    3    4    5    6
            20.6 21.3 21.5 32.5 38.7 35.3
    3        1
            35.9
    4        1    2    3
            39.4 44.1 39.0
    5        1    2    3    4    5    6
            33.6 28.8 28.2 32.1 33.0 29.3
    6        1    2    3
            26.4 25.9 29.7
    7        1    2    3    4
            29.8 25.8 26.3 27.8
    8        1    2    3    4    5    6
            33.0 32.5 28.4 29.1 34.3 37.7
    9        1    2    3
            43.8 41.5 38.1
   10        1
            37.4
   11        1    2    3    4    5    6
            38.4 33.8 21.8 21.5 20.8 20.7
   12        1    2    3    4    5
            17.8 17.8 18.0 17.8 16.1
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            28.8 33.1 27.6 33.9 34.5 34.3 28.4 27.8 27.6 27.4

            28.0 29.6 29.1 28.5
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
            28.5 29.0 29.5 28.2 27.1 27.5 28.0 28.2 34.7 34.6

            33.0 29.1 33.5 28.9
   15        1    2    3    4    5    6    7    8    9   10

            26.7 29.4 24.8 25.1 25.4 25.5 25.6 25.4 25.2 30.6

   16        1    2    3    4    5    6    7    8    9   10

            30.6 25.0 25.3 25.4 25.4 25.3 25.1 24.6 29.4 26.6

   17        1    2    3    4    5    6    7
            17.1 18.2 18.4 23.6 26.8 27.3 23.1
   18        1    2    3    4    5    6    7
            22.9 27.3 26.8 22.8 18.3 18.1 17.0
1

 RECEIVER    LEQ(H)   L10
 85           54.1   55.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
            16.1 18.0 18.2 18.0 18.2 18.9
    2        1    2    3    4    5    6
            29.5 31.5 31.9 36.3 38.1 34.9
```

```
  3        1
         35.5
  4        1    2    3
         41.4 44.9 40.0
  5        1    2    3    4    5    6
         36.1 32.5 32.2 36.3 37.8 34.2
  6        1    2    3
         30.4 29.2 32.3
  7        1    2    3    4
         32.3 28.9 30.2 32.5
  8        1    2    3    4    5    6
         37.7 36.2 32.1 32.4 35.9 38.7
  9        1    2    3
         44.6 41.9 38.1
 10        1
         37.0
 11        1    2    3    4    5    6
         37.8 36.2 31.9 31.4 30.5 28.7
 12        1    2    3    4    5
         18.3 18.2 18.3 18.1 16.3
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         28.6 32.9 27.4 33.6 34.2 34.4 34.1 33.8 33.8 26.9

         26.2 27.0 28.1 27.6
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         27.6 28.0 26.7 26.5 26.9 33.8 34.0 33.9 34.9 34.3

         32.8 28.9 33.3 28.7
 15        1    2    3    4    5    6    7    8    9   10

         26.4 29.2 24.5 24.9 25.2 25.3 25.4 25.3 25.1 30.5

 16        1    2    3    4    5    6    7    8    9   10

         30.5 25.0 25.2 25.2 25.2 25.1 24.8 24.4 29.1 26.4

 17        1    2    3    4    5    6    7
         25.9 26.4 26.1 25.7 26.4 27.0 22.8
 18        1    2    3    4    5    6    7
         22.6 27.0 26.4 25.6 26.0 26.4 25.8
1

 RECEIVER    LEQ(H)   L10
 86           53.1   55.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         14.7 16.5 16.7 16.4 16.6 17.2
  2        1    2    3    4    5    6
         19.5 20.9 26.8 31.1 32.9 34.0
  3        1
         34.5
  4        1    2    3
         40.7 44.4 39.9
  5        1    2    3    4    5    6
         36.0 32.6 32.2 36.4 38.0 34.4
  6        1    2    3
         30.6 29.4 32.5
  7        1    2    3    4
         32.5 29.1 30.5 32.7
  8        1    2    3    4    5    6
         37.8 36.3 32.1 32.4 35.8 38.5
  9        1    2    3
         44.1 41.1 36.7
 10        1
         35.8
 11        1    2    3    4    5    6
         32.9 31.1 26.9 23.8 19.7 19.5
 12        1    2    3    4    5
         16.6 16.7 16.8 16.7 14.9
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         28.4 32.6 27.1 33.4 32.9 32.3 31.6 31.1 26.8 25.9

         25.6 27.7 27.5 26.7
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         26.6 27.4 27.5 25.9 25.6 26.8 31.2 31.3 32.7 33.4

         32.6 28.7 33.0 28.5
 15        1    2    3    4    5    6    7    8    9   10

         25.6 28.9 24.2 24.6 24.9 25.0 25.1 25.0 24.8 30.2

 16        1    2    3    4    5    6    7    8    9   10

         30.2 24.7 24.9 24.9 24.9 24.8 24.5 24.1 28.8 25.7

 17        1    2    3    4    5    6    7
         17.9 22.1 22.0 21.8 22.9 24.4 21.2
 18        1    2    3    4    5    6    7
         20.9 24.2 22.9 21.7 21.9 22.0 17.3
1

 RECEIVER    LEQ(H)   L10
 87           52.2   54.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         11.9 13.6 13.8 13.5 13.6 14.3
  2        1    2    3    4    5    6
         16.5 17.2 20.5 26.5 27.9 31.2
  3        1
         33.0
  4        1    2    3
         39.6 43.8 39.7
  5        1    2    3    4    5    6
         36.1 32.7 32.4 36.7 38.4 34.9
  6        1    2    3
         31.1 29.9 33.0
  7        1    2    3    4
         32.9 29.6 30.9 33.2
  8        1    2    3    4    5    6
         38.2 36.6 32.2 32.5 35.9 38.3
  9        1    2    3
         43.5 40.0 35.2
 10        1
         32.8
 11        1    2    3    4    5    6
         28.1 26.7 22.1 17.3 16.6 16.6
 12        1    2    3    4    5
         13.6 13.7 13.9 13.8 12.1
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         28.0 30.4 21.6 27.7 28.1 28.2 27.8 26.3 23.8 23.3

         24.1 25.0 23.9 24.4
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         23.7 23.8 24.8 24.3 23.0 23.7 26.4 27.6 28.6 28.2

         26.9 23.1 31.0 28.1
 15        1    2    3    4    5    6    7    8    9   10

         20.1 25.3 23.7 24.1 24.4 24.5 24.6 24.5 24.3 29.8

 16        1    2    3    4    5    6    7    8    9   10

         29.8 24.2 24.5 24.4 24.4 24.3 24.0 23.6 25.6 20.1

 17        1    2    3    4    5    6    7
         12.9 17.8 18.6 18.3 19.3 20.2 16.4
 18        1    2    3    4    5    6    7
         16.1 20.2 19.4 18.2 18.4 17.5 12.7
1

 RECEIVER    LEQ(H)   L10
 88           52.5   54.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         11.2 13.0 13.1 12.8 12.9 13.7
  2        1    2    3    4    5    6
         15.9 17.5 21.2 25.2 33.3 32.4
  3        1
         32.8
  4        1    2    3
         37.7 43.9 39.9
  5        1    2    3    4    5    6
         36.3 32.9 32.7 36.9 38.7 35.1
  6        1    2    3
         31.4 30.1 33.2
  7        1    2    3    4
         33.1 29.9 31.2 33.5
  8        1    2    3    4    5    6
         38.5 36.9 32.5 32.8 36.1 38.5
  9        1    2    3
         43.6 39.9 34.7
 10        1
         33.6
 11        1    2    3    4    5    6
         34.1 25.4 21.2 19.3 16.1 16.0
 12        1    2    3    4    5
         13.1 13.0 13.2 13.1 11.3
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         27.9 32.2 26.7 32.9 33.5 28.4 26.6 26.2 23.3 22.3

         22.8 24.0 22.9 22.0
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         22.0 22.8 23.8 23.1 22.1 23.3 26.4 26.4 29.3 33.6

         32.1 28.2 32.6 28.0
 15        1    2    3    4    5    6    7    8    9   10

         25.6 28.4 23.6 24.0 24.3 24.4 24.6 24.4 24.3 29.8

 16        1    2    3    4    5    6    7    8    9   10

         29.8 24.1 24.4 24.4 24.3 24.2 23.9 23.5 28.3 25.6

 17        1    2    3    4    5    6    7
         13.9 17.2 17.1 17.0 18.8 26.1 22.0
 18        1    2    3    4    5    6    7
         21.8 26.1 18.2 16.9 16.9 17.1 13.5
1

 RECEIVER    LEQ(H)   L10
 89           52.9   54.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
         10.7 12.4 12.6 12.4 12.5 13.3
  2        1    2    3    4    5    6
         15.5 19.6 20.3 33.3 35.7 32.1
  3        1
         32.5
  4        1    2    3
         37.6 43.9 40.1
  5        1    2    3    4    5    6
         36.5 33.3 33.0 37.2 39.0 35.4
  6        1    2    3
         31.7 30.4 33.3
  7        1    2    3    4
         33.3 30.1 31.5 33.8
  8        1    2    3    4    5    6
         38.8 37.1 32.8 33.1 36.3 38.7
  9        1    2    3
         43.6 39.8 34.5
 10        1
         33.2
 11        1    2    3    4    5    6
         35.3 34.1 20.4 20.1 16.9 15.5
 12        1    2    3    4    5
         12.5 12.5 12.7 12.5 10.8
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         27.9 32.1 26.6 32.8 33.4 33.6 33.1 25.3 24.2 21.8

         21.9 23.1 22.2 21.2
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         21.2 22.1 22.9 22.1 21.5 24.1 25.4 32.9 34.0 33.5

         32.0 28.1 32.5 27.9
 15        1    2    3    4    5    6    7    8    9   10

         25.5 28.3 23.5 23.8 24.2 24.4 24.5 24.3 24.2 29.8

 16        1    2    3    4    5    6    7    8    9   10
```

```
          29.7 24.1 24.3 24.3 24.2 24.0 23.8 23.4 28.3 25.5

  17        1    2    3    4    5    6    7
          14.9 16.2 24.6 24.7 25.4 26.0 21.9
  18        1    2    3    4    5    6    7
          21.7 26.1 25.4 24.6 24.2 16.1 14.7
1

 RECEIVER    LEQ(H)   L10
 90           53.2   55.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          10.0 11.8 12.0 11.7 12.0 12.7
   2        1    2    3    4    5    6
          17.6 27.0 30.4 34.7 35.2 31.8
   3        1
          32.3
   4        1    2    3
          37.4 44.0 40.3
   5        1    2    3    4    5    6
          36.8 33.5 33.2 37.5 39.3 35.7
   6        1    2    3
          31.9 30.6 33.6
   7        1    2    3    4
          33.5 30.3 31.7 34.1
   8        1    2    3    4    5    6
          39.1 37.4 33.0 33.3 36.5 38.9
   9        1    2    3
          43.7 39.7 34.2
  10        1
          32.9
  11        1    2    3    4    5    6
          34.9 34.7 30.4 29.1 18.4 17.2
  12        1    2    3    4    5
          11.9 11.9 12.1 11.9 10.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.8 32.0 26.5 32.8 33.3 33.5 33.1 32.9 29.5 21.1

          20.9 22.0 21.4 20.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.4 21.4 21.9 21.1 20.9 29.5 33.0 32.9 33.9 33.4

          31.9 28.0 32.4 27.9
  15        1    2    3    4    5    6    7    8    9   10

          25.4 28.2 23.4 23.7 24.1 24.3 24.4 24.3 24.1 29.7

  16        1    2    3    4    5    6    7    8    9   10

          29.7 24.0 24.2 24.2 24.1 24.0 23.7 23.3 28.2 25.4

  17        1    2    3    4    5    6    7
          22.5 25.2 25.0 24.5 25.3 25.9 21.8
  18        1    2    3    4    5    6    7
          21.5 26.0 25.3 24.5 24.8 25.1 22.0
1

 RECEIVER    LEQ(H)   L10
 91           53.4   55.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           9.5 11.3 11.5 11.3 23.6 26.3
   2        1    2    3    4    5    6
          29.1 30.0 30.3 34.6 34.9 31.5
   3        1
          32.0
   4        1    2    3
          37.3 44.0 40.4
   5        1    2    3    4    5    6
          37.0 33.8 33.5 37.8 39.6 36.0
   6        1    2    3
          32.2 30.9 33.8
   7        1    2    3    4
          33.7 30.6 32.0 34.3
   8        1    2    3    4    5    6
          39.4 37.7 33.3 33.6 36.8 39.0
   9        1    2    3
          43.7 39.6 33.9
  10        1
          32.6
  11        1    2    3    4    5    6
          34.5 34.5 30.3 29.9 29.0 28.4
  12        1    2    3    4    5
          24.9 24.5 24.1 11.4  9.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.7 32.0 26.4 32.7 33.1 33.4 33.0 32.7 33.1 27.2

          20.2 21.2 20.8 19.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.9 20.7 21.0 20.5 27.4 33.0 32.9 32.8 33.8 33.3

          31.9 27.9 32.3 27.7
  15        1    2    3    4    5    6    7    8    9   10

          25.3 28.1 23.3 23.7 24.0 24.2 24.3 24.2 24.0 29.6

  16        1    2    3    4    5    6    7    8    9   10

          29.6 23.9 24.1 24.1 24.1 23.9 23.6 23.2 28.1 25.2

  17        1    2    3    4    5    6    7
          24.5 25.1 24.8 24.4 25.2 25.8 21.7
  18        1    2    3    4    5    6    7
          21.4 25.8 25.2 24.3 24.7 25.0 24.4
1

 RECEIVER    LEQ(H)   L10
 92           53.4   55.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          14.7 23.9 24.2 24.3 24.9 26.2
   2        1    2    3    4    5    6
          28.9 29.8 30.1 34.3 34.5 31.2
   3        1
          31.8
   4        1    2    3
          37.2 43.9 40.6
   5        1    2    3    4    5    6
          37.2 34.0 33.8 38.1 39.9 36.3
   6        1    2    3
          32.5 31.2 34.1
   7        1    2    3    4
          34.0 30.9 32.3 34.7
   8        1    2    3    4    5    6
          39.8 38.0 33.6 33.8 37.0 39.2
   9        1    2    3
          43.6 38.4 33.5
  10        1
          32.3
  11        1    2    3    4    5    6
          34.1 34.3 30.0 29.7 28.8 28.3
  12        1    2    3    4    5
          24.8 24.3 24.2 23.9 22.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.6 31.9 26.3 32.6 33.0 33.3 32.9 32.6 32.9 30.2

          19.6 20.5 20.1 19.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.3 20.0 20.3 19.9 30.3 32.9 32.7 32.7 33.7 33.1

          31.7 27.8 32.2 27.7
  15        1    2    3    4    5    6    7    8    9   10

          25.1 28.0 23.1 23.5 23.9 24.1 24.2 24.1 23.9 29.6

  16        1    2    3    4    5    6    7    8    9   10

          29.5 23.8 24.1 24.0 24.0 23.7 23.5 23.1 27.9 25.1

  17        1    2    3    4    5    6    7
          24.4 24.9 24.7 24.3 25.0 25.7 21.6
  18        1    2    3    4    5    6    7
          21.3 25.7 25.1 24.2 24.5 24.8 24.2
1

 RECEIVER    LEQ(H)   L10
 93           53.2   55.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          18.5 20.6 21.0 21.1 21.6 22.9
   2        1    2    3    4    5    6
          27.0 29.4 29.6 33.8 33.7 30.4
   3        1
          30.9
   4        1    2    3
          36.1 43.4 40.5
   5        1    2    3    4    5    6
          37.4 34.3 34.1 38.6 40.6 37.0
   6        1    2    3
          33.2 31.8 34.6
   7        1    2    3    4
          34.6 31.5 33.0 35.3
   8        1    2    3    4    5    6
          40.4 38.4 33.9 34.0 37.1 39.1
   9        1    2    3
          43.1 37.6 32.6
  10        1
          31.4
  11        1    2    3    4    5    6
          32.9 33.8 29.6 29.2 28.4 25.7
  12        1    2    3    4    5
          21.9 21.5 21.4 21.0 18.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.3 31.5 26.0 32.3 32.7 32.9 32.5 32.3 32.4 27.3

          18.5 19.3 18.9 18.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.1 18.8 19.2 18.8 27.8 32.4 32.4 32.3 33.4 32.8

          31.4 27.5 31.9 27.4
  15        1    2    3    4    5    6    7    8    9   10

          24.9 27.6 22.8 23.1 23.5 23.7 23.9 23.7 23.7 29.3

  16        1    2    3    4    5    6    7    8    9   10

          29.3 23.5 23.7 23.6 23.6 23.4 23.1 22.7 27.6 24.9

  17        1    2    3    4    5    6    7
          23.9 24.5 24.3 23.9 24.6 25.3 21.2
  18        1    2    3    4    5    6    7
          21.0 25.3 24.7 23.8 24.1 24.4 23.8
1

 RECEIVER    LEQ(H)   L10
 94           52.7   54.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           7.4  9.2 17.9 18.2 18.7 19.8
   2        1    2    3    4    5    6
          22.6 23.6 24.0 32.2 33.0 29.6
   3        1
          30.1
   4        1    2    3
          35.1 42.6 40.0
   5        1    2    3    4    5    6
          37.0 34.1 34.0 38.6 40.9 37.6
   6        1    2    3
          33.8 32.3 35.1
   7        1    2    3    4
          35.0 32.0 33.5 35.8
   8        1    2    3    4    5    6
          40.7 38.5 33.8 33.8 36.8 38.6
   9        1    2    3
          42.4 36.7 31.6
  10        1
          30.6
  11        1    2    3    4    5    6
          32.2 32.8 24.1 23.7 22.6 22.1
  12        1    2    3    4    5
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          18.7 18.3 18.2 17.9 15.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.0 31.2 25.7 31.9 32.4 32.6 32.2 29.2 27.2 23.5

          18.1 19.0 18.2 17.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.5 18.2 18.9 18.4 23.8 27.2 29.4 32.0 32.8 32.5

          31.1 27.2 31.6 27.0
  15        1    2    3    4    5    6    7    8    9   10

          24.5 27.2 22.4 22.8 23.1 23.2 23.4 23.4 23.2 28.9

  16        1    2    3    4    5    6    7    8    9   10

          28.9 23.1 23.3 23.2 23.1 23.0 22.7 22.3 27.2 24.5

  17        1    2    3    4    5    6    7
          18.3 20.3 23.8 23.5 23.5 24.9 20.9
  18        1    2    3    4    5    6    7
          20.6 24.9 23.7 23.4 23.7 19.9 18.1
1

 RECEIVER    LEQ(H)   L10
 95           52.0   54.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           7.2  8.9  9.1  8.9  8.9  9.8
   2        1    2    3    4    5    6
          13.6 21.2 22.0 27.0 29.0 29.1
   3        1
          29.5
   4        1    2    3
          34.4 41.9 39.3
   5        1    2    3    4    5    6
          36.5 33.6 33.6 38.3 40.8 37.7
   6        1    2    3
          34.0 32.6 35.3
   7        1    2    3    4
          35.3 32.3 33.7 36.0
   8        1    2    3    4    5    6
          40.6 38.1 33.4 33.3 36.2 37.9
   9        1    2    3
          41.7 36.1 31.1
  10        1
          30.0
  11        1    2    3    4    5    6
          29.2 27.0 22.3 21.6 18.2 13.3
  12        1    2    3    4    5
           9.0  9.0  9.2  9.0  7.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          26.7 29.9 23.5 31.5 32.1 28.2 26.9 26.4 24.3 18.3

          18.5 19.0 18.4 17.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.2 18.2 18.8 18.8 18.0 24.5 26.6 26.6 28.9 32.2

          30.9 24.9 30.3 26.8
  15        1    2    3    4    5    6    7    8    9   10

          24.2 26.1 22.1 22.5 22.8 23.0 23.1 23.0 22.9 28.6

  16        1    2    3    4    5    6    7    8    9   10

          28.6 22.8 23.0 22.9 22.8 22.7 22.4 21.9 26.5 24.2

  17        1    2    3    4    5    6    7
          15.9 17.5 17.9 17.9 19.0 24.3 20.6
  18        1    2    3    4    5    6    7
          20.3 24.1 19.0 17.8 17.7 17.4 15.6
1

 RECEIVER    LEQ(H)   L10
 96           51.0   53.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           7.4  9.0  9.1  8.8  8.8  9.5
   2        1    2    3    4    5    6
          11.7 12.4 14.6 23.1 26.7 28.4
   3        1
          28.9
   4        1    2    3
          32.9 40.4 38.5
   5        1    2    3    4    5    6
          35.7 32.8 32.8 37.6 40.3 37.4
   6        1    2    3
          33.8 32.5 35.3
   7        1    2    3    4
          35.2 32.2 33.5 35.7
   8        1    2    3    4    5    6
          40.1 37.5 32.6 32.6 35.5 37.1
   9        1    2    3
          40.3 33.3 30.4
  10        1
          29.3
  11        1    2    3    4    5    6
          27.0 23.9 14.7 13.3 11.8 11.8
  12        1    2    3    4    5
           8.9  8.9  9.1  9.0  7.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.2 26.0 20.4 26.5 26.8 26.6 25.1 20.7 19.0 18.8

          19.0 19.8 18.7 13.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.4 18.8 19.6 19.3 18.5 18.9 20.8 25.0 27.1 27.0

          25.7 21.9 26.4 22.8
  15        1    2    3    4    5    6    7    8    9   10

          19.0 21.8 17.3 22.0 22.5 22.6 22.8 22.7 22.6 28.3

  16        1    2    3    4    5    6    7    8    9   10

          28.3 22.5 22.7 22.6 22.4 22.4 22.1 17.5 21.8 19.0

  17        1    2    3    4    5    6    7
           8.6 10.9 15.1 16.1 17.7 18.9 15.3
  18        1    2    3    4    5    6    7
          15.0 18.9 17.6 16.0 14.6 10.8  8.3
1

 RECEIVER    LEQ(H)   L10
 97           50.2   52.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           7.9  9.4  9.4  9.0  9.0  9.4
   2        1    2    3    4    5    6
          11.5 12.0 12.5 18.3 24.7 27.9
   3        1
          28.5
   4        1    2    3
          31.8 37.9 37.9
   5        1    2    3    4    5    6
          35.1 32.3 32.3 37.1 39.9 37.2
   6        1    2    3
          33.7 32.4 35.2
   7        1    2    3    4
          35.1 32.1 33.4 35.4
   8        1    2    3    4    5    6
          39.7 37.0 32.1 32.1 34.9 36.6
   9        1    2    3
          37.9 32.4 29.8
  10        1
          27.8
  11        1    2    3    4    5    6
          25.3 19.1 13.6 12.1 11.6 11.6
  12        1    2    3    4    5
           8.8  8.9  9.3  9.3  7.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.5 25.7 20.1 26.1 26.1 25.2 21.4 19.8 19.1 19.4

          19.5 20.1 13.9 11.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          11.2 14.7 20.0 19.8 19.0 18.9 19.9 21.1 25.6 26.3

          25.3 21.6 26.0 21.6
  15        1    2    3    4    5    6    7    8    9   10

          18.5 21.6 16.6 17.1 17.9 21.5 22.6 22.5 22.4 28.1

  16        1    2    3    4    5    6    7    8    9   10

          28.1 22.3 22.5 22.4 21.5 17.8 17.1 16.6 21.5 18.5

  17        1    2    3    4    5    6    7
           7.8  9.9 10.9 11.5 16.5 18.0 14.6
  18        1    2    3    4    5    6    7
          14.3 17.8 16.4 10.9 10.8  9.8  7.7
1

 RECEIVER    LEQ(H)   L10
 98           49.8   51.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           9.1 10.8 10.7  9.8  9.6  9.9
   2        1    2    3    4    5    6
          11.7 12.1 12.1 18.2 22.5 27.6
   3        1
          28.2
   4        1    2    3
          31.6 37.8 37.3
   5        1    2    3    4    5    6
          34.6 31.7 31.8 36.6 39.5 36.9
   6        1    2    3
          33.5 32.3 35.2
   7        1    2    3    4
          35.1 31.9 33.2 35.2
   8        1    2    3    4    5    6
          39.3 36.5 31.6 31.6 34.4 36.0
   9        1    2    3
          37.9 32.5 29.5
  10        1
          27.5
  11        1    2    3    4    5    6
          23.5 18.6 12.3 12.2 11.8 12.1
  12        1    2    3    4    5
           9.4  9.7 10.2 10.5  9.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.5 25.5 19.9 26.1 25.6 22.9 22.0 19.6 19.9 20.2

          20.8 16.9 12.1 11.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          11.6 12.1 17.1 21.1 19.8 19.8 19.6 21.8 23.3 26.0

          25.2 21.5 25.9 21.6
  15        1    2    3    4    5    6    7    8    9   10

          18.4 21.4 16.6 17.2 17.8 19.1 20.8 22.3 22.2 27.9

  16        1    2    3    4    5    6    7    8    9   10

          27.9 22.1 22.2 20.6 19.0 17.7 17.1 16.5 21.4 18.4

  17        1    2    3    4    5    6    7
           8.1  8.9 11.3 11.7 13.0 17.2 14.5
  18        1    2    3    4    5    6    7
          14.2 16.7 13.0 11.6 11.1  8.9  8.0
1

 RECEIVER    LEQ(H)   L10
 99           49.4   51.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          10.5 12.2 11.0 10.7 10.6 10.2
   2        1    2    3    4    5    6
          11.9 12.0 11.9 17.5 19.8 26.7
```

```
  3        1
         27.9
  4        1    2    3
         32.0 36.7 36.8
  5        1    2    3    4    5    6
         34.1 31.3 31.3 36.2 39.1 36.6
  6        1    2    3
         33.3 32.1 35.1
  7        1    2    3    4
         35.0 31.8 33.0 34.9
  8        1    2    3    4    5    6
         38.9 36.1 31.2 31.1 33.9 35.5
  9        1    2    3
         36.7 32.8 28.9
 10        1
         26.6
 11        1    2    3    4    5    6
         21.0 18.1 12.1 12.1 11.9 12.3
 12        1    2    3    4    5
          9.8 10.7 11.1 11.0 10.5
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         21.2 25.4 19.8 25.7 23.3 23.4 21.2 19.7 20.5 20.6

         16.4 13.0 12.4 11.9
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         11.9 12.3 12.8 17.0 20.4 20.4 19.8 20.9 23.8 23.6

         24.9 21.3 25.7 21.3
 15        1    2    3    4    5    6    7    8    9   10

         16.1 21.0 16.4 16.8 17.4 18.6 19.7 20.6 22.0 27.7

 16        1    2    3    4    5    6    7    8    9   10

         27.7 21.9 20.6 19.5 18.5 17.3 16.8 16.3 21.0 16.5

 17        1    2    3    4    5    6    7
          8.2  8.9  9.6 12.0 13.3 14.4 13.0
 18        1    2    3    4    5    6    7
         12.2 14.4 13.3 12.0  9.1  8.9  8.1
1

RECEIVER    LEQ(H)   L10
100          49.1   51.3

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
          8.7 10.5 10.7 10.5 10.7 11.5
  2        1    2    3    4    5    6
         12.4 12.3 12.0 17.0 19.8 25.7
  3        1
         27.6
  4        1    2    3
         31.9 36.9 36.4
  5        1    2    3    4    5    6
         33.6 30.8 30.9 35.8 38.8 36.4
  6        1    2    3
         33.1 32.0 35.0
  7        1    2    3    4
         34.9 31.6 32.8 34.6
  8        1    2    3    4    5    6
         38.6 35.7 30.7 30.7 33.5 35.1
  9        1    2    3
         37.0 33.1 28.7
 10        1
         25.9
 11        1    2    3    4    5    6
         20.0 17.7 12.2 12.3 12.3 13.2
 12        1    2    3    4    5
         10.7 10.5 10.7 10.5  8.8
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         21.2 25.3 19.7 24.2 24.2 24.0 20.9 19.9 19.9 19.3

         13.2 13.5 12.9 12.4
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         12.4 12.9 13.3 13.5 19.3 19.8 20.0 20.7 24.4 24.3

         23.1 21.2 25.6 21.3
 15        1    2    3    4    5    6    7    8    9   10

         15.8 20.4 16.2 16.7 17.6 19.0 21.0 21.5 21.8 27.5

 16        1    2    3    4    5    6    7    8    9   10

         27.5 21.6 21.7 20.9 19.0 17.5 16.8 16.1 20.5 15.8

 17        1    2    3    4    5    6    7
          8.7  9.1  9.4 11.2 14.2 15.2 11.6
 18        1    2    3    4    5    6    7
         11.4 15.3 14.3 10.6  9.3  9.1  8.7
1

RECEIVER    LEQ(H)   L10
101          48.8   50.9

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
          2.7  8.8 11.2 11.0 11.2 11.9
  2        1    2    3    4    5    6
         13.6 12.3 11.8 16.1 19.9 24.5
  3        1
         27.2
  4        1    2    3
         31.5 36.5 35.9
  5        1    2    3    4    5    6
         33.3 30.5 30.5 35.4 38.5 36.1
  6        1    2    3
         32.9 31.8 34.9
  7        1    2    3    4
         34.8 31.5 32.6 34.4
  8        1    2    3    4    5    6
         38.3 35.3 30.3 30.3 33.1 34.7
  9        1    2    3
         36.3 32.6 28.0
 10        1
         24.7
 11        1    2    3    4    5    6
         20.0 17.0 12.0 12.3 12.8 14.0
 12        1    2    3    4    5

         11.1 11.0 11.2 11.1  7.5
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         21.0 24.6 18.0 24.1 24.5 23.1 20.5 20.3 20.7 17.3

         13.4 13.7 13.1 12.6
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         12.6 13.0 13.5 13.7 17.3 20.6 20.4 20.3 23.6 24.5

         23.2 19.4 25.1 21.1
 15        1    2    3    4    5    6    7    8    9   10

         16.0 19.4 16.1 16.4 17.2 18.3 19.8 20.6 21.6 27.3

 16        1    2    3    4    5    6    7    8    9   10

         27.3 21.5 20.6 20.3 18.3 17.0 16.4 16.0 19.5 15.9

 17        1    2    3    4    5    6    7
          8.9  9.2  9.3  9.7 13.9 15.5 11.8
 18        1    2    3    4    5    6    7
         11.6 15.5 13.7  9.5  9.2  9.2  8.9
1

RECEIVER    LEQ(H)   L10
102          48.5   50.6

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
          2.6  4.4  4.5  4.9 11.5 12.2
  2        1    2    3    4    5    6
         14.5 12.6 11.9 15.5 19.6 24.1
  3        1
         27.0
  4        1    2    3
         31.0 36.1 35.6
  5        1    2    3    4    5    6
         33.0 30.2 30.2 35.1 38.2 35.9
  6        1    2    3
         32.7 31.7 34.8
  7        1    2    3    4
         34.7 31.4 32.5 34.2
  8        1    2    3    4    5    6
         38.0 35.0 30.1 30.0 32.8 34.3
  9        1    2    3
         36.0 32.1 27.6
 10        1
         23.7
 11        1    2    3    4    5    6
         19.8 16.1 12.0 12.3 14.0 14.4
 12        1    2    3    4    5
         11.5 11.5  5.6  4.5  2.7
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         20.9 23.9 18.1 24.3 23.2 21.6 21.2 20.9 20.9 13.8

         13.6 13.9 13.3 12.8
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         12.7 13.2 13.7 13.9 13.5 20.8 21.0 20.9 22.0 23.5

         23.4 19.6 24.4 20.9
 15        1    2    3    4    5    6    7    8    9   10

         15.5 18.8 15.9 16.3 16.9 17.9 19.2 20.4 21.5 27.2

 16        1    2    3    4    5    6    7    8    9   10

         27.2 21.3 20.5 19.8 17.9 16.8 16.3 15.8 18.9 15.8

 17        1    2    3    4    5    6    7
          9.5  9.4  9.3  9.7 11.5 14.4 12.0
 18        1    2    3    4    5    6    7
         11.8 14.2 11.5  9.6  9.1  9.4  9.5
1

RECEIVER    LEQ(H)   L10
103          48.2   50.3

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
          2.9  4.6  4.6  4.4  4.6  9.1
  2        1    2    3    4    5    6
         14.7 13.6 11.8 15.4 19.3 22.9
  3        1
         26.7
  4        1    2    3
         30.5 35.8 35.2
  5        1    2    3    4    5    6
         32.7 29.9 29.9 34.8 37.9 35.7
  6        1    2    3
         32.6 31.6 34.7
  7        1    2    3    4
         34.6 31.2 32.3 34.0
  8        1    2    3    4    5    6
         37.7 34.7 29.8 29.7 32.5 34.0
  9        1    2    3
         35.6 31.4 27.2
 10        1
         22.8
 11        1    2    3    4    5    6
         19.7 15.6 11.9 12.8 14.7 14.5
 12        1    2    3    4    5
          4.6  4.4  4.7  4.6  2.9
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         20.0 24.0 15.8 21.7 21.9 22.0 21.5 21.4 19.2 13.9

         13.8 14.1 13.5 13.0
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
         12.9 13.4 13.9 14.1 13.6 19.2 21.5 21.2 22.4 22.0

         20.8 17.2 24.3 20.1
 15        1    2    3    4    5    6    7    8    9   10

         13.7 17.8 14.8 16.2 16.7 17.5 18.5 20.2 21.3 27.1

 16        1    2    3    4    5    6    7    8    9   10
```

```
          27.0 21.2 20.2 19.0 17.5 16.6 16.2 14.9 18.0 13.7

   17       1    2    3    4    5    6    7
           10.3  9.5  9.4  9.7 11.4 13.3  9.6
   18       1    2    3    4    5    6    7
            9.4 13.2 11.3  9.6  9.3  9.5 10.3
1

 RECEIVER    LEQ(H)   L10
 104          47.9   50.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
            2.9  4.6  4.7  4.5  4.6  5.3
    2       1    2    3    4    5    6
           10.9 14.5 11.7 15.2 18.7 20.8
    3       1
           26.4
    4       1    2    3
           29.5 35.4 34.6
    5       1    2    3    4    5    6
           32.3 29.5 29.6 34.5 37.6 35.4
    6       1    2    3
           32.4 31.4 34.6
    7       1    2    3    4
           34.5 31.1 32.1 33.7
    8       1    2    3    4    5    6
           37.5 34.4 29.5 29.4 32.2 33.4
    9       1    2    3
           35.2 30.5 26.5
   10       1
           21.5
   11       1    2    3    4    5    6
           19.1 15.4 11.9 13.8 13.4  7.5
   12       1    2    3    4    5
            4.5  4.5  4.7  4.7  3.0
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
           17.4 21.4 15.8 21.8 22.2 22.1 21.7 21.7 14.4 14.0

           13.9 14.2 13.6 13.0
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
           13.0 13.5 14.1 14.2 13.7 14.4 21.8 21.3 22.4 22.3

           20.9 17.2 21.8 17.5
   15       1    2    3    4    5    6    7    8    9   10

           13.8 16.3 12.3 15.5 16.4 17.0 17.6 19.3 21.2 26.9

   16       1    2    3    4    5    6    7    8    9   10

           26.9 21.1 19.3 18.0 16.9 16.3 15.6 12.5 16.3 13.8

   17       1    2    3    4    5    6    7
           10.4  9.5  9.4  9.5 11.3 13.1  9.7
   18       1    2    3    4    5    6    7
            9.5 13.0 11.3  9.5  9.3  9.6 10.2
1

 RECEIVER    LEQ(H)   L10
 105          47.0   49.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
            5.0  6.7  6.7  6.3  6.5  7.0
    2       1    2    3    4    5    6
            9.1  9.3  9.1 16.1 17.9 22.7
    3       1
           23.8
    4       1    2    3
           24.9 34.5 33.1
    5       1    2    3    4    5    6
           31.9 29.0 29.0 33.8 36.7 34.3
    6       1    2    3
           31.2 30.2 33.4
    7       1    2    3    4
           33.3 29.9 30.9 32.6
    8       1    2    3    4    5    6
           36.5 33.7 28.9 28.8 31.7 32.4
    9       1    2    3
           34.9 25.1 22.8
   10       1
           22.6
   11       1    2    3    4    5    6
           19.0 16.7  9.2  9.3  9.0  9.2
   12       1    2    3    4    5
            6.4  6.4  6.7  6.7  5.1
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
           20.7 24.4 18.5 24.3 24.5 24.6 16.2 16.0 16.3 16.2

           16.0 16.9 17.4 16.7
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
           16.9 17.3 16.6 16.3 15.9 16.2 16.0 15.9 24.8 24.5

           23.5 19.9 24.8 20.8
   15       1    2    3    4    5    6    7    8    9   10

           15.9 19.2 15.1 15.5 15.8 16.0 16.2 16.2 16.2 22.0

   16       1    2    3    4    5    6    7    8    9   10

           22.0 16.1 16.1 16.0 15.9 15.7 15.5 15.0 19.2 16.0

   17       1    2    3    4    5    6    7
            5.3  5.7  7.7 12.0 13.4 14.8 11.5
   18       1    2    3    4    5    6    7
           11.2 14.7 13.5 11.9  6.5  5.7  5.2
1

 RECEIVER    LEQ(H)   L10
 106          47.6   49.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
            5.1  6.9  6.9  6.6  6.6  7.4
    2       1    2    3    4    5    6
            9.5  9.6 13.9 17.0 20.0 23.4

    3       1
           25.2
    4       1    2    3
           26.9 35.9 35.4
    5       1    2    3    4    5    6
           32.4 29.4 29.4 34.2 37.0 34.6
    6       1    2    3
           31.4 30.4 33.6
    7       1    2    3    4
           33.5 30.1 31.1 32.9
    8       1    2    3    4    5    6
           36.9 34.1 29.3 29.3 32.2 34.1
    9       1    2    3
           36.1 26.8 24.3
   10       1
           23.3
   11       1    2    3    4    5    6
           21.0 17.3 14.7  9.7  9.3  9.4
   12       1    2    3    4    5
            6.6  6.6  6.9  6.9  5.2
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
           20.9 25.2 18.9 24.9 24.9 25.1 23.8 16.1 16.5 16.3

           16.2 16.4 15.8 16.5
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
           16.2 15.7 16.3 16.5 15.9 16.4 16.2 23.6 25.5 25.0

           24.0 20.4 25.5 21.1
   15       1    2    3    4    5    6    7    8    9   10

           16.5 20.1 15.8 16.1 16.5 16.5 16.7 16.7 16.6 22.3

   16       1    2    3    4    5    6    7    8    9   10

           22.3 16.5 16.7 16.5 16.5 16.4 16.1 15.7 20.1 16.6

   17       1    2    3    4    5    6    7
            5.5 10.0 12.3 12.3 13.9 15.4 12.1
   18       1    2    3    4    5    6    7
           11.9 15.4 13.9 12.3 12.2  9.5  5.4
1

 RECEIVER    LEQ(H)   L10
 107          48.2   50.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
            5.3  7.0  7.0  6.7  6.9  7.5
    2       1    2    3    4    5    6
            9.6 17.7 14.9 17.7 22.0 24.2
    3       1
           26.5
    4       1    2    3
           29.1 36.7 35.9
    5       1    2    3    4    5    6
           32.8 29.9 29.9 34.6 37.4 34.8
    6       1    2    3
           31.6 30.5 33.7
    7       1    2    3    4
           33.6 30.2 31.3 33.1
    8       1    2    3    4    5    6
           37.2 34.6 29.7 29.8 32.7 34.6
    9       1    2    3
           36.8 28.9 26.1
   10       1
           24.2
   11       1    2    3    4    5    6
           22.8 17.9 14.6 18.3  9.6  9.7
   12       1    2    3    4    5
            6.8  6.8  7.0  7.0  5.3
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
           21.2 25.5 20.0 25.7 25.5 25.4 25.2 23.1 16.6 16.4

           16.3 16.6 16.0 15.4
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
           15.4 15.9 16.5 16.6 16.1 16.6 23.4 24.9 25.8 25.6

           24.8 21.4 25.8 21.3
   15       1    2    3    4    5    6    7    8    9   10

           17.1 21.0 16.4 16.7 16.9 17.0 17.1 17.1 17.0 22.9

   16       1    2    3    4    5    6    7    8    9   10

           22.9 16.9 17.1 16.9 16.9 16.8 16.6 16.2 21.1 17.2

   17       1    2    3    4    5    6    7
           10.5 14.5 12.6 12.8 14.5 16.2 12.9
   18       1    2    3    4    5    6    7
           12.6 16.2 14.3 12.8 12.6 14.8  9.0
1

 RECEIVER    LEQ(H)   L10
 108          48.8   50.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
            5.4  7.1  7.1  6.9  7.0  7.8
    2       1    2    3    4    5    6
           19.6 19.5 14.8 18.2 23.6 25.0
    3       1
           27.6
    4       1    2    3
           30.9 38.0 36.4
    5       1    2    3    4    5    6
           33.3 30.4 30.3 35.0 37.7 35.1
    6       1    2    3
           31.8 30.7 33.8
    7       1    2    3    4
           33.6 30.4 31.5 33.4
    8       1    2    3    4    5    6
           37.6 34.9 30.2 30.2 33.1 35.0
    9       1    2    3
           37.9 31.1 28.3
   10       1
           25.1
   11       1    2    3    4    5    6
           24.3 18.5 15.0 18.3 20.6 16.0
   12       1    2    3    4    5
```

```
          6.9  6.9  7.1  7.1  5.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.5 25.7 20.2 26.4 25.9 25.7 25.3 26.0 22.1 16.4

          16.3 16.6 16.0 15.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.4 15.9 16.4 16.6 16.2 22.1 26.0 25.0 26.1 26.1

          25.5 21.7 26.1 21.6
  15        1    2    3    4    5    6    7    8    9   10

          18.2 21.5 16.6 16.9 17.2 17.3 17.5 17.5 17.6 24.0

  16        1    2    3    4    5    6    7    8    9   10

          24.0 17.5 17.5 17.3 17.2 17.1 16.9 16.5 21.4 18.4

  17        1    2    3    4    5    6    7
          16.3 13.0 13.0 13.3 15.1 16.8 15.1
  18        1    2    3    4    5    6    7
          14.6 16.7 15.1 13.1 12.8 13.1 16.4
1

 RECEIVER    LEQ(H)   L10
 109          49.8   51.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           5.7 11.4 18.2 18.3 18.6 19.5
   2        1    2    3    4    5    6
          22.1 16.1 15.5 19.2 25.6 26.5
   3        1
          29.3
   4        1    2    3
          33.3 40.0 37.0
   5        1    2    3    4    5    6
          33.9 30.9 30.9 35.5 38.1 35.3
   6        1    2    3
          31.9 30.8 33.8
   7        1    2    3    4
          33.7 30.5 31.6 33.6
   8        1    2    3    4    5    6
          37.9 35.5 30.7 30.7 33.8 35.7
   9        1    2    3
          39.9 34.4 31.2
  10        1
          26.6
  11        1    2    3    4    5    6
          26.4 19.6 15.8 16.1 20.6 21.8
  12        1    2    3    4    5
          18.6 18.3 18.3 18.0  7.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.0 26.9 21.2 27.2 27.2 26.4 25.7 25.6 27.1 22.3

          16.5 16.7 16.2 15.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.6 16.1 16.6 16.8 22.5 27.1 25.6 25.4 26.8 27.4

          26.4 22.7 27.3 23.1
  15        1    2    3    4    5    6    7    8    9   10

          19.5 22.2 17.4 18.0 18.7 19.4 20.0 21.3 22.4 28.1

  16        1    2    3    4    5    6    7    8    9   10

          28.1 22.3 21.3 19.8 19.3 18.7 18.0 17.3 22.2 19.5

  17        1    2    3    4    5    6    7
          15.0 13.6 13.7 14.2 16.1 19.2 15.7
  18        1    2    3    4    5    6    7
          15.5 19.1 15.8 14.1 13.6 13.6 15.2
1

 RECEIVER    LEQ(H)   L10
 110          50.7   52.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          17.0 18.9 19.2 19.2 19.2 18.5
   2        1    2    3    4    5    6
          17.2 17.0 16.6 20.6 28.2 29.3
   3        1
          30.2
   4        1    2    3
          35.0 41.0 37.6
   5        1    2    3    4    5    6
          34.5 31.5 31.4 35.9 38.3 35.3
   6        1    2    3
          31.9 30.7 33.7
   7        1    2    3    4
          33.6 30.4 31.6 33.7
   8        1    2    3    4    5    6
          38.2 35.9 31.2 31.3 34.3 36.3
   9        1    2    3
          40.8 37.1 32.4
  10        1
          29.1
  11        1    2    3    4    5    6
          28.3 22.8 17.0 17.1 17.1 19.1
  12        1    2    3    4    5
          18.0 18.9 19.3 19.0 17.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          26.0 29.5 23.7 29.8 30.1 28.4 26.5 26.1 27.2 27.6

          24.1 17.0 16.5 15.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.9 16.4 17.0 25.0 27.4 27.1 26.2 26.2 28.8 30.2

          28.8 25.1 29.9 26.1
  15        1    2    3    4    5    6    7    8    9   10

          21.1 23.6 19.3 20.4 22.8 23.0 23.1 23.0 22.8 28.5

  16        1    2    3    4    5    6    7    8    9   10

          28.5 22.7 23.0 22.9 22.9 22.8 20.4 19.2 23.6 21.1

  17        1    2    3    4    5    6    7
          13.9 14.6 15.0 15.6 18.9 20.9 17.1
  18        1    2    3    4    5    6    7
          16.9 20.9 18.5 15.5 14.8 14.6 13.8
1

 RECEIVER    LEQ(H)   L10
 111          51.2   53.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          18.9 20.9 21.2 21.1 18.9 19.3
   2        1    2    3    4    5    6
          17.9 17.9 17.5 21.6 29.5 30.5
   3        1
          30.9
   4        1    2    3
          37.1 41.5 37.9
   5        1    2    3    4    5    6
          34.7 31.6 31.4 35.9 38.1 35.1
   6        1    2    3
          31.5 30.3 33.3
   7        1    2    3    4
          33.2 30.0 31.3 33.4
   8        1    2    3    4    5    6
          38.0 35.8 31.3 31.4 34.5 36.6
   9        1    2    3
          41.2 37.6 32.9
  10        1
          30.3
  11        1    2    3    4    5    6
          29.8 22.9 17.9 18.0 18.0 19.0
  12        1    2    3    4    5
          18.9 18.8 21.0 21.2 19.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.2 31.4 25.9 32.2 32.7 28.7 27.1 26.7 27.5 29.3

          27.3 17.4 16.8 16.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          16.2 16.7 17.3 27.8 29.1 27.3 26.8 26.8 29.4 32.8

          31.4 27.5 31.8 27.3
  15        1    2    3    4    5    6    7    8    9   10

          23.8 25.6 20.9 22.3 23.1 23.2 23.5 23.4 23.2 28.8

  16        1    2    3    4    5    6    7    8    9   10

          28.7 23.1 23.3 23.3 23.1 23.1 22.3 20.9 25.7 23.6

  17        1    2    3    4    5    6    7
          14.8 15.5 15.9 16.3 19.5 22.8 19.1
  18        1    2    3    4    5    6    7
          18.9 22.9 19.0 16.2 15.7 15.5 14.7
1

 RECEIVER    LEQ(H)   L10
 112          51.0   52.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          19.5 21.3 21.5 21.4 21.8 22.7
   2        1    2    3    4    5    6
          24.8 18.8 18.2 22.0 28.6 31.4
   3        1
          31.2
   4        1    2    3
          37.5 41.6 37.8
   5        1    2    3    4    5    6
          34.3 31.2 31.0 35.4 37.5 34.4
   6        1    2    3
          30.8 29.6 32.8
   7        1    2    3    4
          32.7 29.4 30.6 32.7
   8        1    2    3    4    5    6
          37.4 35.3 30.8 31.0 34.1 36.4
   9        1    2    3
          41.3 37.9 32.0
  10        1
          31.5
  11        1    2    3    4    5    6
          29.2 22.4 18.5 18.8 23.0 25.1
  12        1    2    3    4    5
          21.9 21.8 21.8 21.5 19.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.4 31.8 26.2 31.8 28.0 28.1 27.6 27.4 31.4 30.3

          17.5 17.7 17.2 16.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          16.7 17.1 17.7 19.7 30.3 31.3 27.5 27.4 28.5 28.1

          31.2 27.7 32.1 27.6
  15        1    2    3    4    5    6    7    8    9   10

          21.5 27.8 23.0 23.3 23.6 23.7 23.8 23.6 23.5 28.9

  16        1    2    3    4    5    6    7    8    9   10

          28.9 23.3 23.6 23.5 23.6 23.5 23.3 22.9 27.7 22.1

  17        1    2    3    4    5    6    7
          17.4 16.3 16.5 16.7 18.5 19.9 19.6
  18        1    2    3    4    5    6    7
          18.6 19.9 18.6 16.6 16.4 16.4 17.6
1

 RECEIVER    LEQ(H)   L10
 113          49.8   51.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           6.6  8.4  8.6  8.6  9.0 20.9
   2        1    2    3    4    5    6
          25.3 24.8 18.7 22.1 23.0 32.0
```

```
  3        1
          31.5
  4        1    2    3
          33.4 39.2 37.4
  5        1    2    3    4    5    6
          33.9 30.7 30.5 34.9 36.9 33.7
  6        1    2    3
          30.3 29.1 32.2
  7        1    2    3    4
          32.2 28.9 30.1 32.1
  8        1    2    3    4    5    6
          36.8 34.8 30.3 30.6 33.7 36.1
  9        1    2    3
          39.3 33.3 32.3
 10        1
          33.8
 11        1    2    3    4    5    6
          26.1 22.3 18.9 23.5 25.4 25.1
 12        1    2    3    4    5
          17.5  8.7  8.7  8.4  6.6
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          26.8 26.9 21.4 27.7 28.1 28.3 28.0 31.3 29.5 17.7

          17.5 17.8 17.3 16.8
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          16.8 17.2 17.7 17.8 17.3 29.9 31.4 27.8 28.7 28.2

          26.9 23.0 27.3 27.6
 15        1    2    3    4    5    6    7    8    9   10

          20.1 24.6 23.2 23.5 23.8 23.9 23.9 23.8 23.6 29.1

 16        1    2    3    4    5    6    7    8    9   10

          29.0 23.4 23.7 23.7 23.8 23.7 23.5 23.1 24.8 20.1

 17        1    2    3    4    5    6    7
          21.2 17.0 16.8 17.1 18.5 19.8 16.2
 18        1    2    3    4    5    6    7
          16.0 19.7 18.5 17.1 16.8 17.3 21.2
1

 RECEIVER    LEQ(H)   L10
 114          48.2   50.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           6.6  8.5  8.6  8.5  8.8  9.6
   2        1    2    3    4    5    6
          12.1 12.6 22.3 22.0 22.7 29.9
   3        1
          31.8
   4        1    2    3
          32.6 35.3 34.4
   5        1    2    3    4    5    6
          32.5 30.2 30.1 34.4 36.5 33.3
   6        1    2    3
          29.3 25.7 28.4
   7        1    2    3    4
          28.7 25.9 29.5 31.7
   8        1    2    3    4    5    6
          36.3 34.4 30.0 30.1 32.8 33.5
   9        1    2    3
          35.3 32.1 33.0
  10        1
          32.2
  11        1    2    3    4    5    6
          23.0 22.3 21.5 17.9 12.0 11.8
  12        1    2    3    4    5
           8.7  8.5  8.6  8.4  6.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.8 27.0 21.5 27.8 28.3 28.5 29.4 17.4 17.8 17.6

          17.5 17.9 17.4 16.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          16.9 17.3 17.8 17.8 17.4 17.7 17.6 29.5 28.9 28.3

          26.9 23.0 27.4 22.9
  15        1    2    3    4    5    6    7    8    9   10

          20.1 22.8 18.1 21.7 23.9 24.0 24.1 23.8 23.6 29.1

  16        1    2    3    4    5    6    7    8    9   10

          29.0 23.4 23.8 23.8 23.9 23.8 21.9 18.0 22.8 20.1

  17        1    2    3    4    5    6    7
           8.0 18.0 17.3 17.3 18.7 19.8 16.1
  18        1    2    3    4    5    6    7
          15.9 19.8 18.7 17.3 17.2 17.5  7.9
1

 RECEIVER    LEQ(H)   L10
 115          44.6   46.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          15.8 17.7 18.1 18.0 18.3 18.9
   2        1    2    3    4    5    6
          18.6 16.4 15.4 17.6 17.9 18.6
   3        1
          29.3
   4        1    2    3
          31.5 31.9 30.1
   5        1    2    3    4    5    6
          27.1 23.7 23.4 27.7 29.6 26.2
   6        1    2    3
          23.3 22.5 26.0
   7        1    2    3    4
          26.0 22.3 23.1 24.7
   8        1    2    3    4    5    6
          29.7 27.7 23.4 23.7 27.2 28.8
   9        1    2    3
          31.9 33.2 31.1
  10        1
          18.9
  11        1    2    3    4    5    6
          18.0 17.7 15.1 16.4 16.6 21.5
  12        1    2    3    4    5

          18.5 18.4 18.4 18.0 16.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.3 21.5 15.9 22.1 22.7 23.0 22.6 26.2 28.0 26.7

          25.5 25.1 25.2 21.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.2 25.3 24.9 25.8 26.4 28.0 26.2 22.4 23.4 22.7

          21.3 17.4 21.8 17.3
  15        1    2    3    4    5    6    7    8    9   10

          14.0 15.7 10.5 10.7 11.0 11.1 11.3 16.9 19.9 28.3

  16        1    2    3    4    5    6    7    8    9   10

          28.2 19.8 16.5 11.1 11.1 10.9 10.7 10.4 15.7 14.1

  17        1    2    3    4    5    6    7
          12.3 12.6 12.0 11.3 12.6 13.5  9.8
  18        1    2    3    4    5    6    7
           9.6 13.5 12.6 11.3 12.0 12.6 12.9
1

 RECEIVER    LEQ(H)   L10
 116          44.6   46.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          11.2 12.9 12.9 12.7 12.6 13.4
   2        1    2    3    4    5    6
          15.5 14.9 13.8 17.1 17.7 21.8
   3        1
          30.2
   4        1    2    3
          30.6 33.2 30.8
   5        1    2    3    4    5    6
          27.0 23.8 23.6 28.1 30.1 27.2
   6        1    2    3
          24.1 23.2 27.0
   7        1    2    3    4
          27.1 23.0 23.9 25.7
   8        1    2    3    4    5    6
          30.1 28.0 23.5 23.7 27.0 29.8
   9        1    2    3
          33.2 31.5 32.0
  10        1
          24.0
  11        1    2    3    4    5    6
          17.8 17.2 13.9 14.6 15.5 15.5
  12        1    2    3    4    5
          12.6 12.7 12.9 12.9 11.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.0 21.0 15.4 21.7 22.3 22.7 22.4 22.2 22.6 23.9

          25.5 24.7 25.9 24.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          26.6 23.3 24.5 25.8 23.1 22.5 22.3 22.1 23.0 22.3

          20.8 16.9 21.4 17.0
  15        1    2    3    4    5    6    7    8    9   10

          13.5 15.4 10.3 10.6 17.6 18.8 19.8 23.1 22.8 28.2

  16        1    2    3    4    5    6    7    8    9   10

          28.2 22.7 23.0 19.4 18.7 17.6 10.6 10.3 15.4 13.5

  17        1    2    3    4    5    6    7
          11.6 11.1 10.9 10.8 12.0 13.0  9.2
  18        1    2    3    4    5    6    7
           9.0 13.0 12.0 10.7 10.8 11.2 11.5
1

 RECEIVER    LEQ(H)   L10
 117          45.1   46.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          10.8 12.5 12.5 12.2 12.2 12.9
   2        1    2    3    4    5    6
          14.2 13.9 13.5 16.9 19.2 25.5
   3        1
          30.0
   4        1    2    3
          30.7 34.4 30.8
   5        1    2    3    4    5    6
          27.3 24.1 23.9 28.4 30.7 27.9
   6        1    2    3
          24.9 24.8 29.8
   7        1    2    3    4
          31.7 24.5 24.9 26.3
   8        1    2    3    4    5    6
          30.6 28.4 23.8 24.0 27.2 29.7
   9        1    2    3
          34.4 30.4 31.4
  10        1
          27.9
  11        1    2    3    4    5    6
          19.9 17.0 13.5 13.8 13.9 15.0
  12        1    2    3    4    5
          12.2 12.2 12.6 12.5 10.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          16.8 20.8 15.3 21.4 21.8 22.3 22.0 21.9 22.3 22.1

          21.9 24.2 23.1 27.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.6 22.9 23.9 22.2 21.8 22.2 22.0 21.7 22.6 21.9

          20.6 16.7 21.2 16.9
  15        1    2    3    4    5    6    7    8    9   10

          13.2 17.3 17.5 17.9 18.4 21.2 23.1 22.9 22.7 28.1

  16        1    2    3    4    5    6    7    8    9   10
```

```
          28.1 22.6 22.8 22.9 21.2 18.3 17.8 17.5 17.7 13.3

  17        1    2    3    4    5    6    7
           10.2 10.6 10.5 10.4 11.6 12.6  9.0
  18        1    2    3    4    5    6    7
            8.7 12.6 11.6 10.4 10.4 10.6 10.2
1

 RECEIVER    LEQ(H)   L10
 118          46.2   48.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
            10.7 12.3 12.3 12.0 11.8 11.6
   2         1    2    3    4    5    6
            13.5 13.7 13.4 16.9 21.4 27.3
   3         1
            29.9
   4         1    2    3
            31.2 36.0 31.7
   5         1    2    3    4    5    6
            28.0 24.9 24.7 29.2 31.6 29.5
   6         1    2    3
            27.4 28.8 32.2
   7         1    2    3    4
            32.1 28.5 27.5 28.0
   8         1    2    3    4    5    6
            31.6 29.4 24.8 24.9 28.0 30.7
   9         1    2    3
            35.9 31.3 31.1
  10         1
            29.8
  11         1    2    3    4    5    6
            22.1 17.1 13.5 13.7 13.5 13.8
  12         1    2    3    4    5
            11.4 12.1 12.3 12.3 10.7
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
            23.7 27.3 21.7 25.1 21.8 22.0 21.8 21.6 22.1 22.0

            21.7 21.9 22.1 21.8
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
            21.8 21.8 21.8 22.1 21.7 22.0 21.7 21.5 22.4 21.9

            24.1 23.1 27.6 23.8
  15         1    2    3    4    5    6    7    8    9   10

            13.4 22.3 17.5 18.0 21.8 23.0 23.0 22.7 22.6 28.1

  16         1    2    3    4    5    6    7    8    9   10

            28.1 22.4 22.7 22.8 22.8 21.7 18.0 17.4 22.3 14.5

  17         1    2    3    4    5    6    7
             9.8 10.4 10.3 10.3 11.6 12.7 10.8
  18         1    2    3    4    5    6    7
             8.9 12.6 11.9 10.2 10.3 10.4  9.8
1

 RECEIVER    LEQ(H)   L10
 119          47.0   48.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
            10.2 11.7 11.7 10.8 10.7 11.1
   2         1    2    3    4    5    6
            13.0 13.2 13.0 18.8 21.4 28.1
   3         1
            29.3
   4         1    2    3
            32.4 35.3 31.7
   5         1    2    3    4    5    6
            28.7 25.6 25.5 30.6 34.3 33.7
   6         1    2    3
            30.3 29.3 32.5
   7         1    2    3    4
            32.4 29.0 30.1 32.0
   8         1    2    3    4    5    6
            34.6 30.8 25.7 25.8 28.7 30.6
   9         1    2    3
            35.4 32.1 29.9
  10         1
            30.8
  11         1    2    3    4    5    6
            21.9 19.5 13.1 13.2 13.0 13.3
  12         1    2    3    4    5
            10.7 11.0 11.5 11.7 10.2
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
            23.6 27.2 21.4 27.3 27.3 21.6 21.2 21.1 21.5 21.5

            21.3 21.4 20.9 21.1
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
            21.0 20.7 21.3 21.6 21.1 21.4 21.2 20.9 22.0 27.6

            26.5 22.8 27.6 23.6
  15         1    2    3    4    5    6    7    8    9   10

            19.4 22.0 17.2 22.0 22.6 22.7 22.7 22.6 22.4 27.9

  16         1    2    3    4    5    6    7    8    9   10

            27.9 22.3 22.6 22.6 22.6 22.5 22.1 17.2 22.0 19.5

  17         1    2    3    4    5    6    7
             9.4  9.9  9.8 10.0 15.1 19.7 15.7
  18         1    2    3    4    5    6    7
            15.5 19.8 14.1 10.2  9.7  9.9  9.3
1

 RECEIVER    LEQ(H)   L10
 120          45.5   47.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
             9.2 10.9 10.8 10.5 10.5 10.9
   2         1    2    3    4    5    6
            12.1 12.2 11.8 15.4 19.6 26.7
   3         1
            27.9
   4         1    2    3
            30.6 33.0 29.7
   5         1    2    3    4    5    6
            26.8 23.9 23.8 28.5 32.8 33.4
   6         1    2    3
            30.2 29.2 32.5
   7         1    2    3    4
            32.4 28.9 30.0 31.8
   8         1    2    3    4    5    6
            32.8 28.5 23.8 23.8 26.7 28.5
   9         1    2    3
            33.0 29.9 27.3
  10         1
            28.0
  11         1    2    3    4    5    6
            20.1 15.8 11.9 12.1 12.1 12.8
  12         1    2    3    4    5
            10.4 10.5 10.8 10.9  9.3
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
            22.0 25.9 20.3 25.2 20.4 20.6 20.4 20.3 20.7 20.5

            21.4 22.4 22.2 18.9
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
            19.5 22.0 22.3 21.5 20.2 20.6 20.3 20.1 21.0 20.5

            24.6 21.8 26.3 22.0
  15         1    2    3    4    5    6    7    8    9   10

            14.6 21.4 16.7 17.1 17.9 18.2 18.5 18.9 19.3 26.6

  16         1    2    3    4    5    6    7    8    9   10

            26.6 19.2 18.9 18.3 18.1 17.7 17.1 16.5 21.4 15.3

  17         1    2    3    4    5    6    7
             8.4  8.9  8.8  8.8 10.1 11.3 13.8
  18         1    2    3    4    5    6    7
            12.8 11.2 10.4  8.7  8.7  8.9  8.3
1

 RECEIVER    LEQ(H)   L10
 121          45.9   48.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
             3.0  4.7  4.7  4.5  4.6  5.3
   2         1    2    3    4    5    6
             7.3  7.7 11.1 14.7 16.9 19.3
   3         1
            20.9
   4         1    2    3
            27.8 34.2 30.0
   5         1    2    3    4    5    6
            26.9 24.0 24.1 29.7 35.8 34.7
   6         1    2    3
            31.7 30.8 34.1
   7         1    2    3    4
            34.0 30.5 31.5 33.0
   8         1    2    3    4    5    6
            35.7 29.7 24.1 24.0 26.8 28.8
   9         1    2    3
            34.3 27.8 21.1
  10         1
            19.3
  11         1    2    3    4    5    6
            17.4 14.9 11.9  7.8  7.3  7.5
  12         1    2    3    4    5
             4.5  4.6  4.8  4.7  3.1
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
            17.1 21.1 15.5 21.7 21.8 22.0 20.7 13.9 14.3 14.1

            14.0 14.2 15.4 14.4
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
            14.5 15.2 14.1 14.3 13.8 14.2 14.0 20.5 22.3 21.9

            20.8 17.0 21.5 17.2
  15         1    2    3    4    5    6    7    8    9   10

            13.3 15.8 11.0 11.3 11.8 12.0 12.4 15.9 17.3 26.2

  16         1    2    3    4    5    6    7    8    9   10

            26.4 17.2 15.7 12.3 11.9 11.7 11.3 10.9 15.8 13.4

  17         1    2    3    4    5    6    7
             3.5  7.0  9.4  9.3 10.7 12.2  8.9
  18         1    2    3    4    5    6    7
             8.7 12.2 10.8  9.3  9.3  6.5  3.5
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****
STAM2VU1
Version 1.20
****
STAMINA 2.0/BCR
MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
TRAFFIC NOISE PREDICTION MODEL

MODIFIED TO:
1. ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
2. CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
3. PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.

