



APPENDIX W
FINAL NOISE TECHNICAL REPORT

FILE 4: APPENDICES C, D, E & F

TECHNICAL REPORT APPENDICES

APPENDIX A	Figures
APPENDIX B	Noise Meter Calibration and Weather Data
APPENDIX C	Ambient Noise Measurement Logs
APPENDIX D	Traffic Volumes
APPENDIX E	Predicted Sound Levels
APPENDIX F	TNM Input/Output Tables Available on CD Upon Request

Site M-1

NOISE SURVEY SHEET

M-1

EQUIPMENT:	METER <u>Norsonics 132</u>	CALIBRATOR <u>EXTECH 407744</u>
CALIBRATION:	START <u>93.2</u> dB	END <u>93.2</u> dB
RESPONSE:	FAST <u>X</u> SLOW <u> </u>	A-WEIGHTING <u>X</u> BATTERY CHECK <u>X</u>
WEATHER DATA: <u>Sunny, high 80's, light wind</u>		

TRAFFIC DATA		SR 37
ROAD	NB	SB
AUTOS	230	331
MED TRKS	9	5
HVY TRKS	4	15
BUS	2	1
MC	3	3
DURATION	20	20

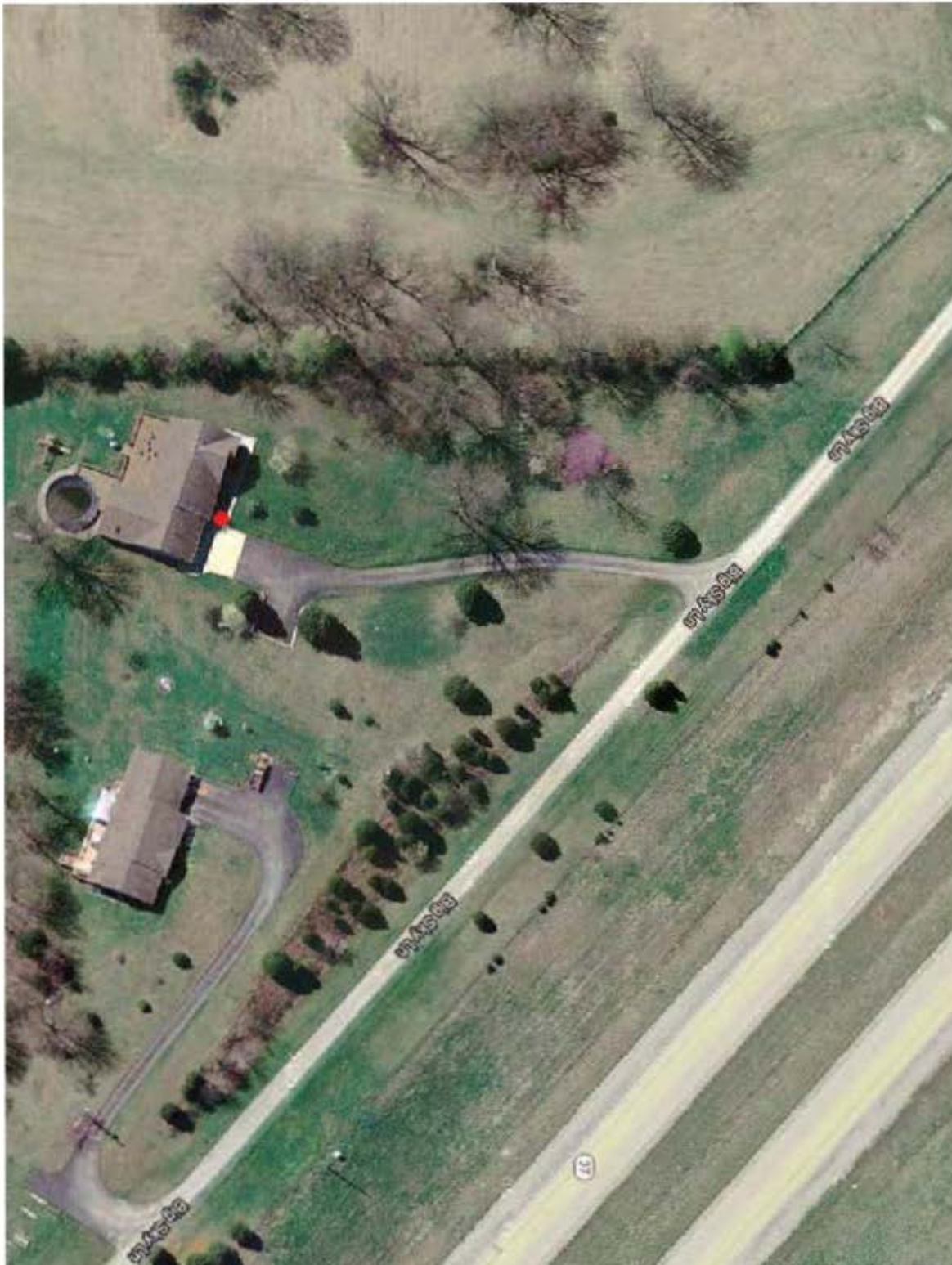
DATE:	<u>5/22/12</u>
SITE #:	<u>M-1 3139 Big Sky Lane</u>
START:	<u>3:55 pm</u>
END:	<u>4:15 pm</u>
LEQ:	<u>59.5</u>
SPEED:	<u>~ 60 mph</u>

SITE SKETCH

The site sketch depicts a road layout. At the top, two horizontal lanes are labeled 'SR 37 NB' (Northbound) and 'SR 37 SB' (Southbound). A vertical road, 'Big Sky Lane', intersects these. To the left of the intersection is a 'House'. To the right, an 'uphill' slope is indicated with an arrow. Below the intersection, a 'meter' is located near a 'House'. The sketch is drawn with simple lines and labels.

BACKGROUND NOISE	<u>None</u>
MAJOR SOURCES	<u>SR 37</u>
UNUSUAL EVENTS	<u>None</u>
OTHER NOTES	<u>House is vacant</u>

Site M-1



Site M-2

NOISE SURVEY SHEET

M-2

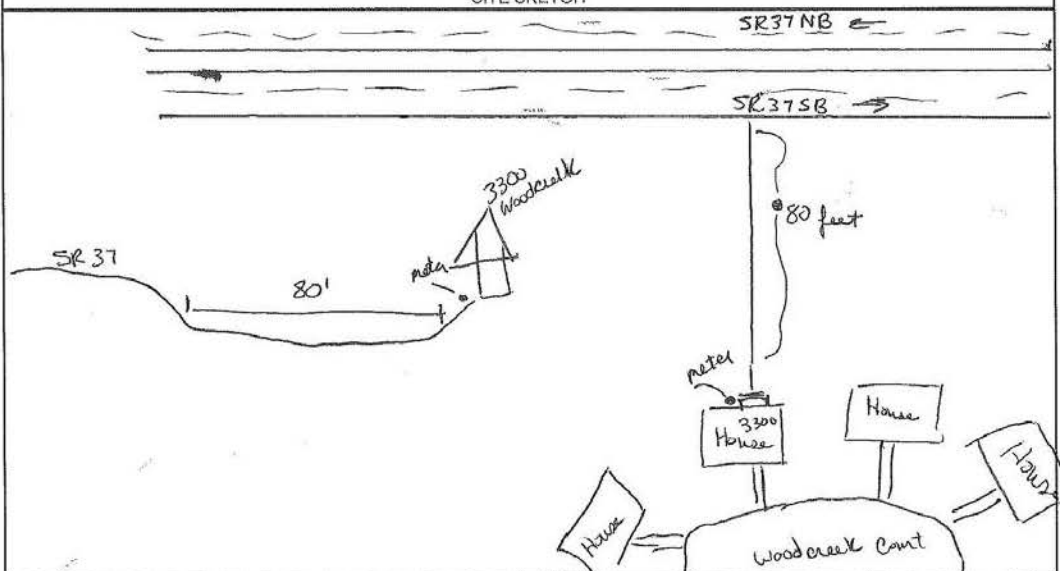
EQUIPMENT: METER Norsonics 132 CALIBRATOR EXTECH 407744
 CALIBRATION: START 93.2 dB END 93.2 dB
 RESPONSE: FAST X SLOW A-WEIGHTING X BATTERY CHECK X

