

Noise Sensitive Receptors and Hourly Equivalent Noise Levels

Predicted Noise Levels, L<sub>eq(h)</sub> (dB(A))

Receptors

March 2015 TNA

February 2016 TNA Addendum

ID#	Use	NAC	D.U.s	Address	Ex.	No-Build	6-Lane	8-Lane	Hybrid	Ex.	No-Build	6-Lane	8-Lane	Hybrid
R-291	Res.	B	1	521 Old Hendersonville Rd	67	68	70	70	70	67	68	70	71	70
R-292	Res.	B	1	525 Old Hendersonville Rd	67	68	70	71	70	67	68	70	71	70
R-293	Res.	B	1	20 Pleasant Row Dr	64	65	67	67	67	64	65	67	67	67
R-294	Res.	B	1	15 Pleasant Row Dr	63	64	65	67	65	63	63	66	66	66
R-295	Res.	B	1	45 Pleasant Row Dr	62	63	65	66	65	62	63	65	66	65
R-296	Res.	B	1	526 Old Hendersonville Rd	64	65	67	68	67	64	65	R/W	R/W	R/W
R-297	Res.	B	1	522 Old Hendersonville Rd	64	64	67	68	67	64	64	R/W	R/W	R/W
R-298	Res.	B	1	19 November Ln	63	64	67	67	67	63	64	65	65	65
R-299	Res.	B	1	39 November Ln	62	63	66	66	66	62	63	R/W	R/W	R/W
R-300	Res.	B	1	37 November Ln	63	64	67	66	67	63	64	R/W	R/W	R/W
R-301	Res.	B	1	65 November Ln	64	65	67	68	67	64	65	R/W	R/W	R/W
R-302	Res.	B	1	244 Hickory Flats Dr	67	68	69	70	69	67	67	R/W	R/W	R/W
R-303	Res.	B	1	146 Hickory Flats Dr	63	64	65	66	65	62	63	R/W	R/W	R/W
R-304	Res.	B	1	60 November Ln	61	61	65	64	65	61	61	R/W	R/W	R/W
R-305	Res.	B	1	42 November Ln	60	61	63	64	63	60	61	R/W	R/W	R/W
R-306	Res.	B	1	434 Old Hendersonville Rd	60	61	64	63	64	60	60	63	64	63
R-307	Res.	B	1	211 Hickory Flats Dr	59	60	64	62	64	59	60	R/W	R/W	R/W
R-308	Res.	B	1	97 Hickory Flats Dr	61	62	64	64	64	61	62	R/W	R/W	R/W
R-309	Res.	B	1	71 Hickory Flats Dr	61	62	63	64	63	61	61	R/W	R/W	R/W
R-310	Res.	B	1	54 Hickory Flats Dr	59	60	63	63	63	60	61	67	68	67
R-311	Res.	B	1	143 Maxwell Dr	66	67	69	69	69	66	67	R/W	R/W	R/W
R-312	Res.	B	1	109 Maxwell Dr	62	63	64	65	64	63	63	R/W	R/W	R/W
R-557	Res.	B	1	48 Cureton Pl	64	66	66	66	66	65	65	68	68	68
R-558	Res.	B	1	39 Cureton Pl	64	66	66	66	66	64	65	66	66	66
R-559	Res.	B	1	31 Cureton Pl	63	65	65	65	65	63	64	64	64	64
R-560	Res.	B	1	30 Alverson Ln	56	58	58	58	58	56	56	58	58	58
R-561	Res.	B	1	24 Alverson Ln	59	61	60	60	60	59	59	61	61	60
R-562	Res.	B	1	16 Alverson Dr	63	65	64	64	64	63	63	64	64	64
R-563	Res.	B	1	53 Alverson Ln	63	64	64	64	64	62	63	64	64	64
R-A01	Res.	B	1	90 Community Rd	N/A	N/A	N/A	N/A	N/A	61	61	63	64	63
R-A02	Res.	B	1	80 Community Rd	N/A	N/A	N/A	N/A	N/A	62	62	65	66	65
R-A03	Res.	B	1	68 Community Rd	N/A	N/A	N/A	N/A	N/A	62	62	65	66	65
R-A04	Res.	B	1	89 Community Rd	N/A	N/A	N/A	N/A	N/A	62	62	64	65	64
R-A05	Res.	B	1	51 Community Rd	N/A	N/A	N/A	N/A	N/A	59	60	63	63	63
R-A06	Res.	B	1	61 Community Rd	N/A	N/A	N/A	N/A	N/A	61	61	65	65	65
R-A07	Res.	B	1	58 Community Rd	N/A	N/A	N/A	N/A	N/A	59	59	63	63	63
R-A08	Res.	B	1	42 Community Rd	N/A	N/A	N/A	N/A	N/A	58	58	62	62	62