****

MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
AND BOWLBY & ASSOCIATES, INC.
2014 BROADWAY, SUITE 210
NASHVILLE, TN 37203-2425
TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE *.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.

(INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH)

Meadowood - Single-Family 1st Floor (Receivers 82-121)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

HEIGHT	CODE	DESCRIPTION
.00	1	RECEIVER HEIGHT ADJUSTMENT
1.00	2	A-WEIGHTED SOUND LEVEL ONLY
.00	3	HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
.00	4	HEIGHT ADJUSTMENT FOR HEAVY TRUCKS (HT)
.00	5	HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS (MT)
.000	6	HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4)
		CARS--CALVENO
		C0 = 5.20 C1 = 38.80 S0 = .00
2.300	7	HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5)
		MT--CALVENO
		C0 = 35.30 C1 = 25.60 S0 = .00
8.000	8	HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6)
		HT--CALVENO
		C0 = 50.40 C1 = 19.20 S0 = .00

0ROADWAY 1 HRC nb (76 to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6287767.4	2067284.0	276.0	0
2	6287704.7	2067456.2	276.0	0
3	6287629.7	2067702.5	279.0	0
4	6287568.8	2067936.5	284.0	0
5	6287512.3	2068148.3	284.0	0
6	6287446.9	2068359.4	282.0	0
7	6287374.5	2068606.6	279.0	0

0ROADWAY 2 HRC nb (Pankey to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
7	6287374.5	2068606.6	279.0	0
8	6287273.9	2068832.6	278.0	0
9	6287137.9	2069057.7	278.0	0
10	6287017.0	2069263.4	280.0	0
11	6286760.9	2069688.9	285.0	0
12	6286533.2	2070137.4	290.0	0
13	6286310.7	2070587.7	296.0	0

0ROADWAY 3 HRC nb (School to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
13	6286310.7	2070587.7	296.0	0
14	6286086.4	2071030.0	302.0	0

0ROADWAY 4 HRC nb (26 to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286086.4	2071030.0	302.0	0
15	6285859.5	2071475.8	308.0	0
16	6285540.8	2072106.2	311.0	0
17	6285403.1	2072385.2	310.0	0

0ROADWAY 5 HRC nb (Harvest Glen to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
17	6285403.1	2072385.2	310.0	0
18	6285328.1	2072574.1	310.0	0
19	6285298.0	2072673.9	310.0	0
20	6285270.7	2072773.6	311.0	0
21	6285221.2	2073078.2	314.0	0
22	6285201.8	2073673.3	322.0	0
23	6285188.6	2074037.0	338.0	0

0ROADWAY 6 HRC nb (Longspur to Baltimore)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
23	6285188.6	2074037.0	338.0	0
24	6285145.3	2074308.9	346.0	0
25	6285056.1	2074546.4	351.0	0
26	6284650.0	2075149.4	356.0	0

0ROADWAY 7 HRC sb (Baltimore to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6284621.8	2075132.6	356.0	0
2	6285015.5	2074527.9	351.0	0
3	6285099.4	2074300.1	346.0	0
4	6285141.8	2074033.5	338.0	0
5	6285159.4	2073671.5	322.0	0

0ROADWAY 8 HRC sb (Longspur to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
5	6285159.4	2073671.5	322.0	0
6	6285181.5	2073072.9	314.0	0
7	6285228.3	2072759.5	311.0	0
8	6285256.5	2072658.0	310.0	0
9	6285287.4	2072557.3	310.0	0
10	6285368.7	2072369.3	310.0	0
11	6285504.6	2072087.7	311.0	0

0ROADWAY 9 HRC sb (Harvest Glen to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
11	6285504.6	2072087.7	311.0	0
12	6285818.9	2071457.3	308.0	0
13	6286045.8	2071007.9	302.0	0
14	6286269.2	2070567.4	296.0	0

0ROADWAY 10 HRC sb (26 to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	14.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286269.2	2070567.4	296.0	0
15	6286493.4	2070122.4	290.0	0

0ROADWAY 11 HRC sb (School to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
15	6286493.4	2070122.4	290.0	0
16	6286720.3	2069667.7	285.0	0
17	6286977.2	2069239.6	280.0	0
18	6287102.6	2069033.0	278.0	0
19	6287238.6	2068813.1	278.0	0

20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0 ----------COORDINATES----------

	X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0 ----------COORDINATES----------

	X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0 ----------COORDINATES----------

	X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0 ----------COORDINATES----------

	X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0 ----------COORDINATES----------

	X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0 ----------COORDINATES----------

	X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0 ----------COORDINATES----------

	X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

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BARRIER 1 TYPE(A) Pad Edges 1

---------COORDINATES---------

	X	Y	Z	Z0	DELZ	P
1	6286634.5	2070357.1	300.0	300.0	.0	0
2	6286502.0	2070298.3	300.0	300.0		
3	6286265.1	2070793.1	310.0	310.0		
4	6286320.9	2070828.5	310.0	310.0		

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BARRIER 2 TYPE(A) Pad Edges 2

---------COORDINATES---------

	X	Y	Z	Z0	DELZ	P
5	6286349.5	2070944.8	315.0	315.0	.0	0
6	6286239.3	2070896.7	314.0	314.0		
7	6286196.9	2070902.4	314.0	314.0		
8	6286078.1	2071137.0	311.0	311.0		
9	6286004.6	2071292.5	316.0	316.0		
10	6286004.6	2071603.5	317.0	317.0		
11	6286004.6	2071990.8	321.0	321.0		
12	6286004.5	2072360.7	324.0	324.0		
13	6286289.0	2072499.4	326.0	326.0		
14	6286498.0	2072566.2	329.0	329.0		

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BARRIER 3 TYPE(A) Pad Edges 3

---------COORDINATES---------

	X	Y	Z	Z0	DELZ	P
15	6286634.5	2072765.6	401.0	395.0	1.0	3
16	6286621.9	2072916.9	401.0	395.0		
17	6286648.3	2073055.3	403.0	397.0		
18	6286685.9	2073120.3	406.0	400.0		
19	6286802.5	2073223.1	414.0	408.0		
20	6286939.8	2073344.0	427.0	421.0		
21	6287080.9	2073468.3	440.0	434.0		
22	6287179.3	2073554.7	448.0	442.0		
23	6287319.9	2073660.5	453.0	447.0		

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BARRIER 4 TYPE(A) Pad Edges 4

---------COORDINATES---------

	X	Y	Z	Z0	DELZ	P
24	6286661.4	2072669.3	405.0	399.0	1.0	3
25	6286691.4	2072606.8	408.0	402.0		
26	6286808.6	2072443.9	419.0	413.0		
27	6286883.6	2072343.9	426.0	420.0		
28	6286840.1	2072178.6	431.0	425.0		
29	6286816.2	2072125.3	431.0	425.0		
30	6286823.2	2072059.3	431.0	425.0		
32	6286845.0	2072002.5	431.0	425.0		
33	6286884.7	2071971.4	431.0	425.0		

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BARRIER 5 TYPE(A) Pad Edges 5

---------COORDINATES---------

	X	Y	Z	Z0	DELZ	P
33	6286902.8	2071961.7	431.0	425.0	1.0	3
34	6286962.6	2071945.7	431.0	425.0		
35	6287015.8	2071960.1	431.0	425.0		
36	6287071.5	2071996.1	431.0	425.0		
37	6287133.1	2072101.5	439.0	433.0		
38	6287208.1	2072073.0	446.0	440.0		
39	6287286.5	2072058.4	449.0	443.0		
40	6287479.3	2072046.8	460.0	454.0		
41	6287668.5	2072035.1	471.0	465.0		
41b	6287685.1	2071982.5	500.0	494.0		

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BARRIER 6 TYPE(A) Pad Edges 6

---------COORDINATES---------

	X	Y	Z	Z0	DELZ	P
41b	6287685.1	2071982.5	500.0	494.0	1.0	3
42	6287686.6	2071882.5	500.0	494.0		
42b	6287699.0	2071869.6	500.0	494.0		
43	6287687.4	2071826.0	500.0	494.0		
44	6287537.5	2071795.8	499.0	493.0		
45	6287494.5	2071766.0	499.0	493.0		
46	6287457.5	2071786.6	499.0	493.0		
47	6287414.4	2071765.2	499.0	493.0		
48	6287295.5	2071799.6	499.0	493.0		
49	6287284.9	2071649.7	495.0	489.0		

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BARRIER 7 TYPE(A) Pad Edges 7

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
49	6287284.9	2071649.7	495.0	489.0	1.0	3
50	6287348.9	2071527.3	493.0	487.0		
51	6287424.5	2071350.9	487.0	481.0		
52	6287467.2	2071294.2	485.0	479.0		
53	6287518.6	2071247.5	483.0	477.0		

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BARRIER 8 TYPE(A) Pad Edges 8

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
54	6287218.1	2070892.1	423.0	417.0	1.0	3
55	6287157.9	2071011.8	428.0	422.0		
56	6287075.2	2071176.2	433.0	427.0		
57	6287007.6	2071272.7	433.0	427.0		
58	6286932.0	2071401.6	433.0	427.0		
59	6286944.0	2071476.9	433.0	427.0		
60	6286980.6	2071530.1	433.0	427.0		
61	6287085.3	2071587.4	433.0	427.0		
61b	6287195.3	2071545.3	436.0	430.0		

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BARRIER 9 TYPE(A) Pad Edges 9

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
62	6287504.8	2073407.6	464.0	464.0	.0	0
63	6287455.9	2073368.6	463.0	463.0		
64	6287170.1	2073077.7	459.0	459.0		
65	6287084.1	2072959.0	458.0	458.0		
66	6287062.5	2072812.7	457.0	457.0		
67	6287098.4	2072672.4	456.0	456.0		
68	6287206.8	2072488.9	454.0	454.0		
69	6287296.9	2072394.7	453.0	453.0		
70	6287367.3	2072346.7	452.0	452.0		
71	6287469.2	2072361.5	452.0	452.0		

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BARRIER 10 TYPE(A) Pad Edges 10

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
72	6287697.7	2073088.0	486.0	486.0	.0	0
73	6287547.5	2072976.4	486.0	486.0		
74	6287491.4	2072888.6	486.0	486.0		
75	6287491.1	2072766.9	485.0	485.0		
76	6287635.8	2072596.6	482.0	482.0		
77	6287767.5	2072309.5	477.0	477.0		

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BARRIER 11 TYPE(A) Pad Edges 11

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
78	6287168.3	2074113.6	447.0	447.0	.0	0
79	6287306.7	2073811.7	443.0	443.0		
80	6287536.9	2073481.4	457.0	457.0		

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BARRIER 12 TYPE(A) Pad Edges 12

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
81	6287283.0	2074170.1	465.0	465.0	.0	0
82	6287469.8	2073845.2	471.0	471.0		
82b	6287616.6	2073652.3	478.0	478.0		
82c	6287630.6	2073609.8	478.0	478.0		
83	6287702.0	2073532.9	475.0	475.0		

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BARRIER 13 TYPE(A) Pad Edges 14

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
84	6288855.6	2071200.7	606.0	606.0	.0	0
85	6288817.6	2071249.1	606.0	606.0		
85b	6288817.1	2071249.5	600.0	600.0		
85c	6288775.2	2071293.2	600.0	600.0		
85d	6288774.8	2071293.5	593.0	593.0		
86	6288730.6	2071333.3	593.0	593.0		
86b	6288730.4	2071333.5	585.0	585.0		
87	6288637.1	2071415.2	574.0	574.0		
87b	6288636.6	2071415.5	558.0	558.0		
87c	6288577.5	2071447.1	558.0	558.0		

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BARRIER 14 TYPE(A) Pad Edges 15

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
87c	6288577.5	2071447.1	558.0	558.0	.0	0
87d	6288576.6	2071447.3	542.0	542.0		
87e	6288512.6	2071462.6	542.0	542.0		
87f	6288512.2	2071462.7	535.0	535.0		
87g	6288454.3	2071466.7	535.0	535.0		
87h	6288453.5	2071466.7	528.0	528.0		
87i	6288396.4	2071470.4	528.0	528.0		

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BARRIER 15 TYPE(A) Pad Edges 16

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
88	6287934.8	2071070.6	469.0	463.0	1.0	3
89	6287896.0	2071051.1	467.0	461.0		
90	6287829.7	2071017.7	463.0	457.0		
91	6287774.3	2070989.8	458.0	452.0		
92	6287719.9	2070962.3	452.0	446.0		
93	6287660.0	2070932.2	444.0	438.0		
94	6287602.9	2070903.4	437.0	431.0		
95	6287558.2	2070880.9	432.0	426.0		
96	6287504.6	2070853.9	432.0	426.0		
97	6287457.4	2070947.6	432.0	426.0		

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BARRIER 16 TYPE(A) Pad Edges 17

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
98	6287917.7	2071215.4	471.0	471.0	.0	0
99	6288056.8	2071153.4	487.0	487.0		
100	6288174.3	2071168.6	499.0	499.0		
101	6288341.6	2071223.3	517.0	517.0		
102	6288383.4	2071229.3	517.0	517.0		
103	6288411.9	2071206.0	518.0	518.0		

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BARRIER 17 TYPE(A) Pade Edges 18

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
104	6287531.1	2074308.7	483.0	483.0	.0	0
105	6287706.9	2074046.2	487.0	487.0		
106	6287847.9	2073869.2	491.0	491.0		
107	6287887.1	2073856.0	493.0	493.0		

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BARRIER 18 TYPE(A) Pad Edges 19

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
108a	6287776.1	2074544.5	503.0	503.0	.0	0
108b	6287725.5	2074618.8	503.0	503.0		
109	6287778.2	2074656.5	513.0	513.0		
110	6287798.1	2074702.8	518.0	518.0		
111	6287807.8	2074744.0	518.0	518.0		

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Receivers @ 5'

	----------COORDINATES----------		
	X	Y	Z
82	6287240.5	2072077.8	444.0
83	6287109.1	2072080.3	431.0
84	6286962.4	2071956.6	429.0
85	6286827.2	2072089.3	429.0
86	6286860.5	2072192.6	429.0
87	6286873.0	2072375.1	421.0
88	6286836.1	2072426.2	417.0
89	6286797.7	2072477.9	414.0
90	6286761.7	2072527.8	410.0
91	6286725.2	2072577.9	407.0
92	6286688.4	2072638.8	404.0
93	6286639.8	2072799.4	399.0
94	6286637.0	2072967.7	399.0
95	6286677.5	2073086.5	402.0
96	6286772.8	2073179.9	408.0
97	6286846.0	2073247.0	412.0
98	6286920.0	2073312.4	421.0
99	6286985.8	2073370.3	426.0
100	6287055.6	2073432.3	435.0
101	6287113.4	2073481.9	439.0
102	6287162.5	2073523.6	443.0
103	6287215.7	2073565.6	447.0
104	6287274.1	2073611.0	450.0
105	6287492.5	2073384.0	468.0
106	6287408.7	2073302.7	467.0
107	6287329.6	2073219.8	466.0
108	6287251.2	2073144.3	464.0
109	6287160.6	2073043.7	463.0
110	6287083.1	2072899.9	462.0
111	6287082.6	2072754.3	461.0
112	6287161.8	2072585.1	460.0
113	6287251.0	2072461.1	458.0
114	6287331.5	2072382.6	457.0
115	6287755.2	2072368.7	482.0
116	6287683.4	2072520.8	485.0
117	6287621.2	2072633.3	487.0
118	6287548.3	2072717.4	489.0
119	6287498.4	2072850.1	491.0
120	6287611.8	2073011.0	491.0
121	6287432.9	2073646.1	452.0

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ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

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 SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

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        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  7 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  8 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
  9 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 10 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 11 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 12 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 13 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 14 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 15 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 16 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 17 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 18 *   .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
        .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
1

 RECEIVER    LEQ(H)   L10
 82           44.1   45.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           9.0 14.7 15.0 15.1 15.7 16.9
   2        1    2    3    4    5    6
           19.6 19.8 17.7 21.1 22.0 26.4
   3        1
           30.6
   4        1    2    3
           30.6 31.4 27.1
   5        1    2    3    4    5    6
           24.4 21.8 22.0 27.0 30.0 27.9
   6        1    2    3
           27.4 28.3 31.5
   7        1    2    3    4
           31.5 28.0 26.2 26.3
   8        1    2    3    4    5    6
           30.1 27.1 22.0 21.8 24.4 26.0
   9        1    2    3
           31.4 30.5 29.0
  10        1
           26.5
  11        1    2    3    4    5    6
           22.2 21.3 17.9 19.2 19.6 19.0
  12        1    2    3    4    5
           15.6 15.1 15.0 14.6 12.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           18.0 22.2 16.7 23.0 23.5 23.8 23.4 23.2 23.6 21.0

           14.1 14.5 14.1 13.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           13.7 14.0 14.4 14.4 21.1 23.6 23.4 23.2 24.3 23.6

           22.2 18.3 22.6 18.1
  15        1    2    3    4    5    6    7    8    9   10

           15.7 18.4 13.7 14.1 14.5 14.7 14.7 14.7 14.6 20.2

  16        1    2    3    4    5    6    7    8    9   10

           20.2 14.4 14.6 14.5 14.6 14.3 14.0 13.6 18.3 15.7

  17        1    2    3    4    5    6    7
           15.1 15.2 14.9 14.7 15.6 16.2 12.0
  18        1    2    3    4    5    6    7
           11.8 16.2 15.6 14.6 14.8 15.2 15.0
1

 RECEIVER    LEQ(H)   L10
 83           44.1   46.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           11.1 13.2 13.5 13.7 14.3 14.7
   2        1    2    3    4    5    6
           16.5 16.8 16.5 20.3 23.5 31.1
   3        1
           31.4
   4        1    2    3
           33.9 29.7 25.8
   5        1    2    3    4    5    6
           22.7 19.8 19.8 24.6 27.8 26.1
   6        1    2    3
           23.6 23.1 26.7
   7        1    2    3    4
           26.5 22.7 23.4 24.5
   8        1    2    3    4    5    6
           27.8 24.6 19.8 19.8 22.6 24.6
   9        1    2    3
           29.7 34.7 30.1
  10        1
           30.7
  11        1    2    3    4    5    6
           24.6 20.5 16.6 16.7 16.5 16.8
  12        1    2    3    4    5
           14.1 13.8 13.6 13.2 11.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           20.8 24.0 17.5 23.5 23.9 23.9 23.0 22.3 22.3 21.7

           21.4 21.4 20.7 20.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           20.2 20.7 21.4 21.7 21.5 22.3 22.5 22.9 24.3 24.0

           22.7 19.0 24.6 20.9
  15        1    2    3    4    5    6    7    8    9   10

           15.5 20.2 17.2 18.6 19.0 19.0 19.1 18.8 18.5 24.1

  16        1    2    3    4    5    6    7    8    9   10

           24.0 18.4 18.8 18.9 18.9 18.9 18.6 17.2 20.3 15.6

  17        1    2    3    4    5    6    7
           12.8 13.2 12.9 13.0 14.2 15.2 11.6
  18        1    2    3    4    5    6    7
           11.4 15.2 14.2 12.9 12.8 13.2 12.7
1

 RECEIVER    LEQ(H)   L10
 84           46.5   48.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           12.5 14.2 14.3 14.0 14.2 15.0
   2        1    2    3    4    5    6
           17.3 17.9 18.0 24.9 29.6 31.3
   3        1
           33.3
   4        1    2    3
           33.5 35.9 36.5
   5        1    2    3    4    5    6
           25.5 21.8 21.5 25.8 27.8 24.9
   6        1    2    3
           22.1 21.4 25.0
   7        1    2    3    4
           24.9 21.2 21.9 23.3
   8        1    2    3    4    5    6
           27.8 25.9 21.5 21.9 25.5 35.8
   9        1    2    3
           34.8 33.4 32.1
  10        1
           31.0
  11        1    2    3    4    5    6
           29.5 25.8 18.2 18.0 17.3 17.3
  12        1    2    3    4    5
           14.2 14.1 14.3 14.1 12.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           20.7 24.9 19.4 25.7 26.3 26.4 24.3 23.8 23.8 23.9

           24.5 25.5 24.8 24.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
           24.0 24.8 25.4 24.7 23.5 23.8 24.0 24.1 26.8 26.4

           24.9 21.0 25.3 20.7
  15        1    2    3    4    5    6    7    8    9   10

           18.4 21.1 16.5 16.8 17.2 17.3 17.4 17.2 17.1 22.6

  16        1    2    3    4    5    6    7    8    9   10

           22.6 16.9 17.2 17.2 17.2 17.0 16.8 16.3 21.1 18.4

  17        1    2    3    4    5    6    7
           13.5 14.3 14.3 16.2 18.4 19.0 14.8
  18        1    2    3    4    5    6    7
           14.6 19.0 18.4 15.7 14.2 14.2 13.4
1

 RECEIVER    LEQ(H)   L10
 85           46.2   47.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           12.3 14.2 14.4 14.2 14.4 15.2
   2        1    2    3    4    5    6
           22.2 23.9 24.1 28.3 29.8 31.4
   3        1
```

```
          33.3
   4        1    2    3
          33.3 34.8 30.1
   5        1    2    3    4    5    6
          26.3 23.0 22.7 27.0 28.9 25.8
   6        1    2    3
          22.5 21.5 24.8
   7        1    2    3    4
          24.7 21.2 22.3 24.1
   8        1    2    3    4    5    6
          28.8 26.9 22.6 22.9 26.2 28.8
   9        1    2    3
          34.5 33.1 32.0
  10        1
          31.0
  11        1    2    3    4    5    6
          29.8 28.3 24.2 23.8 23.0 21.6
  12        1    2    3    4    5
          14.4 14.3 14.5 14.3 12.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.4 25.8 20.3 26.7 27.3 27.6 27.3 27.1 27.2 23.4

          22.7 23.7 24.0 23.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.4 23.9 23.5 23.0 23.1 27.2 27.2 27.1 28.1 27.3

          25.8 21.8 26.2 21.5
  15        1    2    3    4    5    6    7    8    9   10

          19.3 21.8 17.0 17.3 17.5 17.5 17.6 17.4 17.1 22.4

  16        1    2    3    4    5    6    7    8    9   10

          22.4 17.0 17.3 17.3 17.4 17.4 17.2 16.9 21.8 19.2

  17        1    2    3    4    5    6    7
          18.7 19.2 18.9 18.5 19.3 19.8 15.7
  18        1    2    3    4    5    6    7
          15.4 19.9 19.3 18.4 18.8 19.1 18.5
1

 RECEIVER    LEQ(H)   L10
 86           46.0   47.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          11.4 13.2 13.4 13.2 13.4 14.2
   2        1    2    3    4    5    6
          16.4 17.6 22.2 26.0 27.4 29.0
   3        1
          31.6
   4        1    2    3
          33.0 35.4 31.4
   5        1    2    3    4    5    6
          28.0 24.8 24.5 28.8 30.8 27.7
   6        1    2    3
          24.4 23.3 26.6
   7        1    2    3    4
          26.5 23.1 24.2 26.1
   8        1    2    3    4    5    6
          30.7 28.8 24.4 24.7 27.8 30.1
   9        1    2    3
          35.2 32.9 30.4
  10        1
          28.9
  11        1    2    3    4    5    6
          27.5 26.1 22.2 19.7 16.5 16.4
  12        1    2    3    4    5
          13.4 13.3 13.5 13.3 11.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.5 25.7 20.1 26.3 26.8 27.0 26.6 26.3 23.3 22.6

          22.6 23.9 23.5 22.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.6 23.4 23.8 22.9 22.3 23.2 26.5 26.4 27.4 26.9

          25.5 21.7 26.1 21.6
  15        1    2    3    4    5    6    7    8    9   10

          18.8 21.5 16.8 17.3 17.7 18.0 18.1 18.0 18.0 23.6

  16        1    2    3    4    5    6    7    8    9   10

          23.6 17.8 18.0 17.9 17.8 17.6 17.3 16.7 21.5 18.8

  17        1    2    3    4    5    6    7
          14.1 17.8 17.5 17.2 18.2 19.0 15.0
  18        1    2    3    4    5    6    7
          14.8 18.9 18.2 17.2 17.4 17.7 13.7
1

 RECEIVER    LEQ(H)   L10
 87           43.6   45.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          9.3 11.0 11.2 11.0 11.2 12.0
   2        1    2    3    4    5    6
          14.2 14.9 17.7 22.2 22.9 25.9
   3        1
          29.0
   4        1    2    3
          29.5 32.3 28.8
   5        1    2    3    4    5    6
          25.7 22.9 22.8 27.3 30.4 28.3
   6        1    2    3
          25.9 24.9 28.2
   7        1    2    3    4
          28.0 24.6 25.5 26.6
   8        1    2    3    4    5    6
          30.3 27.2 22.7 22.7 25.5 27.4
   9        1    2    3
          32.0 29.5 27.9
  10        1
          26.0
  11        1    2    3    4    5    6
          22.9 21.8 19.2 14.9 14.3 14.2
  12        1    2    3    4    5
          11.2 11.1 11.3 11.1  9.4

  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.2 21.5 16.0 22.2 22.9 23.1 22.8 22.0 20.9 20.6

          21.1 21.5 20.6 20.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.1 20.5 21.3 21.4 20.3 20.8 22.1 22.6 23.6 22.9

          21.4 17.5 21.9 17.3
  15        1    2    3    4    5    6    7    8    9   10

          14.7 17.3 12.8 13.1 13.4 13.6 13.7 13.6 13.4 19.0

  16        1    2    3    4    5    6    7    8    9   10

          18.9 13.3 13.5 13.5 13.4 13.3 13.1 12.7 17.3 14.7

  17        1    2    3    4    5    6    7
          10.4 14.0 13.4 13.1 14.1 14.9 10.9
  18        1    2    3    4    5    6    7
          10.7 14.9 14.1 13.0 13.3 13.8 10.3
1

 RECEIVER    LEQ(H)   L10
 88           43.2   44.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          8.7 10.5 10.6 10.4 10.6 11.5
   2        1    2    3    4    5    6
          13.7 14.8 16.7 20.7 24.0 26.3
   3        1
          28.2
   4        1    2    3
          28.9 31.8 28.4
   5        1    2    3    4    5    6
          25.3 22.5 22.5 27.2 30.4 28.6
   6        1    2    3
          25.9 25.1 28.3
   7        1    2    3    4
          28.1 24.8 25.6 26.6
   8        1    2    3    4    5    6
          30.2 27.1 22.3 22.3 25.1 27.0
   9        1    2    3
          31.5 28.8 27.2
  10        1
          26.1
  11        1    2    3    4    5    6
          24.3 20.7 16.8 15.6 13.8 13.7
  12        1    2    3    4    5
          10.7 10.6 10.7 10.5  8.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          16.6 20.9 15.4 21.7 22.3 21.8 21.2 21.2 20.3 19.8

          20.2 20.7 19.8 19.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.0 19.7 20.5 20.5 19.5 20.2 21.4 21.0 22.3 22.3

          20.8 16.9 21.3 16.7
  15        1    2    3    4    5    6    7    8    9   10

          14.3 16.9 12.2 12.5 12.8 12.9 13.1 12.9 12.8 18.4

  16        1    2    3    4    5    6    7    8    9   10

          18.3 12.6 12.9 12.9 12.8 12.7 12.4 12.0 16.9 14.3

  17        1    2    3    4    5    6    7
          10.5 12.5 12.1 11.8 13.1 14.8 10.7
  18        1    2    3    4    5    6    7
          10.4 14.8 13.0 11.8 12.0 12.4 10.3
1

 RECEIVER    LEQ(H)   L10
 89           44.0   45.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          8.2 10.0 10.2 10.0 10.2 11.1
   2        1    2    3    4    5    6
          13.4 15.6 16.0 23.5 25.5 27.0
   3        1
          29.3
   4        1    2    3
          29.7 32.7 29.4
   5        1    2    3    4    5    6
          26.4 23.5 23.4 28.0 31.0 28.8
   6        1    2    3
          26.3 25.4 28.6
   7        1    2    3    4
          28.4 25.1 26.0 27.1
   8        1    2    3    4    5    6
          30.8 28.0 23.3 23.3 26.1 28.0
   9        1    2    3
          32.5 29.6 27.9
  10        1
          26.8
  11        1    2    3    4    5    6
          25.5 23.9 16.1 15.9 14.0 13.3
  12        1    2    3    4    5
          10.2 10.1 10.3 10.1  8.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.5 21.7 16.2 22.5 23.1 23.4 23.0 20.8 20.1 19.3

          19.5 20.0 19.3 18.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.5 19.2 19.9 19.8 19.0 20.0 20.9 22.8 23.8 23.1

          21.6 17.7 22.1 17.5
  15        1    2    3    4    5    6    7    8    9   10

          15.1 17.8 13.0 13.3 13.6 13.8 13.9 13.8 13.7 19.3

  16        1    2    3    4    5    6    7    8    9   10

          19.3 13.6 13.7 13.7 13.7 13.5 13.3 12.9 17.7 15.0
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  17        1    2    3    4    5    6    7
          10.8 12.3 14.6 14.2 15.0 15.6 11.4
  18        1    2    3    4    5    6    7
          11.2 15.6 15.0 14.1 14.5 12.0 10.6
1

RECEIVER    LEQ(H)   L10
90           43.3   45.0

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           7.7  9.5  9.7  9.5  9.7 10.6
   2        1    2    3    4    5    6
          14.0 18.1 19.0 23.1 24.5 26.0
   3        1
          27.6
   4        1    2    3
          28.6 31.6 28.4
   5        1    2    3    4    5    6
          25.4 22.6 22.6 27.3 30.5 28.8
   6        1    2    3
          26.2 25.5 28.6
   7        1    2    3    4
          28.5 25.2 25.9 27.1
   8        1    2    3    4    5    6
          30.3 27.2 22.4 22.4 25.3 27.1
   9        1    2    3
          31.4 28.4 26.8
  10        1
          25.7
  11        1    2    3    4    5    6
          24.4 23.0 19.0 18.7 15.2 13.7
  12        1    2    3    4    5
           9.7  9.6  9.7  9.5  7.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          16.4 20.7 15.1 21.5 22.0 22.4 22.1 21.8 21.2 18.7

          18.7 19.3 18.7 17.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.9 18.6 19.2 19.0 18.5 21.1 22.0 21.8 22.8 22.1

          20.6 16.7 21.0 16.5
  15        1    2    3    4    5    6    7    8    9   10

          14.0 16.7 11.9 12.2 12.5 12.7 12.8 12.7 12.5 18.1

  16        1    2    3    4    5    6    7    8    9   10

          18.1 12.4 12.6 12.6 12.5 12.4 12.2 11.8 16.7 14.0

  17        1    2    3    4    5    6    7
          13.0 14.0 13.7 13.2 14.0 14.6 10.4
  18        1    2    3    4    5    6    7
          10.1 14.6 14.0 13.1 13.5 13.9 12.8
1

RECEIVER    LEQ(H)   L10
91           43.8   45.5

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           7.3  9.1  9.3  9.1 13.6 15.7
   2        1    2    3    4    5    6
          18.4 19.2 19.4 23.5 24.9 26.4
   3        1
          28.4
   4        1    2    3
          29.1 32.3 29.2
   5        1    2    3    4    5    6
          26.1 23.3 23.3 28.1 31.2 29.3
   6        1    2    3
          26.4 25.5 28.6
   7        1    2    3    4
          28.5 25.2 26.1 27.6
   8        1    2    3    4    5    6
          30.9 28.0 23.1 23.1 26.0 27.8
   9        1    2    3
          32.0 29.0 27.3
  10        1
          26.2
  11        1    2    3    4    5    6
          24.9 23.4 19.4 19.1 18.3 17.8
  12        1    2    3    4    5
          14.4 14.0 13.8  9.1  7.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          16.9 21.2 15.6 22.0 22.5 22.8 22.5 22.3 22.7 19.7

          18.1 18.7 18.2 17.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.4 18.1 18.6 18.4 19.5 22.6 22.4 22.3 23.2 22.6

          21.1 17.2 21.5 16.9
  15        1    2    3    4    5    6    7    8    9   10

          14.5 17.2 12.3 12.7 13.0 13.2 13.3 13.2 13.1 18.7

  16        1    2    3    4    5    6    7    8    9   10

          18.7 12.9 13.2 13.1 13.1 12.9 12.7 12.3 17.2 14.5

  17        1    2    3    4    5    6    7
          13.9 14.4 14.1 13.6 14.4 15.0 10.8
  18        1    2    3    4    5    6    7
          10.6 15.1 14.4 13.6 14.0 14.3 13.8
1

RECEIVER    LEQ(H)   L10
92           45.3   47.0

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           8.4 14.8 15.1 15.1 15.6 16.8
   2        1    2    3    4    5    6
          19.5 20.4 20.6 24.7 26.1 27.6
   3        1
          30.0
   4        1    2    3
          30.3 33.5 30.3
   5        1    2    3    4    5    6
          27.2 24.3 24.2 28.8 31.5 29.0
   6        1    2    3
          26.1 28.6 34.1
   7        1    2    3    4
          33.9 25.0 25.9 27.3
   8        1    2    3    4    5    6
          31.3 28.6 24.1 24.1 27.0 28.9
   9        1    2    3
          33.2 30.2 28.5
  10        1
          27.4
  11        1    2    3    4    5    6
          26.1 24.7 20.5 20.3 19.4 18.9
  12        1    2    3    4    5
          15.5 15.1 15.1 14.8 12.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.4 22.6 17.1 23.4 23.9 24.2 23.9 23.6 23.9 21.8

          17.6 18.2 17.7 17.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.0 17.6 18.1 17.9 21.8 23.9 23.7 23.7 24.6 24.0

          22.6 18.6 23.0 18.5
  15        1    2    3    4    5    6    7    8    9   10

          15.9 18.7 13.8 14.2 14.5 14.7 14.8 14.7 14.5 20.2

  16        1    2    3    4    5    6    7    8    9   10

          20.1 14.4 14.6 14.6 14.5 14.4 14.1 13.7 18.6 15.9

  17        1    2    3    4    5    6    7
          15.1 15.6 15.4 15.0 15.8 16.4 12.3
  18        1    2    3    4    5    6    7
          12.1 16.4 15.8 14.9 15.3 15.5 14.9
1

RECEIVER    LEQ(H)   L10
93           48.5   49.8

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          12.7 14.6 14.9 15.0 15.5 16.6
   2        1    2    3    4    5    6
          25.0 29.4 29.6 33.8 33.6 30.2
   3        1
          30.7
   4        1    2    3
          32.3 34.5 31.3
   5        1    2    3    4    5    6
          28.1 25.0 24.8 29.3 31.5 28.5
   6        1    2    3
          25.2 24.1 27.2
   7        1    2    3    4
          27.0 23.8 25.0 26.8
   8        1    2    3    4    5    6
          31.3 29.2 24.7 24.8 27.9 29.9
   9        1    2    3
          34.2 31.7 30.6
  10        1
          31.0
  11        1    2    3    4    5    6
          32.8 33.8 29.6 29.2 28.4 21.0
  12        1    2    3    4    5
          15.5 15.1 15.0 14.7 12.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.7 27.3 26.0 32.3 32.7 32.9 32.5 32.3 32.1 22.2

          16.7 17.3 16.8 16.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          16.1 16.7 17.2 17.0 22.4 32.1 32.4 32.3 33.4 32.8

          31.4 27.5 27.5 20.7
  15        1    2    3    4    5    6    7    8    9   10

          24.9 26.7 16.1 16.3 16.6 16.7 16.7 16.6 16.4 21.9

  16        1    2    3    4    5    6    7    8    9   10

          22.0 16.3 16.5 16.5 16.5 16.5 16.3 15.9 26.4 24.9

  17        1    2    3    4    5    6    7
          23.9 24.5 24.3 23.9 24.6 25.3 21.2
  18        1    2    3    4    5    6    7
          21.0 25.3 24.7 23.8 24.1 24.4 23.8
1

RECEIVER    LEQ(H)   L10
94           45.7   47.3

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           5.6  7.4 13.2 13.4 13.8 14.9
   2        1    2    3    4    5    6
          17.5 18.7 19.2 31.9 32.7 29.2
   3        1
          29.9
   4        1    2    3
          31.3 32.6 28.7
   5        1    2    3    4    5    6
          25.6 22.5 22.3 26.8 29.0 25.8
   6        1    2    3
          22.4 21.2 24.2
   7        1    2    3    4
          24.1 20.9 22.1 24.1
   8        1    2    3    4    5    6
          28.8 26.7 22.1 22.3 25.4 27.3
   9        1    2    3
          32.3 30.8 30.0
  10        1
          28.7
  11        1    2    3    4    5    6
          31.6 32.7 19.4 18.8 17.6 17.1
  12        1    2    3    4    5
          13.8 13.5 13.5 13.2 11.1
```

```
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.7 24.9 19.4 25.7 26.0 30.6 32.2 28.1 23.0 19.7

          16.4 17.0 16.3 15.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.6 16.2 16.9 16.7 19.7 23.0 28.2 32.0 31.0 26.2

          24.8 20.9 25.3 20.8
  15        1    2    3    4    5    6    7    8    9   10

          18.1 20.8 16.0 16.4 16.7 16.8 16.6 16.4 15.9 21.2

  16        1    2    3    4    5    6    7    8    9   10

          21.2 15.8 16.4 16.3 16.7 16.6 16.3 15.9 20.8 18.1

  17        1    2    3    4    5    6    7
          13.4 18.0 23.8 23.5 22.6 18.3 14.4
  18        1    2    3    4    5    6    7
          14.1 18.3 23.0 23.4 23.7 17.2 13.3
1

 RECEIVER    LEQ(H)   L10
 95           45.8   47.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           5.5  7.3  7.5  7.3  7.4  8.2
   2        1    2    3    4    5    6
          12.2 17.0 17.5 22.4 25.5 28.9
   3        1
          29.3
   4        1    2    3
          31.5 34.9 31.0
   5        1    2    3    4    5    6
          27.8 24.7 24.6 29.0 31.2 27.7
   6        1    2    3
          24.1 22.8 25.7
   7        1    2    3    4
          25.6 22.5 23.9 26.0
   8        1    2    3    4    5    6
          31.1 28.9 24.4 24.5 27.7 29.7
   9        1    2    3
          34.7 31.6 29.5
  10        1
          29.5
  11        1    2    3    4    5    6
          26.7 22.5 17.7 17.1 15.3 11.3
  12        1    2    3    4    5
           7.4  7.3  7.5  7.3  5.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.1 25.2 19.6 31.4 32.1 26.1 23.2 22.5 20.8 16.6

          16.7 17.0 16.4 15.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          16.1 16.2 16.9 17.0 16.3 20.7 22.6 23.0 27.2 32.2

          30.9 21.5 25.6 21.2
  15        1    2    3    4    5    6    7    8    9   10

          24.2 24.6 16.3 16.8 17.3 17.5 17.7 17.7 17.6 23.2

  16        1    2    3    4    5    6    7    8    9   10

          23.2 17.4 17.6 17.5 17.4 17.2 16.7 16.2 24.3 24.2

  17        1    2    3    4    5    6    7
          11.9 13.0 13.5 13.8 15.5 24.2 20.6
  18        1    2    3    4    5    6    7
          20.3 24.0 15.3 13.7 13.3 12.9 11.7
1

 RECEIVER    LEQ(H)   L10
 96           44.6   46.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           5.8  7.4  7.5  7.2  7.3  8.1
   2        1    2    3    4    5    6
          10.3 11.0 12.6 19.7 22.6 24.9
   3        1
          28.1
   4        1    2    3
          30.7 34.8 32.0
   5        1    2    3    4    5    6
          28.2 25.0 24.7 29.1 31.1 27.6
   6        1    2    3
          23.8 22.5 25.3
   7        1    2    3    4
          25.2 22.2 23.6 25.9
   8        1    2    3    4    5    6
          30.9 29.0 24.6 24.9 28.1 30.7
   9        1    2    3
          34.7 30.6 29.7
  10        1
          25.1
  11        1    2    3    4    5    6
          22.8 20.2 12.7 11.6 10.4 10.3
  12        1    2    3    4    5
           7.3  7.3  7.5  7.4  5.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.3 24.0 18.3 24.0 23.7 22.9 21.7 18.0 17.2 17.1

          17.1 17.6 16.6 12.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.4 16.6 17.4 17.4 16.8 17.1 18.1 21.5 23.4 23.9

          23.1 19.7 24.5 21.3
  15        1    2    3    4    5    6    7    8    9   10

          16.1 19.6 15.4 22.0 22.5 22.2 17.8 17.7 17.6 23.4

  16        1    2    3    4    5    6    7    8    9   10

          23.3 17.5 17.6 17.6 22.0 22.4 22.1 15.9 19.7 16.1

  17        1    2    3    4    5    6    7
           6.8  8.6 11.8 12.3 13.8 15.4 12.0
  18        1    2    3    4    5    6    7
          11.7 15.4 13.7 12.2 11.4  8.6  6.6
1

 RECEIVER    LEQ(H)   L10
 97           43.2   45.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           6.3  7.8  7.8  7.5  7.5  8.0
   2        1    2    3    4    5    6
          10.2 10.7 16.3 18.9 21.2 23.6
   3        1
          27.1
   4        1    2    3
          30.0 34.1 30.8
   5        1    2    3    4    5    6
          26.5 22.6 22.1 26.1 27.6 24.0
   6        1    2    3
          20.1 18.7 21.5
   7        1    2    3    4
          21.4 18.4 19.9 22.3
   8        1    2    3    4    5    6
          27.4 25.9 22.0 22.5 26.4 29.5
   9        1    2    3
          34.0 30.8 27.6
  10        1
          23.9
  11        1    2    3    4    5    6
          21.6 17.1 18.7 10.8 10.2 10.2
  12        1    2    3    4    5
           7.4  7.4  7.7  7.7  6.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.7 23.3 17.5 23.0 22.6 21.8 18.7 21.2 17.3 17.5

          17.4 17.7 12.9 10.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          10.8 13.4 17.5 17.6 17.1 17.2 21.3 18.4 22.2 22.8

          22.2 18.9 23.6 19.8
  15        1    2    3    4    5    6    7    8    9   10

          15.2 18.8 14.5 15.3 16.2 21.3 22.6 21.5 17.4 23.2

  16        1    2    3    4    5    6    7    8    9   10

          23.2 17.3 21.5 22.4 21.4 16.2 15.3 14.6 18.9 15.3

  17        1    2    3    4    5    6    7
           6.4 13.1  8.6  9.2 12.8 14.3 11.1
  18        1    2    3    4    5    6    7
          10.9 14.4 12.8  8.7  8.5 13.0  6.3
1

 RECEIVER    LEQ(H)   L10
 98           44.2   46.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           7.0  8.8  8.8  8.2  8.0  8.5
   2        1    2    3    4    5    6
          10.4 10.8 10.8 25.7 19.7 23.6
   3        1
          26.9
   4        1    2    3
          31.0 34.4 31.7
   5        1    2    3    4    5    6
          27.7 24.5 24.1 28.1 30.2 26.9
   6        1    2    3
          23.2 21.8 24.7
   7        1    2    3    4
          24.6 21.5 22.9 25.3
   8        1    2    3    4    5    6
          30.1 28.0 24.0 24.3 27.6 30.4
   9        1    2    3
          34.3 31.7 26.0
  10        1
          23.8
  11        1    2    3    4    5    6
          20.4 25.6 11.0 10.8 10.4 10.6
  12        1    2    3    4    5
           7.9  8.1  8.5  8.6  7.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.1 23.7 17.9 23.5 22.8 20.1 26.6 17.6 18.1 18.2

          18.2 14.9 11.2 10.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          10.8 11.1 15.0 18.5 17.8 17.9 17.7 26.6 20.5 23.0

          22.6 19.3 24.0 20.2
  15        1    2    3    4    5    6    7    8    9   10

          15.4 19.1 15.1 15.8 16.5 17.1 19.1 22.3 22.2 24.2

  16        1    2    3    4    5    6    7    8    9   10

          24.1 22.1 22.2 18.8 17.0 16.4 15.7 15.0 19.2 15.5

  17        1    2    3    4    5    6    7
           6.6  7.4 16.3 17.7 10.4 14.0 11.4
  18        1    2    3    4    5    6    7
          11.1 13.8 10.4 18.9 14.0  7.4  6.6
1

 RECEIVER    LEQ(H)   L10
 99           43.5   45.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           7.9  9.6  9.0  8.8  8.8  8.7
   2        1    2    3    4    5    6
          10.5 10.7 10.7 19.3 25.5 22.9
   3        1
```

```
          26.1
  4         1    2    3
          31.5 34.0 30.9
  5         1    2    3    4    5    6
          26.4 22.8 22.3 26.3 28.1 24.9
  6         1    2    3
          21.1 19.8 22.6
  7         1    2    3    4
          22.6 19.5 20.9 23.2
  8         1    2    3    4    5    6
          27.9 26.2 22.2 22.6 26.2 29.5
  9         1    2    3
          33.9 31.9 25.4
 10         1
          23.1
 11         1    2    3    4    5    6
          19.3 25.2 10.8 10.8 10.5 10.8
 12         1    2    3    4    5
           8.2  8.8  9.1  8.9  7.8
 13         1    2    3    4    5    6    7    8    9   10

 11        12   13   14
          19.9 23.4 17.5 23.1 20.4 26.8 18.9 17.8 18.5 18.2

          14.6 11.9 11.4 10.9
 14         1    2    3    4    5    6    7    8    9   10

 11        12   13   14
          10.9 11.3 11.8 15.1 18.0 18.4 17.9 18.6 26.9 20.8

          22.3 18.9 23.7 19.9
 15         1    2    3    4    5    6    7    8    9   10

          13.2 18.7 14.7 15.4 16.2 16.9 17.1 18.7 22.0 25.7

 16         1    2    3    4    5    6    7    8    9   10

          25.7 21.9 18.5 16.9 16.8 16.1 15.5 14.7 18.8 13.6

 17         1    2    3    4    5    6    7
           6.8  7.4  7.8  9.5 19.9 11.7 10.1
 18         1    2    3    4    5    6    7
           9.3 11.7 19.9  9.5  7.4  7.4  6.7
1

 RECEIVER    LEQ(H)   L10
 100          44.5   46.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
            6.2  8.1  8.3  8.2  8.6  9.5
   2         1    2    3    4    5    6
          10.9 11.0 10.7 15.4 25.8 22.3
   3         1
          26.2
   4         1    2    3
          31.4 34.2 31.2
   5         1    2    3    4    5    6
          27.9 24.9 24.8 29.2 31.8 29.0
   6         1    2    3
          25.5 24.3 27.2
   7         1    2    3    4
          27.2 24.0 25.3 27.3
   8         1    2    3    4    5    6
          31.6 29.1 24.7 24.8 27.8 29.9
   9         1    2    3
          33.9 32.2 25.5
  10         1
          22.8
  11         1    2    3    4    5    6
          25.8 16.0 10.9 10.9 10.9 11.4
  12         1    2    3    4    5
           8.5  8.2  8.3  8.1  6.3
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          20.1 23.6 17.8 21.5 27.0 21.3 18.9 17.7 17.4 16.8

          12.0 12.3 11.8 11.3
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          11.3 11.7 12.2 12.4 16.8 17.3 17.8 18.6 21.7 27.0

          20.3 19.2 24.0 20.2
  15         1    2    3    4    5    6    7    8    9   10

          15.1 18.5 14.9 15.7 16.4 16.9 17.1 17.0 19.2 27.3

  16         1    2    3    4    5    6    7    8    9   10

          27.2 18.8 17.0 16.9 16.8 16.3 15.8 14.8 18.5 13.0

  17         1    2    3    4    5    6    7
           7.2  7.6  7.8  9.0 11.6 19.7  8.9
  18         1    2    3    4    5    6    7
           8.6 19.7 11.6  8.5  7.7  7.6  7.1
1

 RECEIVER    LEQ(H)   L10
 101          43.7   45.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
            1.5  6.8  9.0  8.9  9.2 10.2
   2         1    2    3    4    5    6
          12.0 11.0 10.6 14.7 25.6 21.3
   3         1
          25.5
   4         1    2    3
          30.7 34.2 30.5
   5         1    2    3    4    5    6
          26.7 23.6 23.4 27.5 29.9 27.1
   6         1    2    3
          23.6 22.4 25.3
   7         1    2    3    4
          25.3 22.1 23.4 25.4
   8         1    2    3    4    5    6
          29.7 27.4 23.3 23.5 26.6 29.2
   9         1    2    3
          34.0 31.4 24.9
  10         1
          21.7
  11         1    2    3    4    5    6
          25.6 15.4 10.8 11.0 11.3 12.3
  12         1    2    3    4    5
           9.1  8.9  9.0  8.8  5.3

  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          19.9 22.5 15.3 21.4 26.9 20.6 18.1 17.8 18.1 15.1

          12.2 12.5 12.0 11.5
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          11.4 11.9 12.4 12.5 15.1 18.0 17.9 17.9 21.0 26.9

          20.5 16.7 23.2 20.0
  15         1    2    3    4    5    6    7    8    9   10

          18.8 17.1 14.7 15.3 16.2 16.7 16.9 16.9 17.2 27.1

  16         1    2    3    4    5    6    7    8    9   10

          27.0 17.1 16.8 16.7 16.6 16.0 15.4 14.6 17.3 18.8

  17         1    2    3    4    5    6    7
           7.3  7.7  7.7  7.9 11.4 18.6 13.4
  18         1    2    3    4    5    6    7
          14.8 17.8 11.2  7.8  7.6  7.7  7.3
1

 RECEIVER    LEQ(H)   L10
 102          43.4   45.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
            1.5  3.2  3.4  3.7  9.8 10.5
   2         1    2    3    4    5    6
          12.9 11.3 10.6 14.3 22.1 20.6
   3         1
          25.2
   4         1    2    3
          29.9 34.1 30.2
   5         1    2    3    4    5    6
          26.5 23.5 23.3 27.5 29.9 27.3
   6         1    2    3
          23.8 22.6 25.6
   7         1    2    3    4
          25.6 22.3 23.6 25.6
   8         1    2    3    4    5    6
          29.8 27.5 23.2 23.4 26.4 28.9
   9         1    2    3
          34.0 30.7 24.5
  10         1
          21.0
  11         1    2    3    4    5    6
          22.7 14.8 10.7 11.0 12.5 12.8
  12         1    2    3    4    5
           9.8  9.7  4.3  3.3  1.5
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          19.7 21.4 15.6 26.7 20.7 19.3 18.9 18.6 18.6 12.5

          12.4 12.7 12.2 11.6
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          11.6 12.1 12.5 12.7 12.3 18.6 18.7 18.7 19.7 21.0

          26.4 17.0 22.0 19.8
  15         1    2    3    4    5    6    7    8    9   10

          17.2 17.9 14.5 15.4 16.0 16.5 16.7 16.7 17.2 26.5

  16         1    2    3    4    5    6    7    8    9   10

          26.5 17.1 16.7 16.6 16.4 15.9 15.4 14.4 16.6 18.6

  17         1    2    3    4    5    6    7
           8.0  7.8  7.7  8.0  9.6 12.0 16.4
  18         1    2    3    4    5    6    7
          14.9 11.8  9.6  7.9  7.6  7.8  8.0
1