WEATHER DATA: Sunny, high 80's, light wind

TRAFFIC DATA		
ROAD	<u>SR37 NB</u>	<u>SR37 SB</u>
AUTOS	<u>300</u>	<u>300</u>
MED TRKS	<u>3</u>	<u>3</u>
HVY TRKS	<u>16</u>	<u>16</u>
BUS	<u>3</u>	<u>3</u>
MC	<u>4</u>	<u>4</u>
DURATION	<u>20min</u>	<u>20min</u>

DATE: 5/22/12
 SITE #: M-2 3300 Woodcreek Court
 START: 4:31 pm
 END: 4:51 pm
 LEQ: 59.5
 SPEED: ~60 mph

SITE SKETCH



BACKGROUND NOISE None
 MAJOR SOURCES SR37
 UNUSUAL EVENTS None
 OTHER NOTES None

Site M-2



Site M-3

NOISE SURVEY SHEET

M-3

EQUIPMENT:	METER <u>Norsonics 132</u>	CALIBRATOR <u>EXTECH 407744</u>
CALIBRATION:	START <u>93.2</u> dB	END <u>93.2</u> dB
RESPONSE:	FAST <u>X</u> SLOW <u> </u>	A-WEIGHTING <u>X</u> BATTERY CHECK <u>X</u>

WEATHER DATA: High 80s, Sunny, light wind

TRAFFIC DATA		
ROAD	<u>SR 37 NB</u>	<u>SR 37 SB</u>
AUTOS	<u>315</u>	<u>618</u>
MED TRKS	<u>3</u>	<u>4</u>
HVY TRKS	<u>5</u>	<u>6</u>
BUS	<u>5</u>	<u>0</u>
MC	<u>3</u>	<u>7</u>
DURATION	<u>20</u>	<u>20</u>

DATE: 5/22/12
 SITE #: M-3 3131 S. Yonkers Street
 START: 5:08 pm
 END: 5:28 pm
 LEQ: 64.8
 SPEED: ~60 mph

SITE SKETCH

BACKGROUND NOISE
 MAJOR SOURCES SR 37
 UNUSUAL EVENTS
 OTHER NOTES

Site M-3



Site M-4

NOISE SURVEY SHEET

M-4

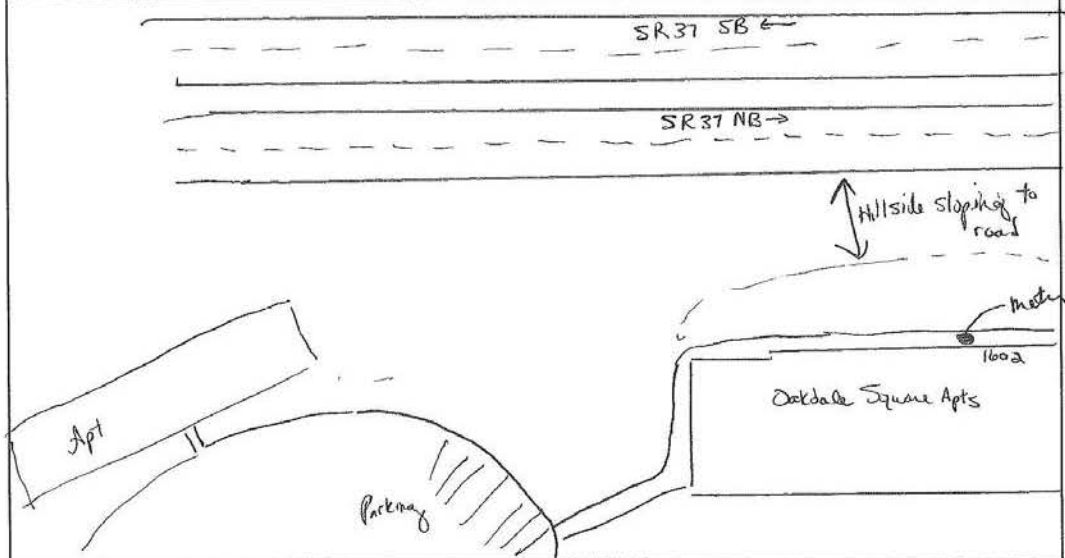
EQUIPMENT: METER Norsonics 132 CALIBRATOR EXTECH 407744
 CALIBRATION: START 93.1 dB END 93.1 dB
 RESPONSE: FAST X SLOW A-WEIGHTING X BATTERY CHECK X

WEATHER DATA: Low 50s, light wind, sunny

TRAFFIC DATA		
ROAD	SR 37 NB	SR 37 SB
AUTOS	521	246
MED TRKS	6	6
HVY TRKS	5	8
BUS	0	2
MC	5	1
DURATION	20 min	20 min

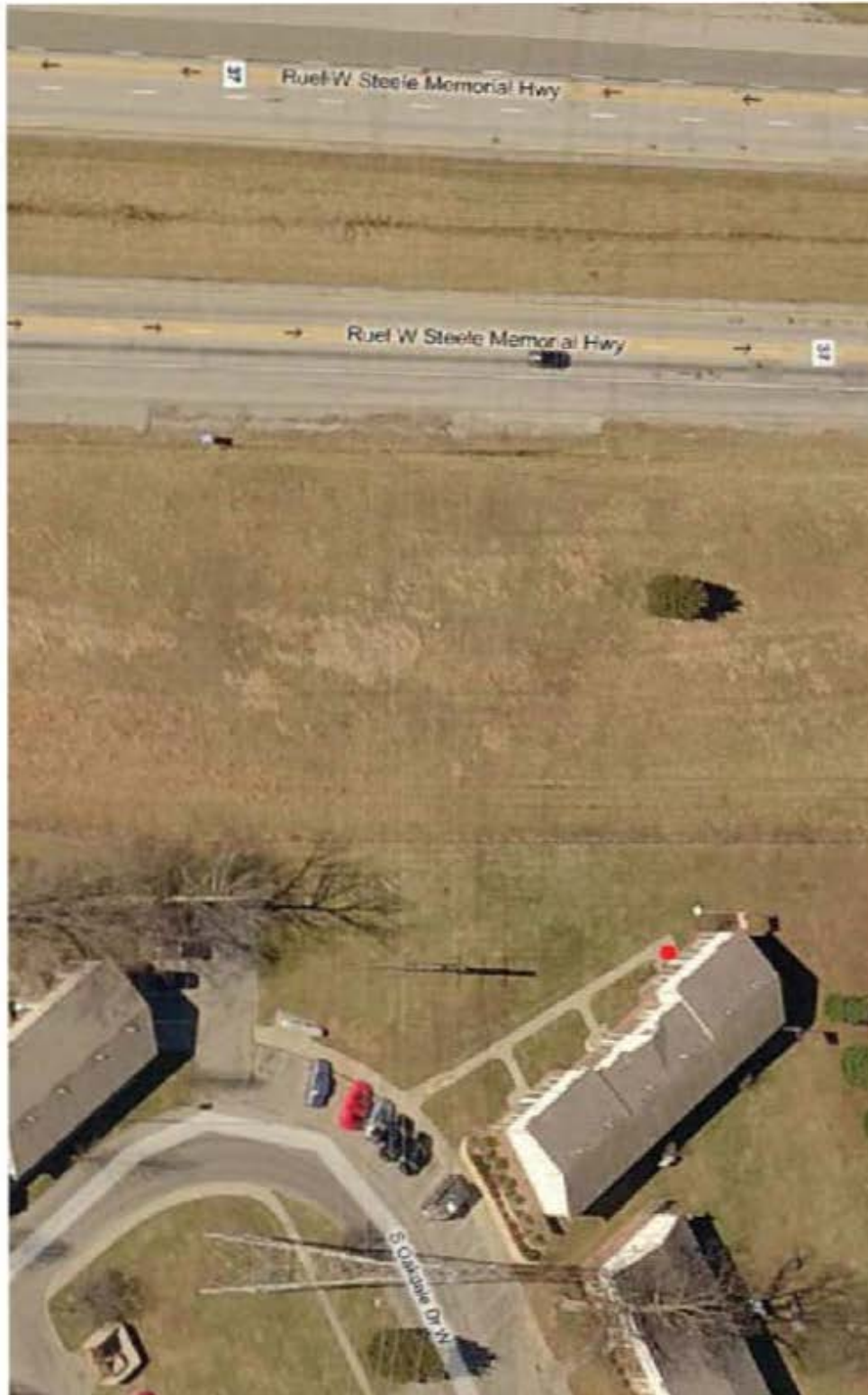
DATE: 5/22/12
 SITE #: M-4: 1602 Oakdale Square Apts
 START: 7:33 am
 END: 7:53 am
 LEQ: 61.6
 SPEED: ~60 mph