R-A09	Res.	B	1	49 Community Rd	N/A	N/A	N/A	N/A	N/A	57	58	61	62	61
R-A10	Res.	B	1	33 Community Rd	N/A	N/A	N/A	N/A	N/A	54	55	59	60	59
R-A11	Res.	B	1	3 Community Rd	N/A	N/A	N/A	N/A	N/A	56	57	61	61	61
R-A12	Res.	B	1	5 Community Rd	N/A	N/A	N/A	N/A	N/A	57	58	61	62	61
R-A13	Res.	B	1	11 Community Rd	N/A	N/A	N/A	N/A	N/A	56	57	61	61	61
R-A14	Res.	B	1	105 Fender Dr	N/A	N/A	N/A	N/A	N/A	60	60	63	64	63
R-A15	Res.	B	1	87 Fender Dr	N/A	N/A	N/A	N/A	N/A	57	58	62	62	62
R-A16	Res.	B	1	80 Fender Dr	N/A	N/A	N/A	N/A	N/A	58	58	62	62	62
R-A17	Res.	B	1	71 Fender Dr	N/A	N/A	N/A	N/A	N/A	58	59	62	63	62
R-A18	Res.	B	1	46 Fender Dr	N/A	N/A	N/A	N/A	N/A	56	57	60	61	60
R-A19	Res.	B	1	414 Old Hendersonville Rd	N/A	N/A	N/A	N/A	N/A	57	58	61	61	61
R-A20	Res.	B	1	372 Old Hendersonville Rd	N/A	N/A	N/A	N/A	N/A	55	55	58	59	58
R-A21	Res.	B	1	362 Old Hendersonville Rd	N/A	N/A	N/A	N/A	N/A	55	55	58	58	58
R-A22	Res.	B	1	352 Old Hendersonville Rd	N/A	N/A	N/A	N/A	N/A	54	54	57	58	57
R-A23	Res.	B	1	87 Hickory Flats Dr	N/A	N/A	N/A	N/A	N/A	59	60	64	64	64
R-A24	Res.	B	1	67 Maxwell Dr	N/A	N/A	N/A	N/A	N/A	58	58	61	62	61
R-A25	Res.	B	1	53 Maxwell Dr	N/A	N/A	N/A	N/A	N/A	57	57	60	60	60
R-A26	Res.	B	1	70 Maxwell Dr	N/A	N/A	N/A	N/A	N/A	63	63	65	65	65
R-A27	Res.	B	1	54 Maxwell Dr	N/A	N/A	N/A	N/A	N/A	61	62	64	64	64
R-A28	Res.	B	1	50 Maxwell Dr	N/A	N/A	N/A	N/A	N/A	58	58	60	60	60
R-A29	Res.	B	1	48 Maxwell Dr	N/A	N/A	N/A	N/A	N/A	63	63	65	65	65
R-A30	Res.	B	1	46 Maxwell Dr	N/A	N/A	N/A	N/A	N/A	65	65	67	67	67
R-A31	Res.	B	1	41 Bicknell Dr	N/A	N/A	N/A	N/A	N/A	59	60	64	64	64
R-A32	Res.	B	1	26 Bicknell Dr	N/A	N/A	N/A	N/A	N/A	63	63	65	65	65
R-A33	Res.	B	1	56 Cuerton Pl	N/A	N/A	N/A	N/A	N/A	62	62	63	64	63
R-A34	Res.	B	1	72 Cuerton Pl	N/A	N/A	N/A	N/A	N/A	59	60	61	61	61
R-A35	Res.	B	1	76 Cuerton Pl	N/A	N/A	N/A	N/A	N/A	61	61	63	63	63
R-A36	Res.	B	1	78 Cuerton Pl	N/A	N/A	N/A	N/A	N/A	60	60	61	62	61
R-A37	Res.	B	1	68 C Ln	N/A	N/A	N/A	N/A	N/A	49	50	49	49	49
R-A38	Res.	B	1	71 C Ln	N/A	N/A	N/A	N/A	N/A	48	48	49	50	50
R-A39	Res.	B	1	65 C Ln	N/A	N/A	N/A	N/A	N/A	49	49	51	51	51
R-A40	Res.	B	1	53 Cuerton Pl	N/A	N/A	N/A	N/A	N/A	64	64	65	65	65
R-A41	Res.	B	1	51 Cuerton Pl	N/A	N/A	N/A	N/A	N/A	63	64	64	64	64
R-A42	Res.	B	1	63 Cuerton Pl	N/A	N/A	N/A	N/A	N/A	60	61	62	63	62
R-A43	Res.	B	1	61 Cuerton Pl	N/A	N/A	N/A	N/A	N/A	61	61	62	63	63
R-A44	Res.	B	1	57 Cuerton Pl	N/A	N/A	N/A	N/A	N/A	62	63	64	64	64
R-A45	Res.	B	1	59 Cuerton Pl	N/A	N/A	N/A	N/A	N/A	62	63	63	64	63
R-A46	Res.	B	1	73 Cuerton Pl	N/A	N/A	N/A	N/A	N/A	60	60	62	62	62
R-A47	Res.	B	1	71 Cuerton Pl	N/A	N/A	N/A	N/A	N/A	62	62	63	64	63
R-A48	Res.	B	1	75 Cuerton Pl	N/A	N/A	N/A	N/A	N/A	62	62	64	64	64
R-A49	Res.	B	1	77 Cuerton Pl	N/A	N/A	N/A	N/A	N/A	62	62	63	64	63