 RECEIVER    LEQ(H)   L10
 103          43.3   45.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
            1.7  3.4  3.4  3.3  3.5  7.5
   2         1    2    3    4    5    6
          12.8 12.0 10.6 14.2 17.6 19.7
   3         1
          24.9
   4         1    2    3
          29.0 34.1 30.0
   5         1    2    3    4    5    6
          26.4 23.4 23.2 27.7 30.5 28.2
   6         1    2    3
          25.0 24.0 27.2
   7         1    2    3    4
          27.1 23.7 24.8 26.5
   8         1    2    3    4    5    6
          30.4 27.6 23.1 23.3 26.3 28.7
   9         1    2    3
          34.1 29.8 24.1
  10         1
          20.1
  11         1    2    3    4    5    6
          18.0 14.4 10.7 11.4 12.9 12.6
  12         1    2    3    4    5
           3.5  3.3  3.5  3.4  1.7
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          17.8 21.6 13.3 19.5 19.9 19.9 19.4 19.5 17.3 12.7

          12.5 12.9 12.3 11.8
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
          11.8 12.2 12.7 12.8 12.4 17.4 19.5 19.2 20.3 20.0

          18.6 14.9 22.0 17.8
  15         1    2    3    4    5    6    7    8    9   10

          11.6 15.3 12.6 15.2 15.9 16.3 16.6 16.6 17.1 26.0

  16         1    2    3    4    5    6    7    8    9   10

          26.0 16.9 16.6 16.4 16.2 15.8 15.2 12.9 15.4 11.6
```

```
  17        1    2    3    4    5    6    7
           8.5  8.0  7.8  7.9  9.5 11.3  7.6
  18        1    2    3    4    5    6    7
           7.4 11.3  9.4  7.9  7.7  8.0  8.5
1

RECEIVER    LEQ(H)   L10
104          43.3   45.4

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           1.7  3.4  3.6  3.4  3.5  4.3
   2        1    2    3    4    5    6
           9.2 12.6 10.5 14.0 17.1 18.8
   3        1
          24.4
   4        1    2    3
          27.8 34.0 29.4
   5        1    2    3    4    5    6
          25.8 23.2 23.3 28.3 31.3 29.1
   6        1    2    3
          26.1 25.2 28.4
   7        1    2    3    4
          28.3 24.9 25.9 27.5
   8        1    2    3    4    5    6
          31.2 28.2 23.3 23.2 25.8 28.1
   9        1    2    3
          34.1 28.5 23.5
  10        1
          19.2
  11        1    2    3    4    5    6
          17.5 14.2 10.6 12.1 11.5  6.5
  12        1    2    3    4    5
           3.4  3.4  3.6  3.5  1.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.2 19.3 13.7 19.8 20.1 20.0 19.6 19.7 13.1 12.8

          12.7 13.0 12.4 11.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          11.8 12.3 12.9 13.0 12.5 13.1 19.8 19.3 20.3 20.2

          18.9 15.1 19.6 15.2
  15        1    2    3    4    5    6    7    8    9   10

          11.8 14.2  9.9 13.9 15.5 16.1 16.4 16.4 16.7 25.6

  16        1    2    3    4    5    6    7    8    9   10

          25.5 16.6 16.4 16.3 16.0 15.5 14.1 10.1 14.2 11.8

  17        1    2    3    4    5    6    7
           8.3  8.0  7.8  7.8  9.4 11.2  7.8
  18        1    2    3    4    5    6    7
           7.6 11.1  9.4  7.8  7.7  8.1  8.1
1

RECEIVER    LEQ(H)   L10
105          43.2   45.2

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           3.5  5.2  5.3  4.9  5.1  5.8
   2        1    2    3    4    5    6
           7.9  8.2  8.1 14.8 16.5 20.6
   3        1
          21.0
   4        1    2    3
          22.9 31.3 29.9
   5        1    2    3    4    5    6
          27.1 24.4 24.6 29.5 32.1 29.6
   6        1    2    3
          26.7 26.0 29.5
   7        1    2    3    4
          29.5 25.8 26.6 28.0
   8        1    2    3    4    5    6
          32.1 29.6 24.7 24.4 27.1 28.7
   9        1    2    3
          31.2 23.1 20.8
  10        1
          20.6
  11        1    2    3    4    5    6
          17.5 15.3  8.2  8.2  8.0  8.0
  12        1    2    3    4    5
           5.1  5.0  5.2  5.2  3.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.4 22.7 16.3 22.2 22.3 22.5 14.6 14.4 14.7 14.6

          14.5 15.3 15.9 15.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.5 15.9 15.0 14.8 14.3 14.6 14.5 14.3 22.7 22.4

          21.3 17.7 23.1 19.4
  15        1    2    3    4    5    6    7    8    9   10

          13.7 17.1 13.4 13.7 14.1 14.3 14.5 14.6 14.8 21.0

  16        1    2    3    4    5    6    7    8    9   10

          20.9 14.6 14.5 14.3 14.3 14.0 13.7 13.3 17.2 13.8

  17        1    2    3    4    5    6    7
           4.1  4.6  6.2 10.0 11.4 12.6  9.3
  18        1    2    3    4    5    6    7
           9.0 12.7 11.4 10.0  5.1  4.5  4.0
1

RECEIVER    LEQ(H)   L10
106          45.1   47.4

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           3.5  5.3  5.4  5.1  5.3  6.1
   2        1    2    3    4    5    6
           8.1  8.5 12.1 15.6 18.2 21.3
   3        1
          22.9
   4        1    2    3
          24.2 32.0 30.7
   5        1    2    3    4    5    6
          28.2 25.7 25.9 31.8 34.5 31.7
   6        1    2    3
          29.6 29.2 32.9
   7        1    2    3    4
          33.1 29.2 29.7 30.3
   8        1    2    3    4    5    6
          34.7 32.3 26.1 25.9 28.1 29.6
   9        1    2    3
          32.0 24.4 22.0
  10        1
          21.2
  11        1    2    3    4    5    6
          19.0 15.8 12.8  8.6  8.2  8.2
  12        1    2    3    4    5
           5.2  5.2  5.4  5.3  3.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.8 23.9 17.0 22.7 22.7 23.0 21.7 14.5 14.9 14.7

          14.6 14.8 14.3 15.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.7 14.2 14.7 14.9 14.3 14.8 14.6 21.5 23.3 22.8

          21.9 18.5 24.3 19.9
  15        1    2    3    4    5    6    7    8    9   10

          14.2 18.2 14.0 14.4 14.8 14.9 15.1 15.3 15.4 21.5

  16        1    2    3    4    5    6    7    8    9   10

          21.5 15.3 15.3 14.9 14.9 14.7 14.4 14.0 18.3 14.3

  17        1    2    3    4    5    6    7
           4.3  8.0 10.4 10.3 11.7 13.2  9.8
  18        1    2    3    4    5    6    7
           9.6 13.1 11.8 10.3 10.3  7.4  4.2
1

RECEIVER    LEQ(H)   L10
107          46.8   49.0

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           3.7  5.4  5.5  5.3  5.5  6.2
   2        1    2    3    4    5    6
           8.4 14.8 13.2 16.2 19.6 22.1
   3        1
          24.7
   4        1    2    3
          25.8 32.7 32.0
   5        1    2    3    4    5    6
          29.6 27.6 28.1 33.7 37.4 34.8
   6        1    2    3
          31.6 30.5 33.7
   7        1    2    3    4
          33.6 30.2 31.3 33.1
   8        1    2    3    4    5    6
          37.2 34.2 28.5 28.1 29.6 30.6
   9        1    2    3
          32.6 26.0 23.5
  10        1
          22.0
  11        1    2    3    4    5    6
          20.3 16.4 13.0 15.5  8.4  8.4
  12        1    2    3    4    5
           5.4  5.3  5.5  5.4  3.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.3 24.4 18.9 24.0 23.3 23.2 23.2 20.9 15.0 14.8

          14.7 15.0 14.4 13.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.8 14.3 14.8 14.9 14.5 14.9 21.2 22.8 23.6 23.4

          23.1 20.3 24.8 20.4
  15        1    2    3    4    5    6    7    8    9   10

          14.8 19.4 14.8 15.1 15.5 15.7 15.9 16.0 16.1 22.1

  16        1    2    3    4    5    6    7    8    9   10

          22.1 16.0 16.0 15.7 15.6 15.4 15.0 14.7 19.5 14.9

  17        1    2    3    4    5    6    7
           8.0 12.0 10.6 10.7 12.2 13.8 10.5
  18        1    2    3    4    5    6    7
          10.2 13.8 12.2 10.7 10.6 12.2  6.7
1

RECEIVER    LEQ(H)   L10
108          47.2   49.4

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           3.7  5.5  5.6  5.4  5.6  6.4
   2        1    2    3    4    5    6
          16.4 16.6 13.2 16.7 20.9 22.7
   3        1
          26.1
   4        1    2    3
          27.7 33.7 32.1
   5        1    2    3    4    5    6
          29.9 27.8 28.4 34.5 37.7 35.1
   6        1    2    3
          31.8 30.7 33.8
   7        1    2    3    4
          33.6 30.4 31.5 33.4
   8        1    2    3    4    5    6
          37.6 34.6 28.3 27.7 29.8 30.9
   9        1    2    3
          33.6 27.8 25.1
  10        1
          22.7
  11        1    2    3    4    5    6
          21.5 16.9 13.3 15.7 17.4 13.2
  12        1    2    3    4    5
           5.5  5.4  5.5  5.5  3.8
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  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.7 24.8 19.2 25.3 23.7 23.5 23.1 23.9 19.9 14.8

          14.6 15.0 14.4 13.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.9 14.3 14.8 14.9 14.5 20.0 23.9 22.8 23.9 24.0

          24.5 20.7 25.1 20.7
  15        1    2    3    4    5    6    7    8    9   10

          16.3 20.0 15.2 15.6 16.0 16.2 16.5 16.5 16.6 22.5

  16        1    2    3    4    5    6    7    8    9   10

          22.5 16.5 16.5 16.3 16.1 15.9 15.6 15.1 20.0 16.6

  17        1    2    3    4    5    6    7
          13.3 11.0 10.9 11.0 12.7 14.3 13.5
  18        1    2    3    4    5    6    7
          13.0 14.2 12.7 11.0 10.7 11.0 13.4
1

 RECEIVER    LEQ(H)   L10
 109          48.3   50.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.1  9.3 15.8 15.6 15.7 16.4
   2        1    2    3    4    5    6
          19.0 14.3 13.8 17.5 22.8 24.3
   3        1
          28.3
   4        1    2    3
          31.3 35.5 33.7
   5        1    2    3    4    5    6
          31.8 30.7 30.9 35.6 38.1 35.3
   6        1    2    3
          31.9 30.8 33.8
   7        1    2    3    4
          33.7 30.5 31.6 33.6
   8        1    2    3    4    5    6
          37.9 35.5 30.7 30.6 31.7 32.6
   9        1    2    3
          35.4 31.2 28.6
  10        1
          24.3
  11        1    2    3    4    5    6
          23.4 17.8 14.0 14.3 17.8 18.9
  12        1    2    3    4    5
          15.8 15.7 15.9 15.7  5.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.4 25.6 20.0 26.2 26.0 24.2 23.4 23.5 25.5 20.1

          14.8 15.1 14.6 14.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.0 14.5 14.9 15.1 20.6 25.4 23.5 23.1 24.6 26.2

          25.3 21.5 25.9 21.5
  15        1    2    3    4    5    6    7    8    9   10

          18.5 21.2 16.4 16.8 17.1 17.4 17.6 17.6 17.4 23.1

  16        1    2    3    4    5    6    7    8    9   10

          23.1 17.3 17.5 17.4 17.2 17.0 16.8 16.3 21.1 18.5

  17        1    2    3    4    5    6    7
          12.5 11.4 11.5 11.8 13.6 17.9 14.7
  18        1    2    3    4    5    6    7
          14.4 17.7 13.5 11.8 11.3 11.4 12.7
1

 RECEIVER    LEQ(H)   L10
 110          50.1   52.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          15.7 17.7 18.0 17.9 17.6 15.8
   2        1    2    3    4    5    6
          15.1 15.1 14.7 18.6 25.6 26.9
   3        1
          29.9
   4        1    2    3
          33.9 40.5 37.6
   5        1    2    3    4    5    6
          34.5 31.5 31.4 36.0 38.3 35.3
   6        1    2    3
          31.9 30.7 33.7
   7        1    2    3    4
          33.6 30.4 31.6 33.7
   8        1    2    3    4    5    6
          38.2 35.9 31.2 31.3 34.3 36.3
   9        1    2    3
          40.5 34.7 32.0
  10        1
          25.9
  11        1    2    3    4    5    6
          26.5 20.4 15.0 15.1 15.1 16.6
  12        1    2    3    4    5
          15.2 17.4 18.1 17.8 15.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.0 26.2 20.8 27.0 27.4 25.9 24.2 23.9 25.3 26.4

          22.6 15.2 14.7 14.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.2 14.6 15.2 23.6 26.2 25.2 23.9 23.9 26.4 27.5

          26.2 22.4 26.6 22.1
  15        1    2    3    4    5    6    7    8    9   10

          19.5 22.1 17.3 17.6 20.2 22.2 22.8 23.0 22.8 28.5

  16        1    2    3    4    5    6    7    8    9   10

          28.5 22.7 23.0 22.6 22.1 20.4 17.6 17.2 22.0 19.4

  17        1    2    3    4    5    6    7
          11.7 12.2 12.5 13.0 17.2 19.7 15.7
  18        1    2    3    4    5    6    7
          15.5 19.7 16.8 12.9 12.4 12.2 11.6
1

 RECEIVER    LEQ(H)   L10
 111          50.4   52.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          16.7 18.6 18.9 19.0 16.2 16.4
   2        1    2    3    4    5    6
          15.7 15.8 15.4 19.4 26.3 27.8
   3        1
          29.8
   4        1    2    3
          34.8 41.0 37.9
   5        1    2    3    4    5    6
          34.7 31.6 31.4 35.9 38.1 35.1
   6        1    2    3
          31.5 30.3 33.3
   7        1    2    3    4
          33.2 30.0 31.3 33.4
   8        1    2    3    4    5    6
          38.0 35.9 31.3 31.4 34.5 36.6
   9        1    2    3
          41.2 35.4 32.0
  10        1
          28.6
  11        1    2    3    4    5    6
          26.7 20.7 15.7 15.8 15.8 16.6
  12        1    2    3    4    5
          16.3 16.3 18.5 18.7 16.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.5 30.2 21.1 27.4 27.9 26.1 24.9 24.5 25.6 27.4

          25.8 15.5 14.9 14.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.4 14.9 15.4 26.4 27.1 25.5 24.6 24.6 26.6 28.0

          26.5 22.6 30.4 22.6
  15        1    2    3    4    5    6    7    8    9   10

          19.8 24.5 17.7 18.0 18.4 20.3 23.3 23.4 23.2 28.8

  16        1    2    3    4    5    6    7    8    9   10

          28.7 23.1 23.3 23.3 20.3 18.3 18.0 17.6 24.4 19.8

  17        1    2    3    4    5    6    7
          12.4 13.0 13.2 13.7 16.9 20.3 16.2
  18        1    2    3    4    5    6    7
          16.0 20.3 16.3 13.7 13.2 13.0 12.3
1

 RECEIVER    LEQ(H)   L10
 112          49.2   51.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          16.9 18.8 19.0 19.1 19.6 20.7
   2        1    2    3    4    5    6
          22.8 16.6 16.1 19.8 26.3 28.5
   3        1
          29.3
   4        1    2    3
          34.0 37.9 36.2
   5        1    2    3    4    5    6
          34.3 31.2 31.0 35.4 37.5 34.4
   6        1    2    3
          30.8 28.2 30.8
   7        1    2    3    4
          31.0 28.5 30.6 32.7
   8        1    2    3    4    5    6
          37.4 35.3 30.8 31.0 34.2 35.4
   9        1    2    3
          38.0 33.5 28.5
  10        1
          29.2
  11        1    2    3    4    5    6
          27.0 20.1 16.3 16.6 20.8 22.9
  12        1    2    3    4    5
          19.6 19.2 19.1 18.8 16.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.4 27.7 22.1 28.3 26.3 26.2 25.5 25.5 27.8 27.5

          15.4 15.7 15.2 14.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.7 15.1 15.6 17.3 27.5 27.8 25.6 25.3 26.5 26.5

          27.5 23.6 28.1 23.5
  15        1    2    3    4    5    6    7    8    9   10

          18.7 23.0 18.1 18.5 21.6 20.3 19.0 19.1 19.3 27.3

  16        1    2    3    4    5    6    7    8    9   10

          27.6 19.2 19.0 18.8 20.1 21.6 18.4 18.0 23.0 19.1

  17        1    2    3    4    5    6    7
          14.9 13.7 13.8 14.1 15.7 17.3 15.7
  18        1    2    3    4    5    6    7
          15.0 17.2 15.8 14.0 13.7 13.8 15.2
1

 RECEIVER    LEQ(H)   L10
 113          46.2   48.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.4  6.2  6.4  6.5  7.1 18.4
   2        1    2    3    4    5    6
          22.9 22.3 16.5 19.9 20.8 30.9
   3        1
```

```
          29.7
4           1    2    3
          28.7 35.3 32.5
5           1    2    3    4    5    6
          29.4 26.7 26.7 31.9 33.5 29.0
6           1    2    3
          25.4 24.2 27.3
7           1    2    3    4
          27.3 24.0 25.2 27.4
8           1    2    3    4    5    6
          33.8 32.0 26.9 26.8 29.4 31.3
9           1    2    3
          35.3 29.1 29.4
10          1
          30.3
11          1    2    3    4    5    6
          23.2 20.1 16.6 21.0 22.9 22.6
12          1    2    3    4    5
          14.9  6.8  6.6  6.2  4.4
13          1    2    3    4    5    6    7    8    9   10

11         12   13   14
          23.2 25.7 20.1 26.0 26.1 26.3 26.1 27.2 25.7 15.4

          15.3 15.7 15.2 14.7
14          1    2    3    4    5    6    7    8    9   10

11         12   13   14
          14.7 15.1 15.5 15.6 15.1 25.8 27.3 25.8 26.7 26.3

          25.2 21.5 26.2 23.7
15          1    2    3    4    5    6    7    8    9   10

          17.9 21.5 19.0 19.5 19.4 19.3 19.3 19.2 22.3 25.3

16          1    2    3    4    5    6    7    8    9   10

          25.4 22.0 19.2 19.1 19.2 19.2 19.4 19.0 21.6 18.0

17          1    2    3    4    5    6    7
          18.6 14.3 14.1 14.2 15.6 17.1 13.6
18          1    2    3    4    5    6    7
          13.4 17.0 15.6 14.2 14.0 14.7 18.6
1

RECEIVER     LEQ(H)   L10
114           44.8   46.7

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

ROADWAY  SEGMENT

1           1    2    3    4    5    6
           4.4  6.2  6.4  6.4  6.7  7.6
2           1    2    3    4    5    6
          10.1 10.8 19.5 19.9 20.6 29.5
3           1
          30.8
4           1    2    3
          28.8 32.3 31.4
5           1    2    3    4    5    6
          28.4 25.2 25.1 29.6 32.0 28.4
6           1    2    3
          24.6 23.2 26.4
7           1    2    3    4
          26.4 23.0 24.6 26.8
8           1    2    3    4    5    6
          31.8 29.7 25.0 25.1 28.3 30.2
9           1    2    3
          32.3 30.3 29.9
10          1
          29.1
11          1    2    3    4    5    6
          20.9 20.1 18.9 15.2 10.1  9.8
12          1    2    3    4    5
           6.6  6.4  6.4  6.2  4.4
13          1    2    3    4    5    6    7    8    9   10

11         12   13   14
          21.7 25.5 19.9 25.8 26.3 26.6 26.5 15.1 15.5 15.3

          15.2 15.6 15.2 14.7
14          1    2    3    4    5    6    7    8    9   10

11         12   13   14
          14.7 15.1 15.5 15.5 15.1 15.4 15.2 26.3 27.0 26.3

          25.0 21.3 25.9 21.7
15          1    2    3    4    5    6    7    8    9   10

          17.7 20.3 15.7 17.6 18.9 19.2 19.2 19.5 19.9 25.6

16          1    2    3    4    5    6    7    8    9   10

          25.5 19.9 19.4 19.0 19.0 18.8 17.7 15.7 20.4 17.7

17          1    2    3    4    5    6    7
           5.9 15.1 14.6 14.5 15.9 17.0 13.4
18          1    2    3    4    5    6    7
          13.2 17.0 15.8 14.5 14.5 14.6  5.8
1

RECEIVER     LEQ(H)   L10
115           42.4   44.3

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

ROADWAY  SEGMENT

1           1    2    3    4    5    6
          13.0 14.9 15.4 15.3 15.6 16.2
2           1    2    3    4    5    6
          15.8 13.6 13.0 16.0 16.4 17.1
3           1
          28.2
4           1    2    3
          30.0 28.9 28.4
5           1    2    3    4    5    6
          26.1 23.0 22.7 26.6 28.0 24.4
6           1    2    3
          21.8 21.4 25.3
7           1    2    3    4
          25.3 21.3 21.8 23.1
8           1    2    3    4    5    6
          28.1 26.8 22.8 23.0 26.0 27.2
9           1    2    3
          29.1 29.6 28.5
10          1
          17.2
11          1    2    3    4    5    6
          16.5 16.1 13.0 13.5 13.6 18.8
12          1    2    3    4    5
          15.8 15.7 15.7 15.3 13.3

13          1    2    3    4    5    6    7    8    9   10

11         12   13   14
          13.6 17.8 12.2 18.4 18.9 19.1 18.8 24.5 26.0 24.1

          22.8 22.3 22.6 19.8
14          1    2    3    4    5    6    7    8    9   10

11         12   13   14
          19.9 22.7 22.2 23.1 23.8 25.9 24.4 18.6 19.6 19.0

          17.6 13.7 18.1 13.7
15          1    2    3    4    5    6    7    8    9   10

          10.6 12.8  7.7  7.9  8.1  8.2  8.3 15.3 17.9 25.1

16          1    2    3    4    5    6    7    8    9   10

          25.0 17.8 14.9  8.1  8.1  8.0  7.9  7.6 12.7 10.6

17          1    2    3    4    5    6    7
           9.1  9.4  9.1  8.9  9.9 10.6  6.7
18          1    2    3    4    5    6    7
           6.4 10.7  9.9  8.8  9.0  9.4  9.8
1

RECEIVER     LEQ(H)   L10
116           42.9   44.9

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

ROADWAY  SEGMENT

1           1    2    3    4    5    6
           7.9  9.7  9.8  9.6  9.7 10.6
2           1    2    3    4    5    6
          12.8 12.8 12.3 15.6 16.2 20.0
3           1
          29.5
4           1    2    3
          29.1 30.9 29.8
5           1    2    3    4    5    6
          26.3 23.0 22.6 27.0 28.6 25.8
6           1    2    3
          23.3 22.8 26.4
7           1    2    3    4
          26.3 22.6 23.2 24.4
8           1    2    3    4    5    6
          28.7 27.1 22.7 23.0 26.3 28.7
9           1    2    3
          31.0 29.2 29.5
10          1
          21.7
11          1    2    3    4    5    6
          16.2 15.7 12.3 12.7 12.8 12.7
12          1    2    3    4    5
           9.7  9.6  9.8  9.7  7.9
13          1    2    3    4    5    6    7    8    9   10

11         12   13   14
          13.7 17.8 12.2 18.5 19.0 19.3 19.0 18.8 19.2 20.9

          22.8 22.2 23.1 21.8
14          1    2    3    4    5    6    7    8    9   10

11         12   13   14
          24.0 20.8 22.0 23.2 20.0 19.1 18.9 18.8 19.7 19.1

          17.7 13.7 18.1 13.7
15          1    2    3    4    5    6    7    8    9   10

          10.6 12.6  7.6  7.8 16.8 18.0 18.3 19.6 20.4 27.7

16          1    2    3    4    5    6    7    8    9   10

          27.7 20.3 19.6 18.0 17.9 16.8  7.8  7.5 12.6 10.6

17          1    2    3    4    5    6    7
           8.8  9.1  8.9  8.6  9.7 10.5  6.6
18          1    2    3    4    5    6    7
           6.4 10.5  9.7  8.6  8.8  9.1  8.7
1

RECEIVER     LEQ(H)   L10
117           43.6   45.5

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

ROADWAY  SEGMENT

1           1    2    3    4    5    6
           7.8  9.6  9.6  9.4  9.5 10.4
2           1    2    3    4    5    6
          12.1 12.3 11.9 15.4 17.5 24.8
3           1
          29.2
4           1    2    3
          27.3 32.7 30.1
5           1    2    3    4    5    6
          26.6 23.3 23.0 27.4 29.6 27.2
6           1    2    3
          24.4 23.5 26.9
7           1    2    3    4
          26.9 23.2 24.2 25.6
8           1    2    3    4    5    6
          29.7 27.5 23.1 23.3 26.5 28.9
9           1    2    3
          32.8 28.4 29.3
10          1
          25.3
11          1    2    3    4    5    6
          18.1 15.4 12.0 12.2 12.1 12.5
12          1    2    3    4    5
           9.5  9.4  9.6  9.6  7.9
13          1    2    3    4    5    6    7    8    9   10

11         12   13   14
          13.7 17.8 12.2 18.4 18.9 19.2 18.9 18.7 19.1 19.0

          18.8 21.7 20.7 27.2
14          1    2    3    4    5    6    7    8    9   10

11         12   13   14
          27.2 20.6 21.5 19.1 18.7 19.1 18.8 18.6 19.6 18.9

          17.6 13.7 18.2 13.7
15          1    2    3    4    5    6    7    8    9   10

          10.4 15.5 16.7 17.1 17.7 18.9 20.0 20.7 21.8 28.1

16          1    2    3    4    5    6    7    8    9   10

          28.1 21.3 20.5 19.9 18.8 17.5 17.1 16.7 16.0 10.5
```

```
  17        1    2    3    4    5    6    7
           8.3  8.7  8.5  8.4  9.4 10.2  6.4
  18        1    2    3    4    5    6    7
           6.2 10.3  9.5  8.3  8.5  8.7  8.2
1

 RECEIVER    LEQ(H)   L10
 118          44.5   46.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           7.8  9.5  9.6  9.3  9.4  9.8
   2        1    2    3    4    5    6
          11.8 12.1 11.8 15.4 19.5 26.9
   3        1
          29.2
   4        1    2    3
          27.9 34.2 30.6
   5        1    2    3    4    5    6
          27.2 24.1 24.0 28.5 30.8 28.2
   6        1    2    3
          25.0 24.5 27.9
   7        1    2    3    4
          28.0 24.4 24.9 26.6
   8        1    2    3    4    5    6
          30.8 28.5 23.9 24.0 27.1 29.3
   9        1    2    3
          34.1 28.5 29.5
  10        1
          27.5
  11        1    2    3    4    5    6
          20.1 15.5 11.9 12.0 11.8 12.0
  12        1    2    3    4    5
           9.3  9.4  9.6  9.5  7.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.0 26.3 20.7 23.7 18.9 19.2 18.9 18.6 19.1 19.0

          18.8 19.0 19.3 19.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.6 18.9 18.9 19.1 18.7 19.0 18.7 18.6 19.6 19.0

          22.8 22.2 26.6 22.1
  15        1    2    3    4    5    6    7    8    9   10

          10.8 21.6 16.8 17.3 19.4 21.9 22.1 22.7 22.6 28.1

  16        1    2    3    4    5    6    7    8    9   10

          28.1 22.4 22.7 22.0 21.9 19.4 17.3 16.7 21.6 12.4

  17        1    2    3    4    5    6    7
           8.0  8.5  8.4  8.2  9.3 10.3  8.9
  18        1    2    3    4    5    6    7
           6.2 10.2  9.3  8.1  8.3  8.5  8.0
1

 RECEIVER    LEQ(H)   L10
 119          45.4   47.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           7.6  9.2  9.2  8.8  8.9  9.4
   2        1    2    3    4    5    6
          11.4 11.6 11.4 17.0 19.6 27.9
   3        1
          28.1
   4        1    2    3
          29.6 34.3 30.7
   5        1    2    3    4    5    6
          27.5 24.4 24.3 29.0 31.5 29.1
   6        1    2    3
          27.9 28.6 32.5
   7        1    2    3    4
          32.4 28.5 28.0 27.6
   8        1    2    3    4    5    6
          31.4 28.9 24.3 24.4 27.4 29.4
   9        1    2    3
          34.2 30.0 27.5
  10        1
          28.4
  11        1    2    3    4    5    6
          19.9 17.7 11.5 11.6 11.4 11.6
  12        1    2    3    4    5
           8.8  8.9  9.2  9.2  7.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.8 26.0 20.5 26.7 26.6 19.0 18.6 18.5 18.8 18.7

          18.5 18.7 18.2 18.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.5 18.1 18.6 18.9 18.4 18.7 18.5 18.4 19.4 27.0

          25.8 22.0 26.4 21.9
  15        1    2    3    4    5    6    7    8    9   10

          18.6 21.3 16.6 20.0 22.3 22.3 22.1 21.9 22.4 27.9

  16        1    2    3    4    5    6    7    8    9   10

          27.9 22.3 21.9 22.1 22.3 22.5 20.2 16.5 21.3 18.7

  17        1    2    3    4    5    6    7
           7.6  8.1  7.9  7.8 13.2 18.2 14.6
  18        1    2    3    4    5    6    7
          14.4 18.1 12.2  7.8  7.8  8.1  7.5
1

 RECEIVER    LEQ(H)   L10
 120          43.7   45.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           6.8  8.5  8.5  8.3  8.3  9.0
   2        1    2    3    4    5    6
          10.6 10.8 10.5 14.0 18.0 25.5
   3        1
          25.8
   4        1    2    3
          27.1 31.2 27.9
   5        1    2    3    4    5    6
          25.3 22.7 22.8 27.6 31.0 28.8
   6        1    2    3
          27.8 28.5 32.5
   7        1    2    3    4
          32.4 28.3 27.6 27.2
   8        1    2    3    4    5    6
          30.9 27.7 22.8 22.7 25.4 26.8
   9        1    2    3
          31.2 27.6 24.9
  10        1
          25.0
  11        1    2    3    4    5    6
          18.4 14.4 10.6 10.8 10.6 11.0
  12        1    2    3    4    5
           8.3  8.3  8.6  8.5  6.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.1 25.4 19.7 24.5 18.0 18.3 18.0 17.8 18.2 18.0

          19.0 20.3 20.4 17.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.5 20.1 20.2 19.1 17.7 18.1 17.9 17.7 18.7 18.1

          23.8 21.2 25.7 21.2
  15        1    2    3    4    5    6    7    8    9   10

          12.8 20.0 15.5 16.0 16.5 16.6 16.8 16.8 16.7 22.4

  16        1    2    3    4    5    6    7    8    9   10

          22.4 16.6 16.8 16.6 16.5 16.3 16.0 15.4 20.1 13.6

  17        1    2    3    4    5    6    7
           6.9  7.4  7.2  7.0  8.2  9.2 12.1
  18        1    2    3    4    5    6    7
          11.1  9.1  8.2  7.0  7.1  7.3  6.8
1

 RECEIVER    LEQ(H)   L10
 121          42.2   44.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           1.8  3.5  3.5  3.4  3.5  4.2
   2        1    2    3    4    5    6
           6.5  7.2  9.8 13.5 15.7 17.8
   3        1
          19.1
   4        1    2    3
          24.6 31.9 28.7
   5        1    2    3    4    5    6
          24.3 20.9 20.6 25.4 28.8 28.5
   6        1    2    3
          28.3 27.4 30.6
   7        1    2    3    4
          30.5 27.1 28.1 26.7
   8        1    2    3    4    5    6
          28.7 25.4 20.6 20.9 24.3 27.5
   9        1    2    3
          31.9 25.0 19.2
  10        1
          17.7
  11        1    2    3    4    5    6
          16.2 13.7 10.5  7.1  6.5  6.5
  12        1    2    3    4    5
           3.4  3.4  3.6  3.5  1.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.3 19.3 13.7 19.7 19.7 20.0 18.5 12.7 13.0 12.9

          12.7 13.0 14.2 13.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.5 13.9 12.9 13.0 12.5 13.0 12.8 18.4 20.3 19.8

          18.8 15.1 19.6 15.3
  15        1    2    3    4    5    6    7    8    9   10

          11.3 14.0  9.2  9.4  9.9 10.0 10.4 14.9 16.0 22.6

  16        1    2    3    4    5    6    7    8    9   10

          22.5 15.9 14.7 10.2  9.9  9.8  9.4  9.1 14.0 11.4

  17        1    2    3    4    5    6    7
           2.5  5.5  7.8  7.7  9.0 10.4  7.0
  18        1    2    3    4    5    6    7
           6.7 10.4  9.0  7.7  7.8  5.0  2.4
```

```
                    ************************
                           OPTIMA-VU1
                    ************************
                  BARRIER OPTIMIZATION PROGRAM USING
                 PARTIAL SOUND ENERGIES COMPUTED BY THE
                          STAMINA 2.0 PROGRAM
              MODIFIED FROM THE FHWA VAX VERSON -- MARCH 1983

         MODIFIED TO:
            1.   PLACE BARRIER COST DATA IN A DATA FILE CALLED
                 OPTCOST.DTA TO ALLOW USER TO USE COSTS OTHER THAN
                 THE FHWA NATIONAL AVERAGES.
                    ************************
           MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
                           IN JUNE 1991 BY
           VANDERBILT ENGINEERING CENTER FOR TRANSPORTATION
                  OPERATIONS AND RESEARCH (VECTOR)
         BOX 96-B, VANDERBILT UNIVERSITY, NASHVILLE, TENNESSEE 37235
                           (615) 322-3683
                    ************************

     PROBLEM TITLE
     *************
 Meadowood - Single-Family 1st Floor (Receivers 82-121)No 15

             EFFECTIVENESS/COST RATIO AND BARRIER HEIGHT MATRICES
             ****************************************************
BARRIER SECTION       EFFECTIVENESS/COST                  CORRESPONDING
  NO  IDENT                 RATIO                          BARRIER HEIGHTS(IN
FT)

 HEIGHT INDEX   1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8
    1  1        *  0.                                 0. 0.
    2  2        *  0.                                 0. 0.
    3  3        *  0.                                 0. 0.
    4  5        *  0.                                 0. 0.
    5  6        *  0.                                 0. 0.
    6  7        *  0.                                 0. 0.
    7  8        *  0.                                 0. 0.
    8  9        *  0.                                 0. 0.
    9  10       *  0.                                 0. 0.
   10  11       *  0.                                 0. 0.
   11  12       *  0.                                 0. 0.
   12  13       *  0.                                 0. 0.
   13  15        *  21.  19.  20.  19.  17.  15.  15.  0. 3. 4. 5. 6. 7. 8.
9.
   14  16        *  22.  21.  20.  18.  16.  14.  14.  0. 3. 4. 5. 6. 7. 8.
9.
   15  17        *  22.  20.  20.  19.  17.  15.  15.  0. 3. 4. 5. 6. 7. 8.
9.
   16  18        *  17.  16.  15.  14.  13.  11.  10.  0. 3. 4. 5. 6. 7. 8.
9.
   17  19        *  18.  17.  16.  14.  13.  11.  10.  0. 3. 4. 5. 6. 7. 8.
9.
   18  20        *  18.  16.  16.  15.  14.  13.  12.  0. 3. 4. 5. 6. 7. 8.
9.
   19  21        *  19.  17.  17.  16.  15.  13.  12.  0. 3. 4. 5. 6. 7. 8.
9.
   20  22        *  16.  13.  13.  14.  13.  12.  11.  0. 3. 4. 5. 6. 7. 8.
9.
   21  24        *  26.  24.  23.  21.  20.  18.  17.  0. 3. 4. 5. 6. 7. 8.
9.
   22  25        *  25.  25.  23.  21.  19.  18.  17.  0. 3. 4. 5. 6. 7. 8.
9.
   23  26        *  25.  24.  22.  19.  18.  16.  15.  0. 3. 4. 5. 6. 7. 8.
9.
   24  27        *  19.  17.  17.  16.  15.  14.  13.  0. 3. 4. 5. 6. 7. 8.
9.
   25  28        *  16.  17.  16.  14.  13.  12.  12.  0. 3. 4. 5. 6. 7. 8.
9.
   26  29        *  26.  24.  25.  23.  20.  18.  17.  0. 3. 4. 5. 6. 7. 8.
9.
   27  30        *  18.  18.  18.  17.  17.  16.  15.  0. 3. 4. 5. 6. 7. 8.
9.
   28  32        *  16.  16.  15.  14.  13.  13.  12.  0. 3. 4. 5. 6. 7. 8.
9.
   29  33        *  25.  23.  23.  22.  20.  18.  17.  0. 3. 4. 5. 6. 7. 8.
9.
   30  34        *  12.  12.  11.  10.   9.   9.   8.  0. 3. 4. 5. 6. 7. 8.
9.
   31  35        *  12.  12.  11.  10.   9.   9.   8.  0. 3. 4. 5. 6. 7. 8.
9.
   32  36        *  14.  14.  12.  10.   8.   7.   7.  0. 3. 4. 5. 6. 7. 8.
9.
   33  37        *   9.  10.  10.   9.   9.   8.   8.  0. 3. 4. 5. 6. 7. 8.
9.
   34  38        *  23.  21.  20.  17.  15.  14.  13.  0. 3. 4. 5. 6. 7. 8.
9.
   35  39        *   3.   4.   3.   1.   1.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
   36  40        *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
   37  41        *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
   38  41b       * -13. -13. -14. -15. -15. -15. -16.  0. 3. 4. 5. 6. 7. 8.
9.
   39  42        *  -3.  -3.  -4.  -4.  -5.  -5.  -5.  0. 3. 4. 5. 6. 7. 8.
9.
   40  42b       *  -6.  -6.  -7.  -7.  -8.  -8.  -8.  0. 3. 4. 5. 6. 7. 8.
9.
   41  43        *   2.   2.   1.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
   42  44        *   1.   0.   0.  -1.  -1.  -2.  -2.  0. 3. 4. 5. 6. 7. 8.
9.
   43  45        *   1.   0.   0.  -1.  -1.  -1.  -2.  0. 3. 4. 5. 6. 7. 8.
9.
   44  46        *   1.   0.   0.  -1.  -1.  -1.  -2.  0. 3. 4. 5. 6. 7. 8.
9.
   45  47        *   1.   1.   0.   0.  -1.  -1.  -1.  0. 3. 4. 5. 6. 7. 8.
9.
   46  48        * -10. -10. -11. -12. -12. -13. -13.  0. 3. 4. 5. 6. 7. 8.
9.
   47  49        *  -9.  -9. -10. -10. -11. -11. -11.  0. 3. 4. 5. 6. 7. 8.
9.
   48  50        * -11. -11. -11. -12. -12. -12. -12.  0. 3. 4. 5. 6. 7. 8.
9.
   49  51        *  -9.  -9. -10. -11. -11. -11. -11.  0. 3. 4. 5. 6. 7. 8.
9.
   50  52        *  -9.  -9. -10. -10. -10. -11. -11.  0. 3. 4. 5. 6. 7. 8.
9.
   51  54        *   4.   4.   3.   3.   2.   2.   2.  0. 3. 4. 5. 6. 7. 8.
9.
   52  55        *   5.   5.   5.   4.   4.   4.   4.  0. 3. 4. 5. 6. 7. 8.
9.
   53  56        *   8.   8.   7.   7.   7.   6.   6.  0. 3. 4. 5. 6. 7. 8.
9.
   54  57        *   9.   9.   8.   7.   7.   7.   7.  0. 3. 4. 5. 6. 7. 8.
9.
   55  58        *  -2.  -3.  -3.  -4.  -4.  -4.  -4.  0. 3. 4. 5. 6. 7. 8.
9.
   56  59        *  -7.  -7.  -8.  -9.  -9.  -9.  -9.  0. 3. 4. 5. 6. 7. 8.
9.
   57  60        *   5.   5.   4.   3.   3.   3.   2.  0. 3. 4. 5. 6. 7. 8.
9.
   58  61        *   4.   4.   3.   2.   2.   2.   2.  0. 3. 4. 5. 6. 7. 8.
9.
   59  62       *  0.                                 0. 0.
   60  63       *  0.                                 0. 0.
   61  64       *  0.                                 0. 0.
   62  65       *  0.                                 0. 0.
   63  66       *  0.                                 0. 0.
   64  67       *  0.                                 0. 0.
   65  68       *  0.                                 0. 0.
   66  69       *  0.                                 0. 0.
   67  70       *  0.                                 0. 0.
   68  72       *  0.                                 0. 0.
   69  73       *  0.                                 0. 0.
   70  74       *  0.                                 0. 0.
   71  75       *  0.                                 0. 0.
   72  76       *  0.                                 0. 0.
   73  78       *  0.                                 0. 0.
   74  79       *  0.                                 0. 0.
   75  81       *  0.                                 0. 0.
   76  82       *  0.                                 0. 0.
   77  82b      *  0.                                 0. 0.
   78  82c      *  0.                                 0. 0.
   79  84       *  0.                                 0. 0.
   80  85       *  0.                                 0. 0.
   81  85b      *  0.                                 0. 0.
   82  85c      *  0.                                 0. 0.
   83  85d      *  0.                                 0. 0.
   84  86       *  0.                                 0. 0.
   85  86b      *  0.                                 0. 0.
   86  87       *  0.                                 0. 0.
   87  87b      *  0.                                 0. 0.
   88  87c      *  0.                                 0. 0.
   89  87d      *  0.                                 0. 0.
   90  87e      *  0.                                 0. 0.
   91  87f      *  0.                                 0. 0.
   92  87g      *  0.                                 0. 0.
   93  87h      *  0.                                 0. 0.
   94  88        *   0.   0.  -1.  -2.  -2.  -2.  -2.  0. 3. 4. 5. 6. 7. 8.
9.
   95  89        *   0.   0.  -1.  -2.  -2.  -2.  -2.  0. 3. 4. 5. 6. 7. 8.
9.
   96  90        *  -1.  -1.  -2.  -2.  -3.  -3.  -3.  0. 3. 4. 5. 6. 7. 8.
9.
   97  91        *  -1.  -1.  -2.  -3.  -3.  -3.  -3.  0. 3. 4. 5. 6. 7. 8.
9.
   98  92        *  -2.  -2.  -3.  -4.  -4.  -4.  -4.  0. 3. 4. 5. 6. 7. 8.
9.
   99  93        *  -2.  -2.  -3.  -3.  -3.  -3.  -4.  0. 3. 4. 5. 6. 7. 8.
9.
  100  94        *  -8.  -8.  -8.  -9.  -9.  -9.  -9.  0. 3. 4. 5. 6. 7. 8.
9.
  101  95        * -16. -16. -16. -17. -17. -17. -17.  0. 3. 4. 5. 6. 7. 8.
9.
  102  96        * -19. -19. -20. -20. -21. -21. -21.  0. 3. 4. 5. 6. 7. 8.
9.
  103  98       *  0.                                 0. 0.
  104  99       *  0.                                 0. 0.
  105  100      *  0.                                 0. 0.
  106  101      *  0.                                 0. 0.
  107  102      *  0.                                 0. 0.
  108  104      *  0.                                 0. 0.
  109  105      *  0.                                 0. 0.
  110  106      *  0.                                 0. 0.
  111  108a     *  0.                                 0. 0.
  112  108b     *  0.                                 0. 0.
  113  109      *  0.                                 0. 0.
  114  110      *  0.                                 0. 0.

 HEIGHT INDEX   1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8

 Meadowood - Single-Family 1st Floor (Receivers 82-121)No 15


 BARRIER HEIGHT INDEX FOR EACH BARRIER SECTION
   1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
   1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
   1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
   1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
   1  1  1  1  1  1  1  1  1  1  1  1  1  1
 CORRESPONDING BARRIER HEIGHTS FOR EACH SECTION
  0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
  0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
  0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
  0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
  0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

      R E S U L T S
      *************

 REC     REC ID          LEQ      LEQ(Z(0))       IL
   1     82              50.5      50.5           .0
   2     83              47.1      47.1           .0
   3     84              52.9      52.9           .0
   4     85              54.0      54.0           .0
   5     86              51.4      51.4           .0
   6     87              51.5      51.5           .0
   7     88              49.9      49.9           .0
   8     89              52.0      52.0           .0
   9     90              50.3      50.3           .0
  10     91              51.7      51.7           .0
  11     92              52.9      52.9           .0
  12     93              53.3      53.3           .0
  13     94              52.4      52.4           .0
  14     95              51.2      51.2           .0
  15     96              48.6      48.6           .0
  16     97              46.4      46.4           .0
  17     98              48.6      48.6           .0
  18     99              46.3      46.3           .0
  19     100             48.7      48.7           .0
  20     101             47.8      47.8           .0
  21     102             47.4      47.4           .0
  22     103             47.1      47.1           .0
  23     104             47.0      47.0           .0
  24     105             45.2      45.2           .0
  25     106             46.8      46.8           .0
  26     107             47.3      47.3           .0
  27     108             47.3      47.3           .0
  28     109             48.4      48.4           .0
  29     110             50.4      50.4           .0
  30     111             50.7      50.7           .0
  31     112             50.4      50.4           .0
  32     113             47.7      47.7           .0
  33     114             46.0      46.0           .0
  34     115             43.4      43.4           .0
  35     116             43.6      43.6           .0
  36     117             44.1      44.1           .0
  37     118             44.9      44.9           .0
  38     119             45.6      45.6           .0
  39     120             43.9      43.9           .0
  40     121             43.2      43.2           .0
```

BARRIER TYPE	COST	AREA (SQ. FT.)
FH-BERM	0.	0.
FH-MASON	0.	0.
FH-WOOD	0.	0.
FH-CONC	0.	0.
FH-STEEL	0.	0.

****

TOTALS:	$	0.	0.

Meadowood - Single-Family 1st Floor (Receivers 82-121)No 15

BARRIER HEIGHT INDEX FOR EACH BARRIER SECTION

```
  1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  1  1  1  1  1  2  2  2  2  2
  2  2  2  2  2  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  2  2
  2  2  2  2  2  2  2  2  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  3  3  3  3
  3  3  1  1  1  1  1  1  1  1  1  1  1  1
```

CORRESPONDING BARRIER HEIGHTS FOR EACH SECTION

```
 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 3. 3. 3. 0. 0. 0. 0. 0. 3. 3. 3. 3. 3.
 3. 3. 3. 3. 3. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 3. 3. 3. 3. 3.
 3. 3. 3. 3. 3. 3. 3. 3. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 3. 3. 3. 4. 4. 4. 4.
 4. 4. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
```

R E S U L T S
****

REC	REC ID	LEQ	LEQ(Z(0))	IL
1	82	50.4	50.5	.1
2	83	46.7	47.1	.4
3	84	49.2	52.9	3.6
4	85	49.8	54.0	4.2
5	86	48.5	51.4	2.9
6	87	47.6	51.5	3.9
7	88	47.3	49.9	2.6
8	89	48.2	52.0	3.8
9	90	47.6	50.3	2.7
10	91	48.2	51.7	3.5
11	92	48.9	52.9	4.0
12	93	50.1	53.3	3.2
13	94	48.7	52.4	3.7
14	95	47.9	51.2	3.3
15	96	48.4	48.6	.2
16	97	46.2	46.4	.2
17	98	48.5	48.6	.1
18	99	46.2	46.3	.1
19	100	48.6	48.7	.1
20	101	47.8	47.8	.1
21	102	47.3	47.4	.1
22	103	47.0	47.1	.1
23	104	47.0	47.0	.1
24	105	45.0	45.2	.1
25	106	46.5	46.8	.3
26	107	47.1	47.3	.2
27	108	47.3	47.3	.0
28	109	48.3	48.4	.0
29	110	50.3	50.4	.1
30	111	50.6	50.7	.1
31	112	49.9	50.4	.5
32	113	47.0	47.7	.7
33	114	45.5	46.0	.5
34	115	43.1	43.4	.3
35	116	43.4	43.6	.2
36	117	44.0	44.1	.1
37	118	44.7	44.9	.1
38	119	45.6	45.6	.1
39	120	43.8	43.9	.1
40	121	43.1	43.2	.1

BARRIER TYPE	COST	AREA (SQ. FT.)
FH-BERM	0.	0.
FH-MASON	52900.	10790.
FH-WOOD	0.	0.
FH-CONC	0.	0.
FH-STEEL	0.	0.

****

TOTALS:	$	52900.	10790.

END OF ALL CASES

****

STAM2VU1

Version 1.20

****

STAMINA 2.0/BCR

MODIFIED FROM FHWA VERSION 3 (MARCH 1983)

TRAFFIC NOISE PREDICTION MODEL

MODIFIED TO:

1. ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
2. CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
3. PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.

****

MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
AND BOWLBY & ASSOCIATES, INC.
2014 BROADWAY, SUITE 210
NASHVILLE, TN 37203-2425
TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE *.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.

(INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH)

Meadowood - Single-Family 2nd Floor (Receivers 82-121)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

HEIGHT	CODE	DESCRIPTION
.00	1	RECEIVER HEIGHT ADJUSTMENT
1.00	2	A-WEIGHTED SOUND LEVEL ONLY
.00	3	HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
.00	4	HEIGHT ADJUSTMENT FOR HEAVY TRUCKS (HT)
.00	5	HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS (MT)
.000	6	HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4) CARS--CALVENO C0 = 5.20 C1 = 38.80 S0 = .00
2.300	7	HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5) MT--CALVENO C0 = 35.30 C1 = 25.60 S0 = .00
8.000	8	HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6) HT--CALVENO C0 = 50.40 C1 = 19.20 S0 = .00

0ROADWAY 1 HRC nb (76 to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6287767.4	2067284.0	276.0	0
2	6287704.7	2067456.2	276.0	0
3	6287629.7	2067702.5	279.0	0
4	6287568.8	2067936.5	284.0	0
5	6287512.3	2068148.3	284.0	0
6	6287446.9	2068359.4	282.0	0
7	6287374.5	2068606.6	279.0	0

0ROADWAY 2 HRC nb (Pankey to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
7	6287374.5	2068606.6	279.0	0
8	6287273.9	2068832.6	278.0	0
9	6287137.9	2069057.7	278.0	0
10	6287017.0	2069263.4	280.0	0
11	6286760.9	2069688.9	285.0	0
12	6286533.2	2070137.4	290.0	0
13	6286310.7	2070587.7	296.0	0

0ROADWAY 3 HRC nb (School to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
13	6286310.7	2070587.7	296.0	0
14	6286086.4	2071030.0	302.0	0

0ROADWAY 4 HRC nb (26 to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286086.4	2071030.0	302.0	0
15	6285859.5	2071475.8	308.0	0
16	6285540.8	2072106.2	311.0	0
17	6285403.1	2072385.2	310.0	0

0ROADWAY 5 HRC nb (Harvest Glen to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
17	6285403.1	2072385.2	310.0	0
18	6285328.1	2072574.1	310.0	0
19	6285298.0	2072673.9	310.0	0
20	6285270.7	2072773.6	311.0	0
21	6285221.2	2073078.2	314.0	0
22	6285201.8	2073673.3	322.0	0
23	6285188.6	2074037.0	338.0	0

0ROADWAY 6 HRC nb (Longspur to Baltimore)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
23	6285188.6	2074037.0	338.0	0
24	6285145.3	2074308.9	346.0	0
25	6285056.1	2074546.4	351.0	0
26	6284650.0	2075149.4	356.0	0

0ROADWAY 7 HRC sb (Baltimore to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6284621.8	2075132.6	356.0	0
2	6285015.5	2074527.9	351.0	0
3	6285099.4	2074300.1	346.0	0
4	6285141.8	2074033.5	338.0	0
5	6285159.4	2073671.5	322.0	0

0ROADWAY 8 HRC sb (Longspur to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
5	6285159.4	2073671.5	322.0	0
6	6285181.5	2073072.9	314.0	0
7	6285228.3	2072759.5	311.0	0
8	6285256.5	2072658.0	310.0	0
9	6285287.4	2072557.3	310.0	0
10	6285368.7	2072369.3	310.0	0
11	6285504.6	2072087.7	311.0	0

0ROADWAY 9 HRC sb (Harvest Glen to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
11	6285504.6	2072087.7	311.0	0
12	6285818.9	2071457.3	308.0	0
13	6286045.8	2071007.9	302.0	0
14	6286269.2	2070567.4	296.0	0

0ROADWAY 10 HRC sb (26 to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	14.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286269.2	2070567.4	296.0	0
15	6286493.4	2070122.4	290.0	0

0ROADWAY 11 HRC sb (School to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
15	6286493.4	2070122.4	290.0	0
16	6286720.3	2069667.7	285.0	0
17	6286977.2	2069239.6	280.0	0
18	6287102.6	2069033.0	278.0	0
19	6287238.6	2068813.1	278.0	0

20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0

	COORDINATES X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

1

BARRIER 1 TYPE(A) Pad Edges 1

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286634.5	2070357.1	300.0	300.0	.0	0
2	6286502.0	2070298.3	300.0	300.0		
3	6286265.1	2070793.1	310.0	310.0		
4	6286320.9	2070828.5	310.0	310.0		

1

BARRIER 2 TYPE(A) Pad Edges 2

	COORDINATES X	Y	Z	Z0	DELZ	P
5	6286349.5	2070944.8	315.0	315.0	.0	0
6	6286239.3	2070896.7	314.0	314.0		
7	6286196.9	2070902.4	314.0	314.0		
8	6286078.1	2071137.0	311.0	311.0		
9	6286004.6	2071292.5	316.0	316.0		
10	6286004.6	2071603.5	317.0	317.0		
11	6286004.6	2071990.8	321.0	321.0		
12	6286004.5	2072360.7	324.0	324.0		
13	6286289.0	2072499.4	326.0	326.0		
14	6286498.0	2072566.2	329.0	329.0		

1

BARRIER 3 TYPE(A) Pad Edges 3

	COORDINATES X	Y	Z	Z0	DELZ	P
15	6286634.5	2072765.6	401.0	395.0	1.0	3
16	6286621.9	2072916.9	401.0	395.0		
17	6286648.3	2073055.3	403.0	397.0		
18	6286685.9	2073120.3	406.0	400.0		
19	6286802.5	2073223.1	414.0	408.0		
20	6286939.8	2073344.0	427.0	421.0		
21	6287080.9	2073468.3	440.0	434.0		
22	6287179.3	2073554.7	448.0	442.0		
23	6287319.9	2073660.5	453.0	447.0		

1

BARRIER 4 TYPE(A) Pad Edges 4

	COORDINATES X	Y	Z	Z0	DELZ	P
24	6286661.4	2072669.3	405.0	399.0	1.0	3
25	6286691.4	2072606.8	408.0	402.0		
26	6286808.6	2072443.9	419.0	413.0		
27	6286883.6	2072343.9	426.0	420.0		
28	6286840.1	2072178.6	431.0	425.0		
29	6286816.2	2072125.3	431.0	425.0		
30	6286823.2	2072059.3	431.0	425.0		
32	6286845.0	2072002.5	431.0	425.0		
33	6286884.7	2071971.4	431.0	425.0		

1

BARRIER 5 TYPE(A) Pad Edges 5

	COORDINATES X	Y	Z	Z0	DELZ	P
33	6286902.8	2071961.7	431.0	425.0	1.0	3
34	6286962.6	2071945.7	431.0	425.0		
35	6287015.8	2071960.1	431.0	425.0		
36	6287071.5	2071996.1	431.0	425.0		
37	6287133.1	2072101.5	439.0	433.0		
38	6287208.1	2072073.0	446.0	440.0		
39	6287286.5	2072058.4	449.0	443.0		
40	6287479.3	2072046.8	460.0	454.0		
41	6287668.5	2072035.1	471.0	465.0		
41b	6287685.1	2071982.5	500.0	494.0		

1

BARRIER 6 TYPE(A) Pad Edges 6

	COORDINATES X	Y	Z	Z0	DELZ	P
41b	6287685.1	2071982.5	500.0	494.0	1.0	3
42	6287686.6	2071882.5	500.0	494.0		
42b	6287699.0	2071869.6	500.0	494.0		
43	6287687.4	2071826.0	500.0	494.0		
44	6287537.5	2071795.8	499.0	493.0		
45	6287494.5	2071766.0	499.0	493.0		
46	6287457.5	2071786.6	499.0	493.0		
47	6287414.4	2071765.2	499.0	493.0		
48	6287295.5	2071799.6	499.0	493.0		
49	6287284.9	2071649.7	495.0	489.0		

1

BARRIER 7 TYPE(A) Pad Edges 7

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
49	6287284.9	2071649.7	495.0	489.0	1.0	3
50	6287348.9	2071527.3	493.0	487.0		
51	6287424.5	2071350.9	487.0	481.0		
52	6287467.2	2071294.2	485.0	479.0		
53	6287518.6	2071247.5	483.0	477.0		

1

BARRIER 8 TYPE(A) Pad Edges 8

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
54	6287218.1	2070892.1	423.0	417.0	1.0	3
55	6287157.9	2071011.8	428.0	422.0		
56	6287075.2	2071176.2	433.0	427.0		
57	6287007.6	2071272.7	433.0	427.0		
58	6286932.0	2071401.6	433.0	427.0		
59	6286944.0	2071476.9	433.0	427.0		
60	6286980.6	2071530.1	433.0	427.0		
61	6287085.3	2071587.4	433.0	427.0		
61b	6287195.3	2071545.3	436.0	430.0		

1

BARRIER 9 TYPE(A) Pad Edges 9

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
62	6287504.8	2073407.6	464.0	464.0	.0	0
63	6287455.9	2073368.6	463.0	463.0		
64	6287170.1	2073077.7	459.0	459.0		
65	6287084.1	2072959.0	458.0	458.0		
66	6287062.5	2072812.7	457.0	457.0		
67	6287098.4	2072672.4	456.0	456.0		
68	6287206.8	2072488.9	454.0	454.0		
69	6287296.9	2072394.7	453.0	453.0		
70	6287367.3	2072346.7	452.0	452.0		
71	6287469.2	2072361.5	452.0	452.0		

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BARRIER 10 TYPE(A) Pad Edges 10

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
72	6287697.7	2073088.0	486.0	486.0	.0	0
73	6287547.5	2072976.4	486.0	486.0		
74	6287491.4	2072888.6	486.0	486.0		
75	6287491.1	2072766.9	485.0	485.0		
76	6287635.8	2072596.6	482.0	482.0		
77	6287767.5	2072309.5	477.0	477.0		

1

BARRIER 11 TYPE(A) Pad Edges 11

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
78	6287168.3	2074113.6	447.0	447.0	.0	0
79	6287306.7	2073811.7	443.0	443.0		
80	6287536.9	2073481.4	457.0	457.0		

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BARRIER 12 TYPE(A) Pad Edges 12

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
81	6287283.0	2074170.1	465.0	465.0	.0	0
82	6287469.8	2073845.2	471.0	471.0		
82b	6287616.6	2073652.3	478.0	478.0		
82c	6287630.6	2073609.8	478.0	478.0		
83	6287702.0	2073532.9	475.0	475.0		

1

BARRIER 13 TYPE(A) Pad Edges 14

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
84	6288855.6	2071200.7	606.0	606.0	.0	0
85	6288817.6	2071249.1	606.0	606.0		
85b	6288817.1	2071249.5	600.0	600.0		
85c	6288775.2	2071293.2	600.0	600.0		
85d	6288774.8	2071293.5	593.0	593.0		
86	6288730.6	2071333.3	593.0	593.0		
86b	6288730.4	2071333.5	585.0	585.0		
87	6288637.1	2071415.2	574.0	574.0		
87b	6288636.6	2071415.5	558.0	558.0		
87c	6288577.5	2071447.1	558.0	558.0		

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BARRIER 14 TYPE(A) Pad Edges 15

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
87c	6288577.5	2071447.1	558.0	558.0	.0	0
87d	6288576.6	2071447.3	542.0	542.0		
87e	6288512.6	2071462.6	542.0	542.0		
87f	6288512.2	2071462.7	535.0	535.0		
87g	6288454.3	2071466.7	535.0	535.0		
87h	6288453.5	2071466.7	528.0	528.0		
87i	6288396.4	2071470.4	528.0	528.0		

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BARRIER 15 TYPE(A) Pad Edges 16

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
88	6287934.8	2071070.6	469.0	463.0	1.0	3
89	6287896.0	2071051.1	467.0	461.0		
90	6287829.7	2071017.7	463.0	457.0		
91	6287774.3	2070989.8	458.0	452.0		
92	6287719.9	2070962.3	452.0	446.0		
93	6287660.0	2070932.2	444.0	438.0		
94	6287602.9	2070903.4	437.0	431.0		
95	6287558.2	2070880.9	432.0	426.0		
96	6287504.6	2070853.9	432.0	426.0		
97	6287457.4	2070947.6	432.0	426.0		

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BARRIER 16 TYPE(A) Pad Edges 17

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
98	6287917.7	2071215.4	471.0	471.0	.0	0
99	6288056.8	2071153.4	487.0	487.0		
100	6288174.3	2071168.6	499.0	499.0		
101	6288341.6	2071223.3	517.0	517.0		
102	6288383.4	2071229.3	517.0	517.0		
103	6288411.9	2071206.0	518.0	518.0		

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BARRIER 17 TYPE(A) Pade Edges 18

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
104	6287531.1	2074308.7	483.0	483.0	.0	0
105	6287706.9	2074046.2	487.0	487.0		
106	6287847.9	2073869.2	491.0	491.0		
107	6287887.1	2073856.0	493.0	493.0		

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BARRIER 18 TYPE(A) Pad Edges 19

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
108a	6287776.1	2074544.5	503.0	503.0	.0	0
108b	6287725.5	2074618.8	503.0	503.0		
109	6287778.2	2074656.5	513.0	513.0		
110	6287798.1	2074702.8	518.0	518.0		
111	6287807.8	2074744.0	518.0	518.0		

1

Receivers @ 15'

	----------COORDINATES----------		
	X	Y	Z
82	6287240.5	2072077.8	454.0
83	6287109.1	2072080.3	441.0
84	6286962.4	2071956.6	439.0
85	6286827.2	2072089.3	439.0
86	6286860.5	2072192.6	439.0
87	6286873.0	2072375.1	431.0
88	6286836.1	2072426.2	427.0
89	6286797.7	2072477.9	424.0
90	6286761.7	2072527.8	420.0
91	6286725.2	2072577.9	417.0
92	6286688.4	2072638.8	414.0
93	6286639.8	2072799.4	409.0
94	6286637.0	2072967.7	409.0
95	6286677.5	2073086.5	412.0
96	6286772.8	2073179.9	418.0
97	6286846.0	2073247.0	422.0
98	6286920.0	2073312.4	431.0
99	6286985.8	2073370.3	436.0
100	6287055.6	2073432.3	445.0
101	6287113.4	2073481.9	449.0
102	6287162.5	2073523.6	453.0
103	6287215.7	2073565.6	457.0
104	6287274.1	2073611.0	460.0
105	6287492.5	2073384.0	478.0
106	6287408.7	2073302.7	477.0
107	6287329.6	2073219.8	476.0
108	6287251.2	2073144.3	474.0
109	6287160.6	2073043.7	473.0
110	6287083.1	2072899.9	472.0
111	6287082.6	2072754.3	471.0
112	6287161.8	2072585.1	470.0
113	6287251.0	2072461.1	468.0
114	6287331.5	2072382.6	467.0
115	6287755.2	2072368.7	492.0
116	6287683.4	2072520.8	495.0
117	6287621.2	2072633.3	497.0
118	6287548.3	2072717.4	499.0
119	6287498.4	2072850.1	501.0
120	6287611.8	2073011.0	501.0
121	6287432.9	2073646.1	462.0

1

ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