SITE SKETCH



BACKGROUND NOISE
 MAJOR SOURCES SR 37
 UNUSUAL EVENTS
 OTHER NOTES

Site M-4



Site M-5

NOISE SURVEY SHEET

M-5

EQUIPMENT:	METER <u>Norsonics 132</u>	CALIBRATOR <u>EXTECH 407744</u>
CALIBRATION:	START <u>93.1</u> dB	END <u>93.1</u> dB
RESPONSE:	FAST <u>X</u> SLOW <u> </u>	A-WEIGHTING <u>X</u> BATTERY CHECK <u>X</u>

WEATHER DATA: High 50s, Sunny, light wind

TRAFFIC DATA SR 37		
ROAD	NB	SB
AUTOS	<u>613</u>	<u>344</u>
MED TRKS	<u>14</u>	<u>6</u>
HVY TRKS	<u>13</u>	<u>24</u>
BUS	<u>1</u>	<u>4</u>
MC	<u>3</u>	<u>2</u>
DURATION	<u>20min</u>	<u>20min</u>

DATE: 5/22/12
 SITE #: M-5 Basswood Apt. Tennis Court
 START: 7:48am
 END: 8:08am
 LEQ: 60.3
 SPEED: ~60mph

SITE SKETCH

BACKGROUND NOISE 8 cars, 1 bus, 1 motorcycle passed on Basswood Ct in 20 minutes

MAJOR SOURCES SR 37

UNUSUAL EVENTS Tractor passed by moving median on SR 37

OTHER NOTES

Site M-5



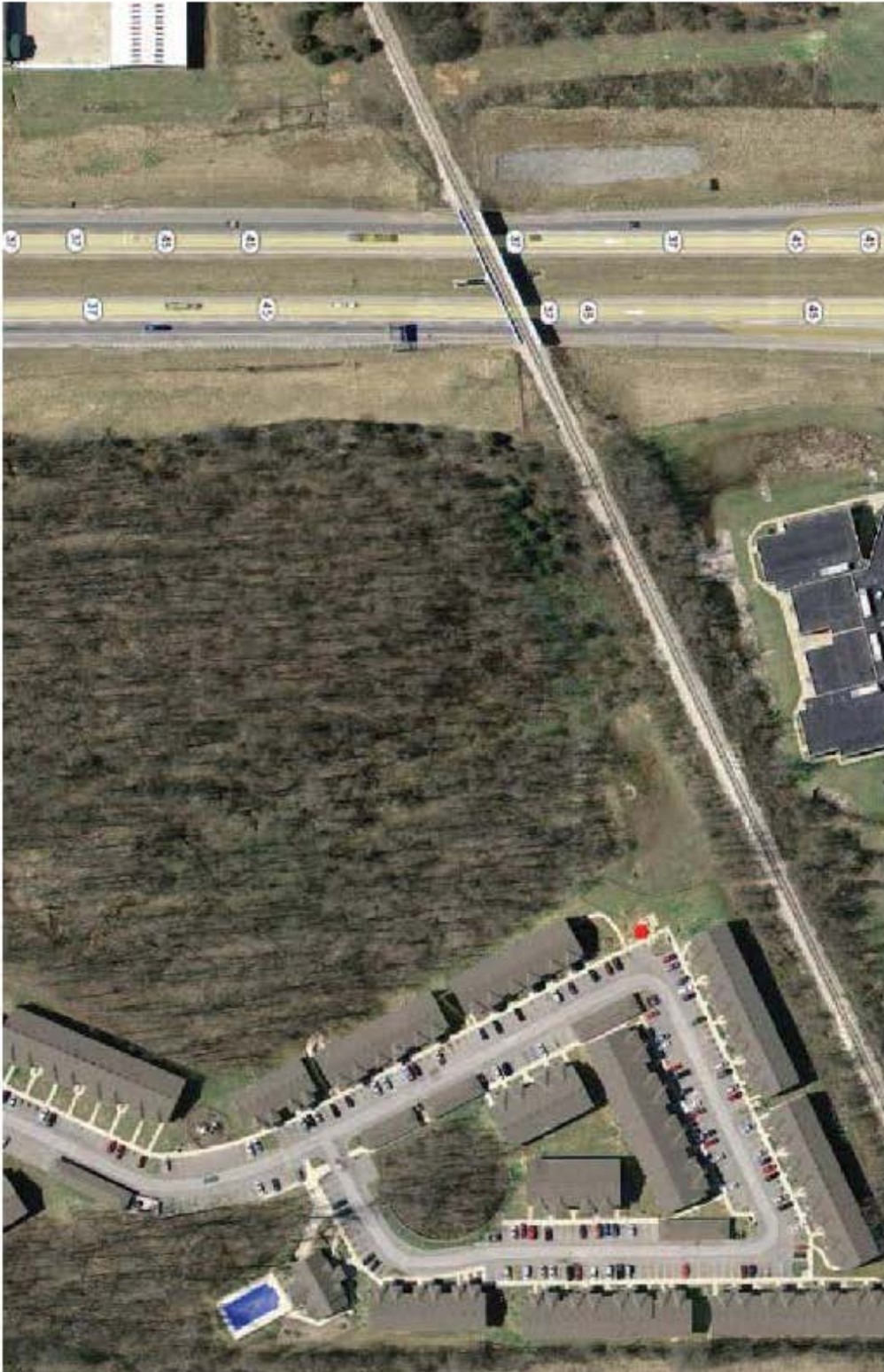
Site M-6

NOISE SURVEY SHEET

M-6

EQUIPMENT:	METER <u>Norsonics 132</u>	CALIBRATOR <u>EXTECH 407744</u>
CALIBRATION:	START <u>93.1</u> dB	END <u>93.1</u> dB
RESPONSE:	FAST <u>X</u> SLOW <u> </u>	A-WEIGHTING <u>X</u> BATTERY CHECK <u>X</u>
WEATHER DATA: <u>Mid 50s, Sunny, light wind</u>		
TRAFFIC DATA <u>SR37</u>		DATE: <u>5/22/12</u>
ROAD		SITE #: <u>M-6 Basketball Ct. Canterbury Township</u>
AUTOS		START: <u>8:17</u>
MED TRKS		END: <u>8:37</u>
HVY TRKS		LEQ: <u>51.7</u>
BUS		SPEED: <u>unknown</u>
MC		
DURATION	<u>20 min</u> <u>20 min</u>	
<p>Roadway not visible from location</p> <p>SITE SKETCH</p> <p>The sketch shows a horizontal road with two lanes labeled 'SR 37 NB' and 'SR 37 SB'. Below the road, there is a large area labeled 'Tree'. To the right of the tree, there are several rectangular shapes labeled 'Apts' (apartments). One of these shapes is labeled 'Basketball Ct'. A vertical line labeled 'Utility Line' runs along the right side of the sketch.</p>		
BACKGROUND NOISE <u> </u>		
MAJOR SOURCES <u>SR 37</u>		
UNUSUAL EVENTS <u> </u>		
OTHER NOTES <u>Road not visible from location.</u>		

Site M-6



Site M-7

NOISE SURVEY SHEET

M-7

EQUIPMENT:	METER	Norsonics 132	CALIBRATOR	EXTECH 407744
CALIBRATION:	START	93.1	dB	END 93.1
RESPONSE:	FAST	X	SLOW	
	A-WEIGHTING	X	BATTERY CHECK	X

