

Methuen Rotary Interchange Project
 Traffic Noise Model Results
 Northeast Quadrant Noise Barrier Analysis, Pref. Alt.

Residence	No Barrier (dBA)	With Barrier (dBA)	Reduction (dBA)
3 Smith Avenue	64.7	62.3	2.4
5 Smith Avenue	64.6	61.6	3.0
7 Smith Avenue	65	61.4	3.6
8 Smith Avenue	65.1	61.6	3.5
9 Smith Avenue	65.5	61.3	4.2
11 Smith Avenue	66.4	61.2	5.2
12 Smith Avenue	66	61.5	4.5
13 Smith Avenue	68	61.2	6.8
15 Smith Avenue	69.2	60.8	8.4
16 Smith Avenue	66.7	61.3	5.4
19 Smith Avenue	71.2	60.3	10.9
20 Smith Avenue	67.8	60.8	7.0
24 Smith Avenue	68.1	59.8	8.3
26 Smith Avenue	70.2	59.5	10.7
27 Smith Avenue	74.8	59.4	15.4

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Residence	No Barrier (dBA)	With Barrier (dBA)	Reduction (dBA)
1 Cherry Hill Circle	66.6	62.3	4.3
2 Cherry Hill Circle	65.4	61.4	4.0
5 Cherry Hill Circle	67.9	62.2	5.7
6 Cherry Hill Circle	66.4	61.6	4.8
9 Cherry Hill Circle	69.4	62.6	6.8
10 Cherry Hill Circle	67.7	61.4	6.3
14 Cherry Hill Circle	69	61.3	7.7
15 Cherry Hill Circle	71.1	63.1	8.0
17 Cherry Hill Circle	70.9	65.0	5.9
18 Cherry Hill Circle	70.5	61.3	9.2
21 Cherry Hill Circle	70.9	66.5	4.4
22 Cherry Hill Circle	72.2	61.6	10.6
26 Cherry Hill Circle	74.2	62.3	11.9
30 Cherry Hill Circle	73.8	63.1	10.7
34 Cherry Hill Circle	73.3	65.2	8.1
40 Cherry Hill Circle	73.1	68.0	5.1
66 Forest Street	70.3	67.6	2.7
84 Forest Street	72.7	70.9	1.8
88 Forest Street	74.9	74.5	0.4

Avg. IL 8.0

No. Protected 23

Bold Shaded Values represent protected receptors (4.5 or greater noise reduction)