

**Table 2.
Preliminary Noise Analysis Noise Abatement Summary**

Noise Sensitive Area ^a (NSA) - Description	Barrier Length ^c (feet)	Average Barrier Height ^c (feet)	Estimated Barrier Cost ^d	Benefited Receptor ^e	Cost Per Benefited Property	Effectiveness		Barrier Recommended ^h
						Feasible ^f	Reasonable ^g	
<u>NSA 1-Elmwood Place and NSA 3-Prosser Avenue</u> - North end of study area on west side of I-75 between E. 67 th St. and Murray Road 141 impacted residential dwelling units and 1 park ^b	3,860	12.59	\$1,214,935	131	\$9,274	Yes	Yes	Yes
<u>NSA 2-Elm Park Drive</u> – North end of study area on the east side of I-75 between Towanda Tr. and Towne St. 26 impacted residential dwelling units ^b	1,204	13.67	\$411,467	26	\$15,825	Yes	Yes	Yes
<u>NSA 4- Paddock Road</u> – north side of the Norwood Lateral Expressway Franklin and Cornith Avenues 17 impacted residential dwelling units ^b	857	11.81	\$253,029	17	\$14,884	Yes	Yes	Yes
<u>NSA 5- St. Bernard</u> – east side of I-75 just east of Vine Street 28 impacted residential dwelling units and 1 park ^b	2,479	12.36	\$766,011	29	\$26,414	Yes	Yes	Yes
<u>NSA 6-Ivorydale Jct.</u> – East side of I-75 Bank Ave. area 30 impacted residential dwelling units ^b	2,547	10.93	\$695,967	31	\$22,450	Yes	Yes	Yes
<u>NSA 7-Kessler Place</u> – East side of I-75 north of West Mitchell Avenue. 20 impacted residential dwelling units and 1 hotel dwelling units ^b	546	12.49	\$170,488	11	\$15,498	Yes	Yes	Yes
<u>NSA 11-Bates Avenue</u> – South end of the study area on the west side of I-75 north and south of Bates Avenue. 35 impacted residential dwelling units ^b	1,165	11.27	\$328,238	33	\$9,946	Yes	Yes	Yes

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						Feasible ^f	Reasonable ^g	
NSA 12- Camp Washington neighborhood – South end of the study area on the west side of I-75 just south of Hopple Street. 57 impacted residential dwelling units ^b	1,534	12.30	\$471,705	55	\$8,576	Yes	Yes	Yes
NSA 13b-Marshall Avenue – South end of the study area on the east side of I-75 north of Marshall Ave. 13 impacted residential dwelling units, 12 hotel dwelling units ^b	1,776	20.00	\$888,000	1	\$888,000	No	No	No
NSA 14-Cummingville North – On the north side of I-74 east of Beekman Street. 36 impacted residential dwelling units ^b	1,456	12.31	\$448,084	35	\$12,802	Yes	Yes	Yes
NSA 15-Cummingville South – On the south side of I-74 east of Beekman Street 37 impacted residential dwelling units ^b	1,570	10.70	\$403,122	50	\$8,062	Yes	Yes	Yes

- Notes:
- ^a NSA selection based on field reconnaissance and review of aerial photography, and Hamilton County auditor maps.
 - ^b Impact based on receptors approaching or exceeding Category B NAC as determined by TNM version 2.5.
 - ^c Barrier length and height optimized through use of TNM Version 2.5.
 - ^d Barrier cost is based on a figure of \$25.00 per square foot.
 - ^e A receptor site is considered benefited if a noise reduction of 8 dB can be obtained at a front row receptor. If an 8 dB reduction can be achieved, other receptors achieving a reduction greater than or equal to 3 dB are also considered benefited.
 - ^f Based on topography, some sites were evaluated with a 20' high barrier wall using TNM to determine if it is possible to obtain a substantial noise reduction of 5 dB or greater. A no in this column indicates a substantial noise reduction is not feasible.
 - ^g A noise barrier is considered cost reasonable if the cost per benefited receptor is less than \$35,000.
 - ^h A recommendation is made for further evaluation if the noise barrier is cost-reasonable and acoustically-feasible at this level of investigation.