WEATHER DATA: high 80s, sunny, light wind

TRAFFIC DATA		
ROAD	SR37 NB	
AUTOS	489	
MED TRKS	6	
HVY TRKS	11	
BUS	0	
MC	3	
DURATION	20 min	20 min

Could only see NB traffic from location

DATE: 5/22/12
 SITE #: M-7 Evergreen & Kimble House
 START: 5:40
 END: 6:00
 LEQ: 58.9
 SPEED: ~60 mph

SITE SKETCH

SR 37 NB →

Steep incline ~60' to SR 37

80'

meter

House

House

Kimble

Evergreen

BACKGROUND NOISE —

MAJOR SOURCES SR 37

UNUSUAL EVENTS Dirt bike passed by on Kimble & Evergreen

OTHER NOTES Could only see NB traffic from meter location

Site M-7



Site M-8

NOISE SURVEY SHEET

M-8

EQUIPMENT:	METER <u>Norsonics 132</u>	CALIBRATOR <u>EXTECH 407744</u>
CALIBRATION:	START <u>93.2</u> dB	END <u>93.2</u> dB
RESPONSE:	FAST <u>X</u> SLOW <u> </u>	A-WEIGHTING <u>X</u> BATTERY CHECK <u>X</u>
WEATHER DATA: <u>high 80s, sunny, no wind</u>		

TRAFFIC DATA			
ROAD	SR37NB	SR37SB	SR37 offramp
AUTOS	249	185	132
MED TRKS	2	2	2
HVY TRKS	7	7	1
BUS	1	①	1
MC	2	1	2
DURATION	20	20	20

DATE: <u>5/22/12</u>
SITE #: <u>M-8 House at end of Hickory Lane</u>
START: <u>6:18 pm</u>
END: <u>6:38 pm</u>
LEQ: <u>66.7</u>
SPEED: <u>~60 mph</u>

SITE SKETCH

The sketch shows a road layout with SR37 SB (Southbound) and SR37 NB (Northbound) lanes. An offramp branches off from the NB lane. To the left of the offramp, there is a 'Garage' and a 'House'. A 'meter' is indicated with a dot near the house. A note points to a '60' cliff, house above ramp'. To the right, SR46 is labeled vertically.

BACKGROUND NOISE	<u> </u>
MAJOR SOURCES	<u>SR37</u>
UNUSUAL EVENTS	<u>dog barked once</u>
OTHER NOTES	<u>Cancelled traffic on NB SR37 offramp, closest to house.</u>

Site M-8



Site M-9

NOISE SURVEY SHEET

M-9

EQUIPMENT: METER Norsonics 132 CALIBRATOR EXTECH 407744
 CALIBRATION: START 93.1 dB END 93.1 dB
 RESPONSE: FAST X SLOW A-WEIGHTING X BATTERY CHECK X

WEATHER DATA: Sunny, high 80s, no wind

TRAFFIC DATA		
ROAD	<u>SR 37 NB</u>	<u>SR 37 SB</u>
AUTOS	<u>138</u>	<u>165</u>
MED TRKS	<u>1</u>	<u>1</u>
HVY TRKS	<u>7</u>	<u>9</u>
BUS	<u>0</u>	<u>0</u>
MC	<u>0</u>	<u>1</u>
DURATION	<u>20min</u>	<u>20min</u>

DATE: 5/22/12

SITE #: M-9 Calvary Baptist Church

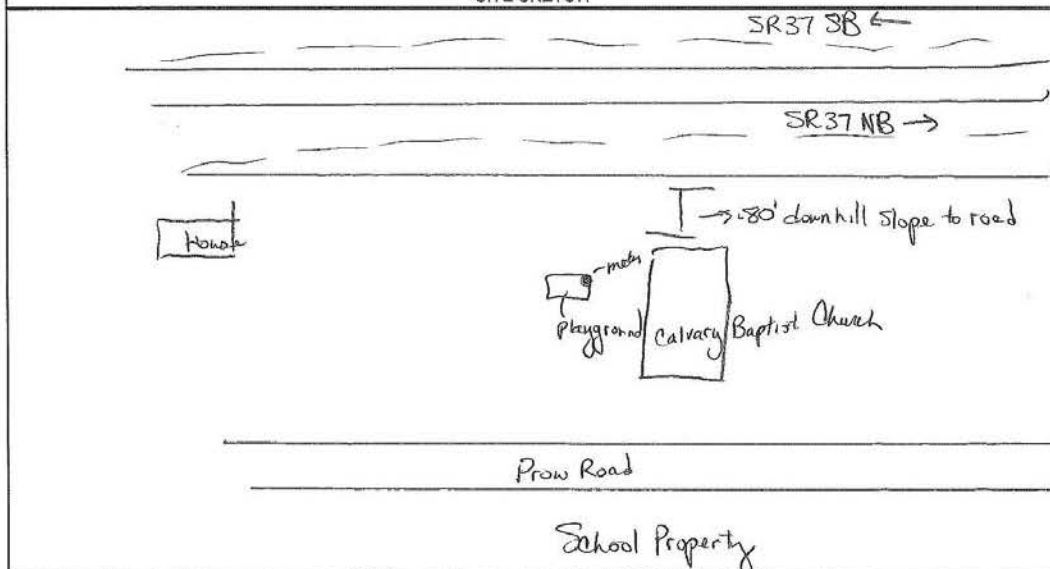
START: 6:48 pm

END: 7:08 pm

LEQ: 57.3

SPEED: ~ 60 mph

SITE SKETCH



BACKGROUND NOISE
 MAJOR SOURCES SR 37
 UNUSUAL EVENTS
 OTHER NOTES

Site M-9



Site M-10

NOISE SURVEY SHEET

M-10

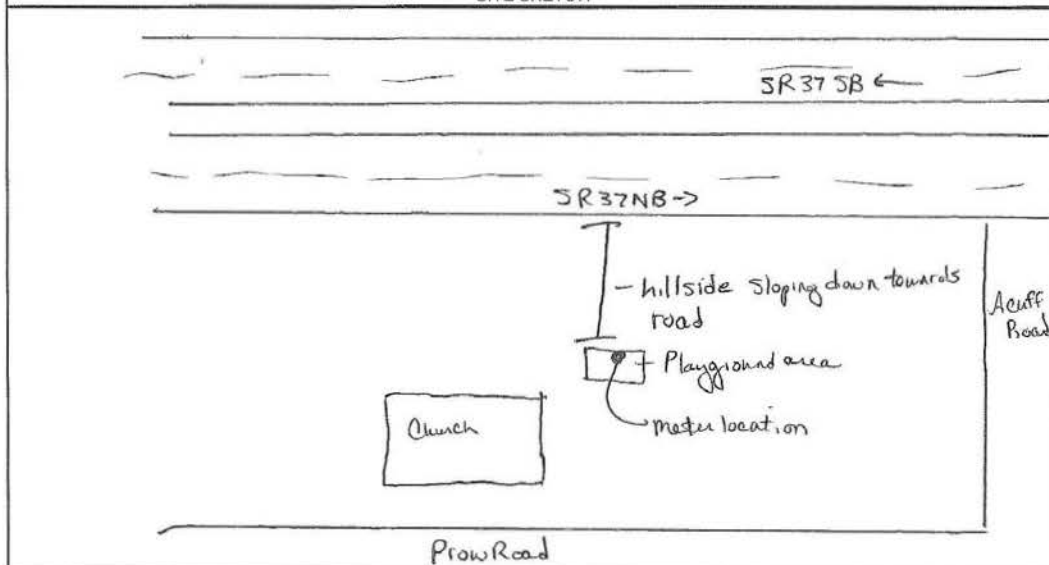
EQUIPMENT: METER Norsonics 132 CALIBRATOR EXTECH 407744
 CALIBRATION: START 93.2 dB END 93.2 dB
 RESPONSE: FAST X SLOW A-WEIGHTING X BATTERY CHECK X

WEATHER DATA: Cloudy, high 70s, light wind

TRAFFIC DATA		
ROAD	<u>SR37NB</u>	<u>SR37SB</u>
AUTOS	<u>320</u>	<u>252</u>
MED TRKS	<u>12</u>	<u>7</u>
HVY TRKS	<u>11</u>	<u>5</u>
BUS	<u>1</u>	<u>0</u>
MC	<u>2</u>	<u>2</u>
DURATION	<u>20min</u>	<u>20min</u>