```
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
18 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
1

 SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

 1 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 2 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 3 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 4 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 5 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 6 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 7 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 8 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
 9 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
10 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
11 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
12 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
13 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
14 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
15 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
16 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
17 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
18 *  .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
      .0  .0  .0  .0  .0  .0  .0  .0  .0  .0
1

 RECEIVER     LEQ(H)   L10
 82            48.8   50.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
           18.9 25.4 25.7 25.9 26.5 27.9
    2        1    2    3    4    5    6
           30.7 29.9 18.9 22.3 23.2 30.3
    3        1
           34.4
    4        1    2    3
           35.7 35.1 29.9
    5        1    2    3    4    5    6
           27.2 24.5 24.5 29.1 31.3 29.6
    6        1    2    3
           29.3 28.3 31.5
    7        1    2    3    4
           31.5 28.0 29.0 27.8
    8        1    2    3    4    5    6
           31.3 29.1 24.5 24.5 27.2 28.9
    9        1    2    3
           35.2 37.2 36.2
   10        1
           33.0
   11        1    2    3    4    5    6
           23.5 22.5 19.1 27.9 30.6 30.0
   12        1    2    3    4    5
           26.4 25.9 25.7 25.4 23.4
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           23.0 27.0 21.5 27.5 27.8 28.2 28.0 32.2 34.3 31.2

           14.7 14.5 14.1 13.8
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           13.7 14.0 14.4 15.1 31.4 34.2 32.3 27.7 28.6 27.9

           26.7 22.9 27.4 23.1
   15        1    2    3    4    5    6    7    8    9   10

           19.5 22.3 17.8 18.3 23.1 24.9 24.9 24.7 24.4 29.8

   16        1    2    3    4    5    6    7    8    9   10

           29.8 24.3 24.6 24.7 24.7 23.1 18.3 17.7 22.3 19.5

   17        1    2    3    4    5    6    7
           25.8 16.8 16.6 16.5 17.9 19.0 15.5
   18        1    2    3    4    5    6    7
           15.3 19.0 17.9 16.5 16.5 17.0 25.9
1

 RECEIVER     LEQ(H)   L10
 83            48.4   50.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
           16.0 17.8 18.1 17.9 18.0 16.1
    2        1    2    3    4    5    6
           17.8 18.0 17.8 21.6 28.7 34.1
    3        1
           33.9
    4        1    2    3
           36.2 33.0 29.1
    5        1    2    3    4    5    6
           26.2 23.4 23.4 28.1 30.7 28.2
    6        1    2    3
           24.8 24.0 29.2
    7        1    2    3    4
           28.1 23.8 24.7 26.6
    8        1    2    3    4    5    6
           30.7 28.0 23.4 23.4 26.1 28.0
    9        1    2    3
           33.1 36.5 34.9
   10        1
           35.8
   11        1    2    3    4    5    6
           31.0 21.8 17.8 18.0 17.9 18.2
   12        1    2    3    4    5
           15.7 17.8 18.1 17.9 16.1
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           28.5 31.3 19.9 25.8 26.1 26.1 25.4 25.5 26.4 26.9

           34.0 34.5 32.1 22.4
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           22.3 32.6 34.4 34.0 26.6 26.3 25.5 25.2 26.5 26.2

           25.0 21.3 31.8 28.5
   15        1    2    3    4    5    6    7    8    9   10

           17.8 26.7 24.3 24.7 24.7 23.5 23.5 22.4 21.5 26.7

   16        1    2    3    4    5    6    7    8    9   10

           26.7 21.4 22.4 23.4 23.5 24.5 24.6 24.1 26.9 17.8

   17        1    2    3    4    5    6    7
           14.2 14.7 14.6 14.8 16.2 17.3 13.8
   18        1    2    3    4    5    6    7
           13.6 17.3 16.2 14.7 14.4 14.7 14.2
1

 RECEIVER     LEQ(H)   L10
 84            52.4   54.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
           14.6 16.2 16.3 16.0 16.1 16.9
    2        1    2    3    4    5    6
           19.1 19.7 19.9 32.2 38.7 35.3
    3        1
           35.9
    4        1    2    3
           39.4 43.9 37.3
    5        1    2    3    4    5    6
           30.1 26.4 26.1 30.3 31.8 28.3
    6        1    2    3
           24.7 23.6 26.9
    7        1    2    3    4
           26.8 23.3 24.5 26.7
    8        1    2    3    4    5    6
           31.7 30.3 26.0 26.4 30.0 36.4
    9        1    2    3
           43.6 41.5 38.1
   10        1
           37.4
   11        1    2    3    4    5    6
           38.4 33.6 20.1 19.9 19.2 19.2
   12        1    2    3    4    5
           16.2 16.2 16.4 16.2 14.6
   13        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           28.8 33.1 27.6 33.9 34.5 34.3 26.8 26.2 26.1 25.9

           26.7 28.6 27.9 27.1
   14        1    2    3    4    5    6    7    8    9   10

   11       12   13   14
           27.1 27.9 28.5 26.9 25.6 26.0 26.4 26.6 34.6 34.6

           33.0 29.1 33.5 28.9
   15        1    2    3    4    5    6    7    8    9   10

           26.7 29.4 24.8 25.1 25.4 25.5 25.6 25.4 25.2 30.6

   16        1    2    3    4    5    6    7    8    9   10

           30.6 25.0 25.3 25.4 25.4 25.3 25.1 24.6 29.4 26.6

   17        1    2    3    4    5    6    7
           15.5 16.5 16.6 23.4 26.8 27.3 23.1
   18        1    2    3    4    5    6    7
           22.9 27.3 26.8 22.5 16.5 16.4 15.4
1

 RECEIVER     LEQ(H)   L10
 85            54.1   55.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

    1        1    2    3    4    5    6
           14.5 16.4 16.6 16.4 16.5 17.2
    2        1    2    3    4    5    6
           28.1 31.5 31.9 36.3 37.9 34.9
    3        1
```

```
          35.5
   4        1    2    3
          41.4 44.9 40.0
   5        1    2    3    4    5    6
          36.1 32.5 32.2 36.3 37.8 34.2
   6        1    2    3
          30.4 29.2 32.3
   7        1    2    3    4
          32.3 28.9 30.2 32.5
   8        1    2    3    4    5    6
          37.7 36.2 32.1 32.4 35.9 38.7
   9        1    2    3
          44.6 41.9 38.1
  10        1
          37.0
  11        1    2    3    4    5    6
          37.7 36.3 31.9 31.4 29.7 27.4
  12        1    2    3    4    5
          16.6 16.5 16.7 16.5 14.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.6 32.9 27.4 33.6 34.2 34.5 34.1 33.8 33.7 25.5

          24.6 25.6 26.6 26.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          26.0 26.5 25.3 24.9 25.4 33.8 34.0 33.9 34.9 34.3

          32.8 28.9 33.3 28.7
  15        1    2    3    4    5    6    7    8    9   10

          26.3 29.2 24.5 24.9 25.2 25.3 25.4 25.3 25.1 30.5

  16        1    2    3    4    5    6    7    8    9   10

          30.5 25.0 25.2 25.2 25.2 25.1 24.8 24.4 29.1 26.3

  17        1    2    3    4    5    6    7
          25.2 26.4 26.1 25.7 26.4 27.0 22.8
  18        1    2    3    4    5    6    7
          22.5 27.0 26.4 25.6 26.0 26.4 25.0
1

 RECEIVER    LEQ(H)   L10
 86           52.6   54.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          13.3 15.1 15.2 15.0 15.1 15.8
   2        1    2    3    4    5    6
          18.0 19.6 26.1 30.3 31.9 33.7
   3        1
          34.5
   4        1    2    3
          40.7 44.4 39.9
   5        1    2    3    4    5    6
          36.0 32.6 32.2 36.4 38.0 34.4
   6        1    2    3
          30.6 29.4 32.5
   7        1    2    3    4
          32.5 29.1 30.5 32.7
   8        1    2    3    4    5    6
          37.8 36.3 32.1 32.4 35.8 38.5
   9        1    2    3
          44.1 41.1 36.6
  10        1
          34.0
  11        1    2    3    4    5    6
          32.0 30.3 26.1 22.9 18.2 18.1
  12        1    2    3    4    5
          15.1 15.1 15.3 15.2 13.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          24.2 28.3 22.7 28.8 29.1 29.3 28.9 28.7 25.4 24.4

          24.3 26.2 26.0 25.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          25.0 25.9 26.1 24.5 24.2 25.3 28.8 28.7 29.8 29.3

          27.9 24.2 28.6 24.3
  15        1    2    3    4    5    6    7    8    9   10

          21.3 24.3 19.7 20.5 21.1 21.8 22.1 22.5 23.0 30.0

  16        1    2    3    4    5    6    7    8    9   10

          30.2 22.9 22.4 21.9 21.6 21.1 20.4 19.6 24.3 21.4

  17        1    2    3    4    5    6    7
          16.6 21.1 20.8 20.4 21.1 21.7 17.7
  18        1    2    3    4    5    6    7
          17.4 21.7 21.2 20.3 20.7 21.0 16.0
1

 RECEIVER    LEQ(H)   L10
 87           52.1   54.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          10.7 12.4 12.6 12.3 12.4 13.2
   2        1    2    3    4    5    6
          15.4 16.1 22.9 26.2 25.6 30.4
   3        1
          33.0
   4        1    2    3
          39.6 43.8 39.7
   5        1    2    3    4    5    6
          36.1 32.7 32.4 36.7 38.4 34.9
   6        1    2    3
          31.1 29.9 33.0
   7        1    2    3    4
          32.9 29.6 30.9 33.2
   8        1    2    3    4    5    6
          38.2 36.6 32.2 32.5 35.9 38.3
   9        1    2    3
          43.5 40.0 35.2
  10        1
          32.4
  11        1    2    3    4    5    6
          25.8 25.0 25.0 16.1 15.5 15.4
  12        1    2    3    4    5
          12.4 12.5 12.7 12.5 10.8

  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          28.0 29.7 20.0 26.0 26.3 26.5 26.1 27.5 22.5 22.1

          22.7 23.4 22.4 22.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.2 22.3 23.3 23.0 21.7 22.4 27.5 25.8 26.9 26.4

          25.2 21.5 30.3 28.1
  15        1    2    3    4    5    6    7    8    9   10

          18.3 24.3 23.7 24.1 24.4 24.5 24.6 24.5 24.3 29.8

  16        1    2    3    4    5    6    7    8    9   10

          29.8 24.2 24.5 24.4 24.4 24.3 24.0 23.6 24.7 18.3

  17        1    2    3    4    5    6    7
          11.7 19.8 16.5 16.2 17.3 18.2 14.4
  18        1    2    3    4    5    6    7
          14.2 18.2 17.3 16.2 16.5 19.7 11.5
1

 RECEIVER    LEQ(H)   L10
 88           52.5   54.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          10.0 11.8 11.9 11.7 11.8 12.6
   2        1    2    3    4    5    6
          14.8 16.2 19.2 23.2 33.7 32.4
   3        1
          32.8
   4        1    2    3
          37.7 43.9 39.9
   5        1    2    3    4    5    6
          36.3 32.9 32.7 36.9 38.7 35.1
   6        1    2    3
          31.4 30.1 33.2
   7        1    2    3    4
          33.1 29.9 31.2 33.5
   8        1    2    3    4    5    6
          38.5 36.9 32.5 32.8 36.1 38.5
   9        1    2    3
          43.6 39.9 34.7
  10        1
          33.6
  11        1    2    3    4    5    6
          34.4 23.3 19.3 17.6 15.0 14.9
  12        1    2    3    4    5
          11.9 11.9 12.0 11.9 10.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.9 32.2 26.7 32.9 33.5 28.7 24.6 24.3 22.0 21.1

          21.6 22.5 21.5 20.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.6 21.4 22.4 21.9 20.9 21.9 24.4 24.3 29.5 33.6

          32.1 28.2 32.6 28.0
  15        1    2    3    4    5    6    7    8    9   10

          25.6 28.4 23.6 24.0 24.3 24.4 24.6 24.4 24.3 29.8

  16        1    2    3    4    5    6    7    8    9   10

          29.8 24.1 24.4 24.4 24.3 24.2 23.9 23.5 28.3 25.6

  17        1    2    3    4    5    6    7
          12.3 15.2 15.0 14.8 20.2 26.1 22.0
  18        1    2    3    4    5    6    7
          21.8 26.2 19.0 14.7 14.9 15.1 12.0
1

 RECEIVER    LEQ(H)   L10
 89           52.9   54.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           9.5 11.3 11.4 11.3 11.4 12.2
   2        1    2    3    4    5    6
          14.5 17.8 18.4 34.0 35.7 32.1
   3        1
          32.5
   4        1    2    3
          37.6 43.9 40.1
   5        1    2    3    4    5    6
          36.5 33.3 33.0 37.2 39.0 35.4
   6        1    2    3
          31.7 30.4 33.3
   7        1    2    3    4
          33.3 30.1 31.5 33.8
   8        1    2    3    4    5    6
          38.8 37.1 32.8 33.1 36.3 38.7
   9        1    2    3
          43.6 39.8 34.5
  10        1
          33.2
  11        1    2    3    4    5    6
          35.3 34.7 18.6 18.2 15.6 14.5
  12        1    2    3    4    5
          11.4 11.4 11.6 11.4  9.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.9 32.1 26.6 32.8 33.4 33.6 33.2 27.2 22.5 20.6

          20.8 21.7 20.9 20.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.0 20.8 21.5 21.0 20.4 22.4 27.4 33.0 34.0 33.5

          32.0 28.1 32.5 27.9
  15        1    2    3    4    5    6    7    8    9   10

          25.5 28.3 23.5 23.8 24.2 24.4 24.5 24.3 24.2 29.8

  16        1    2    3    4    5    6    7    8    9   10

          29.7 24.1 24.3 24.3 24.2 24.0 23.8 23.4 28.3 25.5
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  17        1    2    3    4    5    6    7
          13.1 18.7 25.1 24.7 25.4 26.0 21.9
  18        1    2    3    4    5    6    7
          21.7 26.1 25.4 24.6 25.0 17.7 12.9
1

 RECEIVER    LEQ(H)   L10
 90           53.2   55.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           8.9 10.7 10.9 10.7 10.9 11.7
   2        1    2    3    4    5    6
          16.0 29.0 30.4 34.7 35.2 31.8
   3        1
          32.3
   4        1    2    3
          37.4 44.0 40.3
   5        1    2    3    4    5    6
          36.8 33.5 33.2 37.5 39.3 35.7
   6        1    2    3
          31.9 30.6 33.6
   7        1    2    3    4
          33.5 30.3 31.7 34.1
   8        1    2    3    4    5    6
          39.1 37.4 33.0 33.3 36.5 38.9
   9        1    2    3
          43.7 39.7 34.2
  10        1
          32.9
  11        1    2    3    4    5    6
          34.9 34.7 30.4 30.0 22.4 15.6
  12        1    2    3    4    5
          10.9 10.8 11.0 10.8  9.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.8 32.0 26.5 32.8 33.3 33.5 33.1 32.9 30.7 20.0

          19.8 20.8 20.2 19.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.2 20.1 20.7 20.1 19.7 30.6 33.0 32.9 33.9 33.4

          31.9 28.0 32.4 27.9
  15        1    2    3    4    5    6    7    8    9   10

          25.4 28.2 23.4 23.7 24.1 24.3 24.4 24.3 24.1 29.7

  16        1    2    3    4    5    6    7    8    9   10

          29.7 24.0 24.2 24.2 24.1 24.0 23.7 23.3 28.2 25.4

  17        1    2    3    4    5    6    7
          23.7 25.2 25.0 24.5 25.3 25.9 21.8
  18        1    2    3    4    5    6    7
          21.5 26.0 25.3 24.5 24.8 25.1 23.4
1

 RECEIVER    LEQ(H)   L10
 91           53.4   55.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           8.5 10.3 10.5 10.3 23.6 26.3
   2        1    2    3    4    5    6
          29.1 30.0 30.3 34.6 34.9 31.5
   3        1
          32.0
   4        1    2    3
          37.3 44.0 40.4
   5        1    2    3    4    5    6
          37.0 33.8 33.5 37.8 39.6 36.0
   6        1    2    3
          32.2 30.9 33.8
   7        1    2    3    4
          33.7 30.6 32.0 34.3
   8        1    2    3    4    5    6
          39.4 37.7 33.3 33.6 36.8 39.0
   9        1    2    3
          43.7 39.6 33.9
  10        1
          32.6
  11        1    2    3    4    5    6
          34.5 34.5 30.3 29.9 29.0 28.4
  12        1    2    3    4    5
          24.9 24.5 24.1 10.4  8.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.7 32.0 26.4 32.7 33.1 33.4 33.0 32.7 33.1 27.1

          19.2 20.1 19.6 18.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.8 19.5 19.9 19.5 27.2 33.0 32.9 32.8 33.8 33.3

          31.9 27.9 32.3 27.7
  15        1    2    3    4    5    6    7    8    9   10

          25.3 28.1 23.3 23.7 24.0 24.2 24.3 24.2 24.0 29.6

  16        1    2    3    4    5    6    7    8    9   10

          29.6 23.9 24.1 24.1 24.1 23.9 23.6 23.2 28.1 25.2

  17        1    2    3    4    5    6    7
          24.5 25.1 24.8 24.4 25.2 25.8 21.7
  18        1    2    3    4    5    6    7
          21.4 25.8 25.2 24.3 24.7 25.0 24.4
1

 RECEIVER    LEQ(H)   L10
 92           53.4   55.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          14.5 23.9 24.2 24.3 24.9 26.2
   2        1    2    3    4    5    6
          28.9 29.8 30.1 34.3 34.5 31.2
   3        1
          31.8
   4        1    2    3
          37.2 43.9 40.6
   5        1    2    3    4    5    6
          37.2 34.0 33.8 38.1 39.9 36.3
   6        1    2    3
          32.5 31.2 34.1
   7        1    2    3    4
          34.0 30.9 32.3 34.7
   8        1    2    3    4    5    6
          39.8 38.0 33.6 33.8 37.0 39.2
   9        1    2    3
          43.6 38.4 33.5
  10        1
          32.3
  11        1    2    3    4    5    6
          34.1 34.3 30.0 29.7 28.8 28.3
  12        1    2    3    4    5
          24.8 24.3 24.2 23.9 22.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.6 31.9 26.3 32.6 33.0 33.3 32.9 32.6 32.9 30.2

          18.6 19.4 19.0 18.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.3 18.9 19.3 18.9 30.3 32.9 32.7 32.7 33.7 33.1

          31.7 27.8 32.2 27.7
  15        1    2    3    4    5    6    7    8    9   10

          25.1 28.0 23.1 23.5 23.9 24.1 24.2 24.1 23.9 29.6

  16        1    2    3    4    5    6    7    8    9   10

          29.5 23.8 24.1 24.0 24.0 23.7 23.5 23.1 27.9 25.1

  17        1    2    3    4    5    6    7
          24.4 24.9 24.7 24.3 25.0 25.7 21.6
  18        1    2    3    4    5    6    7
          21.3 25.7 25.1 24.2 24.5 24.8 24.2
1

 RECEIVER    LEQ(H)   L10
 93           53.2   55.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          16.6 18.5 18.8 18.9 19.5 20.7
   2        1    2    3    4    5    6
          26.0 29.4 29.6 33.8 33.7 30.4
   3        1
          30.9
   4        1    2    3
          36.1 43.4 40.5
   5        1    2    3    4    5    6
          37.4 34.3 34.1 38.6 40.6 37.0
   6        1    2    3
          33.2 31.8 34.6
   7        1    2    3    4
          34.6 31.5 33.0 35.3
   8        1    2    3    4    5    6
          40.4 38.4 33.9 34.0 37.1 39.1
   9        1    2    3
          43.1 37.6 32.6
  10        1
          31.4
  11        1    2    3    4    5    6
          32.9 33.8 29.6 29.2 28.4 23.6
  12        1    2    3    4    5
          19.4 18.9 18.8 18.5 16.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.3 31.5 26.0 32.3 32.7 32.9 32.5 32.3 32.2 26.0

          17.6 18.4 17.9 17.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.1 17.8 18.2 18.0 26.1 32.2 32.4 32.3 33.4 32.8

          31.4 27.5 31.9 27.4
  15        1    2    3    4    5    6    7    8    9   10

          24.9 27.6 22.8 23.1 23.5 23.7 23.9 23.7 23.7 29.3

  16        1    2    3    4    5    6    7    8    9   10

          29.3 23.5 23.7 23.6 23.6 23.4 23.1 22.7 27.6 24.9

  17        1    2    3    4    5    6    7
          23.9 24.5 24.3 23.9 24.6 25.3 21.2
  18        1    2    3    4    5    6    7
          21.0 25.3 24.7 23.8 24.1 24.4 23.8
1

 RECEIVER    LEQ(H)   L10
 94           52.6   54.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           6.6  8.3 16.4 16.6 17.1 18.1
   2        1    2    3    4    5    6
          20.9 22.1 22.7 32.1 33.0 29.6
   3        1
          30.1
   4        1    2    3
          35.1 42.6 40.0
   5        1    2    3    4    5    6
          37.0 34.1 34.0 38.6 40.9 37.6
   6        1    2    3
          33.8 32.3 35.1
   7        1    2    3    4
          35.0 32.0 33.5 35.8
   8        1    2    3    4    5    6
          40.7 38.5 33.8 33.8 36.8 38.6
   9        1    2    3
          42.4 36.7 31.6
  10        1
          30.6
  11        1    2    3    4    5    6
          32.2 32.8 23.0 22.3 21.0 20.5
  12        1    2    3    4    5
          17.1 16.8 16.8 16.5 14.3
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  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.0 31.1 24.8 29.3 28.6 31.0 32.2 29.0 26.2 22.0

          17.3 18.1 17.3 16.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          16.6 17.3 17.9 17.6 22.5 26.2 29.2 32.0 31.4 28.7

          28.6 26.2 31.6 27.0
  15        1    2    3    4    5    6    7    8    9   10

          21.8 26.5 22.4 22.8 23.1 23.2 23.4 23.4 23.2 28.9

  16        1    2    3    4    5    6    7    8    9   10

          28.9 23.1 23.3 23.2 23.1 23.0 22.7 22.3 27.2 22.0

  17        1    2    3    4    5    6    7
          16.8 19.6 23.8 23.5 22.9 20.6 17.4
  18        1    2    3    4    5    6    7
          17.1 20.6 23.2 23.4 23.7 19.2 16.6
1

 RECEIVER    LEQ(H)   L10
 95           51.9   53.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           6.4  8.1  8.3  8.1  8.1  9.0
   2        1    2    3    4    5    6
          13.7 19.6 20.2 25.2 27.8 29.1
   3        1
          29.5
   4        1    2    3
          34.4 41.9 39.3
   5        1    2    3    4    5    6
          36.5 33.6 33.6 38.3 40.8 37.7
   6        1    2    3
          34.0 32.6 35.3
   7        1    2    3    4
          35.3 32.3 33.7 36.0
   8        1    2    3    4    5    6
          40.6 38.1 33.4 33.3 36.2 37.9
   9        1    2    3
          41.7 35.4 31.1
  10        1
          30.0
  11        1    2    3    4    5    6
          28.3 25.3 20.5 19.8 17.6 12.4
  12        1    2    3    4    5
           8.2  8.2  8.3  8.2  6.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.7 26.5 20.8 31.4 32.1 27.8 25.9 25.2 23.0 17.4

          17.7 18.0 17.5 16.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.2 17.2 17.9 17.9 17.2 23.2 25.3 25.7 28.6 32.2

          30.9 22.5 26.9 22.8
  15        1    2    3    4    5    6    7    8    9   10

          24.2 25.0 17.9 18.5 19.5 20.2 21.8 22.5 22.9 28.6

  16        1    2    3    4    5    6    7    8    9   10

          28.6 22.8 22.4 22.0 20.1 19.4 18.5 17.7 24.7 24.2

  17        1    2    3    4    5    6    7
          14.4 15.7 16.3 16.6 18.2 24.3 20.6
  18        1    2    3    4    5    6    7
          20.3 24.1 18.1 16.6 16.2 15.6 14.2
1

 RECEIVER    LEQ(H)   L10
 96           50.2   52.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           6.6  8.2  8.2  8.0  8.0  8.8
   2        1    2    3    4    5    6
          11.0 11.6 13.6 21.7 24.9 27.6
   3        1
          28.9
   4        1    2    3
          32.0 36.9 37.1
   5        1    2    3    4    5    6
          35.7 32.8 32.8 37.6 40.3 37.4
   6        1    2    3
          33.8 32.5 35.3
   7        1    2    3    4
          35.2 32.2 33.5 35.7
   8        1    2    3    4    5    6
          40.1 37.5 32.6 32.6 35.5 35.9
   9        1    2    3
          36.8 32.6 30.2
  10        1
          27.6
  11        1    2    3    4    5    6
          25.2 22.4 13.7 12.4 11.1 11.0
  12        1    2    3    4    5
           8.1  8.1  8.3  8.2  6.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.5 25.7 20.1 26.0 26.0 25.3 23.8 19.5 18.1 18.0

          18.1 18.8 17.7 13.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.8 17.8 18.6 18.4 17.6 18.0 19.6 23.6 25.8 26.2

          25.2 21.6 26.1 22.2
  15        1    2    3    4    5    6    7    8    9   10

          18.3 21.5 16.8 22.0 22.5 22.3 19.2 19.3 19.9 27.4

  16        1    2    3    4    5    6    7    8    9   10

          27.4 19.7 19.2 19.0 22.1 22.4 22.1 17.1 21.5 18.4

  17        1    2    3    4    5    6    7
           7.7  9.8 13.8 14.5 16.2 17.6 14.4
  18        1    2    3    4    5    6    7
          14.1 17.6 16.1 14.4 13.4  9.8  7.5
1

 RECEIVER    LEQ(H)   L10
 97           49.6   51.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           7.1  8.5  8.6  8.2  8.2  8.7
   2        1    2    3    4    5    6
          10.8 11.3 16.5 19.7 23.1 26.7
   3        1
          28.3
   4        1    2    3
          31.6 35.7 35.3
   5        1    2    3    4    5    6
          35.1 32.3 32.3 37.1 39.9 37.2
   6        1    2    3
          33.7 32.4 35.2
   7        1    2    3    4
          35.1 32.1 33.4 35.4
   8        1    2    3    4    5    6
          39.7 37.0 32.1 32.1 34.9 34.2
   9        1    2    3
          35.5 31.9 29.2
  10        1
          26.1
  11        1    2    3    4    5    6
          23.6 18.3 19.0 11.4 10.8 10.8
  12        1    2    3    4    5
           8.1  8.1  8.5  8.5  7.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.3 25.2 19.5 25.2 24.9 23.9 20.2 21.9 18.2 18.4

          18.5 19.0 13.3 10.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          10.8 13.9 18.9 18.8 18.1 18.1 22.0 19.9 24.4 25.1

          24.4 21.0 25.6 21.3
  15        1    2    3    4    5    6    7    8    9   10

          17.4 21.1 16.3 16.9 17.3 21.4 22.6 21.7 19.0 26.6

  16        1    2    3    4    5    6    7    8    9   10

          28.0 18.8 21.7 22.4 21.4 17.2 16.8 16.3 21.1 17.5

  17        1    2    3    4    5    6    7
           7.1 13.6  9.8 10.8 15.0 16.5 13.4
  18        1    2    3    4    5    6    7
          13.1 16.4 15.0 10.1  9.7 13.5  7.0
1

 RECEIVER    LEQ(H)   L10
 98           49.5   51.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           8.1  9.8  9.7  8.9  8.7  9.1
   2        1    2    3    4    5    6
          11.0 11.4 11.3 25.7 21.2 26.4
   3        1
          28.1
   4        1    2    3
          31.5 35.5 36.4
   5        1    2    3    4    5    6
          34.6 31.7 31.8 36.6 39.5 36.9
   6        1    2    3
          33.5 32.3 35.2
   7        1    2    3    4
          35.1 31.9 33.2 35.2
   8        1    2    3    4    5    6
          39.3 36.5 31.6 31.6 34.4 35.2
   9        1    2    3
          35.3 32.3 28.3
  10        1
          25.8
  11        1    2    3    4    5    6
          22.1 25.7 11.6 11.4 11.0 11.3
  12        1    2    3    4    5
           8.6  8.8  9.3  9.5  8.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.2 25.2 19.5 25.3 24.5 21.7 26.8 18.6 19.0 19.2

          19.6 16.0 11.7 11.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          11.2 11.6 16.2 19.9 18.8 18.8 18.7 26.8 22.1 25.0

          24.5 21.0 25.6 21.3
  15        1    2    3    4    5    6    7    8    9   10

          17.4 21.1 16.4 16.8 17.1 17.6 19.5 22.3 22.2 27.9

  16        1    2    3    4    5    6    7    8    9   10

          27.9 22.1 22.2 19.3 17.5 17.0 16.7 16.3 21.1 17.5

  17        1    2    3    4    5    6    7
           7.3  8.1 16.5 17.9 11.8 16.0 13.4
  18        1    2    3    4    5    6    7
          13.1 15.8 11.8 19.0 14.3  8.1  7.2
1

 RECEIVER    LEQ(H)   L10
 99           49.1   51.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           9.3 11.0 10.0  9.8  9.7  9.4
   2        1    2    3    4    5    6
          11.1 11.3 11.2 19.7 25.6 24.6
   3        1
```

```
          27.6
   4        1    2    3
          31.9 34.9 36.2
   5        1    2    3    4    5    6
          34.1 31.3 31.3 36.2 39.1 36.6
   6        1    2    3
          33.3 32.1 35.1
   7        1    2    3    4
          35.0 31.8 33.0 34.9
   8        1    2    3    4    5    6
          38.9 36.1 31.2 31.1 33.9 35.0
   9        1    2    3
          34.8 32.6 27.4
  10        1
          24.8
  11        1    2    3    4    5    6
          20.4 25.3 11.4 11.3 11.1 11.5
  12        1    2    3    4    5
           8.9  9.7 10.1 10.0  9.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.0 24.9 19.2 24.9 22.0 27.1 20.1 18.8 19.5 19.6

          16.3 12.5 11.9 11.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          11.4 11.8 12.3 16.9 19.4 19.4 18.9 19.8 27.3 22.4

          24.1 20.6 25.3 21.1
  15        1    2    3    4    5    6    7    8    9   10

          15.0 20.4 16.1 16.5 16.9 17.4 17.8 19.2 22.0 27.7

  16        1    2    3    4    5    6    7    8    9   10

          27.7 21.9 19.0 17.6 17.3 16.8 16.5 16.0 20.4 15.4

  17        1    2    3    4    5    6    7
           7.4  8.1  8.7 10.8 20.0 13.2 11.9
  18        1    2    3    4    5    6    7
          11.1 13.2 20.0 10.8  8.2  8.1  7.3
1

 RECEIVER    LEQ(H)   L10
 100          48.9   51.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           8.7 10.5 10.7 10.5 10.7 11.0
   2        1    2    3    4    5    6
          11.6 11.5 11.2 16.2 26.0 23.9
   3        1
          27.3
   4        1    2    3
          32.1 35.1 36.0
   5        1    2    3    4    5    6
          33.6 30.8 30.9 35.8 38.8 36.4
   6        1    2    3
          33.1 32.0 35.0
   7        1    2    3    4
          34.9 31.6 32.8 34.6
   8        1    2    3    4    5    6
          38.6 35.7 30.7 30.7 33.5 34.7
   9        1    2    3
          34.7 32.9 27.4
  10        1
          24.4
  11        1    2    3    4    5    6
          25.9 16.8 11.5 11.5 11.5 12.5
  12        1    2    3    4    5
          10.4 10.5 10.7 10.5  8.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.0 25.0 19.3 23.1 27.3 22.8 19.9 19.5 19.9 19.3

          12.7 12.9 12.4 11.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          11.8 12.3 12.8 13.0 19.3 19.8 19.6 19.7 23.2 27.4

          21.9 20.7 25.3 21.0
  15        1    2    3    4    5    6    7    8    9   10

          16.0 19.9 16.0 16.4 16.8 17.4 18.3 18.6 20.7 27.5

  16        1    2    3    4    5    6    7    8    9   10

          27.5 20.5 18.6 18.2 17.4 16.7 16.5 15.9 20.0 14.6

  17        1    2    3    4    5    6    7
           7.9  8.3  8.6 10.1 13.0 19.9 10.4
  18        1    2    3    4    5    6    7
          10.2 19.9 13.0  9.6  8.4  8.3  7.8
1

 RECEIVER    LEQ(H)   L10
 101          48.6   50.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           2.1  8.6 11.1 10.9 11.0 11.9
   2        1    2    3    4    5    6
          13.4 11.6 11.1 15.3 25.8 22.6
   3        1
          26.7
   4        1    2    3
          31.3 35.0 35.3
   5        1    2    3    4    5    6
          33.3 30.5 30.5 35.4 38.5 36.1
   6        1    2    3
          32.9 31.8 34.9
   7        1    2    3    4
          34.8 31.5 32.6 34.4
   8        1    2    3    4    5    6
          38.3 35.3 30.3 30.3 33.1 34.1
   9        1    2    3
          34.7 32.3 26.6
  10        1
          23.3
  11        1    2    3    4    5    6
          25.7 16.1 11.3 11.5 12.2 14.0
  12        1    2    3    4    5
          11.1 11.0 11.2 11.0  7.3

  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.8 24.0 16.9 22.9 27.3 22.2 19.9 19.9 20.6 16.8

          12.8 13.1 12.6 12.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.0 12.5 13.0 13.1 17.2 20.5 19.9 19.7 22.6 27.3

          22.1 18.3 24.5 20.9
  15        1    2    3    4    5    6    7    8    9   10

          19.2 18.5 15.8 16.2 16.6 17.1 17.8 18.2 19.9 27.3

  16        1    2    3    4    5    6    7    8    9   10

          27.3 19.8 18.2 17.9 17.0 16.5 16.2 15.7 18.7 19.2

  17        1    2    3    4    5    6    7
           8.0  8.4  8.5  8.8 12.7 18.9 13.9
  18        1    2    3    4    5    6    7
          15.1 18.3 12.5  8.6  8.4  8.4  8.0
1

 RECEIVER    LEQ(H)   L10
 102          48.3   50.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           2.1  3.9  4.0  4.4 11.0 11.7
   2        1    2    3    4    5    6
          14.0 11.9 11.1 14.8 22.6 21.8
   3        1
          26.2
   4        1    2    3
          30.6 35.0 34.3
   5        1    2    3    4    5    6
          33.0 30.2 30.2 35.1 38.2 35.9
   6        1    2    3
          32.7 31.7 34.8
   7        1    2    3    4
          34.7 31.4 32.5 34.2
   8        1    2    3    4    5    6
          38.0 35.0 30.1 30.0 32.8 33.8
   9        1    2    3
          34.6 31.6 26.1
  10        1
          22.3
  11        1    2    3    4    5    6
          23.6 15.5 11.3 11.6 13.7 14.0
  12        1    2    3    4    5
          11.1 11.1  5.1  3.9  2.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.6 22.9 17.1 27.1 22.5 21.0 20.2 20.3 20.6 13.2

          13.0 13.3 12.8 12.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.2 12.7 13.1 13.3 12.9 20.7 20.3 19.9 21.4 22.8

          26.7 18.5 23.4 20.8
  15        1    2    3    4    5    6    7    8    9   10

          17.8 18.9 15.6 16.2 16.5 16.9 17.5 17.9 19.8 27.2

  16        1    2    3    4    5    6    7    8    9   10

          27.2 19.7 17.9 17.6 16.8 16.3 16.2 15.6 18.0 19.0

  17        1    2    3    4    5    6    7
           8.9  8.5  8.4  8.8 10.9 13.7 16.6
  18        1    2    3    4    5    6    7
          15.2 13.6 10.8  8.7  8.3  8.5  8.9
1

 RECEIVER    LEQ(H)   L10
 103          47.9   50.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           2.3  4.0  4.0  3.9  4.0  8.4
   2        1    2    3    4    5    6
          14.0 12.9 11.1 14.7 18.5 20.9
   3        1
          25.8
   4        1    2    3
          29.9 35.0 32.9
   5        1    2    3    4    5    6
          32.7 29.9 29.9 34.8 37.9 35.7
   6        1    2    3
          32.6 31.6 34.7
   7        1    2    3    4
          34.6 31.2 32.3 34.0
   8        1    2    3    4    5    6
          37.7 34.7 29.8 29.7 32.5 32.0
   9        1    2    3
          34.6 30.9 25.6
  10        1
          21.4
  11        1    2    3    4    5    6
          19.1 14.9 11.2 12.1 14.0 13.7
  12        1    2    3    4    5
           4.0  3.9  4.1  4.0  2.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.2 23.1 15.7 21.7 21.8 21.0 20.4 20.7 18.6 13.3

          13.2 13.5 12.9 12.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.4 12.9 13.4 13.5 13.1 18.7 20.7 20.2 21.4 22.0

          20.8 17.2 23.4 19.2
  15        1    2    3    4    5    6    7    8    9   10

          13.7 17.1 14.0 16.0 16.3 16.6 17.1 17.8 19.6 27.1

  16        1    2    3    4    5    6    7    8    9   10

          27.0 19.3 17.8 17.3 16.6 16.2 16.0 14.2 17.1 13.7
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  17        1    2    3    4    5    6    7
           9.5  8.6  8.5  8.8 10.4 13.2  9.6
  18        1    2    3    4    5    6    7
           9.4 13.1 10.4  8.7  8.4  8.6  9.6
1

RECEIVER    LEQ(H)   L10
104          47.4   49.6

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           2.3  4.1  4.2  3.9  4.0  4.8
   2        1    2    3    4    5    6
          10.1 13.6 11.0 14.5 18.0 19.7
   3        1
          25.4
   4        1    2    3
          28.8 34.8 31.1
   5        1    2    3    4    5    6
          30.1 29.5 29.6 34.5 37.6 35.4
   6        1    2    3
          32.4 31.4 34.6
   7        1    2    3    4
          34.5 31.1 32.1 33.7
   8        1    2    3    4    5    6
          37.5 34.4 29.5 29.4 30.2 29.9
   9        1    2    3
          34.5 29.7 24.9
  10        1
          20.3
  11        1    2    3    4    5    6
          18.5 14.7 11.1 13.0 12.5  7.0
  12        1    2    3    4    5
           4.0  4.0  4.2  4.1  2.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.4 21.4 15.8 21.8 21.6 21.0 20.6 21.0 13.8 13.4

          13.3 13.6 13.1 12.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.5 13.0 13.5 13.6 13.1 13.8 21.0 20.3 21.4 21.8

          20.9 17.2 21.8 17.5
  15        1    2    3    4    5    6    7    8    9   10

          13.6 16.3 12.1 15.0 16.2 16.4 16.7 17.4 18.6 26.8

  16        1    2    3    4    5    6    7    8    9   10

          26.8 18.4 17.3 16.7 16.3 16.1 15.1 12.2 16.3 13.7

  17        1    2    3    4    5    6    7
           9.5  8.7  8.5  8.6 10.3 12.7  9.7
  18        1    2    3    4    5    6    7
           9.5 12.5 10.3  8.6  8.4  8.8  9.3
1

RECEIVER    LEQ(H)   L10
105          46.1   48.4

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.3  6.0  6.0  5.7  5.8  6.4
   2        1    2    3    4    5    6
           8.4  8.7  8.6 15.4 17.2 21.7
   3        1
          23.1
   4        1    2    3
          24.9 34.2 30.7
   5        1    2    3    4    5    6
          28.6 26.3 27.6 32.8 35.6 33.5
   6        1    2    3
          31.2 30.2 33.4
   7        1    2    3    4
          33.3 29.9 30.9 32.2
   8        1    2    3    4    5    6
          35.8 33.2 27.8 26.8 28.7 29.7
   9        1    2    3
          34.6 25.1 22.1
  10        1
          21.7
  11        1    2    3    4    5    6
          18.4 15.9  8.7  8.7  8.5  8.6
  12        1    2    3    4    5
           5.8  5.7  6.0  6.0  4.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.7 23.9 17.5 23.4 23.5 23.6 15.4 15.2 15.6 15.5

          15.3 16.1 16.7 16.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          16.6 16.6 15.8 15.6 15.2 15.4 15.3 15.2 23.8 23.5

          22.5 18.9 24.4 20.8
  15        1    2    3    4    5    6    7    8    9   10

          14.8 18.6 15.1 15.5 15.8 16.0 16.2 16.1 16.2 22.0

  16        1    2    3    4    5    6    7    8    9   10

          22.0 16.1 16.1 16.0 15.9 15.7 15.5 15.0 18.7 15.0

  17        1    2    3    4    5    6    7
           4.7  5.1  6.9 10.9 12.3 13.7 10.4
  18        1    2    3    4    5    6    7
          10.1 13.7 12.4 10.9  5.8  5.1  4.6
1

RECEIVER    LEQ(H)   L10
106          47.2   49.4

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.4  6.1  6.2  5.9  6.0  6.7
   2        1    2    3    4    5    6
           8.7  9.1 12.9 16.2 19.1 22.6
   3        1
          24.7
   4        1    2    3
          26.9 35.4 32.5
   5        1    2    3    4    5    6
          30.9 28.8 29.4 34.2 37.0 34.6
   6        1    2    3
          31.4 30.4 33.6
   7        1    2    3    4
          33.5 30.1 31.1 32.9
   8        1    2    3    4    5    6
          36.9 34.1 29.3 29.3 30.9 31.8
   9        1    2    3
          35.5 26.8 23.8
  10        1
          22.5
  11        1    2    3    4    5    6
          20.0 16.4 13.7  9.1  8.7  8.8
  12        1    2    3    4    5
           6.0  5.9  6.2  6.1  4.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.9 25.2 18.2 24.0 23.9 24.1 22.8 15.4 15.7 15.6

          15.4 15.7 15.1 15.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.5 15.0 15.6 15.7 15.2 15.6 15.5 22.6 24.5 24.0

          23.1 19.7 25.5 21.1
  15        1    2    3    4    5    6    7    8    9   10

          15.5 19.8 15.8 16.1 16.4 16.5 16.7 16.7 16.6 22.3

  16        1    2    3    4    5    6    7    8    9   10

          22.3 16.5 16.7 16.5 16.5 16.3 16.1 15.7 19.9 15.6

  17        1    2    3    4    5    6    7
           4.9  9.0 11.2 11.2 12.8 14.3 11.0
  18        1    2    3    4    5    6    7
          10.8 14.3 12.8 11.2 11.2  8.5  4.8
1

RECEIVER    LEQ(H)   L10
107          48.0   50.1

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.5  6.3  6.3  6.0  6.2  6.9
   2        1    2    3    4    5    6
           9.0 16.3 13.9 16.8 20.7 23.9
   3        1
          26.0
   4        1    2    3
          29.1 36.4 35.0
   5        1    2    3    4    5    6
          32.8 29.9 29.9 34.6 37.4 34.8
   6        1    2    3
          31.6 30.5 33.7
   7        1    2    3    4
          33.6 30.2 31.3 33.1
   8        1    2    3    4    5    6
          37.2 34.6 29.7 29.8 32.7 34.6
   9        1    2    3
          36.5 28.9 25.7
  10        1
          23.4
  11        1    2    3    4    5    6
          21.5 17.0 13.7 17.0  9.0  9.0
  12        1    2    3    4    5
           6.2  6.1  6.3  6.3  4.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.2 25.5 20.0 25.2 24.5 24.4 24.3 22.3 15.9 15.7

          15.5 15.8 15.3 14.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.6 15.2 15.7 15.8 15.4 15.8 22.6 24.0 24.8 24.6

          24.3 21.4 25.8 21.3
  15        1    2    3    4    5    6    7    8    9   10

          16.1 21.0 16.3 16.6 16.9 17.0 17.1 17.1 17.0 22.9

  16        1    2    3    4    5    6    7    8    9   10

          22.9 16.9 17.1 16.9 16.9 16.8 16.6 16.2 21.0 16.2

  17        1    2    3    4    5    6    7
           9.3 13.3 11.6 11.7 13.4 15.0 11.8
  18        1    2    3    4    5    6    7
          11.4 15.0 13.3 11.7 11.5 13.5  7.9
1

RECEIVER    LEQ(H)   L10
108          48.6   50.7

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.6  6.3  6.4  6.2  6.3  7.1
   2        1    2    3    4    5    6
          18.2 18.1 13.8 17.3 22.2 24.6
   3        1
          27.2
   4        1    2    3
          30.9 37.5 36.4
   5        1    2    3    4    5    6
          33.3 30.4 30.3 35.0 37.7 35.1
   6        1    2    3
          31.8 30.7 33.8
   7        1    2    3    4
          33.6 30.4 31.5 33.4
   8        1    2    3    4    5    6
          37.6 34.9 30.2 30.2 33.1 35.0
   9        1    2    3
          37.5 31.1 28.0
  10        1
          24.4
  11        1    2    3    4    5    6
          22.9 17.6 14.0 17.1 19.2 14.8
  12        1    2    3    4    5
           6.2  6.2  6.4  6.3  4.7
```

```
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.5 25.7 20.2 26.4 25.0 24.7 24.3 25.2 21.3 15.7

          15.5 15.8 15.3 14.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.7 15.2 15.7 15.8 15.4 21.4 25.3 24.0 25.1 25.3

          25.5 21.7 26.1 21.6
  15        1    2    3    4    5    6    7    8    9   10

          17.6 21.4 16.6 16.9 17.2 17.3 17.5 17.5 17.6 24.0

  16        1    2    3    4    5    6    7    8    9   10

          24.0 17.5 17.5 17.3 17.2 17.1 16.9 16.5 21.4 17.9

  17        1    2    3    4    5    6    7
          15.0 11.9 11.9 12.1 13.9 15.6 15.0
  18        1    2    3    4    5    6    7
          14.5 15.5 13.9 12.0 11.7 12.0 15.1
1

 RECEIVER    LEQ(H)   L10
 109          49.6   51.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.9 10.7 17.5 17.4 17.6 18.3
   2        1    2    3    4    5    6
          20.9 15.0 14.5 18.2 24.3 25.9
   3        1
          29.0
   4        1    2    3
          33.0 39.7 37.0
   5        1    2    3    4    5    6
          33.9 30.9 30.9 35.5 38.1 35.3
   6        1    2    3
          31.9 30.8 33.8
   7        1    2    3    4
          33.7 30.5 31.6 33.6
   8        1    2    3    4    5    6
          37.9 35.5 30.7 30.7 33.8 35.7
   9        1    2    3
          39.6 33.8 31.1
  10        1
          26.3
  11        1    2    3    4    5    6
          24.9 18.6 14.8 15.1 19.5 20.7
  12        1    2    3    4    5
          17.6 17.5 17.6 17.4  6.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.2 26.6 20.7 26.9 27.0 25.5 24.7 24.6 26.8 21.6

          15.7 16.0 15.4 14.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.8 15.3 15.8 16.0 22.0 26.8 24.7 24.4 25.9 27.1

          26.0 22.2 26.9 22.2
  15        1    2    3    4    5    6    7    8    9   10

          19.2 21.9 16.9 17.3 18.1 19.4 20.0 21.3 22.4 28.1

  16        1    2    3    4    5    6    7    8    9   10

          28.1 22.3 21.3 19.8 19.3 18.1 17.3 16.8 21.9 19.2

  17        1    2    3    4    5    6    7
          13.9 12.4 12.6 13.0 14.9 19.0 15.5
  18        1    2    3    4    5    6    7
          15.2 18.8 14.8 12.9 12.4 12.4 14.1
1

 RECEIVER    LEQ(H)   L10
 110          50.5   52.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          16.5 18.5 18.7 18.8 18.7 17.2
   2        1    2    3    4    5    6
          16.1 15.9 15.6 19.5 27.4 28.2
   3        1
          30.2
   4        1    2    3
          35.0 41.0 37.6
   5        1    2    3    4    5    6
          34.5 31.5 31.4 35.9 38.3 35.3
   6        1    2    3
          31.9 30.7 33.7
   7        1    2    3    4
          33.6 30.4 31.6 33.7
   8        1    2    3    4    5    6
          38.2 35.9 31.2 31.3 34.3 36.3
   9        1    2    3
          40.8 37.1 32.4
  10        1
          27.7
  11        1    2    3    4    5    6
          28.6 21.6 15.9 16.0 16.0 17.9
  12        1    2    3    4    5
          16.8 18.3 18.7 18.5 16.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          23.4 27.3 24.0 29.7 28.3 27.1 25.6 25.1 26.4 27.3

          23.8 16.2 15.7 15.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.1 15.6 16.1 24.7 27.0 26.2 25.2 25.3 27.5 28.3

          28.7 26.0 27.7 23.4
  15        1    2    3    4    5    6    7    8    9   10

          19.9 24.0 17.8 18.5 22.6 23.0 23.1 23.0 22.8 28.5

  16        1    2    3    4    5    6    7    8    9   10

          28.5 22.7 23.0 22.9 22.9 22.6 18.5 17.7 24.0 19.9

  17        1    2    3    4    5    6    7
          12.7 13.4 13.7 14.4 17.9 20.1 16.1
  18        1    2    3    4    5    6    7
          15.9 20.1 17.6 14.2 13.6 13.4 12.7
1

 RECEIVER    LEQ(H)   L10
 111          50.8   52.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          17.2 19.2 19.5 19.5 17.8 18.0
   2        1    2    3    4    5    6
          16.7 16.8 16.4 20.4 28.2 29.2
   3        1
          30.8
   4        1    2    3
          37.1 41.5 37.9
   5        1    2    3    4    5    6
          34.7 31.6 31.4 35.9 38.1 35.1
   6        1    2    3
          31.5 30.3 33.3
   7        1    2    3    4
          33.2 30.0 31.3 33.4
   8        1    2    3    4    5    6
          38.0 35.8 31.3 31.4 34.5 36.6
   9        1    2    3
          41.2 37.6 32.6
  10        1
          29.9
  11        1    2    3    4    5    6
          28.6 21.9 16.7 16.8 16.8 17.8
  12        1    2    3    4    5
          17.9 17.9 19.3 19.3 17.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          25.0 30.6 23.1 29.2 29.8 27.5 26.2 25.8 26.8 27.9

          26.6 16.6 15.9 15.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.4 15.9 16.5 27.1 27.7 26.7 25.9 26.0 28.1 29.8

          28.4 24.5 30.9 25.0
  15        1    2    3    4    5    6    7    8    9   10

          21.0 24.9 18.6 19.3 20.2 22.5 23.5 23.4 23.2 28.8

  16        1    2    3    4    5    6    7    8    9   10

          28.7 23.1 23.3 23.3 22.5 20.2 19.3 18.6 24.9 21.0

  17        1    2    3    4    5    6    7
          13.5 14.2 14.6 15.2 18.0 21.0 17.0
  18        1    2    3    4    5    6    7
          16.8 21.0 17.6 15.1 14.4 14.2 13.5
1

 RECEIVER    LEQ(H)   L10
 112          50.6   52.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          17.6 19.5 19.7 19.8 20.3 21.5
   2        1    2    3    4    5    6
          23.7 17.6 17.1 20.8 28.0 31.1
   3        1
          30.9
   4        1    2    3
          35.0 41.6 37.8
   5        1    2    3    4    5    6
          34.3 31.2 31.0 35.4 37.5 34.4
   6        1    2    3
          30.8 29.6 32.8
   7        1    2    3    4
          32.7 29.4 30.6 32.7
   8        1    2    3    4    5    6
          37.4 35.3 30.8 31.0 34.1 36.4
   9        1    2    3
          41.3 35.9 30.5
  10        1
          30.7
  11        1    2    3    4    5    6
          28.7 21.1 17.3 17.7 21.6 23.7
  12        1    2    3    4    5
          20.3 19.9 19.8 19.5 17.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.4 31.8 26.2 31.8 27.5 27.5 26.8 26.7 28.8 28.2

          16.6 16.8 16.3 15.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.8 16.2 16.7 18.4 28.2 28.7 26.8 26.6 27.9 27.7

          31.2 27.7 32.1 27.6
  15        1    2    3    4    5    6    7    8    9   10

          20.9 25.7 20.3 20.5 22.3 21.8 21.5 22.3 23.4 28.9

  16        1    2    3    4    5    6    7    8    9   10

          28.9 23.3 22.3 21.4 21.8 22.3 20.5 20.2 25.6 21.5

  17        1    2    3    4    5    6    7
          16.0 15.0 15.2 15.6 17.3 18.9 18.8
  18        1    2    3    4    5    6    7
          17.9 18.8 17.3 15.5 15.1 15.1 16.2
1