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Receptors					Predicted Noise Levels, $L_{eq(t)}$ (dB(A))									
					March 2015 TNA					February 2016 TNA Addendum				
R-A50	Res.	B	1	34 Alverson Ln	N/A	N/A	N/A	N/A	N/A	55	55	57	57	57
R-A51	Res.	B	1	38 Alverson Ln	N/A	N/A	N/A	N/A	N/A	56	57	58	59	58
R-A52	Res.	B	1	48 Alverson Ln	N/A	N/A	N/A	N/A	N/A	57	57	59	59	59
R-A53	Res.	B	1	62 Alverson Ln	N/A	N/A	N/A	N/A	N/A	56	56	58	58	58
R-A54	Res.	B	1	74 Alverson Ln	N/A	N/A	N/A	N/A	N/A	56	56	58	58	58
R-A55	Res.	B	1	13 Cuerton Pl	N/A	N/A	N/A	N/A	N/A	63	63	65	65	64
R-A56	Res.	B	1	75 Cuerton Pl	N/A	N/A	N/A	N/A	N/A	58	58	60	60	60
Predicted Traffic Noise Impacts					4 <sup>1</sup>	6 <sup>1</sup>	13 <sup>1</sup>	16 <sup>1</sup>	13 <sup>1</sup>	4 <sup>1</sup>	4 <sup>1</sup>	8 <sup>1</sup>	11 <sup>1</sup>	8 <sup>1</sup>
Change in Predicted Noise Impacts based on February 2016 TNA Addendum										0	-2	-5	-5	-5

<sup>1</sup>Predicted traffic noise level impact due to approaching or exceeding NAC.

**March 2015 TNA Predicted Traffic Noise Impacted Receptors<sup>1</sup>**

Traffic Noise Impact Types			Widening Alternatives		
	Existing	Future No-Build	6-Lane	8-Lane	Hybrid 6/8-Lane
Residential (NAC B)	208 <sup>2</sup>	218	279	325	301
Exterior - Places of Worship, Schools, Parks, etc. (NAC C)	13	13	18	19	19
2Noise impacted receptor.	221	231	297	344	320

<sup>1</sup>Per TNM 2.5 and in accordance with 23 CFR Part 772.

<sup>2</sup>Noise impacted receptor.

<sup>3</sup>The total number of predicted impacts is not duplicated if receptors are predicted to be impacted by more than one criterion.

**Addendum Change in Predicted Traffic Noise Impacted Receptors<sup>1</sup>**

Traffic Noise Impact Types			Widening Alternatives		
	Existing	Future No-Build	6-Lane	8-Lane	Hybrid 6/8-Lane
Residential (NAC B)	0	-2	-5	-5	-5
Exterior - Places of Worship, Schools, Parks, etc. (NAC C)	0	0	0	0	0
Total <sup>3,4</sup>	0	-2	-5	-5	-5

<sup>1</sup>Per TNM 2.5 and in accordance with 23 CFR Part 772.

<sup>2</sup>Noise impacted receptor.

<sup>3</sup>The total number of predicted impacts is not duplicated if receptors are predicted to be impacted by more than one criterion.

<sup>4</sup>It should be noted that the number of predicted traffic noise impacted receptors decreased in the TNA Addendum for the Build Alternatives particularly due to the number of anticipated right-of-way takes in the Addendum as a result of the proposed I-26 / US 25 (Asheville Highway) interchange improvements. However, the decrease in predicted traffic noise impacted receptors for the Future No-Build scenario is due to minor differences between the original and addendum TNM models.

**Updated Predicted Traffic Noise Impacted Receptors<sup>1</sup>**

Traffic Noise Impact Types			Widening Alternatives		
	Existing	Future No-Build	6-Lane	8-Lane	Hybrid 6/8-Lane
Residential (NAC B)	208 <sup>2</sup>	216	274	320	296
Exterior - Places of Worship, Schools, Parks, etc. (NAC C)	13	13	18	19	19
Total <sup>3</sup>	221	229	292	339	315

<sup>1</sup>Per TNM 2.5 and in accordance with 23 CFR Part 772.

<sup>2</sup>Noise impacted receptor.

<sup>3</sup>The total number of predicted impacts is not duplicated if receptors are predicted to be impacted by more than one criterion.