DATE: 5/21/12
 SITE #: M-10 Northside Christian Church
 START: 4:27
 END: 4:47
 LEQ: 62.1
 SPEED: ~ 60 mph

SITE SKETCH



BACKGROUND NOISE
 MAJOR SOURCES SR37, Prow Road, Acuff Road
 UNUSUAL EVENTS
 OTHER NOTES

Site M-10



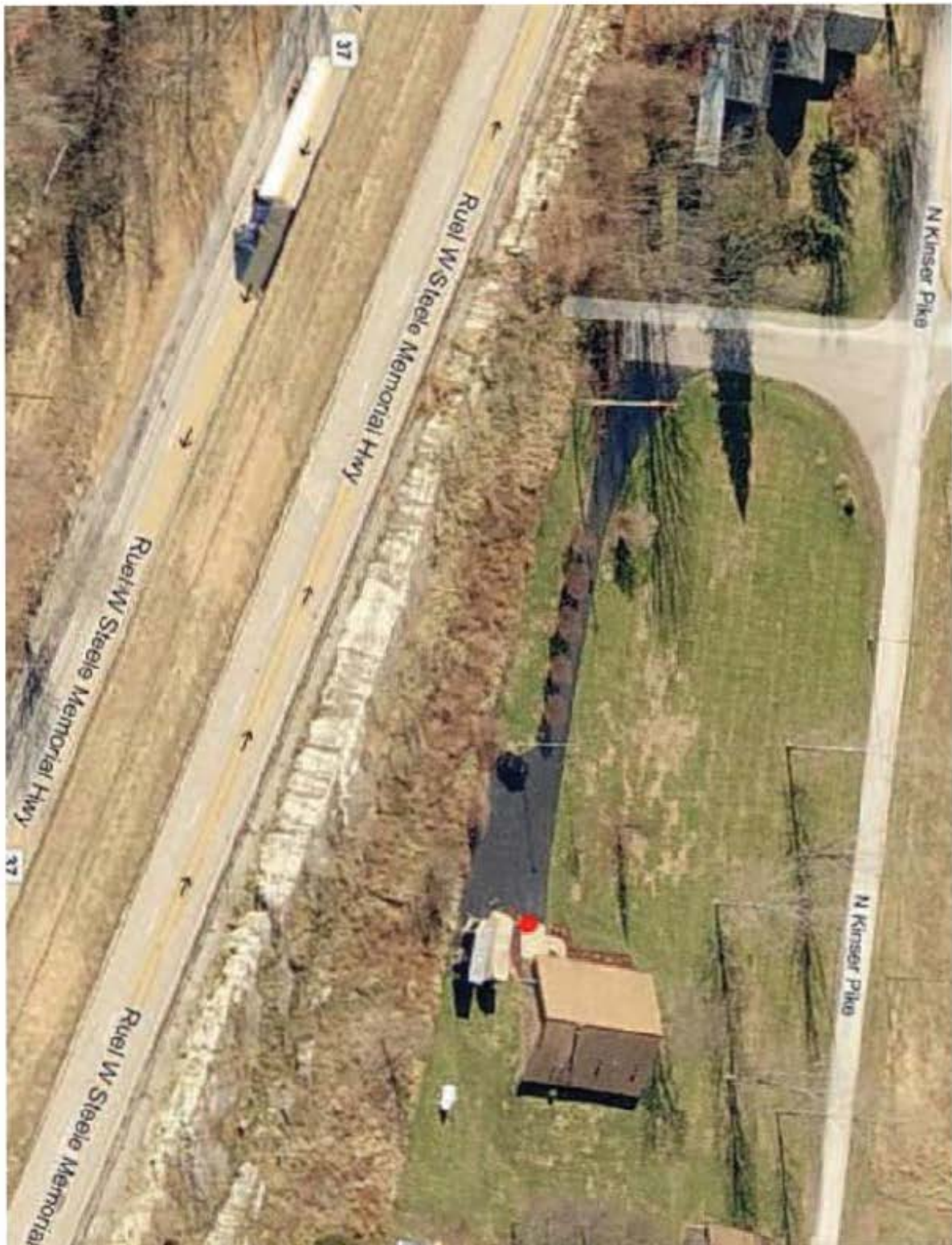
Site M-11

NOISE SURVEY SHEET

M-11

EQUIPMENT: METER <u>Norsonics 132</u>		CALIBRATOR <u>EXTECH 407744</u>	
CALIBRATION: START <u>93.1</u> dB		END <u>93.1</u> dB	
RESPONSE: FAST <u>X</u> SLOW <u> </u>		A-WEIGHTING <u>X</u> BATTERY CHECK <u>X</u>	
WEATHER DATA: <u>Sunny, high 80s, light wind</u>			
TRAFFIC DATA			
ROAD	<u>SR 37 NB</u>	<u>SR 37 SB</u>	
AUTOS	<u>262</u>	<u>225</u>	
MED TRKS	<u>12</u>	<u>8</u>	
HVY TRKS	<u>14</u>	<u>4</u>	
BUS	<u>1</u>	<u>0</u>	
MC	<u>4</u>	<u>4</u>	
DURATION	<u>20 min</u>	<u>20 min</u>	
DATE: <u>5/23/12</u>		SITE #: <u>M-11 Nakae off Kinser Place</u>	
START: <u>3:51 pm</u>		END: <u>4:11 pm</u>	
LEQ: <u>67.0</u>		SPEED: <u>~60 mph</u>	
SITE SKETCH			
<p>The sketch shows a horizontal road with two lanes labeled 'SR 37 NB ←' and 'SR 37 SB →'. Below the road, a vertical line indicates a '60' cliff down to SR 37'. To the left of the cliff is a 'Barn' and a 'House'. To the right is another 'House'. At the bottom, a horizontal line is labeled 'Kinser Place'.</p>			
BACKGROUND NOISE <u> </u>			
MAJOR SOURCES <u>SR 37</u>			
UNUSUAL EVENTS <u> </u>			
OTHER NOTES <u> </u>			

Site M-11



Site M-12

NOISE SURVEY SHEET

M-12

EQUIPMENT:	METER <u>Norsonics 132</u>	CALIBRATOR <u>EXTECH 407744</u>																								
CALIBRATION:	START <u>92.9</u> dB	END <u>92.9</u> dB																								
RESPONSE:	FAST <u>X</u> SLOW <u> </u>	A-WEIGHTING <u>X</u> BATTERY CHECK <u>X</u>																								
WEATHER DATA: <u>high 80s, Sunny, light wind</u>																										
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DURATION	<u>20</u>	<u>20</u>																								
DATE: <u>5/23/12</u> SITE #: <u>M-12 house at Purcell/Wylie</u> START: <u>6:14pm</u> END: <u>6:34pm</u> LEQ: <u>65.5</u> SPEED: <u>60mph</u>																										
SITE SKETCH 																										
BACKGROUND NOISE <u> </u> MAJOR SOURCES <u>SR 37</u> UNUSUAL EVENTS <u> </u> OTHER NOTES <u> </u>																										

Site M-12



Site M-13

NOISE SURVEY SHEET

M-13

EQUIPMENT:	METER <u>Norsonics 132</u>	CALIBRATOR <u>EXTECH 407744</u>																								
CALIBRATION:	START <u>93.1</u> dB	END <u>93.1</u> dB																								
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WEATHER DATA: <u>low 60s, sunny, light wind</u>																										
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DATE: <u>5/24/12</u> SITE #: <u>M-13</u> ¹⁰¹ <u>E. Sample Rd</u> START: <u>9:50am</u> END: <u>10:10am</u> LEQ: <u>59.2</u> SPEED: <u>~60 mph</u>																										
SITE SKETCH - See attached aerial																										
<p>The sketch shows a vertical road labeled SR37 with NB (Northbound) and SB (Southbound) lanes. To the right of SR37, a line indicates a 'Slope up from SR37'. Further right, there is a 'House' and a 'Bldg' (Building). Below these, a line represents 'E. Sample Road'. A 'Large Building' is sketched below E. Sample Road. A north arrow points upwards on the left side of the sketch.</p>																										
BACKGROUND NOISE <u> </u> MAJOR SOURCES <u>S.R. 37 & E. Sample Road</u> UNUSUAL EVENTS <u> </u> OTHER NOTES <u>12 autos and 1 Heavy Truck passed on E. Sample Road during measurement.</u>																										