 RECEIVER    LEQ(H)   L10
 113          48.9   50.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           5.7  7.5  7.6  7.7  8.1 19.9
   2        1    2    3    4    5    6
          24.5 24.1 17.5 20.9 21.8 32.0
   3        1
```

```
          31.0
   4        1    2    3
          31.3 36.8 35.4
   5        1    2    3    4    5    6
          33.4 30.7 30.5 34.9 36.9 33.7
   6        1    2    3
          30.3 29.1 32.2
   7        1    2    3    4
          32.2 28.9 30.1 32.1
   8        1    2    3    4    5    6
          36.8 34.8 30.3 30.6 33.7 34.5
   9        1    2    3
          36.8 31.5 31.1
  10        1
          32.7
  11        1    2    3    4    5    6
          24.2 21.1 17.7 22.6 24.4 23.9
  12        1    2    3    4    5
          16.0  7.9  7.8  7.5  5.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          26.7 26.8 21.2 27.3 27.5 27.6 27.3 28.3 26.6 16.7

          16.5 16.9 16.4 15.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.9 16.3 16.7 16.9 16.4 26.8 28.4 27.1 28.0 27.6

          26.4 22.7 27.1 27.6
  15        1    2    3    4    5    6    7    8    9   10

          19.3 24.3 23.2 23.5 23.5 23.0 22.9 22.9 23.3 29.1

  16        1    2    3    4    5    6    7    8    9   10

          29.0 23.2 22.9 22.8 22.9 23.6 23.5 23.1 24.5 19.4

  17        1    2    3    4    5    6    7
          19.9 15.6 15.5 15.7 17.2 18.7 15.2
  18        1    2    3    4    5    6    7
          15.0 18.5 17.2 15.7 15.4 16.0 19.9
1

 RECEIVER    LEQ(H)   L10
 114          47.2   49.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           5.6  7.5  7.7  7.6  7.9  8.7
   2        1    2    3    4    5    6
          11.2 11.8 21.6 20.9 21.5 29.8
   3        1
          31.6
   4        1    2    3
          30.6 34.1 32.3
   5        1    2    3    4    5    6
          29.3 26.7 26.8 31.7 36.1 33.3
   6        1    2    3
          29.3 25.7 28.4
   7        1    2    3    4
          28.7 25.9 29.5 31.7
   8        1    2    3    4    5    6
          36.2 32.4 27.0 26.8 29.3 31.0
   9        1    2    3
          34.2 31.6 32.2
  10        1
          32.1
  11        1    2    3    4    5    6
          21.8 21.1 20.6 17.2 11.2 10.9
  12        1    2    3    4    5
           7.8  7.6  7.6  7.5  5.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.6 26.7 21.1 27.2 27.6 27.9 27.6 16.4 16.8 16.6

          16.5 16.9 16.4 15.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.9 16.3 16.8 16.8 16.4 16.7 16.5 27.5 28.3 27.7

          26.4 22.6 27.1 22.7
  15        1    2    3    4    5    6    7    8    9   10

          19.2 21.9 17.3 19.6 22.2 24.0 24.1 23.8 23.6 29.1

  16        1    2    3    4    5    6    7    8    9   10

          29.0 23.4 23.8 23.8 23.9 22.2 19.7 17.2 21.9 19.2

  17        1    2    3    4    5    6    7
           7.1 16.6 15.9 16.0 17.4 18.6 15.0
  18        1    2    3    4    5    6    7
          14.8 18.6 17.4 16.0 15.9 16.3  7.0
1

 RECEIVER    LEQ(H)   L10
 115          43.8   45.7

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
          14.6 16.4 16.9 16.8 17.0 17.6
   2        1    2    3    4    5    6
          17.2 15.1 14.3 16.8 17.2 17.8
   3        1
          29.1
   4        1    2    3
          31.2 30.4 29.5
   5        1    2    3    4    5    6
          26.6 23.6 23.4 27.7 29.6 26.2
   6        1    2    3
          23.3 22.5 26.0
   7        1    2    3    4
          26.0 22.3 23.1 24.7
   8        1    2    3    4    5    6
          29.6 27.7 23.4 23.5 26.5 28.1
   9        1    2    3
          30.6 31.5 30.5
  10        1
          18.0
  11        1    2    3    4    5    6
          17.3 16.9 14.1 15.1 15.2 20.2
  12        1    2    3    4    5
          17.2 17.2 17.2 16.8 14.9

  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.7 19.9 14.3 20.5 21.0 21.3 21.0 25.6 27.2 25.7

          24.2 23.8 24.9 21.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.2 24.9 23.6 24.6 25.4 27.1 25.6 20.7 21.7 21.1

          19.7 15.8 20.2 15.7
  15        1    2    3    4    5    6    7    8    9   10

          12.6 14.5  9.3  9.5  9.8  9.8  9.9 15.8 18.5 28.2

  16        1    2    3    4    5    6    7    8    9   10

          28.1 18.4 15.4  9.8  9.8  9.7  9.5  9.2 14.5 12.6

  17        1    2    3    4    5    6    7
          10.9 11.2 10.8 10.3 11.5 12.3  8.6
  18        1    2    3    4    5    6    7
           8.3 12.4 11.5 10.2 10.7 11.2 11.5
1

 RECEIVER    LEQ(H)   L10
 116          44.1   46.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           9.8 11.5 11.5 11.3 11.3 12.1
   2        1    2    3    4    5    6
          14.3 13.9 13.0 16.4 16.9 20.7
   3        1
          30.0
   4        1    2    3
          30.3 32.1 30.3
   5        1    2    3    4    5    6
          27.0 23.8 23.6 28.1 30.1 27.2
   6        1    2    3
          24.1 23.2 27.0
   7        1    2    3    4
          27.1 23.0 23.9 25.7
   8        1    2    3    4    5    6
          30.1 28.0 23.5 23.7 27.0 29.1
   9        1    2    3
          32.2 30.4 31.5
  10        1
          23.3
  11        1    2    3    4    5    6
          17.0 16.4 13.1 13.7 14.3 14.3
  12        1    2    3    4    5
          11.3 11.3 11.5 11.5  9.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.5 19.6 14.1 20.4 20.8 21.2 20.9 20.7 21.1 22.6

          24.2 23.5 25.3 24.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          26.6 22.1 23.3 24.5 21.7 21.0 20.8 20.7 21.6 20.9

          19.5 15.6 20.0 15.6
  15        1    2    3    4    5    6    7    8    9   10

          12.2 14.2  9.1  9.4 17.3 18.3 19.3 23.1 22.8 28.2

  16        1    2    3    4    5    6    7    8    9   10

          28.2 22.7 23.0 18.8 18.1 17.3  9.4  9.0 14.2 12.3

  17        1    2    3    4    5    6    7
          10.3 10.1  9.9  9.7 10.9 11.9  8.1
  18        1    2    3    4    5    6    7
           7.9 11.9 11.0  9.7  9.9 10.2 10.2
1

 RECEIVER    LEQ(H)   L10
 117          44.7   46.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           9.5 11.2 11.2 11.0 11.0 11.7
   2        1    2    3    4    5    6
          13.3 13.1 12.7 16.1 18.3 25.2
   3        1
          29.8
   4        1    2    3
          28.9 33.6 30.8
   5        1    2    3    4    5    6
          27.3 24.1 23.9 28.4 30.7 27.9
   6        1    2    3
          24.9 24.8 29.8
   7        1    2    3    4
          31.7 24.5 24.9 26.3
   8        1    2    3    4    5    6
          30.6 28.4 23.8 24.0 27.2 29.7
   9        1    2    3
          33.6 29.7 30.7
  10        1
          26.8
  11        1    2    3    4    5    6
          18.9 16.2 12.8 13.0 13.0 13.8
  12        1    2    3    4    5
          10.9 11.0 11.2 11.2  9.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          15.4 19.5 13.9 20.1 20.6 20.9 20.6 20.5 20.9 20.7

          20.5 23.1 21.9 27.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          27.4 21.9 22.8 20.8 20.4 20.8 20.6 20.4 21.3 20.6

          19.2 15.4 19.9 15.5
  15        1    2    3    4    5    6    7    8    9   10

          12.0 16.5 17.4 17.7 18.0 21.0 23.1 22.9 22.7 28.1

  16        1    2    3    4    5    6    7    8    9   10

          28.1 22.6 22.8 22.9 20.9 17.9 17.6 17.3 17.0 12.1
```

```
  17        1    2    3    4    5    6    7
           9.3  9.7  9.5  9.4 10.6 11.5  7.9
  18        1    2    3    4    5    6    7
           7.6 11.6 10.6  9.4  9.5  9.7  9.2
1

RECEIVER    LEQ(H)   L10
118          45.8   47.6

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           9.4 11.1 11.1 10.8 10.7 10.7
   2        1    2    3    4    5    6
          12.6 12.9 12.6 16.1 20.3 27.1
   3        1
          29.7
   4        1    2    3
          29.6 35.1 31.7
   5        1    2    3    4    5    6
          28.0 24.9 24.7 29.2 31.6 29.5
   6        1    2    3
          27.4 28.8 32.2
   7        1    2    3    4
          32.1 28.5 27.5 28.0
   8        1    2    3    4    5    6
          31.6 29.4 24.8 24.9 28.0 30.7
   9        1    2    3
          35.2 30.0 30.9
  10        1
          29.2
  11        1    2    3    4    5    6
          20.9 16.3 12.7 12.9 12.7 12.9
  12        1    2    3    4    5
          10.3 10.8 11.1 11.1  9.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.6 26.5 21.0 24.2 20.5 20.8 20.5 20.3 20.8 20.6

          20.4 20.6 20.8 20.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.7 20.5 20.5 20.7 20.3 20.7 20.4 20.3 21.2 20.6

          23.3 22.4 26.9 22.6
  15        1    2    3    4    5    6    7    8    9   10

          12.3 22.2 17.3 17.6 21.6 23.0 23.0 22.7 22.6 28.1

  16        1    2    3    4    5    6    7    8    9   10

          28.1 22.4 22.7 22.8 22.8 21.6 17.6 17.2 22.1 13.6

  17        1    2    3    4    5    6    7
           8.9  9.5  9.4  9.3 10.4 11.6 10.0
  18        1    2    3    4    5    6    7
           7.7 11.5 10.5  9.2  9.3  9.5  8.9
1

RECEIVER    LEQ(H)   L10
119          46.8   48.6

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           9.0 10.6 10.6 10.1  9.8 10.3
   2        1    2    3    4    5    6
          12.2 12.4 12.2 17.8 20.3 28.0
   3        1
          28.8
   4        1    2    3
          31.8 35.3 31.7
   5        1    2    3    4    5    6
          28.7 25.6 25.5 30.6 34.3 33.7
   6        1    2    3
          30.3 29.3 32.5
   7        1    2    3    4
          32.4 29.0 30.1 32.0
   8        1    2    3    4    5    6
          34.6 30.8 25.7 25.8 28.7 30.6
   9        1    2    3
          35.4 31.0 28.7
  10        1
          29.9
  11        1    2    3    4    5    6
          20.7 18.5 12.3 12.4 12.2 12.4
  12        1    2    3    4    5
           9.7 10.0 10.5 10.6  9.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          22.4 26.3 20.7 26.9 26.9 20.5 20.1 20.0 20.3 20.2

          20.0 20.2 19.7 20.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.8 19.5 20.1 20.3 19.9 20.2 20.0 19.8 20.9 27.3

          26.0 22.2 26.7 22.4
  15        1    2    3    4    5    6    7    8    9   10

          19.3 21.9 17.0 21.9 22.6 22.7 22.7 22.6 22.4 27.9

  16        1    2    3    4    5    6    7    8    9   10

          27.9 22.3 22.6 22.6 22.6 22.5 22.0 16.9 21.9 19.3

  17        1    2    3    4    5    6    7
           8.5  9.0  8.9  9.0 14.3 19.2 15.4
  18        1    2    3    4    5    6    7
          15.2 19.1 13.3  9.1  8.8  9.0  8.4
1

RECEIVER    LEQ(H)   L10
120          45.3   47.2

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           8.1  9.8  9.7  9.4  9.5 10.0
   2        1    2    3    4    5    6
          11.3 11.5 11.1 14.7 18.6 26.6
   3        1
          27.1
   4        1    2    3
          29.0 33.0 29.7
   5        1    2    3    4    5    6
          26.8 23.9 23.8 28.5 32.8 33.4
   6        1    2    3
          30.2 29.2 32.5
   7        1    2    3    4
          32.4 28.9 30.0 31.8
   8        1    2    3    4    5    6
          32.8 28.5 23.8 23.8 26.7 28.5
   9        1    2    3
          33.0 29.1 26.3
  10        1
          26.8
  11        1    2    3    4    5    6
          19.1 15.1 11.2 11.4 11.3 11.9
  12        1    2    3    4    5
           9.4  9.5  9.8  9.8  8.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          21.5 25.7 20.1 25.0 19.3 19.6 19.3 19.2 19.6 19.4

          20.3 21.4 21.6 18.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.5 21.2 21.3 20.4 19.1 19.5 19.2 19.0 20.0 19.4

          24.4 21.7 26.1 21.5
  15        1    2    3    4    5    6    7    8    9   10

          13.8 20.9 16.3 17.0 17.9 18.2 18.5 18.9 19.4 26.6

  16        1    2    3    4    5    6    7    8    9   10

          26.6 19.2 18.9 18.3 18.1 17.7 17.0 16.2 21.0 14.6

  17        1    2    3    4    5    6    7
           7.6  8.1  8.0  7.9  9.2 10.3 13.2
  18        1    2    3    4    5    6    7
          12.1 10.2  9.4  7.9  7.9  8.1  7.5
1

RECEIVER    LEQ(H)   L10
121          44.8   47.0

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           2.4  4.1  4.1  4.0  4.1  4.7
   2        1    2    3    4    5    6
           6.9  7.3 10.3 14.0 16.5 18.6
   3        1
          20.3
   4        1    2    3
          26.2 34.0 29.4
   5        1    2    3    4    5    6
          26.4 23.5 23.6 28.6 32.0 31.9
   6        1    2    3
          31.7 30.8 34.1
   7        1    2    3    4
          34.0 30.5 31.5 30.1
   8        1    2    3    4    5    6
          31.9 28.6 23.5 23.5 26.4 28.2
   9        1    2    3
          34.1 26.4 20.5
  10        1
          18.5
  11        1    2    3    4    5    6
          17.1 14.2 11.1  7.3  6.8  7.0
  12        1    2    3    4    5
           4.0  4.0  4.2  4.1  2.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.1 21.1 15.5 21.0 20.8 21.0 19.7 13.4 13.7 13.5

          13.4 13.6 14.8 14.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.2 14.5 13.5 13.7 13.2 13.6 13.4 19.5 21.3 20.9

          20.1 17.0 21.5 17.2
  15        1    2    3    4    5    6    7    8    9   10

          12.3 15.7 11.0 11.3 11.8 12.0 12.4 15.4 16.3 25.1

  16        1    2    3    4    5    6    7    8    9   10

          26.3 16.2 15.2 12.3 11.9 11.7 11.3 10.9 15.8 12.4

  17        1    2    3    4    5    6    7
           3.0  6.2  8.5  8.4  9.8 11.3  7.9
  18        1    2    3    4    5    6    7
           7.6 11.2  9.8  8.4  8.4  5.7  3.0
```

```
                         *************************
                               OPTIMA-VU1
                         *************************
                    BARRIER OPTIMIZATION PROGRAM USING
                   PARTIAL SOUND ENERGIES COMPUTED BY THE
                          STAMINA 2.0 PROGRAM
                MODIFIED FROM THE FHWA VAX VERSON -- MARCH 1983

           MODIFIED TO:
              1.   PLACE BARRIER COST DATA IN A DATA FILE CALLED
                   OPTCOST.DTA TO ALLOW USER TO USE COSTS OTHER THAN
                   THE FHWA NATIONAL AVERAGES.
                          *************************
              MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
                              IN JUNE 1991 BY
              VANDERBILT ENGINEERING CENTER FOR TRANSPORTATION
                     OPERATIONS AND RESEARCH (VECTOR)
           BOX 96-B, VANDERBILT UNIVERSITY, NASHVILLE, TENNESSEE 37235
                              (615) 322-3683
                          ************************

     PROBLEM TITLE
     *************
 Meadowood - Single-Family 2nd Floor (Receivers 82-121)No 15

               EFFECTIVENESS/COST RATIO AND BARRIER HEIGHT MATRICES
               ****************************************************
BARRIER SECTION        EFFECTIVENESS/COST                   CORRESPONDING
  NO  IDENT                  RATIO                            BARRIER HEIGHTS(IN
FT)

 HEIGHT INDEX  1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8
   1  1        *   0.                                0. 0.
   2  2        *   0.                                0. 0.
   3  3        *   0.                                0. 0.
   4  5        *   0.                                0. 0.
   5  6        *   0.                                0. 0.
   6  7        *   0.                                0. 0.
   7  8        *   0.                                0. 0.
   8  9        *   0.                                0. 0.
   9  10       *   0.                                0. 0.
  10  11       *   0.                                0. 0.
  11  12       *   0.                                0. 0.
  12  13       *   0.                                0. 0.
  13  15        *  13.  14.  13.  12.  11.  10.  10.  0. 3. 4. 5. 6. 7. 8.
9.
  14  16        *  16.  15.  14.  12.  11.   9.   8.  0. 3. 4. 5. 6. 7. 8.
9.
  15  17        *  16.  17.  16.  15.  12.  10.   9.  0. 3. 4. 5. 6. 7. 8.
9.
  16  18        *   5.   9.  11.  11.   9.   7.   6.  0. 3. 4. 5. 6. 7. 8.
9.
  17  19        *   1.   4.   6.   6.   5.   5.   4.  0. 3. 4. 5. 6. 7. 8.
9.
  18  20        *   2.   6.   9.  10.   9.   7.   6.  0. 3. 4. 5. 6. 7. 8.
9.
  19  21        *   3.   9.   9.   8.   7.   5.   4.  0. 3. 4. 5. 6. 7. 8.
9.
  20  22        *   9.   6.   6.   4.   2.   1.   1.  0. 3. 4. 5. 6. 7. 8.
9.
  21  24        *  13.  13.  13.  12.  12.  11.  11.  0. 3. 4. 5. 6. 7. 8.
9.
  22  25        *  13.  13.  13.  12.  11.  10.  10.  0. 3. 4. 5. 6. 7. 8.
9.
  23  26        *  15.  15.  14.  13.  11.  10.  10.  0. 3. 4. 5. 6. 7. 8.
9.
  24  27        *  13.  13.  12.  10.  10.   9.   9.  0. 3. 4. 5. 6. 7. 8.
9.
  25  28        *  12.  11.  11.  10.  10.   9.   9.  0. 3. 4. 5. 6. 7. 8.
9.
  26  29        *  15.  15.  14.  13.  13.  12.  12.  0. 3. 4. 5. 6. 7. 8.
9.
  27  30        *  18.  17.  16.  16.  16.  15.  14.  0. 3. 4. 5. 6. 7. 8.
9.
  28  32        *  20.  18.  17.  15.  15.  15.  15.  0. 3. 4. 5. 6. 7. 8.
9.
  29  33        *  15.  16.  16.  15.  14.  13.  12.  0. 3. 4. 5. 6. 7. 8.
9.
  30  34        *  13.  14.  13.  12.  11.  10.  10.  0. 3. 4. 5. 6. 7. 8.
9.
  31  35        *   6.   7.  10.  10.   9.   8.   8.  0. 3. 4. 5. 6. 7. 8.
9.
  32  36        *  -1.   6.   8.   8.   5.   3.   1.  0. 3. 4. 5. 6. 7. 8.
9.
  33  37        *   9.   9.   8.   6.   6.   5.   5.  0. 3. 4. 5. 6. 7. 8.
9.
  34  38        *  10.   9.   8.   7.   6.   6.   6.  0. 3. 4. 5. 6. 7. 8.
9.
  35  39        *  -1.  -2.  -3.  -3.  -3.  -3.  -3.  0. 3. 4. 5. 6. 7. 8.
9.
  36  40        *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
  37  41        *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
  38  41b       * -11. -11. -12. -13. -13. -13. -13.  0. 3. 4. 5. 6. 7. 8.
9.
  39  42        *   0.   0.  -1.  -2.  -2.  -3.  -3.  0. 3. 4. 5. 6. 7. 8.
9.
  40  42b       *  -3.  -3.  -4.  -5.  -5.  -6.  -6.  0. 3. 4. 5. 6. 7. 8.
9.
  41  43        *   4.   4.   3.   3.   2.   2.   2.  0. 3. 4. 5. 6. 7. 8.
9.
  42  44        *   3.   2.   2.   1.   1.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
  43  45        *   2.   2.   1.   1.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
  44  46        *   2.   2.   1.   1.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
  45  47        *   2.   2.   2.   1.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
  46  48        *  -8.  -8.  -9.  -9. -10. -10. -10.  0. 3. 4. 5. 6. 7. 8.
9.
  47  49        *  -3.  -3.  -4.  -5.  -5.  -5.  -5.  0. 3. 4. 5. 6. 7. 8.
9.
  48  50        *  -7.  -7.  -7.  -8.  -8.  -9.  -9.  0. 3. 4. 5. 6. 7. 8.
9.
  49  51        *  -7.  -7.  -8.  -9.  -9.  -9.  -9.  0. 3. 4. 5. 6. 7. 8.
9.
  50  52        *  -7.  -7.  -8.  -8.  -8.  -9.  -9.  0. 3. 4. 5. 6. 7. 8.
9.
  51  54        *   6.   6.   5.   5.   5.   5.   4.  0. 3. 4. 5. 6. 7. 8.
9.
  52  55        *   7.   7.   7.   6.   6.   6.   6.  0. 3. 4. 5. 6. 7. 8.
9.
  53  56        *  10.  10.   9.   9.   8.   8.   8.  0. 3. 4. 5. 6. 7. 8.
9.
  54  57        *  10.  10.   9.   9.   9.   8.   8.  0. 3. 4. 5. 6. 7. 8.
9.
  55  58        *  -1.  -1.  -2.  -2.  -3.  -3.  -3.  0. 3. 4. 5. 6. 7. 8.
9.
  56  59        *  -6.  -6.  -7.  -8.  -8.  -8.  -9.  0. 3. 4. 5. 6. 7. 8.
9.
  57  60        *   6.   6.   6.   5.   5.   5.   5.  0. 3. 4. 5. 6. 7. 8.
9.
  58  61        *   7.   7.   6.   6.   5.   5.   5.  0. 3. 4. 5. 6. 7. 8.
9.
  59  62       *   0.                                0. 0.
  60  63       *   0.                                0. 0.
  61  64       *   0.                                0. 0.
  62  65       *   0.                                0. 0.
  63  66       *   0.                                0. 0.
  64  67       *   0.                                0. 0.
  65  68       *   0.                                0. 0.
  66  69       *   0.                                0. 0.
  67  70       *   0.                                0. 0.
  68  72       *   0.                                0. 0.
  69  73       *   0.                                0. 0.
  70  74       *   0.                                0. 0.
  71  75       *   0.                                0. 0.
  72  76       *   0.                                0. 0.
  73  78       *   0.                                0. 0.
  74  79       *   0.                                0. 0.
  75  81       *   0.                                0. 0.
  76  82       *   0.                                0. 0.
  77  82b      *   0.                                0. 0.
  78  82c      *   0.                                0. 0.
  79  84       *   0.                                0. 0.
  80  85       *   0.                                0. 0.
  81  85b      *   0.                                0. 0.
  82  85c      *   0.                                0. 0.
  83  85d      *   0.                                0. 0.
  84  86       *   0.                                0. 0.
  85  86b      *   0.                                0. 0.
  86  87       *   0.                                0. 0.
  87  87b      *   0.                                0. 0.
  88  87c      *   0.                                0. 0.
  89  87d      *   0.                                0. 0.
  90  87e      *   0.                                0. 0.
  91  87f      *   0.                                0. 0.
  92  87g      *   0.                                0. 0.
  93  87h      *   0.                                0. 0.
  94  88        *   1.   1.   1.   0.   0.  -1.  -1.  0. 3. 4. 5. 6. 7. 8.
9.
  95  89        *   1.   1.   0.   0.  -1.  -1.  -1.  0. 3. 4. 5. 6. 7. 8.
9.
  96  90        *   1.   1.   0.  -1.  -1.  -1.  -1.  0. 3. 4. 5. 6. 7. 8.
9.
  97  91        *   0.   0.  -1.  -1.  -1.  -2.  -2.  0. 3. 4. 5. 6. 7. 8.
9.
  98  92        *  -2.  -1.  -2.  -3.  -3.  -3.  -3.  0. 3. 4. 5. 6. 7. 8.
9.
  99  93        *  -3.  -3.  -3.  -3.  -3.  -3.  -3.  0. 3. 4. 5. 6. 7. 8.
9.
 100  94        * -10.  -9.  -9. -10.  -9.  -9.  -9.  0. 3. 4. 5. 6. 7. 8.
9.
 101  95        *  -4.  -4.  -5.  -6.  -6.  -6.  -6.  0. 3. 4. 5. 6. 7. 8.
9.
 102  96        * -11. -11. -12. -12. -13. -13. -13.  0. 3. 4. 5. 6. 7. 8.
9.
 103  98       *   0.                                0. 0.
 104  99       *   0.                                0. 0.
 105  100      *   0.                                0. 0.
 106  101      *   0.                                0. 0.
 107  102      *   0.                                0. 0.
 108  104      *   0.                                0. 0.
 109  105      *   0.                                0. 0.
 110  106      *   0.                                0. 0.
 111  108a     *   0.                                0. 0.
 112  108b     *   0.                                0. 0.
 113  109      *   0.                                0. 0.
 114  110      *   0.                                0. 0.

 HEIGHT INDEX  1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8

 Meadowood - Single-Family 2nd Floor (Receivers 82-121)No 15


 BARRIER HEIGHT INDEX FOR EACH BARRIER SECTION
   1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  1  1  1  1  1  2  2  2  2  2
   2  2  2  2  2  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  2  2
   2  2  2  2  2  2  2  2  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
   1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  3  3  3  3
   3  3  1  1  1  1  1  1  1  1  1  1  1  1
 CORRESPONDING BARRIER HEIGHTS FOR EACH SECTION
  0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 3. 3. 3. 0. 0. 0. 0. 0. 3. 3. 3. 3. 3.
  3. 3. 3. 3. 3. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 3. 3. 3. 3. 3.
  3. 3. 3. 3. 3. 3. 3. 3. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
  0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 3. 3. 3. 4. 4. 4. 4.
  4. 4. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

     R E S U L T S
     *************

 REC     REC ID          LEQ       LEQ(Z(0))       IL
   1     82              49.1       49.4           .3
   2     83              48.9       49.3           .4
   3     84              52.5       52.8           .3
   4     85              54.0       54.1           .0
   5     86              52.8       53.1           .3
   6     87              52.2       52.3           .1
   7     88              52.5       52.5           .0
   8     89              52.9       52.9           .0
   9     90              53.2       53.2           .0
  10     91              53.3       53.3           .0
  11     92              53.4       53.4           .0
  12     93              53.2       53.2           .0
  13     94              52.6       52.7           .1
  14     95              51.9       52.0           .1
  15     96              50.7       50.9           .3
  16     97              49.9       50.2           .3
  17     98              49.7       49.9           .3
  18     99              49.3       49.4           .2
  19     100             49.0       49.2           .2
  20     101             48.7       48.9           .2
  21     102             48.4       48.6           .1
  22     103             48.1       48.2           .1
  23     104             47.8       47.9           .1
  24     105             46.7       47.0           .3
  25     106             47.5       47.6           .2
  26     107             48.1       48.2           .1
  27     108             48.7       48.9           .1
  28     109             49.8       49.9           .1
  29     110             50.6       50.7           .1
  30     111             51.0       51.2           .2
  31     112             50.9       51.0           .1
  32     113             49.5       49.7           .2
  33     114             47.8       48.2           .4
  34     115             44.3       44.5           .3
  35     116             44.5       44.7           .2
  36     117             45.0       45.2           .2
  37     118             46.1       46.4           .3
  38     119             46.9       47.0           .1
  39     120             45.4       45.4           .1
  40     121             46.0       46.1           .1
```

BARRIER TYPE	COST	AREA (SQ. FT.)
FH-BERM	0.	0.
FH-MASON	52900.	10790.
FH-WOOD	0.	0.
FH-CONC	0.	0.
FH-STEEL	0.	0.
TOTALS:	$ 52900.	10790.

****

END OF ALL CASES

****

STAM2VU1

Version 1.20

****

STAMINA 2.0/BCR

MODIFIED FROM FHWA VERSION 3 (MARCH 1983)

TRAFFIC NOISE PREDICTION MODEL

MODIFIED TO:

1. ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
2. CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
3. PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.

****

MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR

BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235

AND BOWLBY & ASSOCIATES, INC.

2014 BROADWAY, SUITE 210

NASHVILLE, TN 37203-2425

TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE *.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.

(INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH)

Meadowood - Single-Family 1st Floor (Receivers 122-137)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

HEIGHT	CODE	DESCRIPTION
.00	1	RECEIVER HEIGHT ADJUSTMENT
1.00	2	A-WEIGHTED SOUND LEVEL ONLY
.00	3	HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
.00	4	HEIGHT ADJUSTMENT FOR HEAVY TRUCKS (HT)
.00	5	HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS (MT)
.000	6	HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4) CARS--CALVENO C0 = 5.20 C1 = 38.80 S0 = .00
2.300	7	HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5) MT--CALVENO C0 = 35.30 C1 = 25.60 S0 = .00
8.000	8	HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6) HT--CALVEN0 C0 = 50.40 C1 = 19.20 S0 = .00

0ROADWAY 1 HRC nb (76 to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
1	6287767.4	2067284.0	276.0	0
2	6287704.7	2067456.2	276.0	0
3	6287629.7	2067702.5	279.0	0
4	6287568.8	2067936.5	284.0	0
5	6287512.3	2068148.3	284.0	0
6	6287446.9	2068359.4	282.0	0
7	6287374.5	2068606.6	279.0	0

0ROADWAY 2 HRC nb (Pankey to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
7	6287374.5	2068606.6	279.0	0
8	6287273.9	2068832.6	278.0	0
9	6287137.9	2069057.7	278.0	0
10	6287017.0	2069263.4	280.0	0
11	6286760.9	2069688.9	285.0	0
12	6286533.2	2070137.4	290.0	0
13	6286310.7	2070587.7	296.0	0

0ROADWAY 3 HRC nb (School to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
13	6286310.7	2070587.7	296.0	0
14	6286086.4	2071030.0	302.0	0

0ROADWAY 4 HRC nb (26 to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
14	6286086.4	2071030.0	302.0	0
15	6285859.5	2071475.8	308.0	0
16	6285540.8	2072106.2	311.0	0
17	6285403.1	2072385.2	310.0	0

0ROADWAY 5 HRC nb (Harvest Glen to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
17	6285403.1	2072385.2	310.0	0
18	6285328.1	2072574.1	310.0	0
19	6285298.0	2072673.9	310.0	0
20	6285270.7	2072773.6	311.0	0
21	6285221.2	2073078.2	314.0	0
22	6285201.8	2073673.3	322.0	0
23	6285188.6	2074037.0	338.0	0

0ROADWAY 6 HRC nb (Longspur to Baltimore)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
23	6285188.6	2074037.0	338.0	0
24	6285145.3	2074308.9	346.0	0
25	6285056.1	2074546.4	351.0	0
26	6284650.0	2075149.4	356.0	0

0ROADWAY 7 HRC sb (Baltimore to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
1	6284621.8	2075132.6	356.0	0
2	6285015.5	2074527.9	351.0	0
3	6285099.4	2074300.1	346.0	0
4	6285141.8	2074033.5	338.0	0
5	6285159.4	2073671.5	322.0	0

0ROADWAY 8 HRC sb (Longspur to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
5	6285159.4	2073671.5	322.0	0
6	6285181.5	2073072.9	314.0	0
7	6285228.3	2072759.5	311.0	0
8	6285256.5	2072658.0	310.0	0
9	6285287.4	2072557.3	310.0	0
10	6285368.7	2072369.3	310.0	0
11	6285504.6	2072087.7	311.0	0

0ROADWAY 9 HRC sb (Harvest Glen to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
11	6285504.6	2072087.7	311.0	0
12	6285818.9	2071457.3	308.0	0
13	6286045.8	2071007.9	302.0	0
14	6286269.2	2070567.4	296.0	0

0ROADWAY 10 HRC sb (26 to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	14.	40.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
14	6286269.2	2070567.4	296.0	0
15	6286493.4	2070122.4	290.0	0

0ROADWAY 11 HRC sb (School to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES-------------

	X	Y	Z	GRADE
15	6286493.4	2070122.4	290.0	0
16	6286720.3	2069667.7	285.0	0
17	6286977.2	2069239.6	280.0	0
18	6287102.6	2069033.0	278.0	0
19	6287238.6	2068813.1	278.0	0

	X	Y	Z	GRADE
20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

1

BARRIER 1 TYPE(A) Pad Edges 1

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
1	6286634.5	2070357.1	300.0	300.0	.0	0
2	6286502.0	2070298.3	300.0	300.0		
3	6286265.1	2070793.1	310.0	310.0		
4	6286320.9	2070828.5	310.0	310.0		

1

BARRIER 2 TYPE(A) Pad Edges 2

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
5	6286349.5	2070944.8	315.0	315.0	.0	0
6	6286239.3	2070896.7	314.0	314.0		
7	6286196.9	2070902.4	314.0	314.0		
8	6286078.1	2071137.0	311.0	311.0		
9	6286004.6	2071292.5	316.0	316.0		
10	6286004.6	2071603.5	317.0	317.0		
11	6286004.6	2071990.8	321.0	321.0		
12	6286004.5	2072360.7	324.0	324.0		
13	6286289.0	2072499.4	326.0	326.0		
14	6286498.0	2072566.2	329.0	329.0		

1

BARRIER 3 TYPE(A) Pad Edges 3

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
15	6286634.5	2072765.6	395.0	395.0	.0	0
16	6286621.9	2072916.9	395.0	395.0		
17	6286648.3	2073055.3	397.0	397.0		
18	6286685.9	2073120.3	400.0	400.0		
19	6286802.5	2073223.1	408.0	408.0		
20	6286939.8	2073344.0	421.0	421.0		
21	6287080.9	2073468.3	434.0	434.0		
22	6287179.3	2073554.7	442.0	442.0		
23	6287319.9	2073660.5	447.0	447.0		

1

BARRIER 4 TYPE(A) Pad Edges 4

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
24	6286661.4	2072669.3	399.0	399.0	.0	0
25	6286691.4	2072606.8	402.0	402.0		
26	6286808.6	2072443.9	413.0	413.0		
27	6286883.6	2072343.9	420.0	420.0		
28	6286840.1	2072178.6	425.0	425.0		
29	6286812.9	2072107.3	425.0	425.0		
30	6286826.1	2072043.3	425.0	425.0		
31	6286826.1	2072043.3	425.0	425.0		
32	6286852.2	2071992.5	425.0	425.0		
33	6286902.8	2071961.7	425.0	425.0		

1

BARRIER 5 TYPE(A) Pad Edges 5

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
33	6286902.8	2071961.7	425.0	425.0	.0	0
34	6286962.6	2071945.7	425.0	425.0		
35	6287015.8	2071960.1	425.0	425.0		
36	6287071.5	2071996.1	425.0	425.0		
37	6287133.1	2072101.5	433.0	433.0		
38	6287208.1	2072073.0	440.0	440.0		
39	6287286.5	2072058.4	443.0	443.0		
40	6287479.3	2072046.8	454.0	454.0		
41	6287668.5	2072035.1	465.0	465.0		
41b	6287685.1	2071982.5	494.0	494.0		

1

BARRIER 6 TYPE(A) Pad Edges 6

---------COORDINATES----------

	X	Y	Z	Z0	DELZ	P
41b	6287685.1	2071982.5	494.0	494.0	.0	0
42	6287686.6	2071882.5	494.0	494.0		
42b	6287699.0	2071869.6	494.0	494.0		
43	6287687.4	2071826.0	494.0	494.0		
44	6287537.5	2071795.8	493.0	493.0		
45	6287494.5	2071766.0	493.0	493.0		
46	6287457.5	2071786.6	493.0	493.0		
47	6287414.4	2071765.2	493.0	493.0		
48	6287295.5	2071799.6	493.0	493.0		
49	6287284.9	2071649.7	489.0	489.0		

1

BARRIER 7 TYPE(A) Pad Edges 7

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
49	6287284.9	2071649.7	489.0	489.0	.0	0
50	6287348.9	2071527.3	487.0	487.0		
51	6287424.5	2071350.9	481.0	481.0		
52	6287467.2	2071294.2	479.0	479.0		
53	6287518.6	2071247.5	477.0	477.0		

1

BARRIER 8 TYPE(A) Pad Edges 8

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
54	6287218.1	2070892.1	417.0	417.0	.0	0
55	6287157.9	2071011.8	422.0	422.0		
56	6287075.2	2071176.2	427.0	427.0		
57	6287007.6	2071272.7	427.0	427.0		
58	6286932.0	2071401.6	427.0	427.0		
59	6286944.0	2071476.9	427.0	427.0		
60	6286980.6	2071530.1	427.0	427.0		
61	6287085.3	2071587.4	427.0	427.0		
61b	6287195.3	2071545.3	430.0	430.0		

1

BARRIER 9 TYPE(A) Pad Edges 9

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
62	6287504.8	2073407.6	464.0	464.0	.0	0
63	6287455.9	2073368.6	463.0	463.0		
64	6287170.1	2073077.7	459.0	459.0		
65	6287084.1	2072959.0	458.0	458.0		
66	6287062.5	2072812.7	457.0	457.0		
67	6287098.4	2072672.4	456.0	456.0		
68	6287206.8	2072488.9	454.0	454.0		
69	6287296.9	2072394.7	453.0	453.0		
70	6287367.3	2072346.7	452.0	452.0		
71	6287469.2	2072361.5	452.0	452.0		

1

BARRIER 10 TYPE(A) Pad Edges 10

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
72	6287697.7	2073088.0	486.0	486.0	.0	0
73	6287547.5	2072976.4	486.0	486.0		
74	6287491.4	2072888.6	486.0	486.0		
75	6287491.1	2072766.9	485.0	485.0		
76	6287635.8	2072596.6	482.0	482.0		
77	6287767.5	2072309.5	477.0	477.0		

1

BARRIER 11 TYPE(A) Pad Edges 11

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
78	6287168.3	2074113.6	447.0	447.0	.0	0
79	6287306.7	2073811.7	443.0	443.0		
80	6287536.9	2073481.4	457.0	457.0		

1

BARRIER 12 TYPE(A) Pad Edges 12

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
81	6287283.0	2074170.1	465.0	465.0	.0	0
82	6287469.8	2073845.2	471.0	471.0		
82b	6287616.6	2073652.3	478.0	478.0		
82c	6287630.6	2073609.8	478.0	478.0		
83	6287702.0	2073532.9	475.0	475.0		

1

BARRIER 13 TYPE(A) Pad Edges 14

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
84	6288855.6	2071200.7	606.0	606.0	.0	0
85	6288817.6	2071249.1	606.0	606.0		
85b	6288817.1	2071249.5	600.0	600.0		
85c	6288775.2	2071293.2	600.0	600.0		
85d	6288774.8	2071293.5	593.0	593.0		
86	6288730.6	2071333.3	593.0	593.0		
86b	6288730.4	2071333.5	585.0	585.0		
87	6288637.1	2071415.2	574.0	574.0		
87b	6288636.6	2071415.5	558.0	558.0		
87c	6288577.5	2071447.1	558.0	558.0		

1

BARRIER 14 TYPE(A) Pad Edges 15

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
87c	6288577.5	2071447.1	558.0	558.0	.0	0
87d	6288576.6	2071447.3	542.0	542.0		
87e	6288512.6	2071462.6	542.0	542.0		
87f	6288512.2	2071462.7	535.0	535.0		
87g	6288454.3	2071466.7	535.0	535.0		
87h	6288453.5	2071466.7	528.0	528.0		
87i	6288396.4	2071470.4	528.0	528.0		

1

BARRIER 15 TYPE(A) Pad Edges 16

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
88	6287934.8	2071070.6	463.0	463.0	.0	0
89	6287896.0	2071051.1	461.0	461.0		
90	6287829.7	2071017.7	457.0	457.0		
91	6287774.3	2070989.8	452.0	452.0		
92	6287719.9	2070962.3	446.0	446.0		
93	6287660.0	2070932.2	438.0	438.0		
94	6287602.9	2070903.4	431.0	431.0		
95	6287558.2	2070880.9	426.0	426.0		
96	6287504.6	2070853.9	426.0	426.0		
97	6287457.4	2070947.6	426.0	426.0		

1

BARRIER 16 TYPE(A) Pad Edges 17

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
98	6287917.7	2071215.4	471.0	471.0	.0	0
99	6288056.8	2071153.4	487.0	487.0		
100	6288174.3	2071168.6	499.0	499.0		
101	6288341.6	2071223.3	517.0	517.0		
102	6288383.4	2071229.3	517.0	517.0		
103	6288411.9	2071206.0	518.0	518.0		

1

BARRIER 17 TYPE(A) Pade Edges 18

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
104	6287531.1	2074308.7	483.0	483.0	.0	0
105	6287706.9	2074046.2	487.0	487.0		
106	6287847.9	2073869.2	491.0	491.0		
107	6287887.1	2073856.0	493.0	493.0		

1

BARRIER 18 TYPE(A) Pad Edges 19

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
108a	6287776.1	2074544.5	503.0	503.0	.0	0
108b	6287725.5	2074618.8	503.0	503.0		
109	6287778.2	2074656.5	513.0	513.0		
110	6287798.1	2074702.8	518.0	518.0		
111	6287807.8	2074744.0	518.0	518.0		

1

Receivers @ 5'

	----------COORDINATES----------		
	X	Y	Z
122	6287364.9	2073731.6	449.0
123	6287304.2	2073841.4	447.0
124	6287259.2	2073938.6	447.0
125	6287214.1	2074038.4	450.0
126	6287305.2	2074144.6	470.0
127	6287363.6	2074041.5	471.0
128	6287427.1	2073933.5	472.0
129	6287494.5	2073824.6	476.0
130	6287570.0	2073726.7	479.0
131	6287643.4	2073611.8	482.0
132	6287829.0	2073908.0	495.0
133	6287734.8	2074027.6	491.0
134	6287658.8	2074124.9	491.0
135	6287588.0	2074233.7	489.0
136	6287761.3	2074632.7	507.0
137	6287817.0	2074735.2	523.0

1

ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
13 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
14 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
16 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				

1

SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
13 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
14 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
16 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				

1

RECEIVER	LEQ(H)	L10
122	47.0	49.2

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING 1.0 DBA

ROADWAY SEGMENT

1	1	2	3	4	5	6
	2.0	3.7	3.7	3.5	3.7	4.4
2	1	2	3	4	5	6
	6.5	10.0	10.9	14.0	16.1	17.8
3	1					

```
          23.6
   4        1    2    3
          26.8 31.7 34.5
   5        1    2    3    4    5    6
          31.7 28.9 29.0 33.9 37.1 35.1
   6        1    2    3
          32.1 31.2 34.5
   7        1    2    3    4
          34.3 30.9 31.8 33.4
   8        1    2    3    4    5    6
          37.0 33.9 28.9 28.8 31.6 33.2
   9        1    2    3
          31.8 27.0 22.8
  10        1
          17.8
  11        1    2    3    4    5    6
          16.5 14.2 10.8 10.9  6.6  6.6
  12        1    2    3    4    5
           3.6  3.5  3.7  3.7  2.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.5 18.5 12.9 19.1 19.5 19.8 19.4 15.8 13.2 13.1

          13.0 13.2 13.2 13.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.6 12.9 13.1 13.2 12.7 13.2 16.0 19.2 20.2 19.6

          18.3 14.4 18.9 14.5
  15        1    2    3    4    5    6    7    8    9   10

          11.2 13.4  8.5  8.8 12.7 15.8 16.1 16.1 16.4 22.4

  16        1    2    3    4    5    6    7    8    9   10

          22.4 16.2 16.1 15.9 15.7 12.8  8.8  8.4 13.4 11.2

  17        1    2    3    4    5    6    7
           2.7  8.7  8.1  8.0  9.5 10.9  7.0
  18        1    2    3    4    5    6    7
           6.8 10.9  9.5  8.0  8.0  8.5  2.6
1

 RECEIVER    LEQ(H)   L10
 123          47.3   49.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           1.6  3.3  3.4  3.1  3.3  4.0
   2        1    2    3    4    5    6
           6.3 11.8 10.2 13.7 16.1 18.8
   3        1
          24.1
   4        1    2    3
          27.2 34.5 34.4
   5        1    2    3    4    5    6
          31.7 28.9 29.0 34.0 37.3 35.4
   6        1    2    3
          32.4 31.6 34.8
   7        1    2    3    4
          34.7 31.2 32.2 33.7
   8        1    2    3    4    5    6
          37.2 33.9 28.9 28.8 31.6 33.2
   9        1    2    3
          34.6 27.4 23.3
  10        1
          19.2
  11        1    2    3    4    5    6
          16.4 13.9 10.4 11.7  8.3  6.2
  12        1    2    3    4    5
           3.2  3.2  3.4  3.3  1.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.6 18.9 12.3 18.5 18.9 19.2 18.8 17.8 12.9 12.7

          12.6 12.9 12.2 13.0
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.8 12.2 12.8 12.8 12.4 12.8 17.9 18.5 19.5 19.0

          17.6 13.8 19.6 17.6
  15        1    2    3    4    5    6    7    8    9   10

          10.5 13.6 11.8 14.7 15.2 15.5 15.7 15.7 15.7 21.9

  16        1    2    3    4    5    6    7    8    9   10

          21.7 15.6 15.6 15.5 15.4 15.1 14.7 12.1 13.8 10.5

  17        1    2    3    4    5    6    7
           6.5  7.9  7.6  7.6  9.2 10.3  6.4
  18        1    2    3    4    5    6    7
           6.2 10.4  9.2  7.5  7.5  8.0  6.1
1

 RECEIVER    LEQ(H)   L10
 124          46.0   48.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           1.4  3.1  3.2  3.0  3.1  3.8
   2        1    2    3    4    5    6
           9.4 11.5  9.9 13.5 16.3 19.5
   3        1
          24.2
   4        1    2    3
          27.7 34.4 32.8
   5        1    2    3    4    5    6
          30.1 27.4 27.5 32.4 35.4 33.4
   6        1    2    3
          30.5 29.4 32.4
   7        1    2    3    4
          32.4 29.1 30.2 31.8
   8        1    2    3    4    5    6
          35.3 32.4 27.4 27.3 30.1 31.6
   9        1    2    3
          34.3 28.0 23.7
  10        1
          20.1
  11        1    2    3    4    5    6
          16.6 13.7 10.0 11.1 11.1  6.0
  12        1    2    3    4    5
           3.0  3.0  3.2  3.2  1.4

  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.4 21.5 15.4 20.6 18.7 18.9 18.5 18.3 13.8 12.5

          12.4 12.7 12.1 12.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.0 12.0 12.5 12.7 12.2 13.7 18.4 18.2 19.3 18.7

          19.8 16.8 22.0 19.5
  15        1    2    3    4    5    6    7    8    9   10

          10.3 16.0 14.0 14.8 15.5 15.7 15.8 15.8 16.1 24.8

  16        1    2    3    4    5    6    7    8    9   10

          25.5 15.9 15.8 15.6 15.5 15.3 14.8 14.0 16.2 10.6

  17        1    2    3    4    5    6    7
           7.6  7.4  7.3  7.4  9.0 10.1  6.3
  18        1    2    3    4    5    6    7
           6.1 10.1  8.9  7.3  7.2  7.5  7.4
1

 RECEIVER    LEQ(H)   L10
 125          47.9   50.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           1.4  3.1  3.2  2.9  3.0  3.9
   2        1    2    3    4    5    6
          11.7 11.1  9.8 13.4 16.7 20.6
   3        1
          24.6
   4        1    2    3
          27.7 36.4 34.2
   5        1    2    3    4    5    6
          31.5 28.8 28.9 34.0 37.5 35.7
   6        1    2    3
          32.9 32.2 35.4
   7        1    2    3    4
          35.3 31.8 32.6 34.0
   8        1    2    3    4    5    6
          37.3 33.9 28.8 28.6 31.4 32.9
   9        1    2    3
          36.3 28.3 24.4
  10        1
          21.0
  11        1    2    3    4    5    6
          17.0 13.8  9.9 10.6 11.7 10.3
  12        1    2    3    4    5
           3.0  2.9  3.2  3.1  1.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.8 23.2 15.6 21.7 21.5 19.0 18.6 18.4 16.0 12.5

          12.4 12.7 12.0 11.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          11.6 11.9 12.5 12.6 12.2 15.9 18.5 18.4 19.4 21.8

          20.8 17.0 23.7 19.8
  15        1    2    3    4    5    6    7    8    9   10

          13.5 17.4 14.4 15.0 15.4 15.9 16.7 17.5 19.2 26.2

  16        1    2    3    4    5    6    7    8    9   10

          26.2 18.5 17.5 16.6 15.8 15.3 15.0 14.3 17.6 13.5

  17        1    2    3    4    5    6    7
           7.5  7.3  7.1  7.5  9.1 12.4  9.2
  18        1    2    3    4    5    6    7
           8.9 12.3  9.1  7.3  7.0  7.3  7.5
1

 RECEIVER    LEQ(H)   L10
 126          47.5   49.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           2.3  4.0  4.0  3.7  3.8  4.3
   2        1    2    3    4    5    6
           6.4 12.8 10.2 13.7 17.2 20.6
   3        1
          24.7
   4        1    2    3
          27.7 35.7 33.6
   5        1    2    3    4    5    6
          30.9 28.2 28.3 33.4 37.0 35.3
   6        1    2    3
          32.5 31.8 35.2
   7        1    2    3    4
          35.0 31.5 32.2 33.6
   8        1    2    3    4    5    6
          36.8 33.4 28.2 28.1 30.8 32.3
   9        1    2    3
          35.7 28.5 25.3
  10        1
          21.3
  11        1    2    3    4    5    6
          17.7 13.9 10.4 12.5  9.3  6.5
  12        1    2    3    4    5
           3.6  3.8  4.0  4.0  2.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.8 23.1 17.2 22.4 21.4 21.0 20.6 19.8 13.7 13.5

          13.4 13.6 13.7 13.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.8 13.5 13.5 13.6 13.1 13.6 19.9 20.2 21.4 21.5