Site M-13



Site M-14

NOISE SURVEY SHEET

M-14

EQUIPMENT:	METER <u>Norsonics 132</u>	CALIBRATOR <u>EXTECH 407744</u>																								
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BUS	<u>0</u>	<u>2</u>																								
MC	<u>1</u>	<u>2</u>																								
DURATION	<u>20 min</u>	<u>20 min</u>																								
DATE: <u>5/23/17</u> SITE #: <u>M-14 House on Wildrose Ct.</u> START: <u>4:34</u> END: <u>4:54</u> LEQ: <u>54.3</u> SPEED: <u>W/O</u>																										
SITE SKETCH <u>— Same as before</u> <p>The sketch shows Wildrose Ct as a horizontal line with a large loop on the left. Above it are two horizontal lines representing roads, labeled 'SR 37 NB' with an arrow pointing left and 'SR 37 SB' with an arrow pointing right. Between these roads and the house is a '100' field'. A house is drawn with a meter symbol next to it.</p>																										
BACKGROUND NOISE <u>None</u> MAJOR SOURCES <u>SR 37</u> UNUSUAL EVENTS <u>None</u> OTHER NOTES <u> </u>																										

Site M-14



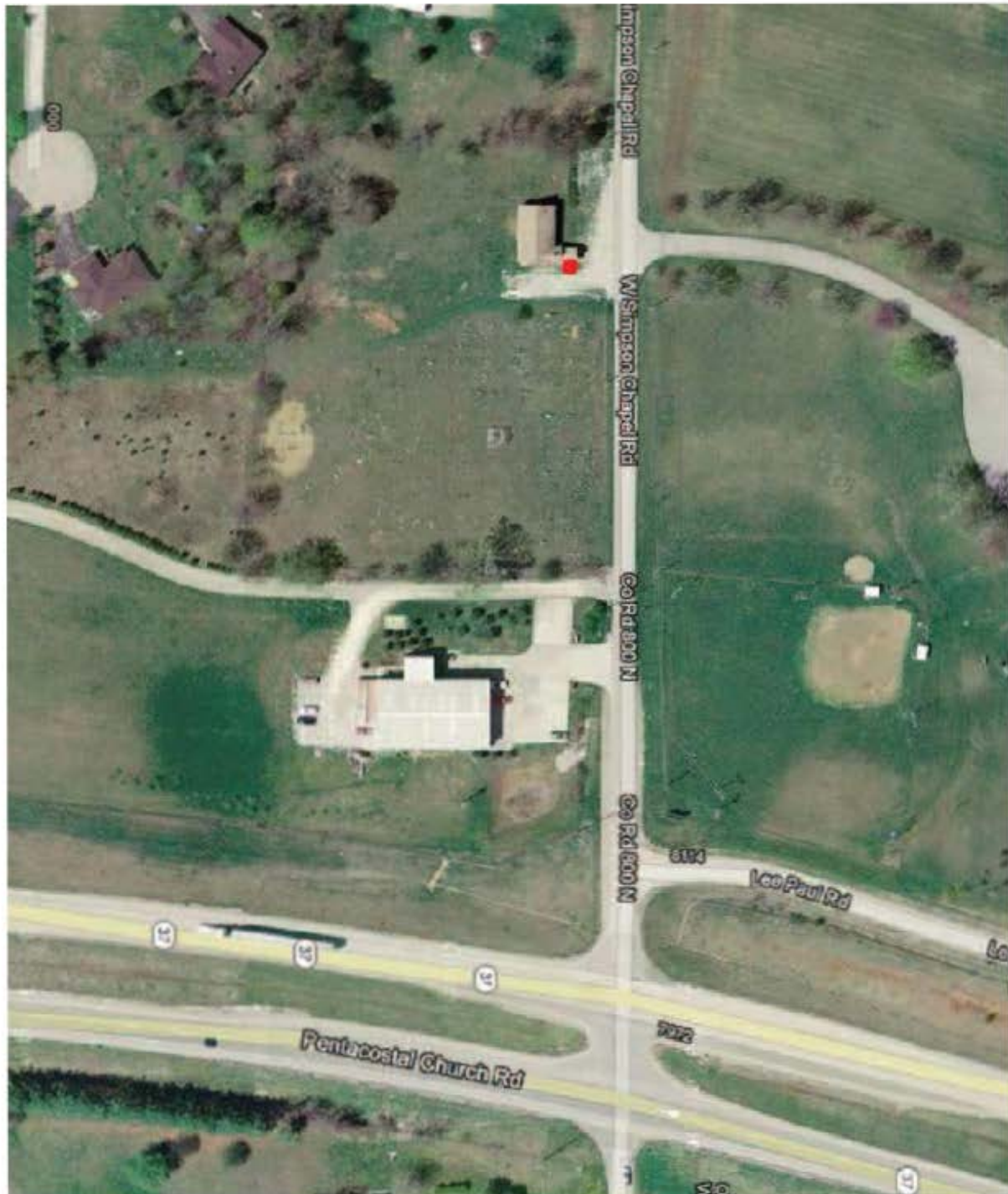
Site M-15

NOISE SURVEY SHEET

M-15

EQUIPMENT:	METER	Norsonics 132	CALIBRATOR	EXTECH 407744																								
CALIBRATION:	START	92.8 dB	END	92.8 dB																								
RESPONSE:	FAST	X	SLOW																									
	A-WEIGHTING	X	BATTERY CHECK	X																								
WEATHER DATA: <u>high 50s, sunny, no wind</u>																												
<table border="1"> <thead> <tr> <th colspan="3">TRAFFIC DATA</th> </tr> </thead> <tbody> <tr> <td>ROAD</td> <td>SR 37 NB</td> <td>SR 37 SB</td> </tr> <tr> <td>AUTOS</td> <td>257</td> <td>292</td> </tr> <tr> <td>MED TRKS</td> <td>10</td> <td>8</td> </tr> <tr> <td>HVY TRKS</td> <td>11</td> <td>21</td> </tr> <tr> <td>BUS</td> <td>0</td> <td>1</td> </tr> <tr> <td>MC</td> <td>1</td> <td>1</td> </tr> <tr> <td>DURATION</td> <td>20 min</td> <td>20 min</td> </tr> </tbody> </table>					TRAFFIC DATA			ROAD	SR 37 NB	SR 37 SB	AUTOS	257	292	MED TRKS	10	8	HVY TRKS	11	21	BUS	0	1	MC	1	1	DURATION	20 min	20 min
TRAFFIC DATA																												
ROAD	SR 37 NB	SR 37 SB																										
AUTOS	257	292																										
MED TRKS	10	8																										
HVY TRKS	11	21																										
BUS	0	1																										
MC	1	1																										
DURATION	20 min	20 min																										
DATE: <u>5/23/12</u> SITE #: <u>M-15 Simpson Chapel</u> START: <u>7:06</u> END: <u>7:26</u> LEQ: <u>58.5</u> SPEED: <u>~60</u>																												
SITE SKETCH <i>→ Same site as before</i>																												
BACKGROUND NOISE <u>Williams Church Rd → 9 cars, 1 m.c. passed by during reading</u> MAJOR SOURCES <u>SR 37</u> UNUSUAL EVENTS <u>None</u> OTHER NOTES <u></u>																												

Site M-15



Site M-16

NOISE SURVEY SHEET

M-16

EQUIPMENT:	METER	Norsonics 132	CALIBRATOR	EXTECH 407744
CALIBRATION:	START	93.1	dB	END 93.1
RESPONSE:	FAST	X	SLOW	
	A-WEIGHTING	X	BATTERY CHECK	X

WEATHER DATA: high 80s, sunny, light wind

TRAFFIC DATA		
ROAD	SR 37 NB	SR 37 SB
AUTOS	431	325
MED TRKS	11	1
HVY TRKS	10	16
BUS	0	0
MC	4	4
DURATION	20	20

DATE: 5/23/12

SITE #: M-16 House by Family Life Worship

START: 5:09 pm

END: 5:29 pm

LEQ: 64.6

SPEED: ~60 mph

SITE SKETCH

SR 37 SB

SR 37 NB

hill sloping down to road (SR 37)