          21.5 18.7 23.5 19.9
  15        1    2    3    4    5    6    7    8    9   10

          13.2 17.6 14.6 14.9 15.7 17.4 19.4 20.2 20.2 25.9

  16        1    2    3    4    5    6    7    8    9   10

          25.9 20.1 20.2 19.3 17.4 15.6 15.0 14.5 17.8 13.2
```

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  17        1    2    3    4    5    6    7
           7.9  8.3  8.1  8.3 10.1 12.4  9.0
  18        1    2    3    4    5    6    7
           8.8 12.3 10.0  8.2  8.0  8.5  7.5
1

 RECEIVER    LEQ(H)   L10
 127          47.3   49.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           2.6  4.3  4.3  4.0  4.1  4.7
   2        1    2    3    4    5    6
           6.7 11.4 10.7 13.9 17.2 19.7
   3        1
          24.9
   4        1    2    3
          28.5 35.0 33.7
   5        1    2    3    4    5    6
          31.0 28.3 28.4 33.4 36.9 35.0
   6        1    2    3
          32.3 31.5 34.9
   7        1    2    3    4
          34.7 31.1 32.0 33.3
   8        1    2    3    4    5    6
          36.7 33.4 28.3 28.1 30.9 32.5
   9        1    2    3
          35.0 28.6 25.0
  10        1
          20.4
  11        1    2    3    4    5    6
          17.6 14.1 10.7 12.1  6.7  6.8
  12        1    2    3    4    5
           4.0  4.0  4.3  4.3  2.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.2 21.4 15.6 21.6 21.7 21.3 21.2 18.1 14.0 13.8

          13.7 13.9 14.7 13.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.0 14.4 13.8 14.0 13.4 13.9 18.3 20.8 21.7 21.8

          20.7 17.0 21.9 19.4
  15        1    2    3    4    5    6    7    8    9   10

          13.3 16.1 13.4 15.1 15.5 16.4 18.1 19.6 20.3 26.0

  16        1    2    3    4    5    6    7    8    9   10

          26.0 20.1 19.5 18.9 16.4 15.4 15.1 13.5 16.3 13.4

  17        1    2    3    4    5    6    7
           4.6  9.4  8.4  8.6 10.3 12.3  9.3
  18        1    2    3    4    5    6    7
           9.1 12.1 10.3  8.5  8.4  9.5  3.4
1

 RECEIVER    LEQ(H)   L10
 128          47.0   49.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           3.0  4.6  4.6  4.4  4.4  5.0
   2        1    2    3    4    5    6
           7.0  7.4 11.7 14.2 17.0 18.8
   3        1
          24.3
   4        1    2    3
          28.0 33.8 33.8
   5        1    2    3    4    5    6
          31.1 28.3 28.4 33.4 36.7 34.8
   6        1    2    3
          31.9 31.2 34.5
   7        1    2    3    4
          34.4 30.8 31.7 33.1
   8        1    2    3    4    5    6
          36.6 33.3 28.3 28.2 30.9 32.5
   9        1    2    3
          33.8 28.5 24.4
  10        1
          18.9
  11        1    2    3    4    5    6
          17.6 14.4 11.5  9.2  7.0  7.1
  12        1    2    3    4    5
           4.4  4.4  4.7  4.7  3.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.7 21.7 15.9 22.0 21.8 21.8 21.4 14.0 14.3 14.1

          14.0 15.0 15.2 13.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.0 15.1 14.7 14.3 13.8 14.2 14.1 21.2 22.1 21.9

          21.2 17.4 22.0 17.7
  15        1    2    3    4    5    6    7    8    9   10

          13.5 16.2 11.5 12.0 14.7 16.0 16.5 18.3 20.2 26.2

  16        1    2    3    4    5    6    7    8    9   10

          26.1 20.1 18.3 16.9 15.9 14.7 12.0 11.4 16.2 13.6

  17        1    2    3    4    5    6    7
           3.2  8.2  9.0  9.0 10.5 12.2  9.4
  18        1    2    3    4    5    6    7
           9.0 12.2 10.5  8.9  8.9  7.7  3.1
1

 RECEIVER    LEQ(H)   L10
 129          46.8   49.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           3.6  5.2  5.2  4.9  4.9  5.5
   2        1    2    3    4    5    6
           7.5  7.8  8.7 14.6 16.9 19.4
   3        1
          23.2
   4        1    2    3
          28.2 33.9 33.6
   5        1    2    3    4    5    6
          31.1 28.3 28.3 33.3 36.5 34.5
   6        1    2    3
          31.6 30.8 34.1
   7        1    2    3    4
          34.0 30.4 31.3 32.8
   8        1    2    3    4    5    6
          36.4 33.2 28.2 28.1 30.9 32.4
   9        1    2    3
          33.9 28.4 22.5
  10        1
          19.5
  11        1    2    3    4    5    6
          17.6 14.8  9.9  7.8  7.5  7.7
  12        1    2    3    4    5
           4.9  4.9  5.2  5.3  3.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.6 22.6 16.9 22.5 22.4 22.7 19.1 14.5 14.9 14.8

          14.6 16.5 15.7 13.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.7 15.7 16.2 14.9 14.5 14.8 14.6 18.7 23.0 22.5

          21.6 18.4 22.9 18.6
  15        1    2    3    4    5    6    7    8    9   10

          13.9 17.0 12.4 12.7 13.2 13.6 15.1 17.9 20.1 26.3

  16        1    2    3    4    5    6    7    8    9   10

          26.2 20.5 17.8 14.6 13.5 13.1 12.7 12.3 17.1 14.1

  17        1    2    3    4    5    6    7
           3.8  4.2  9.0  9.7 11.2 12.7  9.5
  18        1    2    3    4    5    6    7
           9.2 12.7 11.2  9.5  8.7  4.2  3.7
1

 RECEIVER    LEQ(H)   L10
 130          46.1   48.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.1  5.7  5.8  5.4  5.5  6.0
   2        1    2    3    4    5    6
           7.9  8.1  7.9 14.2 16.3 20.0
   3        1
          21.3
   4        1    2    3
          26.5 33.8 30.3
   5        1    2    3    4    5    6
          27.6 25.0 25.7 33.1 36.3 34.2
   6        1    2    3
          31.2 30.4 33.8
   7        1    2    3    4
          33.6 30.1 31.0 32.5
   8        1    2    3    4    5    6
          36.1 33.1 26.0 25.2 27.7 29.4
   9        1    2    3
          33.8 26.9 20.5
  10        1
          20.0
  11        1    2    3    4    5    6
          17.1 14.8  8.0  8.1  8.0  8.1
  12        1    2    3    4    5
           5.4  5.5  5.8  5.8  4.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.2 23.1 17.0 22.9 23.0 21.8 15.2 15.0 15.4 15.3

          16.4 17.2 15.6 13.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.7 15.6 17.0 16.5 15.0 15.3 15.1 15.0 22.2 23.0

          22.0 18.4 23.4 19.2
  15        1    2    3    4    5    6    7    8    9   10

          14.3 17.4 13.1 13.5 13.9 14.0 14.3 14.6 14.9 25.9

  16        1    2    3    4    5    6    7    8    9   10

          25.8 14.8 14.5 14.2 14.0 13.8 13.5 13.0 17.4 14.5

  17        1    2    3    4    5    6    7
           4.1  4.6  4.5  9.3 11.8 13.1  9.8
  18        1    2    3    4    5    6    7
           9.6 13.1 11.9  8.6  4.4  4.6  4.1
1

 RECEIVER    LEQ(H)   L10
 131          45.3   47.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.7  6.3  6.3  6.0  6.0  6.7
   2        1    2    3    4    5    6
           8.4  8.6  8.3 13.5 15.8 20.7
   3        1
          20.8
   4        1    2    3
          22.5 33.7 30.1
   5        1    2    3    4    5    6
          28.2 25.2 25.1 29.8 34.5 33.8
   6        1    2    3
          30.8 30.0 33.4
   7        1    2    3    4
          33.2 29.7 30.6 32.1
   8        1    2    3    4    5    6
          34.6 30.0 25.4 25.5 28.6 29.1
   9        1    2    3
          33.7 22.8 20.7
  10        1
          20.9
  11        1    2    3    4    5    6
          16.3 14.1  8.4  8.6  8.5  8.8
  12        1    2    3    4    5
           6.0  6.1  6.3  6.3  4.7
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  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.4 23.2 17.4 23.3 22.0 16.1 15.8 15.6 16.0 16.4

          18.2 17.6 15.5 13.8
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.8 15.4 17.4 18.6 15.5 15.9 15.7 15.5 16.5 22.4

          22.4 18.8 23.6 19.5
  15        1    2    3    4    5    6    7    8    9   10

          14.4 17.5 13.9 14.2 14.6 14.8 15.0 15.1 15.2 21.2

  16        1    2    3    4    5    6    7    8    9   10

          21.2 15.1 15.1 14.8 14.8 14.5 14.2 13.8 17.6 14.7

  17        1    2    3    4    5    6    7
           4.7  5.1  5.0  4.9  8.3 13.4 10.3
  18        1    2    3    4    5    6    7
          10.0 13.1  7.7  4.8  4.9  5.2  4.6
1

 RECEIVER    LEQ(H)   L10
 132          41.6   43.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           7.2  9.2  9.4  9.5  8.7  6.6
   2        1    2    3    4    5    6
           8.5  8.2  7.6 11.1 14.7 19.2
   3        1
          19.4
   4        1    2    3
          22.0 30.5 27.6
   5        1    2    3    4    5    6
          24.8 22.0 22.0 27.0 30.1 28.2
   6        1    2    3
          25.4 24.8 28.4
   7        1    2    3    4
          28.4 24.5 25.2 26.5
   8        1    2    3    4    5    6
          30.0 26.9 22.0 21.9 24.7 26.4
   9        1    2    3
          30.4 22.7 19.3
  10        1
          19.4
  11        1    2    3    4    5    6
          15.0 11.7  7.8  8.1  8.6  8.7
  12        1    2    3    4    5
           6.3  9.9 10.0  9.4  7.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.0 20.1 14.5 20.1 16.1 16.3 16.0 15.8 19.7 18.5

          17.1 15.6 13.7 12.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.5 13.7 15.5 17.5 18.2 19.1 15.9 15.7 16.7 16.1

          19.4 15.9 20.5 18.6
  15        1    2    3    4    5    6    7    8    9   10

           9.7 15.3 13.0 13.8 14.1 14.3 14.5 14.6 14.7 20.9

  16        1    2    3    4    5    6    7    8    9   10

          20.8 14.6 14.6 14.4 14.3 14.0 13.8 13.0 15.4 10.1

  17        1    2    3    4    5    6    7
           4.7  4.8  4.7  4.6  5.8  7.0  8.3
  18        1    2    3    4    5    6    7
           7.7  6.8  5.8  4.5  4.6  4.8  4.6
1

 RECEIVER    LEQ(H)   L10
 133          42.1   44.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           7.2  9.2  5.7  5.4  5.3  5.9
   2        1    2    3    4    5    6
           7.6  7.7  7.3 12.1 14.4 18.9
   3        1
          19.9
   4        1    2    3
          25.2 30.6 27.6
   5        1    2    3    4    5    6
          24.9 22.1 22.2 27.1 30.4 28.5
   6        1    2    3
          25.8 25.2 30.6
   7        1    2    3    4
          30.2 24.9 25.5 26.9
   8        1    2    3    4    5    6
          30.3 27.1 22.1 22.0 24.8 26.4
   9        1    2    3
          30.5 25.7 19.3
  10        1
          18.9
  11        1    2    3    4    5    6
          15.3 12.7  7.3  7.6  7.6  8.1
  12        1    2    3    4    5
           5.3  5.4  5.6  7.7  7.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.9 22.3 16.4 22.3 20.7 15.7 15.3 15.1 15.4 18.2

          17.0 15.8 13.7 12.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.2 13.6 15.7 17.3 17.9 15.3 15.2 15.0 16.0 21.2

          21.5 17.9 22.7 19.0
  15        1    2    3    4    5    6    7    8    9   10

          13.3 16.5 12.6 13.0 13.4 13.6 13.9 14.2 14.5 21.8

  16        1    2    3    4    5    6    7    8    9   10

          21.8 14.4 14.1 13.8 13.6 13.3 13.0 12.6 16.6 13.6

  17        1    2    3    4    5    6    7
           3.8  4.3  4.2  4.1  6.8 12.3  9.2
  18        1    2    3    4    5    6    7
           8.9 12.0  6.0  4.0  4.1  4.3  3.7
1

 RECEIVER    LEQ(H)   L10
 134          43.3   45.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           3.8  5.4  5.4  5.0  5.1  5.6
   2        1    2    3    4    5    6
           7.2  7.3  7.0 12.9 15.3 18.6
   3        1
          21.6
   4        1    2    3
          26.5 30.7 27.9
   5        1    2    3    4    5    6
          25.1 22.4 22.5 27.5 30.8 29.2
   6        1    2    3
          26.5 28.5 33.9
   7        1    2    3    4
          33.7 27.9 26.3 27.6
   8        1    2    3    4    5    6
          30.7 27.5 22.4 22.3 25.1 26.7
   9        1    2    3
          30.6 26.8 20.9
  10        1
          18.6
  11        1    2    3    4    5    6
          16.1 13.4  7.2  7.3  7.2  7.6
  12        1    2    3    4    5
           5.0  5.1  5.4  5.5  3.9
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.8 22.6 16.5 22.3 22.4 20.1 15.0 14.8 15.3 16.3

          16.9 16.1 13.8 12.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.2 13.8 16.0 17.3 15.7 15.1 14.9 14.7 20.6 22.4

          21.4 17.8 23.0 18.8
  15        1    2    3    4    5    6    7    8    9   10

          13.7 16.8 12.5 12.9 13.2 13.6 14.0 16.4 16.8 23.8

  16        1    2    3    4    5    6    7    8    9   10

          23.8 16.6 16.3 13.9 13.5 13.1 12.8 12.4 16.8 13.8

  17        1    2    3    4    5    6    7
           3.4  4.0  3.9  6.4 11.0 12.4  9.2
  18        1    2    3    4    5    6    7
           8.9 12.4 11.0  5.3  3.7  3.9  3.4
1

 RECEIVER    LEQ(H)   L10
 135          44.3   46.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           3.3  5.0  5.0  4.6  4.6  4.9
   2        1    2    3    4    5    6
           6.8  7.0  6.7 13.3 15.8 18.1
   3        1
          22.6
   4        1    2    3
          27.0 30.6 27.9
   5        1    2    3    4    5    6
          25.2 22.5 22.6 27.6 31.0 33.5
   6        1    2    3
          31.3 30.7 34.2
   7        1    2    3    4
          34.1 30.3 31.0 31.8
   8        1    2    3    4    5    6
          31.0 27.7 22.6 22.4 25.2 26.7
   9        1    2    3
          30.5 27.2 22.8
  10        1
          18.2
  11        1    2    3    4    5    6
          16.5 13.8  7.3  7.0  6.9  7.1
  12        1    2    3    4    5
           4.5  4.6  5.0  5.0  3.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.4 22.3 16.7 22.1 21.9 22.2 14.6 14.3 14.8 14.6

          16.4 15.9 13.8 12.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.2 13.8 15.8 16.4 14.3 14.7 14.4 14.3 22.4 22.0

          21.2 18.1 22.7 18.4
  15        1    2    3    4    5    6    7    8    9   10

          13.4 16.6 11.9 12.4 12.9 15.2 16.2 16.6 17.0 24.2

  16        1    2    3    4    5    6    7    8    9   10

          24.1 16.9 16.6 16.2 15.2 12.9 12.4 11.8 16.7 13.5

  17        1    2    3    4    5    6    7
           3.0  3.6  5.9  9.0 10.5 12.0  8.9
  18        1    2    3    4    5    6    7
           8.6 12.0 10.4  9.0  5.1  3.6  3.0
1

 RECEIVER    LEQ(H)   L10
 136          41.5   43.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           6.1  8.0  6.4  4.6  4.4  4.8
   2        1    2    3    4    5    6
           6.4  6.4  6.0 11.5 14.2 17.1
   3        1
```

```
          21.2
    4       1    2    3
          25.5 29.2 26.4
    5       1    2    3    4    5    6
          24.2 21.5 21.6 26.6 30.0 28.0
    6       1    2    3
          25.4 25.0 28.6
    7       1    2    3    4
          28.5 24.6 25.2 26.3
    8       1    2    3    4    5    6
          29.9 26.6 21.5 21.4 24.1 25.2
    9       1    2    3
          29.1 25.9 21.4
   10       1
          17.1
   11       1    2    3    4    5    6
          15.0 12.0  6.1  6.4  6.4  7.1
   12       1    2    3    4    5
           4.4  4.6  4.9  7.8  6.5
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          18.2 22.2 15.8 21.6 21.7 18.5 14.7 14.5 15.1 17.3

          15.8 14.3 12.3 10.9
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          11.0 12.3 14.2 16.2 17.1 14.8 14.6 14.4 19.1 21.8

          20.8 17.2 22.5 18.3
   15       1    2    3    4    5    6    7    8    9   10

          13.0 16.1 11.8 12.1 12.6 14.4 15.4 15.5 15.4 21.4

   16       1    2    3    4    5    6    7    8    9   10

          21.4 15.3 15.4 15.3 14.4 12.5 12.1 11.7 16.2 13.1

   17       1    2    3    4    5    6    7
           2.6  3.2  3.1  3.5 10.1 11.6  8.4
   18       1    2    3    4    5    6    7
           8.1 11.5  9.8  3.0  3.0  3.2  2.6
1

 RECEIVER    LEQ(H)   L10
 137          44.8   46.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

    1       1    2    3    4    5    6
           6.4  8.3  8.8  7.1  5.1  5.5
    2       1    2    3    4    5    6
           7.0  6.6  6.2 11.3 14.3 17.5
    3       1
          21.0
    4       1    2    3
          25.9 29.9 29.5
    5       1    2    3    4    5    6
          28.2 25.5 25.6 30.6 34.2 32.7
    6       1    2    3
          30.2 29.7 33.6
    7       1    2    3    4
          33.4 29.4 29.9 31.0
    8       1    2    3    4    5    6
          34.1 30.6 25.5 25.4 28.1 28.5
    9       1    2    3
          29.9 26.1 22.0
   10       1
          17.5
   11       1    2    3    4    5    6
          15.2 11.9  6.3  6.6  6.9  7.6
   12       1    2    3    4    5
           5.0  5.2  8.7  8.7  6.8
   13       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          18.5 22.5 16.5 22.4 22.5 17.4 15.5 15.4 17.3 17.8

          16.2 14.5 12.5 11.0
   14       1    2    3    4    5    6    7    8    9   10

   11      12   13   14
          11.1 12.5 14.4 16.6 17.5 17.1 15.4 15.2 18.3 22.6

          21.4 17.9 22.9 18.6
   15       1    2    3    4    5    6    7    8    9   10

          13.7 16.9 12.7 12.9 13.3 15.1 17.8 18.8 18.6 24.2

   16       1    2    3    4    5    6    7    8    9   10

          24.0 18.5 18.7 18.1 15.2 13.3 12.9 12.6 17.0 13.9

   17       1    2    3    4    5    6    7
           3.1  3.6  3.5  3.6  9.8 12.4  9.1
   18       1    2    3    4    5    6    7
           8.8 12.4  9.3  3.5  3.5  3.6  3.1
```

****
STAM2VU1
Version 1.20
****
STAMINA 2.0/BCR
MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
TRAFFIC NOISE PREDICTION MODEL

MODIFIED TO:
1. ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
2. CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
3. PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.

****

MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
AND BOWLBY & ASSOCIATES, INC.
2014 BROADWAY, SUITE 210
NASHVILLE, TN 37203-2425
TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE *.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.

(INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH)

Meadowood - Single-Family 2nd Floor (Receivers 122-137)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

HEIGHT	CODE	DESCRIPTION
.00	1	RECEIVER HEIGHT ADJUSTMENT
1.00	2	A-WEIGHTED SOUND LEVEL ONLY
.00	3	HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
.00	4	HEIGHT ADJUSTMENT FOR HEAVY TRUCKS (HT)
.00	5	HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS (MT)
.000	6	HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4) CARS--CALVENO C0 = 5.20 C1 = 38.80 S0 = .00
2.300	7	HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5) MT--CALVENO C0 = 35.30 C1 = 25.60 S0 = .00
8.000	8	HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6) HT--CALVENO C0 = 50.40 C1 = 19.20 S0 = .00

0ROADWAY 1 HRC nb (76 to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6287767.4	2067284.0	276.0	0
2	6287704.7	2067456.2	276.0	0
3	6287629.7	2067702.5	279.0	0
4	6287568.8	2067936.5	284.0	0
5	6287512.3	2068148.3	284.0	0
6	6287446.9	2068359.4	282.0	0
7	6287374.5	2068606.6	279.0	0

0ROADWAY 2 HRC nb (Pankey to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
7	6287374.5	2068606.6	279.0	0
8	6287273.9	2068832.6	278.0	0
9	6287137.9	2069057.7	278.0	0
10	6287017.0	2069263.4	280.0	0
11	6286760.9	2069688.9	285.0	0
12	6286533.2	2070137.4	290.0	0
13	6286310.7	2070587.7	296.0	0

0ROADWAY 3 HRC nb (School to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
13	6286310.7	2070587.7	296.0	0
14	6286086.4	2071030.0	302.0	0

0ROADWAY 4 HRC nb (26 to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286086.4	2071030.0	302.0	0
15	6285859.5	2071475.8	308.0	0
16	6285540.8	2072106.2	311.0	0
17	6285403.1	2072385.2	310.0	0

0ROADWAY 5 HRC nb (Harvest Glen to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
17	6285403.1	2072385.2	310.0	0
18	6285328.1	2072574.1	310.0	0
19	6285298.0	2072673.9	310.0	0
20	6285270.7	2072773.6	311.0	0
21	6285221.2	2073078.2	314.0	0
22	6285201.8	2073673.3	322.0	0
23	6285188.6	2074037.0	338.0	0

0ROADWAY 6 HRC nb (Longspur to Baltimore)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
23	6285188.6	2074037.0	338.0	0
24	6285145.3	2074308.9	346.0	0
25	6285056.1	2074546.4	351.0	0
26	6284650.0	2075149.4	356.0	0

0ROADWAY 7 HRC sb (Baltimore to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6284621.8	2075132.6	356.0	0
2	6285015.5	2074527.9	351.0	0
3	6285099.4	2074300.1	346.0	0
4	6285141.8	2074033.5	338.0	0
5	6285159.4	2073671.5	322.0	0

0ROADWAY 8 HRC sb (Longspur to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
5	6285159.4	2073671.5	322.0	0
6	6285181.5	2073072.9	314.0	0
7	6285228.3	2072759.5	311.0	0
8	6285256.5	2072658.0	310.0	0
9	6285287.4	2072557.3	310.0	0
10	6285368.7	2072369.3	310.0	0
11	6285504.6	2072087.7	311.0	0

0ROADWAY 9 HRC sb (Harvest Glen to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
11	6285504.6	2072087.7	311.0	0
12	6285818.9	2071457.3	308.0	0
13	6286045.8	2071007.9	302.0	0
14	6286269.2	2070567.4	296.0	0

0ROADWAY 10 HRC sb (26 to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	14.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286269.2	2070567.4	296.0	0
15	6286493.4	2070122.4	290.0	0

0ROADWAY 11 HRC sb (School to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
15	6286493.4	2070122.4	290.0	0
16	6286720.3	2069667.7	285.0	0
17	6286977.2	2069239.6	280.0	0
18	6287102.6	2069033.0	278.0	0
19	6287238.6	2068813.1	278.0	0

20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0

	COORDINATES X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	COORDINATES X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	COORDINATES X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

1

BARRIER 1 TYPE(A) Pad Edges 1

	COORDINATES X	Y	Z	Z0	DELZ	P
1	6286634.5	2070357.1	300.0	300.0	.0	0
2	6286502.0	2070298.3	300.0	300.0		
3	6286265.1	2070793.1	310.0	310.0		
4	6286320.9	2070828.5	310.0	310.0		

1

BARRIER 2 TYPE(A) Pad Edges 2

	COORDINATES X	Y	Z	Z0	DELZ	P
5	6286349.5	2070944.8	315.0	315.0	.0	0
6	6286239.3	2070896.7	314.0	314.0		
7	6286196.9	2070902.4	314.0	314.0		
8	6286078.1	2071137.0	311.0	311.0		
9	6286004.6	2071292.5	316.0	316.0		
10	6286004.6	2071603.5	317.0	317.0		
11	6286004.6	2071990.8	321.0	321.0		
12	6286004.5	2072360.7	324.0	324.0		
13	6286289.0	2072499.4	326.0	326.0		
14	6286498.0	2072566.2	329.0	329.0		

1

BARRIER 3 TYPE(A) Pad Edges 3

	COORDINATES X	Y	Z	Z0	DELZ	P
15	6286634.5	2072765.6	395.0	395.0	.0	0
16	6286621.9	2072916.9	395.0	395.0		
17	6286648.3	2073055.3	397.0	397.0		
18	6286685.9	2073120.3	400.0	400.0		
19	6286802.5	2073223.1	408.0	408.0		
20	6286939.8	2073344.0	421.0	421.0		
21	6287080.9	2073468.3	434.0	434.0		
22	6287179.3	2073554.7	442.0	442.0		
23	6287319.9	2073660.5	447.0	447.0		

1

BARRIER 4 TYPE(A) Pad Edges 4

	COORDINATES X	Y	Z	Z0	DELZ	P
24	6286661.4	2072669.3	399.0	399.0	.0	0
25	6286691.4	2072606.8	402.0	402.0		
26	6286808.6	2072443.9	413.0	413.0		
27	6286883.6	2072343.9	420.0	420.0		
28	6286840.1	2072178.6	425.0	425.0		
29	6286812.9	2072107.3	425.0	425.0		
30	6286826.1	2072043.3	425.0	425.0		
31	6286826.1	2072043.3	425.0	425.0		
32	6286852.2	2071992.5	425.0	425.0		
33	6286902.8	2071961.7	425.0	425.0		

1

BARRIER 5 TYPE(A) Pad Edges 5

	COORDINATES X	Y	Z	Z0	DELZ	P
33	6286902.8	2071961.7	425.0	425.0	.0	0
34	6286962.6	2071945.7	425.0	425.0		
35	6287015.8	2071960.1	425.0	425.0		
36	6287071.5	2071996.1	425.0	425.0		
37	6287133.1	2072101.5	433.0	433.0		
38	6287208.1	2072073.0	440.0	440.0		
39	6287286.5	2072058.4	443.0	443.0		
40	6287479.3	2072046.8	454.0	454.0		
41	6287668.5	2072035.1	465.0	465.0		
41b	6287685.1	2071982.5	494.0	494.0		

1

BARRIER 6 TYPE(A) Pad Edges 6

	COORDINATES X	Y	Z	Z0	DELZ	P
41b	6287685.1	2071982.5	494.0	494.0	.0	0
42	6287686.6	2071882.5	494.0	494.0		
42b	6287699.0	2071869.6	494.0	494.0		
43	6287687.4	2071826.0	494.0	494.0		
44	6287537.5	2071795.8	493.0	493.0		
45	6287494.5	2071766.0	493.0	493.0		
46	6287457.5	2071786.6	493.0	493.0		
47	6287414.4	2071765.2	493.0	493.0		
48	6287295.5	2071799.6	493.0	493.0		
49	6287284.9	2071649.7	489.0	489.0		

1

BARRIER 7 TYPE(A) Pad Edges 7

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
49	6287284.9	2071649.7	489.0	489.0	.0	0
50	6287348.9	2071527.3	487.0	487.0		
51	6287424.5	2071350.9	481.0	481.0		
52	6287467.2	2071294.2	479.0	479.0		
53	6287518.6	2071247.5	477.0	477.0		

1

BARRIER 8 TYPE(A) Pad Edges 8

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
54	6287218.1	2070892.1	417.0	417.0	.0	0
55	6287157.9	2071011.8	422.0	422.0		
56	6287075.2	2071176.2	427.0	427.0		
57	6287007.6	2071272.7	427.0	427.0		
58	6286932.0	2071401.6	427.0	427.0		
59	6286944.0	2071476.9	427.0	427.0		
60	6286980.6	2071530.1	427.0	427.0		
61	6287085.3	2071587.4	427.0	427.0		
61b	6287195.3	2071545.3	430.0	430.0		

1

BARRIER 9 TYPE(A) Pad Edges 9

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
62	6287504.8	2073407.6	464.0	464.0	.0	0
63	6287455.9	2073368.6	463.0	463.0		
64	6287170.1	2073077.7	459.0	459.0		
65	6287084.1	2072959.0	458.0	458.0		
66	6287062.5	2072812.7	457.0	457.0		
67	6287098.4	2072672.4	456.0	456.0		
68	6287206.8	2072488.9	454.0	454.0		
69	6287296.9	2072394.7	453.0	453.0		
70	6287367.3	2072346.7	452.0	452.0		
71	6287469.2	2072361.5	452.0	452.0		

1

BARRIER 10 TYPE(A) Pad Edges 10

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
72	6287697.7	2073088.0	486.0	486.0	.0	0
73	6287547.5	2072976.4	486.0	486.0		
74	6287491.4	2072888.6	486.0	486.0		
75	6287491.1	2072766.9	485.0	485.0		
76	6287635.8	2072596.6	482.0	482.0		
77	6287767.5	2072309.5	477.0	477.0		

1

BARRIER 11 TYPE(A) Pad Edges 11

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
78	6287168.3	2074113.6	447.0	447.0	.0	0
79	6287306.7	2073811.7	443.0	443.0		
80	6287536.9	2073481.4	457.0	457.0		

1

BARRIER 12 TYPE(A) Pad Edges 12

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
81	6287283.0	2074170.1	465.0	465.0	.0	0
82	6287469.8	2073845.2	471.0	471.0		
82b	6287616.6	2073652.3	478.0	478.0		
82c	6287630.6	2073609.8	478.0	478.0		
83	6287702.0	2073532.9	475.0	475.0		

1

BARRIER 13 TYPE(A) Pad Edges 14

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
84	6288855.6	2071200.7	606.0	606.0	.0	0
85	6288817.6	2071249.1	606.0	606.0		
85b	6288817.1	2071249.5	600.0	600.0		
85c	6288775.2	2071293.2	600.0	600.0		
85d	6288774.8	2071293.5	593.0	593.0		
86	6288730.6	2071333.3	593.0	593.0		
86b	6288730.4	2071333.5	585.0	585.0		
87	6288637.1	2071415.2	574.0	574.0		
87b	6288636.6	2071415.5	558.0	558.0		
87c	6288577.5	2071447.1	558.0	558.0		

1

BARRIER 14 TYPE(A) Pad Edges 15

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
87c	6288577.5	2071447.1	558.0	558.0	.0	0
87d	6288576.6	2071447.3	542.0	542.0		
87e	6288512.6	2071462.6	542.0	542.0		
87f	6288512.2	2071462.7	535.0	535.0		
87g	6288454.3	2071466.7	535.0	535.0		
87h	6288453.5	2071466.7	528.0	528.0		
87i	6288396.4	2071470.4	528.0	528.0		

1

BARRIER 15 TYPE(A) Pad Edges 16

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
88	6287934.8	2071070.6	463.0	463.0	.0	0
89	6287896.0	2071051.1	461.0	461.0		
90	6287829.7	2071017.7	457.0	457.0		
91	6287774.3	2070989.8	452.0	452.0		
92	6287719.9	2070962.3	446.0	446.0		
93	6287660.0	2070932.2	438.0	438.0		
94	6287602.9	2070903.4	431.0	431.0		
95	6287558.2	2070880.9	426.0	426.0		
96	6287504.6	2070853.9	426.0	426.0		
97	6287457.4	2070947.6	426.0	426.0		

1

BARRIER 16 TYPE(A) Pad Edges 17

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
98	6287917.7	2071215.4	471.0	471.0	.0	0
99	6288056.8	2071153.4	487.0	487.0		
100	6288174.3	2071168.6	499.0	499.0		
101	6288341.6	2071223.3	517.0	517.0		
102	6288383.4	2071229.3	517.0	517.0		
103	6288411.9	2071206.0	518.0	518.0		

1

BARRIER 17 TYPE(A) Pade Edges 18

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
104	6287531.1	2074308.7	483.0	483.0	.0	0
105	6287706.9	2074046.2	487.0	487.0		
106	6287847.9	2073869.2	491.0	491.0		
107	6287887.1	2073856.0	493.0	493.0		

1

BARRIER 18 TYPE(A) Pad Edges 19

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
108a	6287776.1	2074544.5	503.0	503.0	.0	0
108b	6287725.5	2074618.8	503.0	503.0		
109	6287778.2	2074656.5	513.0	513.0		
110	6287798.1	2074702.8	518.0	518.0		
111	6287807.8	2074744.0	518.0	518.0		

1

Receivers @ 15'

	----------COORDINATES----------		
	X	Y	Z
122	6287364.9	2073731.6	459.0
123	6287304.2	2073841.4	457.0
124	6287259.2	2073938.6	457.0
125	6287214.1	2074038.4	460.0
126	6287305.2	2074144.6	480.0
127	6287363.6	2074041.5	481.0
128	6287427.1	2073933.5	482.0
129	6287494.5	2073824.6	486.0
130	6287570.0	2073726.7	489.0
131	6287643.4	2073611.8	492.0
132	6287829.0	2073908.0	505.0
133	6287734.8	2074027.6	501.0
134	6287658.8	2074124.9	501.0
135	6287588.0	2074233.7	499.0
136	6287761.3	2074632.7	517.0
137	6287817.0	2074735.2	533.0

1

ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
13 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
14 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
16 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				

1

SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
13 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
14 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
16 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				

1

RECEIVER	LEQ(H)	L10
122	47.3	49.4

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING 1.0 DBA

ROADWAY SEGMENT

1	1	2	3	4	5	6
	2.6	4.3	4.3	4.1	4.2	4.9
2	1	2	3	4	5	6
	7.0	11.0	11.5	14.4	17.1	18.9
3	1					

```
          24.4
   4        1    2    3
          28.1 33.7 34.5
   5        1    2    3    4    5    6
          31.7 28.9 29.0 33.9 37.1 35.1
   6        1    2    3
          32.1 31.2 34.5
   7        1    2    3    4
          34.3 30.9 31.8 33.4
   8        1    2    3    4    5    6
          37.0 33.9 28.9 28.8 31.6 33.2
   9        1    2    3
          34.1 28.8 24.1
  10        1
          18.9
  11        1    2    3    4    5    6
          17.5 14.6 11.3 11.9  7.0  7.1
  12        1    2    3    4    5
           4.1  4.1  4.3  4.3  2.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          16.4 20.4 14.7 20.9 21.3 21.3 21.0 17.1 13.9 13.7

          13.6 13.8 13.9 14.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.3 13.6 13.7 13.9 13.4 13.8 17.3 20.8 21.7 21.3

          20.0 16.2 20.7 16.4
  15        1    2    3    4    5    6    7    8    9   10

          12.9 15.1 10.3 10.7 13.7 16.0 16.3 17.0 18.1 26.4

  16        1    2    3    4    5    6    7    8    9   10

          26.4 17.9 17.0 16.2 15.9 13.8 10.7 10.2 15.1 12.9

  17        1    2    3    4    5    6    7
           3.2  9.7  8.8  8.8 10.4 11.9  8.7
  18        1    2    3    4    5    6    7
           8.4 11.9 10.3  8.8  8.7  9.5  3.1
1

 RECEIVER    LEQ(H)   L10
 123          47.5   49.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           2.2  3.9  3.9  3.7  3.8  4.5
   2        1    2    3    4    5    6
           6.7 12.8 10.7 14.1 17.1 19.8
   3        1
          24.7
   4        1    2    3
          28.3 34.7 34.4
   5        1    2    3    4    5    6
          31.7 28.9 29.0 34.0 37.3 35.4
   6        1    2    3
          32.4 31.6 34.8
   7        1    2    3    4
          34.7 31.2 32.2 33.6
   8        1    2    3    4    5    6
          37.2 33.9 28.9 28.8 31.6 33.2
   9        1    2    3
          34.7 28.6 24.7
  10        1
          20.4
  11        1    2    3    4    5    6
          17.5 14.3 10.8 12.7  9.2  6.7
  12        1    2    3    4    5
           3.8  3.8  4.0  3.9  2.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.8 20.6 14.1 20.2 20.6 20.7 20.4 19.2 13.6 13.3

          13.2 13.5 12.9 13.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.3 12.8 13.4 13.5 13.0 13.5 19.3 20.1 21.1 20.6

          19.3 15.6 21.2 18.9
  15        1    2    3    4    5    6    7    8    9   10

          12.2 15.2 13.0 15.4 15.7 16.1 16.7 17.2 17.7 25.6

  16        1    2    3    4    5    6    7    8    9   10

          25.8 17.6 17.1 16.8 16.0 15.6 15.4 13.2 15.4 12.2

  17        1    2    3    4    5    6    7
           7.6  8.6  8.3  8.3 10.0 11.6  8.0
  18        1    2    3    4    5    6    7
           7.8 11.6 10.0  8.3  8.2  8.7  7.2
1

 RECEIVER    LEQ(H)   L10
 124          47.7   49.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           2.0  3.6  3.8  3.5  3.6  4.3
   2        1    2    3    4    5    6
          10.4 12.4 10.4 13.9 17.2 20.6
   3        1
          25.2
   4        1    2    3
          28.2 35.7 34.3
   5        1    2    3    4    5    6
          31.6 28.9 29.0 34.0 37.4 35.6
   6        1    2    3
          32.7 31.9 35.1
   7        1    2    3    4
          35.0 31.5 32.4 33.8
   8        1    2    3    4    5    6
          37.3 33.9 28.9 28.7 31.5 33.0
   9        1    2    3
          35.7 28.9 25.0
  10        1
          21.2
  11        1    2    3    4    5    6
          17.6 14.1 10.5 11.8 12.2  6.5
  12        1    2    3    4    5
           3.5  3.5  3.8  3.7  2.0

  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.0 22.7 16.6 22.0 20.3 20.5 20.0 19.7 14.6 13.1

          13.0 13.3 12.6 12.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.6 12.6 13.1 13.3 12.8 14.6 19.8 19.7 20.8 20.4

          21.2 18.1 23.1 20.1
  15        1    2    3    4    5    6    7    8    9   10

          12.0 17.2 14.8 15.2 15.7 16.2 17.6 18.0 19.9 26.3

  16        1    2    3    4    5    6    7    8    9   10

          26.3 19.8 17.8 17.5 16.2 15.5 15.2 14.8 17.4 12.3

  17        1    2    3    4    5    6    7
           8.7  8.1  7.9  8.2  9.9 11.5  8.0
  18        1    2    3    4    5    6    7
           7.7 11.5  9.7  8.1  7.9  8.1  8.6
1

 RECEIVER    LEQ(H)   L10
 125          48.0   50.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           1.9  3.7  3.7  3.4  3.5  4.4
   2        1    2    3    4    5    6
          12.8 11.8 10.2 13.8 17.5 21.9
   3        1
          25.2
   4        1    2    3
          28.0 36.4 34.2
   5        1    2    3    4    5    6
          31.5 28.8 28.9 34.0 37.5 35.7
   6        1    2    3
          32.9 32.2 35.4
   7        1    2    3    4
          35.3 31.8 32.6 34.0
   8        1    2    3    4    5    6
          37.3 33.9 28.8 28.6 31.4 32.9
   9        1    2    3
          36.4 28.7 25.8
  10        1
          22.2
  11        1    2    3    4    5    6
          17.8 14.4 10.4 11.2 12.8 11.4
  12        1    2    3    4    5
           3.5  3.5  3.7  3.7  2.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.0 23.9 16.8 22.9 22.8 20.6 19.9 19.8 17.1 13.1

          13.0 13.2 12.6 12.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.2 12.5 13.1 13.2 12.8 17.1 19.9 19.6 21.0 23.0

          22.0 18.2 24.3 20.1
  15        1    2    3    4    5    6    7    8    9   10

          14.7 18.3 14.8 15.2 15.9 17.3 19.3 20.5 20.4 26.2

  16        1    2    3    4    5    6    7    8    9   10

          26.2 20.4 20.5 19.2 17.2 15.8 15.2 14.7 18.5 14.7

  17        1    2    3    4    5    6    7
           8.5  7.9  7.8  8.2 10.2 13.7 10.4
  18        1    2    3    4    5    6    7
          10.2 13.6 10.1  8.1  7.7  7.9  8.5
1

 RECEIVER    LEQ(H)   L10
 126          47.6   49.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           3.0  4.6  4.6  4.2  4.3  4.8
   2        1    2    3    4    5    6
           6.8 13.7 10.7 14.1 18.0 22.4
   3        1
          25.0
   4        1    2    3
          27.9 35.8 33.6
   5        1    2    3    4    5    6
          30.9 28.2 28.3 33.4 37.0 35.3
   6        1    2    3
          32.5 31.8 35.2
   7        1    2    3    4
          35.0 31.4 32.2 33.6
   8        1    2    3    4    5    6
          36.8 33.4 28.2 28.1 30.8 32.3
   9        1    2    3
          35.8 28.8 26.2
  10        1
          22.4
  11        1    2    3    4    5    6
          18.6 14.4 10.9 13.5 10.1  7.0
  12        1    2    3    4    5
           4.2  4.3  4.6  4.6  3.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.4 23.7 17.9 23.5 22.8 22.0 21.5 21.0 14.3 14.1

          14.1 14.2 14.3 14.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.5 14.1 14.1 14.3 13.8 14.3 21.1 21.1 22.4 23.0

          22.7 19.4 24.2 20.5
  15        1    2    3    4    5    6    7    8    9   10

          14.8 18.5 15.0 15.6 17.2 20.1 20.3 20.2 20.2 25.9

  16        1    2    3    4    5    6    7    8    9   10

          25.9 20.1 20.2 20.1 20.1 17.1 15.8 14.9 18.6 14.8
```

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  17        1    2    3    4    5    6    7
           9.0  9.0  8.8  9.1 10.9 13.8 10.6
  18        1    2    3    4    5    6    7
          10.4 13.8 10.8  9.0  8.7  9.3  8.6
1

 RECEIVER    LEQ(H)   L10
 127          47.4   49.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           3.3  5.0  4.9  4.6  4.6  5.1
   2        1    2    3    4    5    6
           7.2 12.3 11.2 14.4 18.1 21.3
   3        1
          25.2
   4        1    2    3
          28.9 35.2 33.7
   5        1    2    3    4    5    6
          31.0 28.3 28.4 33.4 36.9 35.0
   6        1    2    3
          32.3 31.5 34.9
   7        1    2    3    4
          34.7 31.1 32.0 33.3
   8        1    2    3    4    5    6
          36.7 33.4 28.3 28.1 30.9 32.5
   9        1    2    3
          35.2 29.8 26.1
  10        1
          21.5
  11        1    2    3    4    5    6
          18.6 14.6 11.2 13.0  7.2  7.3
  12        1    2    3    4    5
           4.6  4.6  5.0  5.0  3.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.7 22.9 17.1 23.2 22.8 22.3 22.1 19.2 14.7 14.5

          14.4 14.6 15.3 14.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.7 15.0 14.4 14.7 14.1 14.6 19.5 21.7 22.7 23.0

          22.3 18.6 23.3 19.8
  15        1    2    3    4    5    6    7    8    9   10

          14.8 17.7 14.2 15.7 16.5 18.5 20.5 20.4 20.3 26.0

  16        1    2    3    4    5    6    7    8    9   10

          26.0 20.1 20.3 20.3 18.6 16.4 15.7 14.2 17.8 14.9

  17        1    2    3    4    5    6    7
           5.4 10.3  9.2  9.3 11.1 13.5 10.9
  18        1    2    3    4    5    6    7
          10.7 13.3 11.2  9.3  9.1 10.5  4.0
1

 RECEIVER    LEQ(H)   L10
 128          47.2   49.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           3.7  5.3  5.3  5.0  5.0  5.5
   2        1    2    3    4    5    6
           7.7  7.8 12.4 14.6 18.0 19.6
   3        1
          24.8
   4        1    2    3
          28.9 34.8 33.8
   5        1    2    3    4    5    6
          31.1 28.3 28.4 33.4 36.7 34.8
   6        1    2    3
          31.9 31.2 34.5
   7        1    2    3    4
          34.4 30.8 31.7 33.1
   8        1    2    3    4    5    6
          36.6 33.3 28.3 28.2 30.9 32.5
   9        1    2    3
          34.7 30.1 25.7
  10        1
          19.8
  11        1    2    3    4    5    6
          18.6 14.9 12.1 10.0  7.5  7.7
  12        1    2    3    4    5
           4.9  5.1  5.3  5.3  3.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.2 23.1 17.5 23.5 22.9 22.8 22.4 14.7 15.1 14.9

          14.8 15.6 15.8 14.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.7 15.7 15.4 15.1 14.5 15.0 14.8 22.2 23.1 23.0

          22.6 18.9 23.5 19.2
  15        1    2    3    4    5    6    7    8    9   10

          14.7 17.8 13.2 13.7 15.6 17.3 18.4 20.6 20.4 26.1

  16        1    2    3    4    5    6    7    8    9   10

          26.1 20.3 20.5 19.5 17.3 15.7 13.7 13.1 17.9 14.8

  17        1    2    3    4    5    6    7
           3.7  9.1  9.7  9.8 11.4 13.0 10.7
  18        1    2    3    4    5    6    7
          10.2 13.1 11.3  9.7  9.6  8.6  3.6
1

 RECEIVER    LEQ(H)   L10
 129          47.0   49.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.3  6.0  6.0  5.5  5.5  6.0
   2        1    2    3    4    5    6
           8.0  8.3  9.2 15.1 17.9 20.3
   3        1
          23.7
   4        1    2    3
          28.5 34.8 33.7
   5        1    2    3    4    5    6
          31.1 28.3 28.3 33.3 36.5 34.5
   6        1    2    3
          31.6 30.8 34.1
   7        1    2    3    4
          34.0 30.4 31.3 32.8
   8        1    2    3    4    5    6
          36.4 33.2 28.2 28.1 30.9 32.5
   9        1    2    3
          34.9 28.8 23.9
  10        1
          20.3
  11        1    2    3    4    5    6
          18.6 15.3 10.4  8.3  8.0  8.2
  12        1    2    3    4    5
           5.5  5.6  5.9  6.0  4.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.8 23.8 18.2 23.6 23.4 23.6 20.0 15.3 15.7 15.6

          15.4 17.2 16.4 14.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.3 16.4 16.9 15.7 15.3 15.6 15.4 19.6 23.9 23.5

          22.6 19.7 24.2 19.9
  15        1    2    3    4    5    6    7    8    9   10

          15.0 18.5 13.9 14.3 14.7 15.1 17.0 20.6 20.6 26.3

  16        1    2    3    4    5    6    7    8    9   10

          26.2 20.5 20.5 16.1 14.9 14.6 14.2 13.8 18.6 15.1

  17        1    2    3    4    5    6    7
           4.3  4.8  9.8 10.5 12.1 13.7 10.5
  18        1    2    3    4    5    6    7
          10.3 13.7 12.1 10.4  9.5  4.7  4.2
1

 RECEIVER    LEQ(H)   L10
 130          46.7   48.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.9  6.5  6.6  6.2  6.2  6.5
   2        1    2    3    4    5    6
           8.4  8.6  8.4 14.7 17.0 21.1
   3        1
          22.9
   4        1    2    3
          27.9 34.4 33.1
   5        1    2    3    4    5    6
          31.0 28.2 28.2 33.1 36.3 34.2
   6        1    2    3
          31.2 30.4 33.8
   7        1    2    3    4
          33.6 30.1 31.0 32.5
   8        1    2    3    4    5    6
          36.1 33.1 28.1 28.1 30.8 32.1
   9        1    2    3
          34.5 27.8 21.8
  10        1
          21.0
  11        1    2    3    4    5    6
          18.0 15.3  8.5  8.6  8.5  8.7
  12        1    2    3    4    5
           6.0  6.2  6.5  6.6  5.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.2 24.0 18.0 23.8 24.0 22.8 16.1 15.9 16.3 16.1

          17.2 17.9 16.4 14.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.3 16.4 17.8 17.3 15.8 16.2 15.9 15.8 23.1 24.0

          22.9 19.4 24.4 20.2
  15        1    2    3    4    5    6    7    8    9   10

          15.3 18.6 14.5 14.9 15.2 15.3 15.6 15.7 15.6 25.9

  16        1    2    3    4    5    6    7    8    9   10

          25.8 15.5 15.6 15.4 15.3 15.1 14.8 14.4 18.6 15.5

  17        1    2    3    4    5    6    7
           4.7  5.2  5.1 10.1 12.7 14.1 10.9
  18        1    2    3    4    5    6    7
          10.6 14.1 12.8  9.5  5.0  5.2  4.6
1

 RECEIVER    LEQ(H)   L10
 131          46.3   48.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           5.6  7.1  7.1  6.8  6.9  7.4
   2        1    2    3    4    5    6
           9.0  9.1  8.7 14.0 16.3 21.8
   3        1
          23.0
   4        1    2    3
          24.1 34.2 32.3
   5        1    2    3    4    5    6
          30.7 28.1 28.1 33.0 36.0 33.8
   6        1    2    3
          30.8 30.0 33.4
   7        1    2    3    4
          33.2 29.7 30.6 32.1
   8        1    2    3    4    5    6
          35.9 32.9 28.0 28.0 30.8 31.6
   9        1    2    3
          34.2 24.5 21.8
  10        1
          22.1
  11        1    2    3    4    5    6
          16.8 14.6  8.9  9.1  9.0  9.4
  12        1    2    3    4    5
           6.8  6.9  7.2  7.2  5.6
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  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.1 24.0 18.2 24.2 23.3 17.1 16.7 16.6 17.0 17.3

          19.1 18.3 16.1 14.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.4 16.1 18.2 19.5 16.5 16.9 16.6 16.5 17.4 23.7

          23.3 19.7 24.4 20.2
  15        1    2    3    4    5    6    7    8    9   10

          15.6 18.5 15.0 15.4 15.7 15.8 15.9 15.9 15.8 21.7

  16        1    2    3    4    5    6    7    8    9   10

          21.7 15.7 15.8 15.8 15.7 15.6 15.3 14.9 18.6 15.8

  17        1    2    3    4    5    6    7
           5.3  5.7  5.6  5.5  9.9 14.7 11.3
  18        1    2    3    4    5    6    7
          11.1 14.5  9.1  5.6  5.5  5.7  5.2
1

 RECEIVER    LEQ(H)   L10
 132          43.9   46.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           8.0 10.0 10.2 10.2  9.4  7.3
   2        1    2    3    4    5    6
           9.2  8.7  8.0 11.5 15.1 20.2
   3        1
          21.3
   4        1    2    3
          23.2 31.4 29.6
   5        1    2    3    4    5    6
          27.1 24.4 24.5 29.5 32.5 30.7
   6        1    2    3
          28.4 28.2 32.3
   7        1    2    3    4
          32.7 28.3 28.5 29.3
   8        1    2    3    4    5    6
          32.6 29.7 24.7 24.5 27.2 28.8
   9        1    2    3
          31.5 23.9 20.3
  10        1
          20.4
  11        1    2    3    4    5    6
          15.4 12.1  8.2  8.5  9.2  9.4
  12        1    2    3    4    5
           7.1 10.7 10.8 10.3  8.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.0 22.0 16.3 21.8 16.9 17.2 16.9 16.8 20.3 19.3

          17.9 16.2 14.3 12.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.9 14.3 16.2 18.3 19.1 20.1 16.8 16.7 17.6 17.0

          21.2 17.7 22.3 19.3
  15        1    2    3    4    5    6    7    8    9   10

          11.1 16.8 13.9 14.7 15.0 15.1 15.2 15.2 15.1 21.9

  16        1    2    3    4    5    6    7    8    9   10

          21.7 15.0 15.1 15.0 15.1 14.9 14.6 13.9 16.9 11.6

  17        1    2    3    4    5    6    7
           5.3  5.4  5.2  5.2  6.4  7.7 10.1
  18        1    2    3    4    5    6    7
           9.4  7.6  6.5  5.1  5.2  5.3  5.3
1

 RECEIVER    LEQ(H)   L10
 133          44.5   46.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           8.0 10.0  6.4  6.1  5.9  6.5
   2        1    2    3    4    5    6
           8.1  8.1  7.6 12.5 14.9 19.8
   3        1
          21.2
   4        1    2    3
          26.6 31.7 30.2
   5        1    2    3    4    5    6
          27.6 24.8 25.0 29.9 32.8 31.6
   6        1    2    3
          29.0 29.0 33.0
   7        1    2    3    4
          33.1 29.0 29.1 30.1
   8        1    2    3    4    5    6
          33.0 30.1 25.2 25.0 27.7 29.1
   9        1    2    3
          31.8 26.6 20.3
  10        1
          19.8
  11        1    2    3    4    5    6
          15.9 13.1  7.7  8.0  8.1  8.7
  12        1    2    3    4    5
           5.9  6.1  6.4  8.5  8.4
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.5 23.1 17.3 23.2 21.9 16.5 16.1 16.0 16.3 19.0

          17.7 16.4 14.2 12.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.7 14.2 16.4 18.0 18.6 16.2 16.0 15.8 16.8 22.4

          22.4 18.7 23.5 19.6
  15        1    2    3    4    5    6    7    8    9   10

          14.4 17.5 13.8 14.2 14.5 14.6 14.9 15.0 14.9 25.6

  16        1    2    3    4    5    6    7    8    9   10

          25.5 14.8 14.9 14.7 14.6 14.4 14.1 13.7 17.6 14.7

  17        1    2    3    4    5    6    7
           4.3  4.8  4.7  4.6  7.9 13.4 10.1
  18        1    2    3    4    5    6    7
           9.9 13.2  6.9  4.7  4.6  4.8  4.3
1

 RECEIVER    LEQ(H)   L10
 134          46.2   48.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.6  6.2  6.1  5.7  5.7  6.1
   2        1    2    3    4    5    6
           7.6  7.7  7.4 13.3 15.9 19.4
   3        1
          22.5
   4        1    2    3
          27.3 33.3 32.7
   5        1    2    3    4    5    6
          29.9 27.1 27.2 32.2 35.6 33.8
   6        1    2    3
          31.0 30.3 33.9
   7        1    2    3    4
          33.7 30.0 30.7 32.1
   8        1    2    3    4    5    6
          35.5 32.2 27.1 27.0 29.8 31.4
   9        1    2    3
          33.5 27.7 22.0
  10        1
          19.4
  11        1    2    3    4    5    6
          16.9 13.9  7.6  7.7  7.7  8.1
  12        1    2    3    4    5
           5.7  5.8  6.1  6.2  4.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.4 23.4 17.3 23.2 23.3 20.9 15.8 15.6 16.1 17.1

          17.7 16.7 14.4 12.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.7 14.4 16.7 18.0 16.5 16.0 15.7 15.5 21.4 23.3

          22.3 18.7 23.8 19.5
  15        1    2    3    4    5    6    7    8    9   10

          14.6 17.9 13.6 14.0 14.3 14.6 14.9 19.7 19.9 25.6

  16        1    2    3    4    5    6    7    8    9   10

          25.6 19.8 19.6 14.7 14.5 14.2 14.0 13.6 17.9 14.8

  17        1    2    3    4    5    6    7
           3.9  4.5  4.4  7.1 11.8 13.3 10.1
  18        1    2    3    4    5    6    7
           9.8 13.3 11.8  6.0  4.3  4.4  3.9
1

 RECEIVER    LEQ(H)   L10
 135          46.3   48.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.1  5.7  5.6  5.2  5.2  5.3
   2        1    2    3    4    5    6
           7.2  7.4  7.1 13.7 16.6 18.8
   3        1
          23.0
   4        1    2    3
          28.0 33.6 32.6
   5        1    2    3    4    5    6
          29.9 27.1 27.2 32.3 35.7 34.0
   6        1    2    3
          31.3 30.7 34.2
   7        1    2    3    4
          34.1 30.3 31.0 32.3
   8        1    2    3    4    5    6
          35.6 32.2 27.2 27.0 29.8 31.4
   9        1    2    3
          33.6 28.4 24.1
  10        1
          18.9
  11        1    2    3    4    5    6
          17.3 14.2  7.7  7.4  7.3  7.6
  12        1    2    3    4    5
           5.0  5.3  5.6  5.7  4.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.2 23.3 17.7 23.0 22.8 23.0 15.3 15.1 15.6 15.3

          17.1 16.6 14.4 12.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.6 14.4 16.5 17.1 15.0 15.4 15.1 15.1 23.2 22.9

          22.1 19.1 23.6 19.3
  15        1    2    3    4    5    6    7    8    9   10

          14.3 17.8 13.1 13.6 14.1 16.6 18.3 19.9 19.7 25.5

  16        1    2    3    4    5    6    7    8    9   10

          25.4 19.6 19.8 18.8 16.6 14.0 13.6 13.1 17.9 14.4

  17        1    2    3    4    5    6    7
           3.4  4.1  6.6  9.7 11.3 12.9  9.8
  18        1    2    3    4    5    6    7
           9.5 12.8 11.2  9.7  5.7  4.1  3.4
1

 RECEIVER    LEQ(H)   L10
 136          45.0   47.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           6.8  8.7  7.1  5.2  5.0  5.4
   2        1    2    3    4    5    6
           6.9  6.8  6.3 11.8 14.8 17.8
   3        1
```

```
          21.5
   4        1    2    3
          26.3 30.3 28.6
   5        1    2    3    4    5    6
          28.6 25.8 25.9 31.0 34.5 33.0
   6        1    2    3
          30.4 30.0 33.8
   7        1    2    3    4
          33.6 29.6 30.2 31.3
   8        1    2    3    4    5    6
          34.4 31.0 25.9 25.7 28.4 27.7
   9        1    2    3
          30.4 26.5 22.4
  10        1
          17.8
  11        1    2    3    4    5    6
          15.7 12.4  6.5  6.7  6.8  7.6
  12        1    2    3    4    5
           4.9  5.2  5.5  8.5  7.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.6 22.8 16.5 22.4 22.5 19.3 15.4 15.3 15.8 18.0

          16.5 14.9 12.8 11.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          11.4 12.8 14.8 16.8 17.8 15.5 15.3 15.1 19.9 22.5

          21.5 17.9 23.1 18.7
  15        1    2    3    4    5    6    7    8    9   10

          13.8 17.0 12.7 13.1 13.4 15.6 18.1 19.0 18.9 24.6

  16        1    2    3    4    5    6    7    8    9   10

          24.6 18.7 19.0 18.3 15.6 13.3 13.0 12.6 17.1 14.0

  17        1    2    3    4    5    6    7
           3.1  3.6  3.5  4.0 10.9 12.4  9.2
  18        1    2    3    4    5    6    7
           8.9 12.3 10.6  3.6  3.5  3.6  3.0
1

 RECEIVER     LEQ(H)   L10
 137           45.2   47.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           7.2  9.0  9.5  7.8  5.7  6.0
   2        1    2    3    4    5    6
           7.5  7.0  6.6 11.7 14.9 18.2
   3        1
          21.5
   4        1    2    3
          26.6 32.7 30.9
   5        1    2    3    4    5    6
          28.2 25.5 25.6 30.6 34.2 32.7
   6        1    2    3
          30.2 29.7 33.6
   7        1    2    3    4
          33.4 29.4 29.9 31.0
   8        1    2    3    4    5    6
          34.1 30.6 25.5 25.4 28.1 29.7
   9        1    2    3
          32.7 27.1 22.8
  10        1
          18.2
  11        1    2    3    4    5    6
          15.9 12.3  6.7  7.0  7.3  8.2
  12        1    2    3    4    5
           5.6  5.9  9.4  9.4  7.6
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.7 22.7 16.9 22.9 23.1 18.1 16.2 16.2 18.1 18.5

          16.9 15.0 13.0 11.5
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          11.5 12.9 14.9 17.2 18.2 17.8 16.2 15.9 19.0 23.2

          22.0 18.4 23.1 18.8
  15        1    2    3    4    5    6    7    8    9   10

          14.4 17.5 13.1 13.4 13.6 16.5 18.9 18.8 18.6 24.4

  16        1    2    3    4    5    6    7    8    9   10

          24.4 18.5 18.7 18.7 16.5 13.5 13.4 13.0 17.6 14.6

  17        1    2    3    4    5    6    7
           3.6  4.0  4.0  4.2 10.6 13.1  9.9
  18        1    2    3    4    5    6    7
           9.6 13.2 10.0  4.1  4.0  4.0  3.6
```

```
                 *************************
                        STAM2VU1
                      Version 1.20
                 *************************
                    STAMINA 2.0/BCR
          MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
               TRAFFIC NOISE PREDICTION MODEL

      MODIFIED TO:
        1.   ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
        2.   CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY
             USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
        3.   PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A
             DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE
             LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.
                 *************************
         MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
             BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
                   AND BOWLBY & ASSOCIATES, INC.
                     2014 BROADWAY, SUITE 210
                     NASHVILLE, TN 37203-2425
               TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE
HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK
CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE
*.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.


          (INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH )


 Meadowood - Single-Family 1st Floor (Receivers 122-137)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

      HEIGHT       CODE           DESCRIPTION
        .00          1       RECEIVER HEIGHT ADJUSTMENT
       1.00          2       A-WEIGHTED SOUND LEVEL ONLY
        .00          3       HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
        .00          4       HEIGHT ADJUSTMENT FOR HEAVY TRUCKS   (HT)
        .00          5       HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS  (MT)
       .000          6       HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4)
                             CARS--CALVENO
                             C0 =       5.20  C1 =      38.80  S0 =          .00
      2.300          7       HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5)
                             MT--CALVENO
                             C0 =      35.30  C1 =      25.60  S0 =          .00
      8.000          8       HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6)
                             HT--CALVENO
                             C0 =      50.40  C1 =      19.20  S0 =          .00


0ROADWAY   1     HRC nb (76 to Pankey)


                     VEHICLE TYPE   VEHICLES/HOUR     SPEED
                          CARS               0.         30.0
                          HT                 0.         30.0
                          MT                 0.         30.0
                          VEH4             415.         40.0
                          VEH5              13.         40.0
                          VEH6               9.         40.0
0                      ------------COORDINATES------------
                              X          Y             Z     GRADE
 1                      6287767.4   2067284.0       276.0      0
 2                      6287704.7   2067456.2       276.0      0
 3                      6287629.7   2067702.5       279.0      0
 4                      6287568.8   2067936.5       284.0      0
 5                      6287512.3   2068148.3       284.0      0
 6                      6287446.9   2068359.4       282.0      0
 7                      6287374.5   2068606.6       279.0      0

0ROADWAY   2     HRC nb (Pankey to School)


                     VEHICLE TYPE   VEHICLES/HOUR     SPEED
                          CARS               0.         30.0
                          HT                 0.         30.0
                          MT                 0.         30.0
                          VEH4             695.         40.0
                          VEH5              22.         40.0
                          VEH6              15.         40.0
0                      ------------COORDINATES------------
                              X          Y             Z     GRADE
 7                      6287374.5   2068606.6       279.0      0
 8                      6287273.9   2068832.6       278.0      0
 9                      6287137.9   2069057.7       278.0      0
 10                     6287017.0   2069263.4       280.0      0
 11                     6286760.9   2069688.9       285.0      0
 12                     6286533.2   2070137.4       290.0      0
 13                     6286310.7   2070587.7       296.0      0

0ROADWAY   3     HRC nb (School to 26)


                     VEHICLE TYPE   VEHICLES/HOUR     SPEED
                          CARS               0.         30.0
                          HT                 0.         30.0
                          MT                 0.         30.0
                          VEH4             689.         40.0
                          VEH5              22.         40.0
                          VEH6              15.         40.0
0                      ------------COORDINATES------------
                              X          Y             Z     GRADE
 13                     6286310.7   2070587.7       296.0      0
 14                     6286086.4   2071030.0       302.0      0

0ROADWAY   4     HRC nb (26 to Harvest Glen)


                     VEHICLE TYPE   VEHICLES/HOUR     SPEED
                          CARS               0.         30.0
                          HT                 0.         30.0
                          MT                 0.         30.0
                          VEH4             634.         40.0
                          VEH5              20.         40.0
                          VEH6              13.         40.0
0                      ------------COORDINATES------------
                              X          Y             Z     GRADE
 14                     6286086.4   2071030.0       302.0      0
 15                     6285859.5   2071475.8       308.0      0
 16                     6285540.8   2072106.2       311.0      0
 17                     6285403.1   2072385.2       310.0      0

0ROADWAY   5     HRC nb (Harvest Glen to Longspur)


                     VEHICLE TYPE   VEHICLES/HOUR     SPEED
                          CARS               0.         30.0
                          HT                 0.         30.0
                          MT                 0.         30.0
                          VEH4             488.         40.0
                          VEH5              15.         40.0
                          VEH6              10.         40.0
0                      ------------COORDINATES------------
                              X          Y             Z     GRADE
 17                     6285403.1   2072385.2       310.0      0
 18                     6285328.1   2072574.1       310.0      0
 19                     6285298.0   2072673.9       310.0      0
 20                     6285270.7   2072773.6       311.0      0
 21                     6285221.2   2073078.2       314.0      0
 22                     6285201.8   2073673.3       322.0      0
 23                     6285188.6   2074037.0       338.0      0

0ROADWAY   6     HRC nb (Longspur to Baltimore)


                     VEHICLE TYPE   VEHICLES/HOUR     SPEED
                          CARS               0.         30.0
                          HT                 0.         30.0
                          MT                 0.         30.0
                          VEH4             347.         40.0
                          VEH5              11.         40.0
                          VEH6               7.         40.0
0                      ------------COORDINATES------------
                              X          Y             Z     GRADE
 23                     6285188.6   2074037.0       338.0      0
 24                     6285145.3   2074308.9       346.0      0
 25                     6285056.1   2074546.4       351.0      0
 26                     6284650.0   2075149.4       356.0      0

0ROADWAY   7     HRC sb (Baltimore to Longspur)


                     VEHICLE TYPE   VEHICLES/HOUR     SPEED
                          CARS               0.         30.0
                          HT                 0.         30.0
                          MT                 0.         30.0
                          VEH4             347.         40.0
                          VEH5              11.         40.0
                          VEH6               7.         40.0
0                      ------------COORDINATES------------
                              X          Y             Z     GRADE
 1                      6284621.8   2075132.6       356.0      0
 2                      6285015.5   2074527.9       351.0      0
 3                      6285099.4   2074300.1       346.0      0
 4                      6285141.8   2074033.5       338.0      0
 5                      6285159.4   2073671.5       322.0      0

0ROADWAY   8     HRC sb (Longspur to Harvest Glen)


                     VEHICLE TYPE   VEHICLES/HOUR     SPEED
                          CARS               0.         30.0
                          HT                 0.         30.0
                          MT                 0.         30.0
                          VEH4             488.         40.0
                          VEH5              15.         40.0
                          VEH6              10.         40.0
0                      ------------COORDINATES------------
                              X          Y             Z     GRADE
 5                      6285159.4   2073671.5       322.0      0
 6                      6285181.5   2073072.9       314.0      0
 7                      6285228.3   2072759.5       311.0      0
 8                      6285256.5   2072658.0       310.0      0
 9                      6285287.4   2072557.3       310.0      0
 10                     6285368.7   2072369.3       310.0      0
 11                     6285504.6   2072087.7       311.0      0

0ROADWAY   9     HRC sb (Harvest Glen to 26)


                     VEHICLE TYPE   VEHICLES/HOUR     SPEED
                          CARS               0.         30.0
                          HT                 0.         30.0
                          MT                 0.         30.0
                          VEH4             634.         40.0
                          VEH5              20.         40.0
                          VEH6              13.         40.0
0                      ------------COORDINATES------------
                              X          Y             Z     GRADE
 11                     6285504.6   2072087.7       311.0      0
 12                     6285818.9   2071457.3       308.0      0
 13                     6286045.8   2071007.9       302.0      0
 14                     6286269.2   2070567.4       296.0      0

0ROADWAY  10     HRC sb (26 to School)


                     VEHICLE TYPE   VEHICLES/HOUR     SPEED
                          CARS               0.         30.0
                          HT                 0.         30.0
                          MT                 0.         30.0
                          VEH4             689.         40.0
                          VEH5              22.         40.0
                          VEH6              14.         40.0
0                      ------------COORDINATES------------
                              X          Y             Z     GRADE
 14                     6286269.2   2070567.4       296.0      0
 15                     6286493.4   2070122.4       290.0      0

0ROADWAY  11     HRC sb (School to Pankey)


                     VEHICLE TYPE   VEHICLES/HOUR     SPEED
                          CARS               0.         30.0
                          HT                 0.         30.0
                          MT                 0.         30.0
                          VEH4             695.         40.0
                          VEH5              22.         40.0
                          VEH6              15.         40.0
0                      ------------COORDINATES------------
                              X          Y             Z     GRADE
 15                     6286493.4   2070122.4       290.0      0
 16                     6286720.3   2069667.7       285.0      0
 17                     6286977.2   2069239.6       280.0      0
 18                     6287102.6   2069033.0       278.0      0
 19                     6287238.6   2068813.1       278.0      0
```

20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0

	X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

1

BARRIER 1 TYPE(A) Pad Edges 1

	X	Y	Z	Z0	DELZ	P
1	6286634.5	2070357.1	300.0	300.0	.0	0
2	6286502.0	2070298.3	300.0	300.0		
3	6286265.1	2070793.1	310.0	310.0		
4	6286320.9	2070828.5	310.0	310.0		

1

BARRIER 2 TYPE(A) Pad Edges 2

	X	Y	Z	Z0	DELZ	P
5	6286349.5	2070944.8	315.0	315.0	.0	0
6	6286239.3	2070896.7	314.0	314.0		
7	6286196.9	2070902.4	314.0	314.0		
8	6286078.1	2071137.0	311.0	311.0		
9	6286004.6	2071292.5	316.0	316.0		
10	6286004.6	2071603.5	317.0	317.0		
11	6286004.6	2071990.8	321.0	321.0		
12	6286004.5	2072360.7	324.0	324.0		
13	6286289.0	2072499.4	326.0	326.0		
14	6286498.0	2072566.2	329.0	329.0		

1

BARRIER 3 TYPE(A) Pad Edges 3

	X	Y	Z	Z0	DELZ	P
15	6286634.5	2072765.6	401.0	395.0	1.0	3
16	6286621.9	2072916.9	401.0	395.0		
17	6286648.3	2073055.3	403.0	397.0		
18	6286685.9	2073120.3	406.0	400.0		
19	6286802.5	2073223.1	414.0	408.0		
20	6286939.8	2073344.0	427.0	421.0		
21	6287080.9	2073468.3	440.0	434.0		
22	6287179.3	2073554.7	448.0	442.0		
23	6287319.9	2073660.5	453.0	447.0		

1

BARRIER 4 TYPE(A) Pad Edges 4

	X	Y	Z	Z0	DELZ	P
24	6286661.4	2072669.3	405.0	399.0	1.0	3
25	6286691.4	2072606.8	408.0	402.0		
26	6286808.6	2072443.9	419.0	413.0		
27	6286883.6	2072343.9	426.0	420.0		
28	6286840.1	2072178.6	431.0	425.0		
29	6286816.2	2072125.3	431.0	425.0		
30	6286823.2	2072059.3	431.0	425.0		
32	6286845.0	2072002.5	431.0	425.0		
33	6286884.7	2071971.4	431.0	425.0		

1

BARRIER 5 TYPE(A) Pad Edges 5

	X	Y	Z	Z0	DELZ	P
33	6286902.8	2071961.7	431.0	425.0	1.0	3
34	6286962.6	2071945.7	431.0	425.0		
35	6287015.8	2071960.1	431.0	425.0		
36	6287071.5	2071996.1	431.0	425.0		
37	6287133.1	2072101.5	439.0	433.0		
38	6287208.1	2072073.0	446.0	440.0		
39	6287286.5	2072058.4	449.0	443.0		
40	6287479.3	2072046.8	460.0	454.0		
41	6287668.5	2072035.1	471.0	465.0		
41b	6287685.1	2071982.5	500.0	494.0		

1

BARRIER 6 TYPE(A) Pad Edges 6

	X	Y	Z	Z0	DELZ	P
41b	6287685.1	2071982.5	500.0	494.0	1.0	3
42	6287686.6	2071882.5	500.0	494.0		
42b	6287699.0	2071869.6	500.0	494.0		
43	6287687.4	2071826.0	500.0	494.0		
44	6287537.5	2071795.8	499.0	493.0		
45	6287494.5	2071766.0	499.0	493.0		
46	6287457.5	2071786.6	499.0	493.0		
47	6287414.4	2071765.2	499.0	493.0		
48	6287295.5	2071799.6	499.0	493.0		
49	6287284.9	2071649.7	495.0	489.0		

1

BARRIER 7 TYPE(A) Pad Edges 7

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
49	6287284.9	2071649.7	495.0	489.0	1.0	3
50	6287348.9	2071527.3	493.0	487.0		
51	6287424.5	2071350.9	487.0	481.0		
52	6287467.2	2071294.2	485.0	479.0		
53	6287518.6	2071247.5	483.0	477.0		

1

BARRIER 8 TYPE(A) Pad Edges 8

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
54	6287218.1	2070892.1	423.0	417.0	1.0	3
55	6287157.9	2071011.8	428.0	422.0		
56	6287075.2	2071176.2	433.0	427.0		
57	6287007.6	2071272.7	433.0	427.0		
58	6286932.0	2071401.6	433.0	427.0		
59	6286944.0	2071476.9	433.0	427.0		
60	6286980.6	2071530.1	433.0	427.0		
61	6287085.3	2071587.4	433.0	427.0		
61b	6287195.3	2071545.3	436.0	430.0		

1

BARRIER 9 TYPE(A) Pad Edges 9

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
62	6287504.8	2073407.6	464.0	464.0	.0	0
63	6287455.9	2073368.6	463.0	463.0		
64	6287170.1	2073077.7	459.0	459.0		
65	6287084.1	2072959.0	458.0	458.0		
66	6287062.5	2072812.7	457.0	457.0		
67	6287098.4	2072672.4	456.0	456.0		
68	6287206.8	2072488.9	454.0	454.0		
69	6287296.9	2072394.7	453.0	453.0		
70	6287367.3	2072346.7	452.0	452.0		
71	6287469.2	2072361.5	452.0	452.0		

1

BARRIER 10 TYPE(A) Pad Edges 10

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
72	6287697.7	2073088.0	486.0	486.0	.0	0
73	6287547.5	2072976.4	486.0	486.0		
74	6287491.4	2072888.6	486.0	486.0		
75	6287491.1	2072766.9	485.0	485.0		
76	6287635.8	2072596.6	482.0	482.0		
77	6287767.5	2072309.5	477.0	477.0		

1

BARRIER 11 TYPE(A) Pad Edges 11

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
78	6287168.3	2074113.6	447.0	447.0	.0	0
79	6287306.7	2073811.7	443.0	443.0		
80	6287536.9	2073481.4	457.0	457.0		

1

BARRIER 12 TYPE(A) Pad Edges 12

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
81	6287283.0	2074170.1	465.0	465.0	.0	0
82	6287469.8	2073845.2	471.0	471.0		
82b	6287616.6	2073652.3	478.0	478.0		
82c	6287630.6	2073609.8	478.0	478.0		
83	6287702.0	2073532.9	475.0	475.0		

1

BARRIER 13 TYPE(A) Pad Edges 14

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
84	6288855.6	2071200.7	606.0	606.0	.0	0
85	6288817.6	2071249.1	606.0	606.0		
85b	6288817.1	2071249.5	600.0	600.0		
85c	6288775.2	2071293.2	600.0	600.0		
85d	6288774.8	2071293.5	593.0	593.0		
86	6288730.6	2071333.3	593.0	593.0		
86b	6288730.4	2071333.5	585.0	585.0		
87	6288637.1	2071415.2	574.0	574.0		
87b	6288636.6	2071415.5	558.0	558.0		
87c	6288577.5	2071447.1	558.0	558.0		

1

BARRIER 14 TYPE(A) Pad Edges 15

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
87c	6288577.5	2071447.1	558.0	558.0	.0	0
87d	6288576.6	2071447.3	542.0	542.0		
87e	6288512.6	2071462.6	542.0	542.0		
87f	6288512.2	2071462.7	535.0	535.0		
87g	6288454.3	2071466.7	535.0	535.0		
87h	6288453.5	2071466.7	528.0	528.0		
87i	6288396.4	2071470.4	528.0	528.0		

1

BARRIER 15 TYPE(A) Pad Edges 16

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
88	6287934.8	2071070.6	469.0	463.0	1.0	3
89	6287896.0	2071051.1	467.0	461.0		
90	6287829.7	2071017.7	463.0	457.0		
91	6287774.3	2070989.8	458.0	452.0		
92	6287719.9	2070962.3	452.0	446.0		
93	6287660.0	2070932.2	444.0	438.0		
94	6287602.9	2070903.4	437.0	431.0		
95	6287558.2	2070880.9	432.0	426.0		
96	6287504.6	2070853.9	432.0	426.0		
97	6287457.4	2070947.6	432.0	426.0		

1

BARRIER 16 TYPE(A) Pad Edges 17

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
98	6287917.7	2071215.4	471.0	471.0	.0	0
99	6288056.8	2071153.4	487.0	487.0		
100	6288174.3	2071168.6	499.0	499.0		
101	6288341.6	2071223.3	517.0	517.0		
102	6288383.4	2071229.3	517.0	517.0		
103	6288411.9	2071206.0	518.0	518.0		

1

BARRIER 17 TYPE(A) Pade Edges 18

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
104	6287531.1	2074308.7	483.0	483.0	.0	0
105	6287706.9	2074046.2	487.0	487.0		
106	6287847.9	2073869.2	491.0	491.0		
107	6287887.1	2073856.0	493.0	493.0		

1

BARRIER 18 TYPE(A) Pad Edges 19

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
108a	6287776.1	2074544.5	503.0	503.0	.0	0
108b	6287725.5	2074618.8	503.0	503.0		
109	6287778.2	2074656.5	513.0	513.0		
110	6287798.1	2074702.8	518.0	518.0		
111	6287807.8	2074744.0	518.0	518.0		

1

Receivers @ 5'

	----------COORDINATES----------		
	X	Y	Z
122	6287364.9	2073731.6	449.0
123	6287304.2	2073841.4	447.0
124	6287259.2	2073938.6	447.0
125	6287214.1	2074038.4	450.0
126	6287305.2	2074144.6	470.0
127	6287363.6	2074041.5	471.0
128	6287427.1	2073933.5	472.0
129	6287494.5	2073824.6	476.0
130	6287570.0	2073726.7	479.0
131	6287643.4	2073611.8	482.0
132	6287829.0	2073908.0	495.0
133	6287734.8	2074027.6	491.0
134	6287658.8	2074124.9	491.0
135	6287588.0	2074233.7	489.0
136	6287761.3	2074632.7	507.0
137	6287817.0	2074735.2	523.0

1

ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
13 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
14 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
16 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				

1

SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
13 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
14 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
16 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				

1

RECEIVER	LEQ(H)	L10
122	46.8	49.1

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING 1.0 DBA

ROADWAY SEGMENT

1	1	2	3	4	5	6
	1.4	3.2	3.2	3.0	3.2	3.9
2	1	2	3	4	5	6
	6.2	9.5	10.2	13.3	15.9	17.4
3	1					
	22.3					

```
 4        1    2    3
         25.0 29.1 34.5
 5        1    2    3    4    5    6
         31.7 28.9 29.0 33.9 37.1 35.1
 6        1    2    3
         32.1 31.2 34.5
 7        1    2    3    4
         34.3 30.9 31.8 33.4
 8        1    2    3    4    5    6
         37.0 33.9 28.9 28.8 31.6 33.2
 9        1    2    3
         29.5 25.1 21.5
10        1
         17.4
11        1    2    3    4    5    6
         16.3 13.5 10.1 10.3  6.2  6.1
12        1    2    3    4    5
          3.1  3.0  3.2  3.2  1.5
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         14.5 18.5 12.9 19.1 19.4 19.3 19.2 15.3 12.7 12.5

         12.4 12.7 12.7 13.2
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         13.1 12.4 12.5 12.7 12.2 12.6 15.6 18.9 19.7 19.4

         18.3 14.4 18.9 14.5
15        1    2    3    4    5    6    7    8    9   10

         11.0 13.4  8.5  8.9 12.0 15.1 15.5 15.9 15.9 20.5

16        1    2    3    4    5    6    7    8    9   10

         20.5 15.8 15.9 15.5 15.0 12.1  8.8  8.4 13.4 11.1

17        1    2    3    4    5    6    7
          2.3  8.0  7.3  7.2  8.7 10.1  7.0
18        1    2    3    4    5    6    7
          6.7 10.1  8.7  7.2  7.2  7.8  2.1
1

RECEIVER    LEQ(H)   L10
123          47.2   49.5

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
          1.1  2.8  2.9  2.7  2.9  3.6
 2        1    2    3    4    5    6
          6.0 11.2  9.5 13.0 15.9 17.9
 3        1
         22.9
 4        1    2    3
         25.5 34.2 34.4
 5        1    2    3    4    5    6
         31.7 28.9 29.0 34.0 37.3 35.4
 6        1    2    3
         32.4 31.6 34.8
 7        1    2    3    4
         34.7 31.2 32.2 33.7
 8        1    2    3    4    5    6
         37.2 33.9 28.9 28.8 31.6 33.2
 9        1    2    3
         34.2 25.6 22.0
10        1
         18.2
11        1    2    3    4    5    6
         16.2 13.2  9.7 11.2  7.8  5.7
12        1    2    3    4    5
          2.8  2.7  2.9  2.8  1.2
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         16.5 18.5 12.3 18.5 18.9 18.9 18.6 17.6 12.4 12.1

         12.1 12.4 11.7 12.5
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         12.3 11.7 12.2 12.3 11.8 12.3 17.7 18.3 19.2 19.0

         17.6 13.8 19.1 16.5
15        1    2    3    4    5    6    7    8    9   10

         10.5 13.3 10.6 13.0 13.3 13.6 13.9 14.1 14.6 21.2

16        1    2    3    4    5    6    7    8    9   10

         21.2 14.5 14.1 13.8 13.5 13.2 12.9 10.8 13.4 10.5

17        1    2    3    4    5    6    7
          6.0  7.1  6.9  6.8  8.4 10.0  6.4
18        1    2    3    4    5    6    7
          6.2  9.9  8.4  6.8  6.8  7.3  5.6
1

RECEIVER    LEQ(H)   L10
124          45.8   48.0

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

 1        2    3    4    5    6
          2.6  2.7  2.5  2.6  3.3
 2        1    2    3    4    5    6
          9.0 11.0  9.3 12.8 17.5 18.5
 3        1
         23.4
 4        1    2    3
         26.5 34.2 32.8
 5        1    2    3    4    5    6
         30.1 27.4 27.5 32.4 35.4 33.4
 6        1    2    3
         30.5 29.4 32.4
 7        1    2    3    4
         32.4 29.1 30.2 31.8
 8        1    2    3    4    5    6
         35.3 32.4 27.4 27.3 30.1 31.6
 9        1    2    3
         34.2 26.6 22.3
10        1
         19.0
11        1    2    3    4    5    6
         17.7 13.0  9.4 10.5 10.7  5.6
12        1    2    3    4
          2.6  2.5  2.7  2.7
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         18.4 20.4 14.3 20.6 18.7 18.7 18.2 18.2 13.3 12.0

         11.9 12.2 11.6 11.8
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         11.5 11.5 12.0 12.1 11.7 13.3 18.3 17.9 19.1 18.7

         19.9 15.8 20.9 18.5
15        1    2    3    4    5    6    7    8    9   10

         10.3 15.3 13.0 13.8 14.5 14.9 15.5 15.5 15.6 23.0

16        1    2    3    4    5    6    7    8    9   10

         22.9 15.5 15.5 15.3 14.9 14.3 13.8 13.0 15.4 10.7

17        1    2    3    4    5    6    7
          7.1  6.7  6.5  6.6  8.2 10.0  6.3
18        1    2    3    4    5    6    7
          6.1 10.0  8.1  6.6  6.4  6.7  6.9
1

RECEIVER    LEQ(H)   L10
125          47.8   49.9

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

 1        2    3    4    5    6
          2.6  2.7  2.4  2.6  3.4
 2        1    2    3    4    5    6
         11.2 10.5  9.1 12.7 18.0 19.4
 3        1
         23.8
 4        1    2    3
         26.9 36.3 34.2
 5        1    2    3    4    5    6
         31.5 28.8 28.9 34.0 37.5 35.7
 6        1    2    3
         32.9 32.2 35.4
 7        1    2    3    4
         35.3 31.8 32.6 34.0
 8        1    2    3    4    5    6
         37.3 33.9 28.8 28.6 31.4 32.9
 9        1    2    3
         36.3 27.6 23.0
10        1
         19.9
11        1    2    3    4    5    6
         18.1 13.3  9.2  9.9 11.3  9.9
12        1    2    3    4
          2.5  2.5  2.7  2.6
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         19.2 22.3 14.6 21.1 21.2 18.8 18.1 18.3 15.6 12.0

         11.9 12.2 11.5 11.3
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         11.1 11.5 12.0 12.1 11.7 15.6 18.3 17.8 19.2 21.8

         19.8 16.0 22.8 19.3
15        1    2    3    4    5    6    7    8    9   10

         13.6 16.4 13.6 14.4 15.2 15.5 15.8 16.0 16.7 25.4

16        1    2    3    4    5    6    7    8    9   10

         25.3 16.3 15.9 15.6 15.4 15.1 14.6 13.6 16.6 13.6

17        1    2    3    4    5    6    7
          7.0  6.6  6.4  6.7  8.6 11.8 10.5
18        1    2    3    4    5    6    7
         10.6 11.5  8.5  6.6  6.3  6.6  7.0
1

RECEIVER    LEQ(H)   L10
126          47.4   49.5

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

 1        1    2    3    4    5    6
          1.8  3.4  3.4  3.2  3.3  3.8
 2        1    2    3    4    5    6
          5.9 11.9  9.5 13.0 18.7 19.7
 3        1
         23.9
 4        1    2    3
         27.5 35.7 33.6
 5        1    2    3    4    5    6
         30.9 28.2 28.3 33.4 37.0 35.3
 6        1    2    3
         32.5 31.8 35.2
 7        1    2    3    4
         35.0 31.5 32.2 33.6
 8        1    2    3    4    5    6
         36.8 33.4 28.2 28.1 30.8 32.3
 9        1    2    3
         35.7 27.9 23.8
10        1
         20.1
11        1    2    3    4    5    6
         19.1 13.2  9.7 11.7  8.5  6.0
12        1    2    3    4    5
          3.1  3.2  3.5  3.4  1.8
13        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         19.7 22.3 16.4 22.6 21.2 20.0 19.5 19.1 13.1 12.9

         12.8 13.0 13.1 13.5
14        1    2    3    4    5    6    7    8    9   10

11       12   13   14
         13.4 12.9 12.9 13.1 12.6 13.0 19.2 19.2 20.4 21.4

         21.8 17.8 22.8 19.7
15        1    2    3    4    5    6    7    8    9   10

         13.2 17.1 14.4 14.8 15.2 16.0 17.1 19.0 20.2 25.9

16        1    2    3    4    5    6    7    8    9   10

         25.9 20.1 18.5 17.0 16.0 15.1 14.8 14.3 17.3 13.2
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  17        1    2    3    4    5    6    7
           7.0  7.5  7.2  7.4  9.2 12.2  9.0
  18        1    2    3    4    5    6    7
           8.8 12.1  9.1  7.4  7.1  7.7  6.6
1

 RECEIVER    LEQ(H)   L10
 127          47.2   49.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           2.0  3.7  3.7  3.5  3.6  4.2
   2        1    2    3    4    5    6
           6.2 10.6 10.0 13.2 16.4 18.7
   3        1
          23.9
   4        1    2    3
          27.8 34.9 33.7
   5        1    2    3    4    5    6
          31.0 28.3 28.4 33.4 36.9 35.0
   6        1    2    3
          32.3 31.5 34.9
   7        1    2    3    4
          34.7 31.1 32.0 33.3
   8        1    2    3    4    5    6
          36.7 33.4 28.3 28.1 30.9 32.5
   9        1    2    3
          34.9 27.8 23.5
  10        1
          19.4
  11        1    2    3    4    5    6
          16.9 13.4 10.0 11.2  6.2  6.3
  12        1    2    3    4    5
           3.5  3.5  3.8  3.8  2.2
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.5 21.4 15.6 21.6 21.0 20.3 20.2 17.3 13.4 13.2

          13.1 13.3 14.0 13.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.7 13.8 13.2 13.4 12.9 13.3 17.6 19.8 20.7 21.2

          20.7 17.0 21.8 18.6
  15        1    2    3    4    5    6    7    8    9   10

          13.0 16.0 12.4 15.0 15.2 15.6 16.5 17.2 18.2 25.9

  16        1    2    3    4    5    6    7    8    9   10

          25.9 18.1 17.0 16.8 15.5 15.1 14.9 12.6 16.1 13.2

  17        1    2    3    4    5    6    7
           3.9  8.5  7.6  7.7  9.4 11.7  9.3
  18        1    2    3    4    5    6    7
           9.1 11.6  9.4  7.6  7.6  8.6  2.8
1

 RECEIVER    LEQ(H)   L10
 128          46.9   49.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           2.4  4.0  4.0  3.8  3.9  4.5
   2        1    2    3    4    5    6
           6.5  6.9 10.8 13.5 16.4 18.0
   3        1
          23.7
   4        1    2    3
          27.1 33.6 33.8
   5        1    2    3    4    5    6
          31.1 28.3 28.4 33.4 36.7 34.8
   6        1    2    3
          31.9 31.2 34.5
   7        1    2    3    4
          34.4 30.8 31.7 33.1
   8        1    2    3    4    5    6
          36.6 33.3 28.3 28.2 30.9 32.5
   9        1    2    3
          33.6 27.3 23.0
  10        1
          18.2
  11        1    2    3    4    5    6
          16.9 13.7 10.7  8.5  6.5  6.6
  12        1    2    3    4    5
           3.8  3.9  4.1  4.1  2.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.7 21.7 15.9 21.9 20.8 20.8 20.4 13.4 13.7 13.5

          13.4 14.3 14.5 13.7
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.9 14.4 14.0 13.7 13.2 13.6 13.5 20.2 21.2 20.9

          21.0 17.4 22.0 17.7
  15        1    2    3    4    5    6    7    8    9   10

          12.7 16.2 11.5 12.0 14.6 15.5 15.8 16.6 18.1 25.2

  16        1    2    3    4    5    6    7    8    9   10

          25.0 17.9 16.6 15.9 15.4 14.6 12.0 11.4 16.2 12.9

  17        1    2    3    4    5    6    7
           2.7  7.3  8.1  8.1  9.6 11.2  8.9
  18        1    2    3    4    5    6    7
           8.4 11.2  9.6  8.1  8.0  6.9  2.6
1

 RECEIVER    LEQ(H)   L10
 129          46.7   48.9

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           2.9  4.6  4.6  4.3  4.4  5.0
   2        1    2    3    4    5    6
           7.0  7.3  8.1 13.8 16.3 18.6
   3        1
          22.8
   4        1    2    3
          26.7 33.6 33.5
   5        1    2    3    4    5    6
          31.1 28.3 28.3 33.3 36.5 34.5
   6        1    2    3
          31.6 30.8 34.1
   7        1    2    3    4
          34.0 30.4 31.3 32.8
   8        1    2    3    4    5    6
          36.4 33.2 28.2 28.1 30.9 32.3
   9        1    2    3
          33.5 26.9 21.7
  10        1
          18.6
  11        1    2    3    4    5    6
          17.0 14.1  9.2  7.3  7.0  7.1
  12        1    2    3    4    5
           4.4  4.3  4.6  4.6  3.0
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.6 22.6 16.9 21.7 21.4 21.7 18.2 13.9 14.2 14.1

          14.0 15.7 15.2 13.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.7 15.2 15.5 14.3 13.8 14.1 14.0 17.8 22.0 21.5

          20.7 18.4 22.9 18.6
  15        1    2    3    4    5    6    7    8    9   10

          12.9 16.9 12.4 12.7 13.2 13.6 14.7 16.4 17.3 26.1

  16        1    2    3    4    5    6    7    8    9   10

          26.2 17.1 16.4 14.4 13.5 13.2 12.7 12.3 17.0 13.0

  17        1    2    3    4    5    6    7
           3.2  3.7  8.1  8.8 10.2 11.7  8.5
  18        1    2    3    4    5    6    7
           8.2 11.7 10.2  8.7  7.9  3.6  3.1
1

 RECEIVER    LEQ(H)   L10
 130          45.6   47.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           3.4  5.1  5.2  4.8  4.9  5.5
   2        1    2    3    4    5    6
           7.4  7.6  7.4 13.5 15.7 19.3
   3        1
          21.0
   4        1    2    3
          25.4 33.6 29.1
   5        1    2    3    4    5    6
          26.1 23.3 23.5 30.4 36.2 34.2
   6        1    2    3
          31.2 30.4 33.8
   7        1    2    3    4
          33.6 30.1 31.0 32.5
   8        1    2    3    4    5    6
          36.1 30.7 23.5 23.3 26.1 27.9
   9        1    2    3
          33.5 25.8 20.2
  10        1
          19.3
  11        1    2    3    4    5    6
          16.7 14.0  7.5  7.6  7.4  7.6
  12        1    2    3    4    5
           4.8  4.9  5.1  5.1  3.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.2 22.7 16.1 21.9 22.0 20.9 14.5 14.3 14.8 14.6

          15.6 16.5 15.4 13.6
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.7 15.3 16.3 15.7 14.3 14.6 14.4 14.3 21.2 22.0

          21.0 17.4 23.1 19.2
  15        1    2    3    4    5    6    7    8    9   10

          13.3 16.9 13.1 13.5 13.8 14.0 14.3 14.6 14.9 25.5

  16        1    2    3    4    5    6    7    8    9   10

          25.6 14.8 14.5 14.2 14.0 13.7 13.5 13.0 17.0 13.4

  17        1    2    3    4    5    6    7
           3.6  4.1  4.0  8.4 10.8 12.1  8.8
  18        1    2    3    4    5    6    7
           8.5 12.1 10.9  7.7  3.9  4.0  3.5
1

 RECEIVER    LEQ(H)   L10
 131          44.2   46.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.0  5.6  5.6  5.3  5.4  6.1
   2        1    2    3    4    5    6
           7.9  8.1  7.8 12.8 15.0 19.9
   3        1
          20.3
   4        1    2    3
          22.5 33.5 29.0
   5        1    2    3    4    5    6
          26.4 23.5 23.4 28.2 31.6 31.3
   6        1    2    3
          30.8 30.0 33.4
   7        1    2    3    4
          33.2 29.7 30.6 29.7
   8        1    2    3    4    5    6
          31.5 28.2 23.4 23.5 26.5 27.8
   9        1    2    3
          33.5 22.8 20.2
  10        1
          20.1
  11        1    2    3    4    5    6
          15.5 13.4  7.9  8.1  7.9  8.2
  12        1    2    3    4    5
           5.4  5.4  5.7  5.7  4.0
  13        1    2    3    4    5    6    7    8    9   10
```

```
  11       12   13   14
          18.6 22.3 16.4 22.3 21.3 15.4 15.1 14.9 15.3 15.6

          17.4 16.8 15.5 13.8
  14       1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          13.8 15.5 16.7 17.8 14.8 15.2 15.0 14.8 15.8 21.7

          21.4 17.9 22.7 18.9
  15       1    2    3    4    5    6    7    8    9   10

          13.5 16.6 13.9 14.2 14.6 14.8 15.0 15.1 15.2 21.2

  16       1    2    3    4    5    6    7    8    9   10

          21.2 15.1 15.1 14.8 14.7 14.5 14.2 13.8 16.7 13.8

  17       1    2    3    4    5    6    7
          4.1  4.6  4.4  4.3  8.1 12.6  9.2
  18       1    2    3    4    5    6    7
          9.0 12.4  7.4  4.2  4.3  4.6  4.0
1

 RECEIVER    LEQ(H)   L10
 132          41.4   43.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1       1    2    3    4    5    6
          6.4  8.3  8.6  8.6  7.8  6.0
   2       1    2    3    4    5    6
          7.9  7.6  7.1 10.6 13.9 18.4
   3       1
          18.9
   4       1    2    3
          21.7 30.1 27.6
   5       1    2    3    4    5    6
          24.8 22.0 22.0 27.0 30.1 28.2
   6       1    2    3
          25.4 24.8 28.4
   7       1    2    3    4
          28.4 24.5 25.2 26.5
   8       1    2    3    4    5    6
          30.0 26.9 22.0 21.9 24.7 26.4
   9       1    2    3
          30.1 22.3 18.9
  10       1
          18.7
  11       1    2    3    4    5    6
          14.2 11.1  7.3  7.6  8.0  8.1
  12       1    2    3    4    5
          5.7  9.0  9.1  8.6  6.7
  13       1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.5 20.1 14.5 20.0 15.3 15.6 15.3 15.1 18.4 17.7

          16.6 15.6 13.7 12.4
  14       1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.5 13.7 15.5 16.9 17.4 18.3 15.2 15.0 15.9 15.4

          19.4 15.9 20.5 18.0
  15       1    2    3    4    5    6    7    8    9   10

          9.4 15.0 12.6 13.8 14.1 14.3 14.5 14.6 14.7 20.9

  16       1    2    3    4    5    6    7    8    9   10

          20.9 14.6 14.6 14.4 14.3 14.0 13.8 12.8 15.0  9.9

  17       1    2    3    4    5    6    7
          4.1  4.3  4.1  4.0  5.2  6.3  8.3
  18       1    2    3    4    5    6    7
          7.7  6.3  5.2  4.0  4.0  4.2  4.0
1

 RECEIVER    LEQ(H)   L10
 133          42.0   44.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1       1    2    3    4    5    6
          6.4  8.4  5.0  4.8  4.7  5.3
   2       1    2    3    4    5    6
          7.0  7.2  6.8 11.5 13.7 18.3
   3       1
          19.6
   4       1    2    3
          24.3 30.3 27.6
   5       1    2    3    4    5    6
          24.9 22.1 22.2 27.1 30.4 28.5
   6       1    2    3
          25.8 25.2 30.6
   7       1    2    3    4
          30.2 24.9 25.5 26.9
   8       1    2    3    4    5    6
          30.3 27.1 22.1 22.0 24.8 26.4
   9       1    2    3
          30.3 24.6 18.9
  10       1
          18.3
  11       1    2    3    4    5    6
          14.7 12.0  6.9  7.1  7.1  7.5
  12       1    2    3    4    5
          4.7  4.8  5.0  6.9  6.8
  13       1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.8 21.4 15.5 21.4 20.2 15.0 14.6 14.5 14.8 17.4

          16.2 15.6 13.7 12.2
  14       1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.2 13.6 15.5 16.5 17.0 14.6 14.5 14.3 15.3 20.6

          20.6 16.9 21.9 19.0
  15       1    2    3    4    5    6    7    8    9   10

          12.5 15.8 12.6 13.0 13.4 13.6 13.9 14.2 14.5 21.9

  16       1    2    3    4    5    6    7    8    9   10

          21.8 14.4 14.1 13.8 13.6 13.3 13.0 12.6 16.0 12.7

  17       1    2    3    4    5    6    7
          3.3  3.7  3.6  3.5  6.5 11.6  8.2
  18       1    2    3    4    5    6    7
          7.9 11.5  5.5  3.4  3.5  3.7  3.2
1

 RECEIVER    LEQ(H)   L10
 134          43.2   45.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1       1    2    3    4    5    6
          3.2  4.8  4.8  4.4  4.4  5.0
   2       1    2    3    4    5    6
          6.6  6.8  6.5 12.2 14.7 17.9
   3       1
          21.2
   4       1    2    3
          25.4 30.5 27.9
   5       1    2    3    4    5    6
          25.1 22.4 22.5 27.5 30.8 29.2
   6       1    2    3
          26.5 28.5 33.9
   7       1    2    3    4
          33.7 27.9 26.3 27.6
   8       1    2    3    4    5    6
          30.7 27.5 22.4 22.3 25.1 26.7
   9       1    2    3
          30.5 25.7 20.2
  10       1
          17.8
  11       1    2    3    4    5    6
          15.6 12.7  6.7  6.8  6.7  7.1
  12       1    2    3    4    5
          4.4  4.5  4.8  4.8  3.2
  13       1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.8 22.4 15.6 21.4 21.5 19.2 14.4 14.1 14.6 15.5

          16.2 15.6 13.8 12.2
  14       1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.2 13.8 15.5 16.5 15.0 14.5 14.2 14.1 19.6 21.5

          20.5 16.9 22.8 18.8
  15       1    2    3    4    5    6    7    8    9   10

          12.7 16.4 12.5 12.8 13.2 13.6 14.0 16.0 16.8 23.8

  16       1    2    3    4    5    6    7    8    9   10

          23.8 16.6 15.9 13.9 13.5 13.1 12.8 12.4 16.5 12.9

  17       1    2    3    4    5    6    7
          2.9  3.5  3.4  5.6 10.0 11.4  8.2
  18       1    2    3    4    5    6    7
          7.9 11.4 10.1  4.6  3.2  3.4  2.9
1

 RECEIVER    LEQ(H)   L10
 135          44.2   46.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1       1    2    3    4    5    6
          2.7  4.4  4.3  4.0  4.0  4.4
   2       1    2    3    4    5    6
          6.3  6.5  6.2 12.6 15.1 17.3
   3       1
          22.3
   4       1    2    3
          26.1 30.5 27.9
   5       1    2    3    4    5    6
          25.2 22.5 22.6 27.6 31.0 33.5
   6       1    2    3
          31.3 30.7 34.2
   7       1    2    3    4
          34.1 30.3 31.0 31.8
   8       1    2    3    4    5    6
          31.0 27.7 22.6 22.4 25.2 26.7
   9       1    2    3
          30.4 26.3 21.7
  10       1
          17.4
  11       1    2    3    4    5    6
          15.8 13.1  6.8  6.5  6.4  6.6
  12       1    2    3    4    5
          3.9  4.0  4.4  4.4  2.8
  13       1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          18.4 22.3 16.7 21.3 21.0 21.2 14.0 13.7 14.1 13.9

          15.6 15.3 13.8 12.1
  14       1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.2 13.8 15.2 15.7 13.6 14.0 13.7 13.7 21.4 21.1

          20.3 18.1 22.7 18.4
  15       1    2    3    4    5    6    7    8    9   10

          12.4 16.5 11.9 12.5 12.9 14.7 15.3 16.5 17.0 24.2

  16       1    2    3    4    5    6    7    8    9   10

          24.1 16.9 16.4 15.3 14.6 12.8 12.4 11.8 16.6 12.5

  17       1    2    3    4    5    6    7
          2.5  3.1  5.2  8.1  9.6 11.1  7.9
  18       1    2    3    4    5    6    7
          7.6 11.1  9.5  8.1  4.4  3.1  2.4
1

 RECEIVER    LEQ(H)   L10
 136          41.3   43.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1       1    2    3    4    5    6
          5.3  7.2  5.7  3.9  3.8  4.3
   2       1    2    3    4    5    6
          5.9  5.9  5.5 10.9 13.6 16.3
   3       1
          21.0
```

```
  4        1    2    3
          24.9 29.1 26.4
  5        1    2    3    4    5    6
          24.2 21.5 21.6 26.6 30.0 28.0
  6        1    2    3
          25.4 25.0 28.6
  7        1    2    3    4
          28.5 24.6 25.2 26.3
  8        1    2    3    4    5    6
          29.9 26.6 21.5 21.4 24.1 25.2
  9        1    2    3
          29.0 25.1 20.3
 10        1
          16.4
 11        1    2    3    4    5    6
          14.4 11.4  5.7  5.9  5.9  6.5
 12        1    2    3    4    5
           3.8  4.0  4.2  7.0  5.7
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          18.2 22.2 15.0 20.7 20.8 17.7 14.0 13.9 14.4 16.5

          15.1 14.3 12.3 10.9
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          11.0 12.3 14.2 15.5 16.3 14.1 13.9 13.7 18.3 20.9

          19.9 16.4 22.5 18.3
 15        1    2    3    4    5    6    7    8    9   10

          12.0 15.8 11.8 12.1 12.5 13.9 14.9 15.5 15.4 21.4

 16        1    2    3    4    5    6    7    8    9   10

          21.4 15.3 15.4 14.8 13.8 12.5 12.1 11.7 16.0 12.2

 17        1    2    3    4    5    6    7
           2.1  2.7  2.5  2.9  9.2 10.6  7.4
 18        1    2    3    4    5    6    7
           7.2 10.6  9.0  2.5  2.5  2.7  2.0
1

 RECEIVER    LEQ(H)   L10
 137          44.7   46.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

  1        1    2    3    4    5    6
           5.6  7.4  7.9  6.3  4.4  4.9
  2        1    2    3    4    5    6
           6.5  6.1  5.7 10.7 13.6 16.8
  3        1
          20.9
  4        1    2    3
          25.0 29.8 29.5
  5        1    2    3    4    5    6
          28.2 25.5 25.6 30.6 34.2 32.7
  6        1    2    3
          30.2 29.7 33.6
  7        1    2    3    4
          33.4 29.4 29.9 31.0
  8        1    2    3    4    5    6
          34.1 30.6 25.5 25.4 28.1 28.5
  9        1    2    3
          29.7 25.4 20.9
 10        1
          16.8
 11        1    2    3    4    5    6
          14.5 11.3  5.9  6.1  6.3  7.0
 12        1    2    3    4    5
           4.3  4.6  7.9  7.9  6.0
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          18.5 22.4 15.8 21.6 21.7 16.6 14.8 14.7 16.5 16.9

          15.7 14.5 12.5 11.0
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          11.1 12.5 14.4 16.0 16.7 16.2 14.7 14.5 17.6 21.7

          20.7 17.2 22.8 18.6
 15        1    2    3    4    5    6    7    8    9   10

          12.8 16.6 12.7 12.9 13.3 14.3 16.0 18.4 18.6 24.2

 16        1    2    3    4    5    6    7    8    9   10

          24.0 18.5 18.4 16.0 14.2 13.2 12.9 12.6 16.7 13.0

 17        1    2    3    4    5    6    7
           2.5  3.0  3.0  3.0  8.9 11.4  8.1
 18        1    2    3    4    5    6    7
           7.9 11.4  8.4  2.9  2.9  3.0  2.5
```

```
                    *************************
                           OPTIMA-VU1
                    *************************
                BARRIER OPTIMIZATION PROGRAM USING
              PARTIAL SOUND ENERGIES COMPUTED BY THE
                      STAMINA 2.0 PROGRAM
          MODIFIED FROM THE FHWA VAX VERSON -- MARCH 1983

      MODIFIED TO:
         1.   PLACE BARRIER COST DATA IN A DATA FILE CALLED
              OPTCOST.DTA TO ALLOW USER TO USE COSTS OTHER THAN
              THE FHWA NATIONAL AVERAGES.
                    *************************
         MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
                          IN JUNE 1991 BY
         VANDERBILT ENGINEERING CENTER FOR TRANSPORTATION
                OPERATIONS AND RESEARCH (VECTOR)
      BOX 96-B, VANDERBILT UNIVERSITY, NASHVILLE, TENNESSEE 37235
                          (615) 322-3683
                    *************************

   PROBLEM TITLE
   *************
 Meadowood - Single-Family 1st Floor (Receivers 122-137)No 15

              EFFECTIVENESS/COST RATIO AND BARRIER HEIGHT MATRICES
              ****************************************************
BARRIER SECTION       EFFECTIVENESS/COST                  CORRESPONDING
  NO  IDENT                 RATIO                          BARRIER HEIGHTS(IN
FT)

 HEIGHT INDEX   1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8
    1  1        *   0.                                 0. 0.
    2  2        *   0.                                 0. 0.
    3  3        *   0.                                 0. 0.
    4  5        *   0.                                 0. 0.
    5  6        *   0.                                 0. 0.
    6  7        *   0.                                 0. 0.
    7  8        *   0.                                 0. 0.
    8  9        *   0.                                 0. 0.
    9  10       *   0.                                 0. 0.
   10  11       *   0.                                 0. 0.
   11  12       *   0.                                 0. 0.
   12  13       *   0.                                 0. 0.
   13  15        *   1.   1.   1.   1.   1.   2.   2.  0. 3. 4. 5. 6. 7. 8.
9.
   14  16        *   3.   2.   0.   0.  -1.  -1.   0.  0. 3. 4. 5. 6. 7. 8.
9.
   15  17        *   0.  -1.  -2.  -4.  -5.  -6.  -6.  0. 3. 4. 5. 6. 7. 8.
9.
   16  18        *  -1.  -1.  -2.  -3.  -4.  -5.  -5.  0. 3. 4. 5. 6. 7. 8.
9.
   17  19        *  -1.  -2.  -3.  -5.  -6.  -7.  -8.  0. 3. 4. 5. 6. 7. 8.
9.
   18  20        *   2.   1.   0.  -1.  -1.  -2.  -2.  0. 3. 4. 5. 6. 7. 8.
9.
   19  21        *   4.   3.   2.   1.   0.  -1.  -1.  0. 3. 4. 5. 6. 7. 8.
9.
   20  22        *   9.   9.   9.   8.   6.   5.   4.  0. 3. 4. 5. 6. 7. 8.
9.
   21  24        *   5.   5.   4.   4.   4.   3.   3.  0. 3. 4. 5. 6. 7. 8.
9.
   22  25        *   4.   4.   3.   2.   2.   2.   2.  0. 3. 4. 5. 6. 7. 8.
9.
   23  26        *   0.   0.  -1.  -1.  -2.  -2.  -2.  0. 3. 4. 5. 6. 7. 8.
9.
   24  27        * -21. -22. -22. -23. -23. -24. -24.  0. 3. 4. 5. 6. 7. 8.
9.
   25  28        *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
   26  29        *  -4.  -4.  -4.  -5.  -5.  -5.  -6.  0. 3. 4. 5. 6. 7. 8.
9.
   27  30        *  -1.  -1.  -2.  -2.  -2.  -3.  -3.  0. 3. 4. 5. 6. 7. 8.
9.
   28  32        *  -1.  -1.  -1.  -2.  -2.  -2.  -2.  0. 3. 4. 5. 6. 7. 8.
9.
   29  33        *  -2.  -2.  -3.  -4.  -4.  -4.  -4.  0. 3. 4. 5. 6. 7. 8.
9.
   30  34        *  -4.  -4.  -5.  -6.  -6.  -6.  -6.  0. 3. 4. 5. 6. 7. 8.
9.
   31  35        *  -6.  -6.  -7.  -8.  -8.  -8.  -8.  0. 3. 4. 5. 6. 7. 8.
9.
   32  36        * -13. -13. -14. -15. -15. -15. -15.  0. 3. 4. 5. 6. 7. 8.
9.
   33  37        * -14. -14. -15. -16. -16. -16. -16.  0. 3. 4. 5. 6. 7. 8.
9.
   34  38        *  -4.  -4.  -5.  -5.  -5.  -6.  -6.  0. 3. 4. 5. 6. 7. 8.
9.
   35  39        * -14. -14. -15. -16. -16. -16. -16.  0. 3. 4. 5. 6. 7. 8.
9.
   36  40        *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
   37  41        *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
   38  41b       * -23. -23. -23. -24. -24. -24. -24.  0. 3. 4. 5. 6. 7. 8.
9.
   39  42        * -10. -10. -10. -11. -11. -11. -11.  0. 3. 4. 5. 6. 7. 8.
9.
   40  42b       * -13. -13. -14. -15. -15. -15. -15.  0. 3. 4. 5. 6. 7. 8.
9.
   41  43        *  -5.  -6.  -6.  -7.  -7.  -7.  -7.  0. 3. 4. 5. 6. 7. 8.
9.
   42  44        *  -7.  -7.  -8.  -9.  -9.  -9.  -9.  0. 3. 4. 5. 6. 7. 8.
9.
   43  45        *  -7.  -7.  -8.  -8.  -8.  -8.  -9.  0. 3. 4. 5. 6. 7. 8.
9.
   44  46        *  -7.  -7.  -7.  -8.  -8.  -8.  -9.  0. 3. 4. 5. 6. 7. 8.
9.
   45  47        *  -6.  -6.  -7.  -8.  -8.  -8.  -8.  0. 3. 4. 5. 6. 7. 8.
9.
   46  48        * -23. -23. -24. -25. -25. -25. -25.  0. 3. 4. 5. 6. 7. 8.
9.
   47  49        * -13. -13. -14. -14. -14. -15. -15.  0. 3. 4. 5. 6. 7. 8.
9.
   48  50        * -15. -15. -16. -16. -17. -17. -17.  0. 3. 4. 5. 6. 7. 8.
9.
   49  51        * -14. -14. -15. -16. -16. -16. -16.  0. 3. 4. 5. 6. 7. 8.
9.
   50  52        * -14. -14. -15. -15. -15. -15. -16.  0. 3. 4. 5. 6. 7. 8.
9.
   51  54        *  -5.  -5.  -6.  -6.  -6.  -7.  -7.  0. 3. 4. 5. 6. 7. 8.
9.
   52  55        *  -1.  -1.  -2.  -2.  -3.  -3.  -3.  0. 3. 4. 5. 6. 7. 8.
9.
   53  56        *   1.   1.   0.   0.  -1.  -1.  -1.  0. 3. 4. 5. 6. 7. 8.
9.
   54  57        *   1.   1.   1.   0.   0.   0.  -1.  0. 3. 4. 5. 6. 7. 8.
9.
   55  58        * -10.  -9. -10. -11. -11. -11. -11.  0. 3. 4. 5. 6. 7. 8.
9.
   56  59        * -14. -14. -14. -15. -15. -15. -16.  0. 3. 4. 5. 6. 7. 8.
9.
   57  60        *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
   58  61        *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
   59  62       *   0.                                 0. 0.
   60  63       *   0.                                 0. 0.
   61  64       *   0.                                 0. 0.
   62  65       *   0.                                 0. 0.
   63  66       *   0.                                 0. 0.
   64  67       *   0.                                 0. 0.
   65  68       *   0.                                 0. 0.
   66  69       *   0.                                 0. 0.
   67  70       *   0.                                 0. 0.
   68  72       *   0.                                 0. 0.
   69  73       *   0.                                 0. 0.
   70  74       *   0.                                 0. 0.
   71  75       *   0.                                 0. 0.
   72  76       *   0.                                 0. 0.
   73  78       *   0.                                 0. 0.
   74  79       *   0.                                 0. 0.
   75  81       *   0.                                 0. 0.
   76  82       *   0.                                 0. 0.
   77  82b      *   0.                                 0. 0.
   78  82c      *   0.                                 0. 0.
   79  84       *   0.                                 0. 0.
   80  85       *   0.                                 0. 0.
   81  85b      *   0.                                 0. 0.
   82  85c      *   0.                                 0. 0.
   83  85d      *   0.                                 0. 0.
   84  86       *   0.                                 0. 0.
   85  86b      *   0.                                 0. 0.
   86  87       *   0.                                 0. 0.
   87  87b      *   0.                                 0. 0.
   88  87c      *   0.                                 0. 0.
   89  87d      *   0.                                 0. 0.
   90  87e      *   0.                                 0. 0.
   91  87f      *   0.                                 0. 0.
   92  87g      *   0.                                 0. 0.
   93  87h      *   0.                                 0. 0.
   94  88        *  -6.  -6.  -7.  -7.  -7.  -7.  -8.  0. 3. 4. 5. 6. 7. 8.
9.
   95  89        *  -6.  -6.  -7.  -7.  -8.  -8.  -8.  0. 3. 4. 5. 6. 7. 8.
9.
   96  90        *  -6.  -7.  -7.  -8.  -8.  -8.  -8.  0. 3. 4. 5. 6. 7. 8.
9.
   97  91        *  -6.  -6.  -7.  -8.  -8.  -8.  -8.  0. 3. 4. 5. 6. 7. 8.
9.
   98  92        *  -8.  -8.  -9.  -9.  -9. -10. -10.  0. 3. 4. 5. 6. 7. 8.
9.
   99  93        * -16. -16. -16. -17. -17. -18. -18.  0. 3. 4. 5. 6. 7. 8.
9.
  100  94        *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
  101  95        *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
  102  96        *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
  103  98       *   0.                                 0. 0.
  104  99       *   0.                                 0. 0.
  105  100      *   0.                                 0. 0.
  106  101      *   0.                                 0. 0.
  107  102      *   0.                                 0. 0.
  108  104      *   0.                                 0. 0.
  109  105      *   0.                                 0. 0.
  110  106      *   0.                                 0. 0.
  111  108a     *   0.                                 0. 0.
  112  108b     *   0.                                 0. 0.
  113  109      *   0.                                 0. 0.
  114  110      *   0.                                 0. 0.

 HEIGHT INDEX   1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8

 Meadowood - Single-Family 1st Floor (Receivers 122-137)No 15


 BARRIER HEIGHT INDEX FOR EACH BARRIER SECTION
   1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  1  1  1  1  1  2  2  2  2  2
   2  2  2  2  2  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  2  2
   2  2  2  2  2  2  2  2  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
   1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  3  3  3  3
   3  3  1  1  1  1  1  1  1  1  1  1  1  1
 CORRESPONDING BARRIER HEIGHTS FOR EACH SECTION
  0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 3. 3. 3. 0. 0. 0. 0. 0. 3. 3. 3. 3. 3.
  3. 3. 3. 3. 3. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 3. 3. 3. 3. 3.
  3. 3. 3. 3. 3. 3. 3. 3. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
  0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 3. 3. 3. 4. 4. 4. 4.
  4. 4. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

     R E S U L T S
     *************

 REC     REC ID          LEQ       LEQ(Z(0))       IL
   1     122             46.9       47.0           .0
   2     123             47.3       47.3           .0
   3     124             45.9       46.0           .0
   4     125             47.8       47.9           .0
   5     126             47.5       47.5           .0
   6     127             47.2       47.2           .0
   7     128             46.9       47.0           .0
   8     129             46.8       46.8           .1
   9     130             46.0       46.1           .1
  10     131             45.2       45.3           .1
  11     132             41.5       41.6           .1
  12     133             42.1       42.2           .1
  13     134             43.2       43.3           .1
  14     135             44.3       44.3           .0
  15     136             41.4       41.5           .1
  16     137             44.7       44.8           .0

 BARRIER TYPE            COST                    AREA (SQ. FT.)
 FH-BERM                     0.                       0.
 FH-MASON                52900.                   10790.
 FH-WOOD                     0.                       0.
 FH-CONC                     0.                       0.
 FH-STEEL                    0.                       0.
*******************************************************************
  TOTALS:          $     52900.                   10790.