House

parking

Church

Fox Hollow Road

BACKGROUND NOISE: None

MAJOR SOURCES: SR 37

UNUSUAL EVENTS:

OTHER NOTES:

Site M-16



Site M-17

NOISE SURVEY SHEET

M-17

EQUIPMENT:	METER <u>Norsonics 132</u>	CALIBRATOR <u>EXTECH 407744</u>																								
CALIBRATION:	START <u>93.1</u> dB	END <u>93.1</u> dB																								
RESPONSE:	FAST <u>X</u> SLOW <u> </u>	A-WEIGHTING <u>X</u> BATTERY CHECK <u>X</u>																								
WEATHER DATA: <u>90s, Sunny, light wind</u>																										
<table border="1"> <thead> <tr> <th colspan="3">TRAFFIC DATA <u>SR37</u></th> </tr> </thead> <tbody> <tr> <td>ROAD</td> <td><u>NB</u></td> <td><u>SB</u></td> </tr> <tr> <td>AUTOS</td> <td><u>228</u></td> <td><u>248</u></td> </tr> <tr> <td>MED TRKS</td> <td><u>3</u></td> <td><u>0</u></td> </tr> <tr> <td>HVY TRKS</td> <td><u>12</u></td> <td><u>7</u></td> </tr> <tr> <td>BUS</td> <td><u>0</u></td> <td><u>0</u></td> </tr> <tr> <td>MC</td> <td><u>2</u></td> <td><u>4</u></td> </tr> <tr> <td>DURATION</td> <td><u>20 min</u></td> <td><u>20 min</u></td> </tr> </tbody> </table>			TRAFFIC DATA <u>SR37</u>			ROAD	<u>NB</u>	<u>SB</u>	AUTOS	<u>228</u>	<u>248</u>	MED TRKS	<u>3</u>	<u>0</u>	HVY TRKS	<u>12</u>	<u>7</u>	BUS	<u>0</u>	<u>0</u>	MC	<u>2</u>	<u>4</u>	DURATION	<u>20 min</u>	<u>20 min</u>
TRAFFIC DATA <u>SR37</u>																										
ROAD	<u>NB</u>	<u>SB</u>																								
AUTOS	<u>228</u>	<u>248</u>																								
MED TRKS	<u>3</u>	<u>0</u>																								
HVY TRKS	<u>12</u>	<u>7</u>																								
BUS	<u>0</u>	<u>0</u>																								
MC	<u>2</u>	<u>4</u>																								
DURATION	<u>20 min</u>	<u>20 min</u>																								
DATE: <u>5/24/12</u> SITE #: <u>M-17</u> <i>House on Norm Anderson Road</i> START: <u>6:45 pm</u> END: <u>7:05 pm</u> LEQ: <u>60.2</u> SPEED: <u>~10 mph</u>																										
SITE SKETCH - <u>See attached aerial photo</u> 																										
BACKGROUND NOISE <u> </u> MAJOR SOURCES <u>SR37</u> UNUSUAL EVENTS <u> </u> OTHER NOTES <u> </u>																										

Site M-17



Site M-18

NOISE SURVEY SHEET

M-18

EQUIPMENT:	METER	Norsonics 132	CALIBRATOR	EXTECH 407744
CALIBRATION:	START	93.1	dB	END 93.1
RESPONSE:	FAST	X	SLOW	
	A-WEIGHTING	X	BATTERY CHECK	X

WEATHER DATA: High 60s, Sunny, light wind

TRAFFIC DATA S.R. 37		
ROAD	NB	SB
AUTOS	239	192
MED TRKS	6	20
HVY TRKS	10	19
BUS	0	0
MC	1	0
DURATION	20 min	20 min

DATE: 5/25/12
 SITE #: M-18 609 Chambers Pike
 START: 7:03 AM
 END: 7:23 AM
 LEQ: 66.9
 SPEED: ~60 mph

SITE SKETCH - See aerial photo (attached)

BACKGROUND NOISE _____
 MAJOR SOURCES SR 37, Chambers Pike
 UNUSUAL EVENTS _____
 OTHER NOTES 9 cars passed by on Chambers Pike during measurement

Site M-18



Site M-20

NOISE SURVEY SHEET

M-20

EQUIPMENT:	METER	Norsonics 132	CALIBRATOR	EXTECH 407744
CALIBRATION:	START	93.1	dB	END 93.1
RESPONSE:	FAST	X	SLOW	A-WEIGHTING X BATTERY CHECK X

WEATHER DATA: high 60s, sunny, light wind

TRAFFIC DATA SR37		
ROAD	NB	SB
AUTOS	245	290
MED TRKS	13	12
HVY TRKS	15	19
BUS	2	4
MC	3	3
DURATION	20 min	20 min

DATE: 5/25/12
 SITE #: M-20 M.H. off Turkey Track Rd
 START: 7:38 am
 END: 7:58 am
 LEQ: 65.1
 SPEED: ~60 mph

SITE SKETCH

BACKGROUND NOISE _____
 MAJOR SOURCES SR37
 UNUSUAL EVENTS _____
 OTHER NOTES _____

Site M-20



Site M-21

NOISE SURVEY SHEET

M-21

EQUIPMENT:	METER	Norsonics 132	CALIBRATOR	EXTECH 407744
CALIBRATION:	START	92.9	dB	END 92.9 dB
RESPONSE:	FAST	X	SLOW	_____
	A-WEIGHTING	X	BATTERY CHECK	X

WEATHER DATA: high 80s, sunny, light wind

TRAFFIC DATA		
ROAD	NB	SB
AUTOS	448	353
MED TRKS	7	2
HVY TRKS	15	7
BUS	1	1
MC	10	3
DURATION	20	20

DATE: 5/24/12
 SITE #: M-21 5185 Turkey Track Rd
 START: 5:27pm
 END: 5:47pm
 LEQ: 64.6
 SPEED: ~40mph

SITE SKETCH

The sketch shows a horizontal road with two lanes labeled 'SR37 NB' (left) and 'SR37 SB' (right). Below the road is a hillside sloping down to the road. A house is drawn with a 'deck' and a 'porch'. To the right of the house is a 'Bldg'. Below the hillside is 'Turkey Track Road'.

BACKGROUND NOISE	_____
MAJOR SOURCES	SR37
UNUSUAL EVENTS	_____
OTHER NOTES	_____

Site M-21



Site M-22

NOISE SURVEY SHEET

M-22

EQUIPMENT:	METER	Norsonics 132	CALIBRATOR	EXTECH 407744
CALIBRATION:	START	92.9	dB	END 98.9
RESPONSE:	FAST	X	SLOW	
	A-WEIGHTING	X	BATTERY CHECK	X

WEATHER DATA: high 80s, sunny, light wind

TRAFFIC DATA		
ROAD	NB	SB
AUTOS	367	323
MED TRKS	6	5
HVY TRKS	17	14
BUS	1	0
MC	5	4
DURATION	20 min	20 min

DATE: 5/24/12
 SITE #: M-22 3710 Paragon Rd
 START: 5:02pm
 END: 5:22pm
 LEQ: 66.9
 SPEED: ~60 mph

SITE SKETCH

The sketch shows a horizontal road with two lanes labeled 'SR37 NB' (Northbound) and 'SR37 SB' (Southbound). Below the road, a vertical line represents a 'hillside, steep slope down to SR37'. To the left of the hillside, there is a 'House' and a 'Carport' connected by a 'driveway'. The house and carport are drawn as simple rectangles.