 END OF ALL CASES
```

****
STAM2VU1
Version 1.20
****
STAMINA 2.0/BCR
MODIFIED FROM FHWA VERSION 3 (MARCH 1983)
TRAFFIC NOISE PREDICTION MODEL

MODIFIED TO:
1. ALLOW EQUIVALENT SPEEDS BELOW 30 MPH PER NCHRP 311;
2. CORRECT MEDIUM TRUCK BARRIER CALCULATION ERROR BY USING VEH4, VEH5 AND VEH6 FOR CARS, MT AND HT; AND
3. PLACE REFERENCE ENGERGY MEAN EMISSION LEVELS IN A DATA FILE CALLED REMEL.DTA TO ALLOW USER TO USE LEVELS OTHER THAN THE FHWA NATIONAL AVERAGES.

****

MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
BY VANDERBILT UNIVERSITY, NASHVILLE, TN 37235
AND BOWLBY & ASSOCIATES, INC.
2014 BROADWAY, SUITE 210
NASHVILLE, TN 37203-2425
TEL 615-327-8130, FAX 615-327-8137

NOTE:
IN STAM2VU1, THE TRAFFIC DATA FROM THE ORIGINAL DATA FILE HAS BEEN SHIFTED TO CORRECT THE STAMINA 2.0 MEDIUM TRUCK CALCULATION ERROR. THIS SHIFT IS REFLECTED BELOW IN THE *.STA OUTPUT FILE. THE ORIGINAL DATA FILE IS UNCHANGED.

(INPUT UNITS- ENGLISH , OUTPUT UNITS- ENGLISH)

Meadowood - Single-Family 2nd Floor (Receivers 122-137)No 15

EMISSION LEVELS: Calveno Levels (trucks>30mph)

0PROGRAM INITIALIZATION PARAMETERS

HEIGHT	CODE	DESCRIPTION
.00	1	RECEIVER HEIGHT ADJUSTMENT
1.00	2	A-WEIGHTED SOUND LEVEL ONLY
.00	3	HEIGHT ADJUSTMENT FOR PASSENGER CARS (CARS)
.00	4	HEIGHT ADJUSTMENT FOR HEAVY TRUCKS (HT)
.00	5	HEIGHT ADJUSTMENT FOR MEDIUM TRUCKS (MT)
.000	6	HEIGHT ADJUSTMENT FOR TYPE4 VEHICLES (VEH4) CARS--CALVENO C0 = 5.20 C1 = 38.80 S0 = .00
2.300	7	HEIGHT ADJUSTMENT FOR TYPE5 VEHICLES (VEH5) MT--CALVENO C0 = 35.30 C1 = 25.60 S0 = .00
8.000	8	HEIGHT ADJUSTMENT FOR TYPE6 VEHICLES (VEH6) HT--CALVENO C0 = 50.40 C1 = 19.20 S0 = .00

0ROADWAY 1 HRC nb (76 to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6287767.4	2067284.0	276.0	0
2	6287704.7	2067456.2	276.0	0
3	6287629.7	2067702.5	279.0	0
4	6287568.8	2067936.5	284.0	0
5	6287512.3	2068148.3	284.0	0
6	6287446.9	2068359.4	282.0	0
7	6287374.5	2068606.6	279.0	0

0ROADWAY 2 HRC nb (Pankey to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
7	6287374.5	2068606.6	279.0	0
8	6287273.9	2068832.6	278.0	0
9	6287137.9	2069057.7	278.0	0
10	6287017.0	2069263.4	280.0	0
11	6286760.9	2069688.9	285.0	0
12	6286533.2	2070137.4	290.0	0
13	6286310.7	2070587.7	296.0	0

0ROADWAY 3 HRC nb (School to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
13	6286310.7	2070587.7	296.0	0
14	6286086.4	2071030.0	302.0	0

0ROADWAY 4 HRC nb (26 to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286086.4	2071030.0	302.0	0
15	6285859.5	2071475.8	308.0	0
16	6285540.8	2072106.2	311.0	0
17	6285403.1	2072385.2	310.0	0

0ROADWAY 5 HRC nb (Harvest Glen to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
17	6285403.1	2072385.2	310.0	0
18	6285328.1	2072574.1	310.0	0
19	6285298.0	2072673.9	310.0	0
20	6285270.7	2072773.6	311.0	0
21	6285221.2	2073078.2	314.0	0
22	6285201.8	2073673.3	322.0	0
23	6285188.6	2074037.0	338.0	0

0ROADWAY 6 HRC nb (Longspur to Baltimore)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
23	6285188.6	2074037.0	338.0	0
24	6285145.3	2074308.9	346.0	0
25	6285056.1	2074546.4	351.0	0
26	6284650.0	2075149.4	356.0	0

0ROADWAY 7 HRC sb (Baltimore to Longspur)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	347.	40.0
VEH5	11.	40.0
VEH6	7.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
1	6284621.8	2075132.6	356.0	0
2	6285015.5	2074527.9	351.0	0
3	6285099.4	2074300.1	346.0	0
4	6285141.8	2074033.5	338.0	0
5	6285159.4	2073671.5	322.0	0

0ROADWAY 8 HRC sb (Longspur to Harvest Glen)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	488.	40.0
VEH5	15.	40.0
VEH6	10.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
5	6285159.4	2073671.5	322.0	0
6	6285181.5	2073072.9	314.0	0
7	6285228.3	2072759.5	311.0	0
8	6285256.5	2072658.0	310.0	0
9	6285287.4	2072557.3	310.0	0
10	6285368.7	2072369.3	310.0	0
11	6285504.6	2072087.7	311.0	0

0ROADWAY 9 HRC sb (Harvest Glen to 26)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	634.	40.0
VEH5	20.	40.0
VEH6	13.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
11	6285504.6	2072087.7	311.0	0
12	6285818.9	2071457.3	308.0	0
13	6286045.8	2071007.9	302.0	0
14	6286269.2	2070567.4	296.0	0

0ROADWAY 10 HRC sb (26 to School)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	689.	40.0
VEH5	22.	40.0
VEH6	14.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
14	6286269.2	2070567.4	296.0	0
15	6286493.4	2070122.4	290.0	0

0ROADWAY 11 HRC sb (School to Pankey)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	695.	40.0
VEH5	22.	40.0
VEH6	15.	40.0

0 ------------COORDINATES------------

	X	Y	Z	GRADE
15	6286493.4	2070122.4	290.0	0
16	6286720.3	2069667.7	285.0	0
17	6286977.2	2069239.6	280.0	0
18	6287102.6	2069033.0	278.0	0
19	6287238.6	2068813.1	278.0	0

20	6287334.8	2068585.4	279.0	0
21	6287408.1	2068344.3	282.0	0

0ROADWAY 12 HRC sb (Pankey to 76)

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	415.	40.0
VEH5	13.	40.0
VEH6	9.	40.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
21	6287408.1	2068344.3	282.0	0
22	6287465.5	2068135.1	284.0	0
23	6287525.5	2067923.2	284.0	0
24	6287585.5	2067689.3	279.0	0
25	6287658.8	2067442.1	276.0	0
26	6287712.7	2067264.6	276.0	0

0ROADWAY 13 SR-76 eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
1	6285343.2	2066573.4	260.0	0
2	6285453.8	2066619.2	260.0	0
3	6285731.0	2066734.9	260.0	0
4	6285804.7	2066766.7	260.0	0
5	6286102.2	2066891.3	264.0	0
6	6286411.1	2067020.9	269.0	0
7	6286732.8	2067107.4	274.0	0
8	6287029.0	2067131.5	275.0	0
9	6287307.4	2067153.2	276.0	0
10	6287604.9	2067197.7	277.0	0
11	6287877.0	2067284.1	278.0	0
12	6288121.1	2067404.9	278.5	0
13	6288353.7	2067568.9	279.0	0
14	6288530.5	2067735.4	280.0	0
15	6288663.9	2067896.9	280.0	0

0ROADWAY 14 SR-76 westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	877.	55.0
VEH5	48.	55.0
VEH6	102.	55.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
1	6288633.4	2067914.7	280.0	0
2	6288502.5	2067755.8	280.0	0
3	6288330.9	2067594.3	279.0	0
4	6288107.1	2067437.9	278.5	0
5	6287847.7	2067310.8	278.0	0
6	6287596.0	2067232.0	277.0	0
7	6287306.2	2067190.0	276.0	0
8	6287023.9	2067168.4	275.0	0
9	6286746.8	2067144.3	274.0	0
10	6286395.9	2067052.7	269.0	0
11	6286083.1	2066921.8	264.0	0
12	6285841.6	2066821.3	260.0	0
13	6285738.6	2066778.1	260.0	0
14	6285441.1	2066653.5	260.0	0
15	6285330.5	2066606.5	260.0	0

0ROADWAY 15 Pala Mesa northbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
1	6286331.5	2067087.9	276.0	0
2	6286125.7	2067571.3	268.0	0
3	6285838.3	2068252.8	284.0	0
4	6285745.1	2068433.4	288.0	0
5	6285618.9	2068594.6	292.0	0
6	6285471.4	2068740.2	296.0	0
7	6285300.5	2068854.7	300.0	0
8	6285108.3	2068936.3	304.0	0
9	6284908.3	2068984.8	308.0	0
10	6284702.5	2069002.3	312.0	0
11	6283840.4	2069023.6	318.0	0

0ROADWAY 16 Pala Mesa southbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	229.	45.0
VEH5	7.	45.0
VEH6	5.	45.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
1	6283838.5	2069002.3	318.0	0
2	6284702.5	2068980.9	312.0	0
3	6284904.4	2068965.4	308.0	0
4	6285104.4	2068916.9	304.0	0
5	6285288.9	2068835.3	300.0	0
6	6285457.8	2068722.7	296.0	0
7	6285605.3	2068582.9	292.0	0
8	6285727.7	2068419.8	288.0	0
9	6285817.0	2068241.2	284.0	0
10	6286098.5	2067559.7	268.0	0
11	6286300.4	2067072.4	276.0	0

0ROADWAY 17 Pankey westbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
1	6287324.0	2068517.0	280.0	0
2	6287161.1	2068460.3	276.0	0
3	6286985.2	2068362.3	272.0	0
4	6286825.8	2068239.5	270.0	0
5	6286684.1	2068102.5	272.0	0
6	6286501.1	2067920.7	270.0	0
7	6286255.5	2067692.9	268.0	0
8	6286131.6	2067622.0	268.0	0

0ROADWAY 18 Pankey eastbound

VEHICLE TYPE	VEHICLES/HOUR	SPEED
CARS	0.	30.0
HT	0.	30.0
MT	0.	30.0
VEH4	314.	45.0
VEH5	10.	45.0
VEH6	7.	45.0

0

	----------COORDINATES----------			
	X	Y	Z	GRADE
1	6286146.9	2067609.0	268.0	0
2	6286265.0	2067676.3	268.0	0
3	6286514.1	2067905.4	270.0	0
4	6286698.3	2068089.6	272.0	0
5	6286839.9	2068224.2	270.0	0
6	6286993.4	2068348.1	272.0	0
7	6287172.9	2068437.9	276.0	0
8	6287331.1	2068498.1	280.0	0

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BARRIER 1 TYPE(A) Pad Edges 1

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
1	6286634.5	2070357.1	300.0	300.0	.0	0
2	6286502.0	2070298.3	300.0	300.0		
3	6286265.1	2070793.1	310.0	310.0		
4	6286320.9	2070828.5	310.0	310.0		

1

BARRIER 2 TYPE(A) Pad Edges 2

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
5	6286349.5	2070944.8	315.0	315.0	.0	0
6	6286239.3	2070896.7	314.0	314.0		
7	6286196.9	2070902.4	314.0	314.0		
8	6286078.1	2071137.0	311.0	311.0		
9	6286004.6	2071292.5	316.0	316.0		
10	6286004.6	2071603.5	317.0	317.0		
11	6286004.6	2071990.8	321.0	321.0		
12	6286004.5	2072360.7	324.0	324.0		
13	6286289.0	2072499.4	326.0	326.0		
14	6286498.0	2072566.2	329.0	329.0		

1

BARRIER 3 TYPE(A) Pad Edges 3

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
15	6286634.5	2072765.6	401.0	395.0	1.0	3
16	6286621.9	2072916.9	401.0	395.0		
17	6286648.3	2073055.3	403.0	397.0		
18	6286685.9	2073120.3	406.0	400.0		
19	6286802.5	2073223.1	414.0	408.0		
20	6286939.8	2073344.0	427.0	421.0		
21	6287080.9	2073468.3	440.0	434.0		
22	6287179.3	2073554.7	448.0	442.0		
23	6287319.9	2073660.5	453.0	447.0		

1

BARRIER 4 TYPE(A) Pad Edges 4

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
24	6286661.4	2072669.3	405.0	399.0	1.0	3
25	6286691.4	2072606.8	408.0	402.0		
26	6286808.6	2072443.9	419.0	413.0		
27	6286883.6	2072343.9	426.0	420.0		
28	6286840.1	2072178.6	431.0	425.0		
29	6286816.2	2072125.3	431.0	425.0		
30	6286823.2	2072059.3	431.0	425.0		
32	6286845.0	2072002.5	431.0	425.0		
33	6286884.7	2071971.4	431.0	425.0		

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BARRIER 5 TYPE(A) Pad Edges 5

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
33	6286902.8	2071961.7	431.0	425.0	1.0	3
34	6286962.6	2071945.7	431.0	425.0		
35	6287015.8	2071960.1	431.0	425.0		
36	6287071.5	2071996.1	431.0	425.0		
37	6287133.1	2072101.5	439.0	433.0		
38	6287208.1	2072073.0	446.0	440.0		
39	6287286.5	2072058.4	449.0	443.0		
40	6287479.3	2072046.8	460.0	454.0		
41	6287668.5	2072035.1	471.0	465.0		
41b	6287685.1	2071982.5	500.0	494.0		

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BARRIER 6 TYPE(A) Pad Edges 6

	---------COORDINATES----------					
	X	Y	Z	Z0	DELZ	P
41b	6287685.1	2071982.5	500.0	494.0	1.0	3
42	6287686.6	2071882.5	500.0	494.0		
42b	6287699.0	2071869.6	500.0	494.0		
43	6287687.4	2071826.0	500.0	494.0		
44	6287537.5	2071795.8	499.0	493.0		
45	6287494.5	2071766.0	499.0	493.0		
46	6287457.5	2071786.6	499.0	493.0		
47	6287414.4	2071765.2	499.0	493.0		
48	6287295.5	2071799.6	499.0	493.0		
49	6287284.9	2071649.7	495.0	489.0		

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BARRIER 7 TYPE(A) Pad Edges 7

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
49	6287284.9	2071649.7	495.0	489.0	1.0	3
50	6287348.9	2071527.3	493.0	487.0		
51	6287424.5	2071350.9	487.0	481.0		
52	6287467.2	2071294.2	485.0	479.0		
53	6287518.6	2071247.5	483.0	477.0		

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BARRIER 8 TYPE(A) Pad Edges 8

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
54	6287218.1	2070892.1	423.0	417.0	1.0	3
55	6287157.9	2071011.8	428.0	422.0		
56	6287075.2	2071176.2	433.0	427.0		
57	6287007.6	2071272.7	433.0	427.0		
58	6286932.0	2071401.6	433.0	427.0		
59	6286944.0	2071476.9	433.0	427.0		
60	6286980.6	2071530.1	433.0	427.0		
61	6287085.3	2071587.4	433.0	427.0		
61b	6287195.3	2071545.3	436.0	430.0		

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BARRIER 9 TYPE(A) Pad Edges 9

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
62	6287504.8	2073407.6	464.0	464.0	.0	0
63	6287455.9	2073368.6	463.0	463.0		
64	6287170.1	2073077.7	459.0	459.0		
65	6287084.1	2072959.0	458.0	458.0		
66	6287062.5	2072812.7	457.0	457.0		
67	6287098.4	2072672.4	456.0	456.0		
68	6287206.8	2072488.9	454.0	454.0		
69	6287296.9	2072394.7	453.0	453.0		
70	6287367.3	2072346.7	452.0	452.0		
71	6287469.2	2072361.5	452.0	452.0		

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BARRIER 10 TYPE(A) Pad Edges 10

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
72.	6287697.7	2073088.0	486.0	486.0	.0	0
73	6287547.5	2072976.4	486.0	486.0		
74	6287491.4	2072888.6	486.0	486.0		
75	6287491.1	2072766.9	485.0	485.0		
76	6287635.8	2072596.6	482.0	482.0		
77	6287767.5	2072309.5	477.0	477.0		

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BARRIER 11 TYPE(A) Pad Edges 11

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
78	6287168.3	2074113.6	447.0	447.0	.0	0
79	6287306.7	2073811.7	443.0	443.0		
80	6287536.9	2073481.4	457.0	457.0		

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BARRIER 12 TYPE(A) Pad Edges 12

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
81	6287283.0	2074170.1	465.0	465.0	.0	0
82	6287469.8	2073845.2	471.0	471.0		
82b	6287616.6	2073652.3	478.0	478.0		
82c	6287630.6	2073609.8	478.0	478.0		
83	6287702.0	2073532.9	475.0	475.0		

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BARRIER 13 TYPE(A) Pad Edges 14

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
84	6288855.6	2071200.7	606.0	606.0	.0	0
85	6288817.6	2071249.1	606.0	606.0		
85b	6288817.1	2071249.5	600.0	600.0		
85c	6288775.2	2071293.2	600.0	600.0		
85d	6288774.8	2071293.5	593.0	593.0		
86	6288730.6	2071333.3	593.0	593.0		
86b	6288730.4	2071333.5	585.0	585.0		
87	6288637.1	2071415.2	574.0	574.0		
87b	6288636.6	2071415.5	558.0	558.0		
87c	6288577.5	2071447.1	558.0	558.0		

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BARRIER 14 TYPE(A) Pad Edges 15

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
87c	6288577.5	2071447.1	558.0	558.0	.0	0
87d	6288576.6	2071447.3	542.0	542.0		
87e	6288512.6	2071462.6	542.0	542.0		
87f	6288512.2	2071462.7	535.0	535.0		
87g	6288454.3	2071466.7	535.0	535.0		
87h	6288453.5	2071466.7	528.0	528.0		
87i	6288396.4	2071470.4	528.0	528.0		

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BARRIER 15 TYPE(A) Pad Edges 16

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
88	6287934.8	2071070.6	469.0	463.0	1.0	3
89	6287896.0	2071051.1	467.0	461.0		
90	6287829.7	2071017.7	463.0	457.0		
91	6287774.3	2070989.8	458.0	452.0		
92	6287719.9	2070962.3	452.0	446.0		
93	6287660.0	2070932.2	444.0	438.0		
94	6287602.9	2070903.4	437.0	431.0		
95	6287558.2	2070880.9	432.0	426.0		
96	6287504.6	2070853.9	432.0	426.0		
97	6287457.4	2070947.6	432.0	426.0		

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BARRIER 16 TYPE(A) Pad Edges 17

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
98	6287917.7	2071215.4	471.0	471.0	.0	0
99	6288056.8	2071153.4	487.0	487.0		
100	6288174.3	2071168.6	499.0	499.0		
101	6288341.6	2071223.3	517.0	517.0		
102	6288383.4	2071229.3	517.0	517.0		
103	6288411.9	2071206.0	518.0	518.0		

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BARRIER 17 TYPE(A) Pade Edges 18

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
104	6287531.1	2074308.7	483.0	483.0	.0	0
105	6287706.9	2074046.2	487.0	487.0		
106	6287847.9	2073869.2	491.0	491.0		
107	6287887.1	2073856.0	493.0	493.0		

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BARRIER 18 TYPE(A) Pad Edges 19

	---------COORDINATES---------					
	X	Y	Z	Z0	DELZ	P
108a	6287776.1	2074544.5	503.0	503.0	.0	0
108b	6287725.5	2074618.8	503.0	503.0		
109	6287778.2	2074656.5	513.0	513.0		
110	6287798.1	2074702.8	518.0	518.0		
111	6287807.8	2074744.0	518.0	518.0		

1

Receivers @ 15'

	----------COORDINATES----------		
	X	Y	Z
122	6287364.9	2073731.6	459.0
123	6287304.2	2073841.4	457.0
124	6287259.2	2073938.6	457.0
125	6287214.1	2074038.4	460.0
126	6287305.2	2074144.6	480.0
127	6287363.6	2074041.5	481.0
128	6287427.1	2073933.5	482.0
129	6287494.5	2073824.6	486.0
130	6287570.0	2073726.7	489.0
131	6287643.4	2073611.8	492.0
132	6287829.0	2073908.0	505.0
133	6287734.8	2074027.6	501.0
134	6287658.8	2074124.9	501.0
135	6287588.0	2074233.7	499.0
136	6287761.3	2074632.7	517.0
137	6287817.0	2074735.2	533.0

1

ALPHA FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
13 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
14 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
16 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				

1

SHIELDING FACTORS - RECEIVER ACROSS,ROADWAY DOWN

1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
13 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
14 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
16 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0				

1

RECEIVER	LEQ(H)	L10
122	47.0	49.2

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING 1.0 DBA

ROADWAY SEGMENT

1	1	2	3	4	5	6
	2.0	3.8	3.8	3.6	3.7	4.4
2	1	2	3	4	5	6
	6.5	10.2	10.7	13.7	16.7	18.2
3	1					
	23.7					

```
  4        1    2    3
          26.7 32.2 34.5
  5        1    2    3    4    5    6
          31.7 28.9 29.0 33.9 37.1 35.1
  6        1    2    3
          32.1 31.2 34.5
  7        1    2    3    4
          34.3 30.9 31.8 33.4
  8        1    2    3    4    5    6
          37.0 33.9 28.9 28.8 31.6 33.2
  9        1    2    3
          32.3 27.0 22.8
 10        1
          18.2
 11        1    2    3    4    5    6
          17.1 13.9 10.5 11.1  6.6  6.6
 12        1    2    3    4    5
           3.6  3.6  3.8  3.8  2.1
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          16.4 20.4 14.7 20.9 20.4 20.3 20.3 16.3 13.3 13.1

          13.0 13.3 13.3 13.9
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          13.8 13.0 13.2 13.3 12.8 13.2 16.7 20.0 20.7 20.5

          20.0 16.2 20.7 16.4
 15        1    2    3    4    5    6    7    8    9   10

          12.3 15.1 10.3 10.7 13.4 15.9 16.1 16.2 16.6 23.5

 16        1    2    3    4    5    6    7    8    9   10

          23.5 16.5 16.2 15.9 15.8 13.5 10.7 10.2 15.1 12.4

 17        1    2    3    4    5    6    7
           2.7  8.8  7.9  7.9  9.5 11.0  8.5
 18        1    2    3    4    5    6    7
           8.2 11.0  9.4  7.9  7.9  8.6  2.6
1

 RECEIVER    LEQ(H)   L10
 123          47.4   49.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           1.6  3.4  3.4  3.2  3.3  4.0
   2        1    2    3    4    5    6
           6.2 12.1 10.0 13.4 16.6 18.7
   3        1
          24.0
   4        1    2    3
          27.4 34.5 34.4
   5        1    2    3    4    5    6
          31.7 28.9 29.0 34.0 37.3 35.4
   6        1    2    3
          32.4 31.6 34.8
   7        1    2    3    4
          34.7 31.2 32.2 33.6
   8        1    2    3    4    5    6
          37.2 33.9 28.9 28.8 31.6 33.2
   9        1    2    3
          34.6 27.6 23.2
  10        1
          19.3
  11        1    2    3    4    5    6
          17.1 13.6 10.1 12.0  8.5  6.2
  12        1    2    3    4    5
           3.3  3.2  3.4  3.4  1.7
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          17.8 20.3 14.1 20.2 20.2 19.8 19.5 18.7 13.0 12.7

          12.7 13.0 12.3 13.1
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.8 12.2 12.8 12.9 12.4 12.9 18.9 19.2 20.2 20.4

          19.3 15.6 20.7 17.9
  15        1    2    3    4    5    6    7    8    9   10

          12.1 14.9 11.9 14.8 15.4 15.8 15.9 15.9 15.9 22.6

  16        1    2    3    4    5    6    7    8    9   10

          22.6 15.7 15.8 15.8 15.7 15.3 14.8 12.1 15.0 12.1

  17        1    2    3    4    5    6    7
           6.9  7.8  7.5  7.5  9.1 11.2  8.0
  18        1    2    3    4    5    6    7
           7.8 11.1  9.1  7.5  7.4  8.0  6.5
1

 RECEIVER    LEQ(H)   L10
 124          47.7   49.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           1.5  3.1  3.3  3.0  3.1  3.8
   2        1    2    3    4    5    6
           9.7 11.7  9.7 13.2 19.3 19.4
   3        1
          24.2
   4        1    2    3
          27.8 35.7 34.3
   5        1    2    3    4    5    6
          31.6 28.9 29.0 34.0 37.4 35.6
   6        1    2    3
          32.7 31.9 35.1
   7        1    2    3    4
          35.0 31.5 32.4 33.8
   8        1    2    3    4    5    6
          37.3 33.9 28.9 28.7 31.5 33.0
   9        1    2    3
          35.7 28.1 23.5
  10        1
          20.0
  11        1    2    3    4    5    6
          19.6 13.4  9.8 11.2 11.6  6.0
  12        1    2    3    4    5
           3.1  3.0  3.3  3.2  1.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.6 21.7 15.7 22.4 20.2 19.6 19.1 19.3 14.1 12.6

          12.5 12.8 12.1 12.3
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          12.0 12.0 12.6 12.7 12.3 14.1 19.3 18.8 20.0 20.3

          21.8 17.1 22.2 19.7
  15        1    2    3    4    5    6    7    8    9   10

          12.0 16.9 14.2 14.9 15.5 15.7 16.2 16.2 16.7 25.6

  16        1    2    3    4    5    6    7    8    9   10

          26.0 16.6 16.2 16.0 15.6 15.3 14.9 14.2 16.9 12.5

  17        1    2    3    4    5    6    7
           8.0  7.3  7.1  7.3  9.0 11.5  8.0
  18        1    2    3    4    5    6    7
           7.7 11.4  8.8  7.2  7.1  7.3  7.9
1

 RECEIVER    LEQ(H)   L10
 125          47.9   50.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           1.4  3.2  3.2  2.9  3.0  3.9
   2        1    2    3    4    5    6
          12.1 11.2  9.5 13.1 19.5 20.4
   3        1
          24.4
   4        1    2    3
          27.7 36.4 34.2
   5        1    2    3    4    5    6
          31.5 28.8 28.9 34.0 37.5 35.7
   6        1    2    3
          32.9 32.2 35.4
   7        1    2    3    4
          35.3 31.8 32.6 34.0
   8        1    2    3    4    5    6
          37.3 33.9 28.8 28.6 31.4 32.9
   9        1    2    3
          36.4 28.3 24.3
  10        1
          20.9
  11        1    2    3    4    5    6
          19.6 13.8  9.7 10.5 12.2 10.7
  12        1    2    3    4    5
           3.0  3.0  3.2  3.2  1.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.9 23.4 15.9 22.3 22.5 19.8 19.0 19.2 16.6 12.5

          12.4 12.7 12.1 11.9
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          11.6 12.0 12.6 12.7 12.2 16.7 19.2 18.7 20.3 23.0

          21.1 17.3 23.8 19.9
  15        1    2    3    4    5    6    7    8    9   10

          14.8 17.6 14.5 15.0 15.4 16.1 17.2 18.7 20.4 26.2

  16        1    2    3    4    5    6    7    8    9   10

          26.2 20.4 18.7 17.0 16.0 15.3 15.1 14.4 17.7 14.8

  17        1    2    3    4    5    6    7
           7.8  7.1  7.0  7.4  9.7 13.0 11.8
  18        1    2    3    4    5    6    7
          11.9 12.7  9.5  7.2  6.9  7.1  7.8
1

 RECEIVER    LEQ(H)   L10
 126          47.5   49.6

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           2.4  4.0  4.0  3.7  3.7  4.3
   2        1    2    3    4    5    6
           6.3 12.7  9.9 13.4 19.6 20.6
   3        1
          24.8
   4        1    2    3
          27.8 35.7 33.6
   5        1    2    3    4    5    6
          30.9 28.2 28.3 33.4 37.0 35.3
   6        1    2    3
          32.5 31.8 35.2
   7        1    2    3    4
          35.0 31.4 32.2 33.6
   8        1    2    3    4    5    6
          36.8 33.4 28.2 28.1 30.8 32.3
   9        1    2    3
          35.7 28.6 25.1
  10        1
          21.1
  11        1    2    3    4    5    6
          20.3 13.7 10.1 12.5  9.3  6.4
  12        1    2    3    4    5
           3.6  3.7  4.0  4.0  2.5
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.9 23.2 17.4 25.0 22.6 21.0 20.5 20.2 13.7 13.5

          13.4 13.6 13.7 14.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.1 13.5 13.5 13.7 13.2 13.7 20.3 20.1 21.4 22.8

          24.3 18.9 23.6 19.9
  15        1    2    3    4    5    6    7    8    9   10

          14.8 18.6 14.6 15.0 15.9 17.7 19.8 20.2 20.2 25.9

  16        1    2    3    4    5    6    7    8    9   10

          25.9 20.1 20.2 19.6 17.8 15.7 15.0 14.5 18.7 14.8
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  17        1    2    3    4    5    6    7
           8.0  8.1  7.9  8.2 10.0 13.7 10.6
  18        1    2    3    4    5    6    7
          10.4 13.6  9.9  8.1  7.8  8.4  7.6
1

 RECEIVER     LEQ(H)    L10
 127           47.3    49.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           2.7  4.4  4.3  4.0  4.0  4.6
   2        1    2    3    4    5    6
           6.7 11.4 10.5 13.6 17.1 19.7
   3        1
          24.6
   4        1    2    3
          28.6 35.0 33.7
   5        1    2    3    4    5    6
          31.0 28.3 28.4 33.4 36.9 35.0
   6        1    2    3
          32.3 31.5 34.9
   7        1    2    3    4
          34.7 31.1 32.0 33.3
   8        1    2    3    4    5    6
          36.7 33.4 28.3 28.1 30.9 32.5
   9        1    2    3
          34.9 28.7 24.7
  10        1
          20.4
  11        1    2    3    4    5    6
          17.7 13.9 10.5 12.1  6.7  6.8
  12        1    2    3    4    5
           4.0  4.1  4.4  4.4  2.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.4 22.9 17.1 23.2 22.2 21.3 21.1 18.4 14.1 13.9

          13.7 13.9 14.6 14.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.4 14.4 13.8 14.0 13.5 14.0 18.7 20.8 21.7 22.5

          22.3 18.6 23.3 19.5
  15        1    2    3    4    5    6    7    8    9   10

          14.4 17.6 13.4 15.1 15.6 16.6 18.5 19.9 20.3 26.0

  16        1    2    3    4    5    6    7    8    9   10

          26.0 20.1 19.8 19.4 16.6 15.5 15.1 13.5 17.6 14.7

  17        1    2    3    4    5    6    7
           4.6  9.3  8.3  8.4 10.2 12.9 10.9
  18        1    2    3    4    5    6    7
          10.7 12.8 10.2  8.4  8.2  9.5  3.4
1

 RECEIVER     LEQ(H)    L10
 128           47.0    49.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           3.0  4.7  4.7  4.4  4.4  5.0
   2        1    2    3    4    5    6
           6.9  7.3 11.5 13.9 17.1 18.9
   3        1
          24.2
   4        1    2    3
          28.3 33.8 33.8
   5        1    2    3    4    5    6
          31.1 28.3 28.4 33.4 36.7 34.8
   6        1    2    3
          31.9 31.2 34.5
   7        1    2    3    4
          34.4 30.8 31.7 33.1
   8        1    2    3    4    5    6
          36.6 33.3 28.3 28.2 30.9 32.5
   9        1    2    3
          33.8 28.7 24.3
  10        1
          19.1
  11        1    2    3    4    5    6
          17.7 14.1 11.3  9.2  7.0  7.1
  12        1    2    3    4    5
           4.3  4.5  4.7  4.7  3.1
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.1 23.1 17.5 23.3 21.9 21.8 21.4 14.1 14.4 14.2

          14.1 15.0 15.2 14.4
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.6 15.0 14.7 14.4 13.9 14.3 14.2 21.2 22.1 22.0

          22.5 18.9 23.5 19.2
  15        1    2    3    4    5    6    7    8    9   10

          13.9 17.8 13.2 13.7 15.2 16.1 16.8 18.8 20.4 26.1

  16        1    2    3    4    5    6    7    8    9   10

          26.1 20.3 18.9 17.2 16.1 15.1 13.7 13.1 17.9 14.2

  17        1    2    3    4    5    6    7
           3.2  8.1  8.8  8.8 10.4 12.1 10.3
  18        1    2    3    4    5    6    7
           9.7 12.1 10.4  8.8  8.7  7.7  3.1
1

 RECEIVER     LEQ(H)    L10
 129           46.8    49.0

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           3.7  5.3  5.3  4.9  4.9  5.5
   2        1    2    3    4    5    6
           7.5  7.8  8.5 14.3 17.0 19.5
   3        1
          23.6
   4        1    2    3
          27.6 33.8 33.6
   5        1    2    3    4    5    6
          31.1 28.3 28.3 33.3 36.5 34.5
   6        1    2    3
          31.6 30.8 34.1
   7        1    2    3    4
          34.0 30.4 31.3 32.8
   8        1    2    3    4    5    6
          36.4 33.2 28.2 28.1 30.9 32.4
   9        1    2    3
          33.8 28.0 23.1
  10        1
          19.5
  11        1    2    3    4    5    6
          17.8 14.5  9.7  7.7  7.5  7.6
  12        1    2    3    4    5
           4.9  5.0  5.3  5.3  3.8
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          19.8 23.8 18.2 22.8 22.4 22.6 19.1 14.6 15.0 14.9

          14.7 16.4 16.0 14.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.3 15.9 16.2 15.0 14.6 14.9 14.7 18.7 22.9 22.6

          21.8 19.7 24.2 19.9
  15        1    2    3    4    5    6    7    8    9   10

          14.0 18.3 13.9 14.2 14.7 15.0 16.0 18.3 20.4 26.3

  16        1    2    3    4    5    6    7    8    9   10

          26.2 20.5 18.3 15.6 14.9 14.7 14.2 13.8 18.4 14.1

  17        1    2    3    4    5    6    7
           3.7  4.2  8.9  9.5 11.1 12.7  9.5
  18        1    2    3    4    5    6    7
           9.2 12.6 11.1  9.5  8.6  4.1  3.6
1

 RECEIVER     LEQ(H)    L10
 130           46.2    48.4

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.2  5.8  5.9  5.5  5.5  5.9
   2        1    2    3    4    5    6
           7.9  8.1  7.9 14.0 16.3 20.3
   3        1
          22.6
   4        1    2    3
          26.6 33.8 30.4
   5        1    2    3    4    5    6
          28.4 26.4 27.6 33.1 36.3 34.2
   6        1    2    3
          31.2 30.4 33.8
   7        1    2    3    4
          33.6 30.1 31.0 32.5
   8        1    2    3    4    5    6
          36.1 33.1 27.7 26.7 28.7 29.5
   9        1    2    3
          33.8 27.0 21.5
  10        1
          20.2
  11        1    2    3    4    5    6
          17.4 14.5  8.0  8.1  7.9  8.1
  12        1    2    3    4    5
           5.4  5.6  5.9  5.9  4.3
  13        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          20.2 23.7 17.1 22.9 23.0 21.8 15.3 15.1 15.6 15.4

          16.4 17.2 16.1 14.2
  14        1    2    3    4    5    6    7    8    9   10

  11       12   13   14
          14.3 16.0 17.0 16.5 15.1 15.4 15.2 15.1 22.2 23.1

          22.0 18.5 24.1 20.2
  15        1    2    3    4    5    6    7    8    9   10

          14.3 18.2 14.5 14.9 15.2 15.3 15.6 15.7 15.6 25.9

  16        1    2    3    4    5    6    7    8    9   10

          25.8 15.5 15.6 15.4 15.3 15.1 14.8 14.4 18.2 14.5

  17        1    2    3    4    5    6    7
           4.1  4.6  4.5  9.2 11.7 13.1  9.8
  18        1    2    3    4    5    6    7
           9.6 13.0 11.7  8.5  4.4  4.6  4.0
1

 RECEIVER     LEQ(H)    L10
 131           45.6    47.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING     1.0 DBA

 ROADWAY  SEGMENT

   1        1    2    3    4    5    6
           4.8  6.4  6.4  6.1  6.1  6.7
   2        1    2    3    4    5    6
           8.3  8.6  8.2 13.3 15.5 20.8
   3        1
          22.1
   4        1    2    3
          24.1 33.8 29.9
   5        1    2    3    4    5    6
          28.3 25.7 25.7 30.7 35.5 33.8
   6        1    2    3
          30.8 30.0 33.4
   7        1    2    3    4
          33.2 29.7 30.6 32.1
   8        1    2    3    4    5    6
          35.5 31.1 26.1 26.1 28.8 29.0
   9        1    2    3
          33.7 24.4 21.4
  10        1
          21.1
  11        1    2    3    4    5    6
          16.0 13.8  8.3  8.5  8.4  8.8
  12        1    2    3    4    5
           6.1  6.1  6.4  6.5  4.9
  13        1    2    3    4    5    6    7    8    9   10
```

```
  11        12   13   14
           19.5 23.3 17.5 23.3 22.8 16.3 16.0 15.8 16.2 16.5

           18.2 17.6 16.1 14.3
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
           14.4 16.1 17.4 18.6 15.7 16.1 15.9 15.7 16.7 23.2

           22.4 18.9 23.7 19.7
  15         1    2    3    4    5    6    7    8    9   10

           14.7 17.7 15.0 15.4 15.7 15.8 15.9 15.9 15.8 21.7

  16         1    2    3    4    5    6    7    8    9   10

           21.7 15.7 15.8 15.7 15.7 15.6 15.3 14.9 17.8 14.9

  17         1    2    3    4    5    6    7
            4.7  5.1  5.0  4.9  9.4 13.8 10.2
  18         1    2    3    4    5    6    7
           10.0 13.6  8.6  4.8  4.9  5.1  4.5
1

 RECEIVER    LEQ(H)   L10
 132          43.6   45.8

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
            7.2  9.1  9.3  9.3  8.5  6.6
   2         1    2    3    4    5    6
            8.5  8.1  7.5 11.0 14.3 19.2
   3         1
           19.9
   4         1    2    3
           23.0 30.9 28.2
   5         1    2    3    4    5    6
           25.5 24.3 24.5 29.5 32.5 30.7
   6         1    2    3
           28.4 28.2 32.3
   7         1    2    3    4
           32.7 28.3 28.5 29.3
   8         1    2    3    4    5    6
           32.6 29.7 24.7 24.5 25.6 27.2
   9         1    2    3
           31.0 23.6 19.8
  10         1
           19.5
  11         1    2    3    4    5    6
           14.6 11.5  7.7  8.0  8.6  8.8
  12         1    2    3    4    5
            6.4  9.7  9.8  9.3  7.5
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
           18.6 22.0 16.3 21.7 16.2 16.4 16.1 15.9 19.3 18.5

           17.3 16.2 14.3 12.9
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
           12.9 14.3 16.2 17.6 18.2 19.1 16.0 15.9 16.8 16.2

           21.1 17.7 22.3 18.9
  15         1    2    3    4    5    6    7    8    9   10

           10.8 16.6 13.5 14.7 15.0 15.1 15.2 15.2 15.1 21.9

  16         1    2    3    4    5    6    7    8    9   10

           21.7 15.0 15.1 15.0 15.0 14.9 14.6 13.7 16.6 11.4

  17         1    2    3    4    5    6    7
            4.7  4.8  4.6  4.6  5.8  7.0  9.9
  18         1    2    3    4    5    6    7
            9.2  6.9  5.8  4.5  4.6  4.7  4.6
1

 RECEIVER    LEQ(H)   L10
 133          44.3   46.5

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
            7.1  9.1  5.7  5.4  5.3  5.9
   2         1    2    3    4    5    6
            7.5  7.5  7.1 11.9 14.1 19.1
   3         1
           20.8
   4         1    2    3
           25.2 31.1 30.0
   5         1    2    3    4    5    6
           27.6 24.8 25.0 29.9 32.8 31.6
   6         1    2    3
           29.0 29.0 33.0
   7         1    2    3    4
           33.1 29.0 29.1 30.1
   8         1    2    3    4    5    6
           33.0 30.1 25.2 25.0 27.7 29.0
   9         1    2    3
           31.1 25.6 19.9
  10         1
           19.1
  11         1    2    3    4    5    6
           15.2 12.4  7.2  7.5  7.5  8.1
  12         1    2    3    4    5
            5.3  5.4  5.7  7.7  7.5
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
           19.4 22.3 16.5 22.3 21.4 15.7 15.4 15.2 15.5 18.2

           16.9 16.3 14.2 12.7
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
           12.7 14.2 16.2 17.2 17.8 15.4 15.3 15.1 16.1 21.8

           21.5 17.9 22.8 19.6
  15         1    2    3    4    5    6    7    8    9   10

           13.7 16.9 13.8 14.2 14.5 14.6 14.9 15.0 14.9 25.6

  16         1    2    3    4    5    6    7    8    9   10

           25.5 14.8 14.9 14.7 14.6 14.4 14.1 13.7 17.0 13.8

  17         1    2    3    4    5    6    7
            3.7  4.2  4.1  4.0  7.4 12.6  9.1
  18         1    2    3    4    5    6    7
            8.9 12.4  6.3  4.0  4.0  4.2  3.7
1

 RECEIVER    LEQ(H)   L10
 134          46.0   48.2

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
            3.9  5.5  5.5  5.0  5.1  5.5
   2         1    2    3    4    5    6
            7.0  7.2  6.9 12.6 15.3 18.7
   3         1
           22.3
   4         1    2    3
           26.4 32.9 32.7
   5         1    2    3    4    5    6
           29.9 27.1 27.2 32.2 35.6 33.8
   6         1    2    3
           31.0 30.3 33.9
   7         1    2    3    4
           33.7 30.0 30.7 32.1
   8         1    2    3    4    5    6
           35.5 32.2 27.1 27.0 29.8 31.4
   9         1    2    3
           33.0 26.9 21.4
  10         1
           18.6
  11         1    2    3    4    5    6
           16.2 13.1  7.1  7.2  7.1  7.6
  12         1    2    3    4    5
            5.0  5.1  5.5  5.5  4.0
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
           19.4 23.2 16.5 22.3 22.4 20.0 15.1 14.9 15.3 16.3

           16.9 16.3 14.4 12.7
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
           12.7 14.4 16.2 17.2 15.7 15.2 14.9 14.8 20.5 22.4

           21.4 17.9 23.6 19.5
  15         1    2    3    4    5    6    7    8    9   10

           13.6 17.5 13.6 14.0 14.3 14.6 14.9 17.9 19.9 25.6

  16         1    2    3    4    5    6    7    8    9   10

           25.6 19.8 17.8 14.7 14.5 14.2 13.9 13.6 17.6 13.8

  17         1    2    3    4    5    6    7
            3.4  3.9  3.9  6.3 10.8 12.3  9.1
  18         1    2    3    4    5    6    7
            8.8 12.2 10.8  5.2  3.7  3.9  3.3
1

 RECEIVER    LEQ(H)   L10
 135          46.2   48.3

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
            3.4  5.0  5.0  4.6  4.6  4.8
   2         1    2    3    4    5    6
            6.7  6.9  6.6 13.0 15.7 18.1
   3         1
           22.8
   4         1    2    3
           26.8 33.4 32.6
   5         1    2    3    4    5    6
           29.9 27.1 27.2 32.3 35.7 34.0
   6         1    2    3
           31.3 30.7 34.2
   7         1    2    3    4
           34.1 30.3 31.0 32.3
   8         1    2    3    4    5    6
           35.6 32.2 27.2 27.0 29.8 31.4
   9         1    2    3
           33.4 27.2 22.8
  10         1
           18.1
  11         1    2    3    4    5    6
           16.4 13.5  7.2  6.9  6.8  7.0
  12         1    2    3    4    5
            4.4  4.6  5.0  5.1  3.5
  13         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
           19.2 23.3 17.7 22.3 21.9 22.1 14.7 14.4 14.9 14.6

           16.3 15.9 14.4 12.6
  14         1    2    3    4    5    6    7    8    9   10

  11        12   13   14
           12.6 14.4 15.8 16.3 14.3 14.7 14.4 14.4 22.3 22.0

           21.3 19.1 23.6 19.3
  15         1    2    3    4    5    6    7    8    9   10

           13.3 17.7 13.1 13.7 14.0 15.4 16.4 18.9 19.7 25.5

  16         1    2    3    4    5    6    7    8    9   10

           25.4 19.6 18.9 16.6 15.4 14.0 13.7 13.0 17.8 13.5

  17         1    2    3    4    5    6    7
            2.9  3.6  5.8  8.8 10.3 11.9  8.8
  18         1    2    3    4    5    6    7
            8.5 11.9 10.2  8.8  5.0  3.6  2.9
1

 RECEIVER    LEQ(H)   L10
 136          44.9   47.1

 ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

 ROADWAY  SEGMENT

   1         1    2    3    4    5    6
            5.9  7.8  6.3  4.5  4.4  4.8
   2         1    2    3    4    5    6
            6.3  6.3  5.8 11.2 14.1 17.0
   3         1
           21.4
```

```
  4        1    2    3
          25.3 30.2 28.6
  5        1    2    3    4    5    6
          28.6 25.8 25.9 31.0 34.5 33.0
  6        1    2    3
          30.4 30.0 33.8
  7        1    2    3    4
          33.6 29.6 30.2 31.3
  8        1    2    3    4    5    6
          34.4 31.0 25.9 25.7 28.4 27.7
  9        1    2    3
          30.2 25.7 21.2
 10        1
          17.0
 11        1    2    3    4    5    6
          14.9 11.7  6.0  6.2  6.2  7.0
 12        1    2    3    4    5
           4.3  4.5  4.9  7.6  6.3
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          18.6 22.7 15.8 21.6 21.7 18.4 14.7 14.5 15.1 17.2

          15.8 14.9 12.8 11.3
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          11.4 12.8 14.8 16.1 17.0 14.8 14.6 14.4 19.1 21.7

          20.7 17.2 23.1 18.7
 15        1    2    3    4    5    6    7    8    9   10

          12.9 16.8 12.7 13.0 13.4 14.6 16.2 18.6 18.9 24.6

 16        1    2    3    4    5    6    7    8    9   10

          24.6 18.7 18.5 16.1 14.6 13.3 13.0 12.6 16.9 13.0

 17        1    2    3    4    5    6    7
           2.5  3.1  3.0  3.4  9.9 11.4  8.3
 18        1    2    3    4    5    6    7
           8.0 11.4  9.6  3.0  2.9  3.1  2.4
1

RECEIVER    LEQ(H)   L10
137          45.1   47.2

ROADWAY SEGMENT SOUND LEVEL CONTRIBUTIONS EXCEEDING    1.0 DBA

ROADWAY  SEGMENT

  1        1    2    3    4    5    6
           6.3  8.1  8.5  7.0  5.0  5.4
  2        1    2    3    4    5    6
           6.9  6.5  6.0 11.0 14.1 17.4
  3        1
          21.4
  4        1    2    3
          26.0 32.5 30.9
  5        1    2    3    4    5    6
          28.2 25.5 25.6 30.6 34.2 32.7
  6        1    2    3
          30.2 29.7 33.6
  7        1    2    3    4
          33.4 29.4 29.9 31.0
  8        1    2    3    4    5    6
          34.1 30.6 25.5 25.4 28.1 29.7
  9        1    2    3
          32.5 26.1 21.8
 10        1
          17.4
 11        1    2    3    4    5    6
          15.1 11.6  6.2  6.5  6.7  7.6
 12        1    2    3    4    5
           5.0  5.2  8.5  8.5  6.7
 13        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          18.7 22.6 16.5 22.3 22.4 17.3 15.5 15.4 17.2 17.6

          16.3 15.0 13.0 11.5
 14        1    2    3    4    5    6    7    8    9   10

 11       12   13   14
          11.5 12.9 14.9 16.6 17.4 17.0 15.4 15.2 18.3 22.5

          21.4 17.8 23.0 18.8
 15        1    2    3    4    5    6    7    8    9   10

          13.6 17.2 13.1 13.3 13.6 15.2 17.9 18.8 18.6 24.4

 16        1    2    3    4    5    6    7    8    9   10

          24.4 18.5 18.7 18.1 15.3 13.5 13.3 13.0 17.3 13.8

 17        1    2    3    4    5    6    7
           3.0  3.4  3.4  3.6  9.6 12.2  8.9
 18        1    2    3    4    5    6    7
           8.7 12.2  9.1  3.4  3.4  3.4  3.0
```

```
                    *************************
                          OPTIMA-VU1
                    *************************
                BARRIER OPTIMIZATION PROGRAM USING
              PARTIAL SOUND ENERGIES COMPUTED BY THE
                     STAMINA 2.0 PROGRAM
           MODIFIED FROM THE FHWA VAX VERSON -- MARCH 1983

     MODIFIED TO:
        1.   PLACE BARRIER COST DATA IN A DATA FILE CALLED
             OPTCOST.DTA TO ALLOW USER TO USE COSTS OTHER THAN
             THE FHWA NATIONAL AVERAGES.
                    *************************
        MODIFIED FOR IBM-COMPATIBLE PC WITH MATH COPROCESSOR
                       IN JUNE 1991 BY
        VANDERBILT ENGINEERING CENTER FOR TRANSPORTATION
               OPERATIONS AND RESEARCH (VECTOR)
     BOX 96-B, VANDERBILT UNIVERSITY, NASHVILLE, TENNESSEE 37235
                        (615) 322-3683
                    ************************

    PROBLEM TITLE
    *************
 Meadowood - Single-Family 2nd Floor (Receivers 122-137)No 15

            EFFECTIVENESS/COST RATIO AND BARRIER HEIGHT MATRICES
            ****************************************************
BARRIER SECTION       EFFECTIVENESS/COST                CORRESPONDING
   NO  IDENT                 RATIO                       BARRIER HEIGHTS(IN
FT)

 HEIGHT INDEX  1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8
    1  1       *   0.                                0. 0.
    2  2       *   0.                                0. 0.
    3  3       *   0.                                0. 0.
    4  5       *   0.                                0. 0.
    5  6       *   0.                                0. 0.
    6  7       *   0.                                0. 0.
    7  8       *   0.                                0. 0.
    8  9       *   0.                                0. 0.
    9  10      *   0.                                0. 0.
   10  11      *   0.                                0. 0.
   11  12      *   0.                                0. 0.
   12  13      *   0.                                0. 0.
   13  15       *   5.   4.   3.   2.   2.   2.   2.  0. 3. 4. 5. 6. 7. 8.
9.
   14  16       *   7.   6.   5.   4.   3.   2.   2.  0. 3. 4. 5. 6. 7. 8.
9.
   15  17       *   6.   5.   4.   2.   1.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
   16  18       *   0.   1.   0.   0.  -1.  -2.  -3.  0. 3. 4. 5. 6. 7. 8.
9.
   17  19       *   2.   4.   3.   2.   0.  -1.  -1.  0. 3. 4. 5. 6. 7. 8.
9.
   18  20       *   5.   7.   6.   4.   3.   2.   1.  0. 3. 4. 5. 6. 7. 8.
9.
   19  21       *   4.   7.   9.   8.   6.   5.   5.  0. 3. 4. 5. 6. 7. 8.
9.
   20  22       *   5.   5.   4.   2.   1.   1.   1.  0. 3. 4. 5. 6. 7. 8.
9.
   21  24       *   3.   4.   4.   3.   3.   3.   3.  0. 3. 4. 5. 6. 7. 8.
9.
   22  25       *   4.   4.   4.   3.   3.   2.   2.  0. 3. 4. 5. 6. 7. 8.
9.
   23  26       *   1.   1.   0.   0.  -1.  -1.  -1.  0. 3. 4. 5. 6. 7. 8.
9.
   24  27       * -19. -19. -20. -20. -21. -21. -21.  0. 3. 4. 5. 6. 7. 8.
9.
   25  28       * -22. -22. -23. -23. -24. -24. -24.  0. 3. 4. 5. 6. 7. 8.
9.
   26  29       *  -3.  -3.  -4.  -4.  -4.  -5.  -5.  0. 3. 4. 5. 6. 7. 8.
9.
   27  30       *   0.   0.  -1.  -2.  -2.  -2.  -2.  0. 3. 4. 5. 6. 7. 8.
9.
   28  32       *   0.   0.   0.  -1.  -1.  -1.  -1.  0. 3. 4. 5. 6. 7. 8.
9.
   29  33       *  -1.  -1.  -2.  -3.  -3.  -3.  -3.  0. 3. 4. 5. 6. 7. 8.
9.
   30  34       *  -3.  -3.  -4.  -4.  -5.  -5.  -5.  0. 3. 4. 5. 6. 7. 8.
9.
   31  35       *  -5.  -5.  -6.  -6.  -7.  -7.  -7.  0. 3. 4. 5. 6. 7. 8.
9.
   32  36       * -12. -12. -13. -13. -14. -14. -14.  0. 3. 4. 5. 6. 7. 8.
9.
   33  37       * -13. -13. -13. -14. -14. -15. -15.  0. 3. 4. 5. 6. 7. 8.
9.
   34  38       *  -3.  -4.  -4.  -5.  -5.  -5.  -6.  0. 3. 4. 5. 6. 7. 8.
9.
   35  39       * -13. -13. -14. -14. -15. -15. -15.  0. 3. 4. 5. 6. 7. 8.
9.
   36  40       *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
   37  41       *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
   38  41b      * -22. -22. -22. -23. -23. -23. -23.  0. 3. 4. 5. 6. 7. 8.
9.
   39  42       *  -8.  -9.  -9. -10. -10. -10. -10.  0. 3. 4. 5. 6. 7. 8.
9.
   40  42b      * -12. -13. -13. -14. -14. -14. -14.  0. 3. 4. 5. 6. 7. 8.
9.
   41  43       *  -4.  -4.  -5.  -6.  -6.  -6.  -6.  0. 3. 4. 5. 6. 7. 8.
9.
   42  44       *  -6.  -6.  -7.  -8.  -8.  -8.  -8.  0. 3. 4. 5. 6. 7. 8.
9.
   43  45       *  -6.  -6.  -7.  -7.  -7.  -8.  -8.  0. 3. 4. 5. 6. 7. 8.
9.
   44  46       *  -6.  -7.  -7.  -8.  -8.  -8.  -8.  0. 3. 4. 5. 6. 7. 8.
9.
   45  47       *  -6.  -6.  -7.  -8.  -8.  -8.  -8.  0. 3. 4. 5. 6. 7. 8.
9.
   46  48       * -21. -21. -22. -22. -22. -23. -23.  0. 3. 4. 5. 6. 7. 8.
9.
   47  49       * -10. -10. -10. -11. -11. -11. -11.  0. 3. 4. 5. 6. 7. 8.
9.
   48  50       * -13. -13. -13. -14. -14. -14. -14.  0. 3. 4. 5. 6. 7. 8.
9.
   49  51       * -13. -13. -14. -15. -15. -15. -15.  0. 3. 4. 5. 6. 7. 8.
9.
   50  52       * -12. -13. -13. -14. -14. -14. -14.  0. 3. 4. 5. 6. 7. 8.
9.
   51  54       *  -3.  -3.  -4.  -5.  -5.  -5.  -5.  0. 3. 4. 5. 6. 7. 8.
9.
   52  55       *   0.   0.  -1.  -1.  -2.  -2.  -2.  0. 3. 4. 5. 6. 7. 8.
9.
   53  56       *   2.   2.   1.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
   54  57       *   2.   2.   1.   1.   1.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
   55  58       * -10. -10. -10. -10. -10. -10. -10.  0. 3. 4. 5. 6. 7. 8.
9.
   56  59       * -13. -13. -13. -14. -14. -14. -14.  0. 3. 4. 5. 6. 7. 8.
9.
   57  60       *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
   58  61       *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
   59  62      *   0.                                0. 0.
   60  63      *   0.                                0. 0.
   61  64      *   0.                                0. 0.
   62  65      *   0.                                0. 0.
   63  66      *   0.                                0. 0.
   64  67      *   0.                                0. 0.
   65  68      *   0.                                0. 0.
   66  69      *   0.                                0. 0.
   67  70      *   0.                                0. 0.
   68  72      *   0.                                0. 0.
   69  73      *   0.                                0. 0.
   70  74      *   0.                                0. 0.
   71  75      *   0.                                0. 0.
   72  76      *   0.                                0. 0.
   73  78      *   0.                                0. 0.
   74  79      *   0.                                0. 0.
   75  81      *   0.                                0. 0.
   76  82      *   0.                                0. 0.
   77  82b     *   0.                                0. 0.
   78  82c     *   0.                                0. 0.
   79  84      *   0.                                0. 0.
   80  85      *   0.                                0. 0.
   81  85b     *   0.                                0. 0.
   82  85c     *   0.                                0. 0.
   83  85d     *   0.                                0. 0.
   84  86      *   0.                                0. 0.
   85  86b     *   0.                                0. 0.
   86  87      *   0.                                0. 0.
   87  87b     *   0.                                0. 0.
   88  87c     *   0.                                0. 0.
   89  87d     *   0.                                0. 0.
   90  87e     *   0.                                0. 0.
   91  87f     *   0.                                0. 0.
   92  87g     *   0.                                0. 0.
   93  87h     *   0.                                0. 0.
   94  88       *  -5.  -5.  -6.  -6.  -6.  -7.  -7.  0. 3. 4. 5. 6. 7. 8.
9.
   95  89       *  -5.  -5.  -6.  -6.  -7.  -7.  -7.  0. 3. 4. 5. 6. 7. 8.
9.
   96  90       *  -5.  -5.  -6.  -7.  -7.  -7.  -7.  0. 3. 4. 5. 6. 7. 8.
9.
   97  91       *  -5.  -5.  -6.  -7.  -7.  -7.  -7.  0. 3. 4. 5. 6. 7. 8.
9.
   98  92       *  -7.  -7.  -8.  -8.  -9.  -9.  -9.  0. 3. 4. 5. 6. 7. 8.
9.
   99  93       * -15. -15. -15. -16. -16. -17. -17.  0. 3. 4. 5. 6. 7. 8.
9.
  100  94       *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
  101  95       *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
  102  96       *   0.   0.   0.   0.   0.   0.   0.  0. 3. 4. 5. 6. 7. 8.
9.
  103  98      *   0.                                0. 0.
  104  99      *   0.                                0. 0.
  105  100     *   0.                                0. 0.
  106  101     *   0.                                0. 0.
  107  102     *   0.                                0. 0.
  108  104     *   0.                                0. 0.
  109  105     *   0.                                0. 0.
  110  106     *   0.                                0. 0.
  111  108a    *   0.                                0. 0.
  112  108b    *   0.                                0. 0.
  113  109     *   0.                                0. 0.
  114  110     *   0.                                0. 0.

 HEIGHT INDEX  1   2    3    4    5    6    7    8   1  2  3  4  5  6  7  8

 Meadowood - Single-Family 2nd Floor (Receivers 122-137)No 15


 BARRIER HEIGHT INDEX FOR EACH BARRIER SECTION
   1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  1  1  1  1  1  2  2  2  2  2
   2  2  2  2  2  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  2  2
   2  2  2  2  2  2  2  2  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
   1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1  2  2  2  3  3  3  3
   3  3  1  1  1  1  1  1  1  1  1  1  1  1
 CORRESPONDING BARRIER HEIGHTS FOR EACH SECTION
  0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 3. 3. 3. 0. 0. 0. 0. 0. 3. 3. 3. 3. 3.
  3. 3. 3. 3. 3. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 3. 3. 3. 3. 3.
  3. 3. 3. 3. 3. 3. 3. 3. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
  0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 3. 3. 3. 4. 4. 4. 4.
  4. 4. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

     R E S U L T S
     *************

 REC    REC ID          LEQ      LEQ(Z(0))      IL
   1    122             47.3      47.3          .0
   2    123             47.5      47.5          .0
   3    124             47.7      47.8          .0
   4    125             47.9      48.0          .0
   5    126             47.6      47.6          .0
   6    127             47.3      47.4          .0
   7    128             47.2      47.2          .1
   8    129             46.9      47.0          .1
   9    130             46.6      46.7          .1
  10    131             46.2      46.3          .2
  11    132             43.9      44.0          .1
  12    133             44.3      44.4          .1
  13    134             46.1      46.2          .1
  14    135             46.3      46.3          .0
  15    136             45.0      45.0          .0
  16    137             45.1      45.2          .0

 BARRIER TYPE           COST                 AREA (SQ. FT.)
 FH-BERM                   0.                   0.
 FH-MASON              52900.               10790.
 FH-WOOD                   0.                   0.
 FH-CONC                   0.                   0.
 FH-STEEL                  0.                   0.
*******************************************************************
  TOTALS:          $   52900.               10790.

 END OF ALL CASES
```

ATTACHMENT 5

POINT SOURCES WITH BARRIER

Reference noise level at 50 feet:	70
Hours worked in 8 hour day:	8
Excess Attenuation (Hard = 0, Soft = 1.5):	0

	X	Y	Z
Location of Receiver:	7006	7387	287

	X	Y	Z
Location of Point Source:	7014	7292	290

Distance from Source to Receiver: 95.38344

	X	Y	Zbottom	Ztop
Barrier Endpoint 1:	6870	7374	290	300
Barrier Endpoint 2:	7333	7410	290	300

Distance from Receiver to Bottom of Barrier:	3.85377	D1
Distance from Bottom of Barrier to Source:	92.92834	D2
Distance from Receiver to Top of Barrier:	7.406183	T1
Distance from Top of Barrier to Source:	93.46484	T2

Path Length Difference:	5.487588
Fresnel Number:	4.863503

8 Hour Average Leq without Barrier:	**64.38994**
Insertion Loss:	19.85129
8 Hour Average Leq with Barrier:	**44.53865**