BACKGROUND NOISE	
MAJOR SOURCES	SR 37
UNUSUAL EVENTS	
OTHER NOTES	

Site M-22



Site M-23

NOISE SURVEY SHEET

M-23

EQUIPMENT:	METER <u>Norsonics 132</u>	CALIBRATOR <u>EXTECH 407744</u>
CALIBRATION:	START <u>93.9</u> dB	END <u>93.1</u> dB
RESPONSE:	FAST <u>X</u> SLOW <u> </u>	A-WEIGHTING <u>X</u> BATTERY CHECK <u>X</u>
WEATHER DATA: <u>High 80s, Sunny, light wind</u>		
TRAFFIC DATA <u>SR37</u>		
ROAD	<u>NB</u>	<u>SB</u>
AUTOS	<u>336</u>	<u>317</u>
MED TRKS	<u>7</u>	<u>5</u>
HVY TRKS	<u>2</u>	<u>12</u>
BUS	<u>0</u>	<u>0</u>
MC	<u>5</u>	<u>3</u>
DURATION	<u>20</u>	<u>20</u>
DATE: <u>5/24</u>		
SITE #: <u>M-23 → off SR37</u>		
START: <u>6:07 pm</u>		
END: <u>6:27 pm</u>		
LEQ: <u>62.0</u>		
SPEED: <u>~60 mph</u>		
SITE SKETCH		
<p>SR37 ← SB</p> <p>SR37 → NB</p> <p>hill in front of house that sloped up going North, w/ trees.</p> <p>Playground</p> <p>Garage</p> <p>House</p>		
BACKGROUND NOISE <u> </u>		
MAJOR SOURCES <u>SR37</u>		
UNUSUAL EVENTS <u>helicopter flew over ~30 seconds</u>		
OTHER NOTES <u> </u>		

Site M-23



Site M-24

NOISE SURVEY SHEET

M-24

EQUIPMENT:		METER <u>Norsonics 132</u>	CALIBRATOR <u>EXTECH 407744</u>
CALIBRATION:		START <u>93.1</u> dB	END <u>93.1</u> dB
RESPONSE:		FAST <u>X</u> SLOW <u> </u>	A-WEIGHTING <u>X</u> BATTERY CHECK <u>X</u>
WEATHER DATA: <u>high 60s, sunny, no wind</u>			
TRAFFIC DATA			
ROAD	<u>SR37 NB</u>	<u>SR37 SB</u>	
AUTOS	<u>252</u>	<u>279</u>	
MED TRKS	<u>9</u>	<u>5</u>	
HVY TRKS	<u>17</u>	<u>17</u>	
BUS	<u>0</u>	<u>2</u>	
MC	<u>2</u>	<u>0</u>	
DURATION	<u>20</u>	<u>20</u>	
		DATE: <u>5/23/12</u>	
		SITE #: <u>M-24 New Testament Bpt. Church</u>	
		START: <u>7:44am</u>	
		END: <u>8:04am</u>	
		LEQ: <u>69.6</u>	
		SPEED: <u>~60mph</u>	
SITE SKETCH			
<p>The sketch shows a horizontal road with two lanes labeled 'SR37 NB' (left) and 'SR37 SB' (right). Below the road is a 'parking' area. To the right of the parking area is a 'Church' building. A 'grass field' is indicated by a vertical line above the church. The church has a 'porch' and a 'patio'.</p>			
BACKGROUND NOISE <u> </u>			
MAJOR SOURCES <u>SR37</u>			
UNUSUAL EVENTS <u> </u>			
OTHER NOTES <u> </u>			

Site M-24



Site M-25

NOISE SURVEY SHEET

M-25

EQUIPMENT:		METER <u>Norsonics 132</u>	CALIBRATOR <u>EXTECH 407744</u>
CALIBRATION:		START <u>93.1</u> dB	END <u>93.1</u> dB
RESPONSE:		FAST <u>X</u> SLOW <u> </u>	A-WEIGHTING <u>X</u> BATTERY CHECK <u>X</u>
WEATHER DATA: <u>high 80s, sunny, light wind</u>			
TRAFFIC DATA		SR37	
ROAD	NB	SB	
AUTOS	402	378	
MED TRKS	5	4	
HVY TRKS	15	8	
BUS	0	2	
MC	4	3	
DURATION	20	20	
		DATE: <u>5/24/12</u>	
		SITE #: <u>M-25 3940 Old SR37</u>	
		START: <u>4:24</u>	
		END: <u>4:44</u>	
		LEQ: <u>62.9</u>	
		SPEED: <u>~60 mph</u>	
SITE SKETCH			
BACKGROUND NOISE		<u>Kids + dog barking in distance</u>	
MAJOR SOURCES		<u>SR37</u>	
UNUSUAL EVENTS		<u> </u>	
OTHER NOTES		<u> </u>	

Site M-25



Site M-26

NOISE SURVEY SHEET

M-26

EQUIPMENT:	METER <u>Norsonics 132</u>	CALIBRATOR <u>EXTECH 407744</u>																								
CALIBRATION:	START <u>93.1</u> dB	END <u>93.1</u> dB																								
RESPONSE:	FAST <u>X</u> SLOW <u> </u>	A-WEIGHTING <u>X</u> BATTERY CHECK <u>X</u>																								
WEATHER DATA: <u>high 80s, Sunny, light wind</u>																										
<table border="1"> <thead> <tr> <th colspan="3">TRAFFIC DATA</th> </tr> </thead> <tbody> <tr> <td>ROAD</td> <td><u>SR37 NB</u></td> <td><u>SR37 SB</u></td> </tr> <tr> <td>AUTOS</td> <td><u>259</u></td> <td><u>366</u></td> </tr> <tr> <td>MED TRKS</td> <td><u>4</u></td> <td><u>2</u></td> </tr> <tr> <td>HVY TRKS</td> <td><u>3</u></td> <td><u>10</u></td> </tr> <tr> <td>BUS</td> <td><u>0</u></td> <td><u>2</u></td> </tr> <tr> <td>MC</td> <td><u>1</u></td> <td><u>0</u></td> </tr> <tr> <td>DURATION</td> <td><u>20</u></td> <td><u>20</u></td> </tr> </tbody> </table>			TRAFFIC DATA			ROAD	<u>SR37 NB</u>	<u>SR37 SB</u>	AUTOS	<u>259</u>	<u>366</u>	MED TRKS	<u>4</u>	<u>2</u>	HVY TRKS	<u>3</u>	<u>10</u>	BUS	<u>0</u>	<u>2</u>	MC	<u>1</u>	<u>0</u>	DURATION	<u>20</u>	<u>20</u>
TRAFFIC DATA																										
ROAD	<u>SR37 NB</u>	<u>SR37 SB</u>																								
AUTOS	<u>259</u>	<u>366</u>																								
MED TRKS	<u>4</u>	<u>2</u>																								
HVY TRKS	<u>3</u>	<u>10</u>																								
BUS	<u>0</u>	<u>2</u>																								
MC	<u>1</u>	<u>0</u>																								
DURATION	<u>20</u>	<u>20</u>																								
DATE: <u>5/21/12</u> SITE #: <u>M-26 Hillview Motel Room door M-10</u> START: <u>6:00pm</u> END: <u>6:20pm</u> LEQ: <u>68.1</u> SPEED: <u>60mph</u>																										
SITE SKETCH 																										
BACKGROUND NOISE <u> </u> MAJOR SOURCES <u>SR 37</u> UNUSUAL EVENTS <u> </u> OTHER NOTES <u> </u>																										

Site M-26



Site M-27

NOISE SURVEY SHEET

M-27

EQUIPMENT:	METER	Norsonics 132	CALIBRATOR	EXTECH 407744
CALIBRATION:	START	92.9	dB	END 92.9
RESPONSE:	FAST	X	SLOW	_____
	A-WEIGHTING	X	BATTERY CHECK	X

WEATHER DATA: high 80s, sunny, light wind

TRAFFIC DATA		
ROAD	SR37 NB	SR37 SB
AUTOS	343	314
MED TRKS	9	10
HVY TRKS	12	8
BUS	0	7
MC	1	1
DURATION	20	20

DATE: 5/28/12
 SITE #: M-27, 925 S. Plaza Drive, Martinsville
 START: 3:45pm
 END: 4:12pm
 LEQ: 62.3
 SPEED: ~60mph

SITE SKETCH

SR37 NB
 SR37 SB
 SB off-ramp to Martinsville
 open quarry area
 open field
 meter
 House
 H
 H
 H
 H
 H
 Plaza Drive

BACKGROUND NOISE _____
 MAJOR SOURCES SR37
 UNUSUAL EVENTS Paused meter for weed eater in distance
 OTHER NOTES _____

Site M-27



Site M-28

NOISE SURVEY SHEET

M-28

EQUIPMENT:	METER	Norsonics 132	CALIBRATOR	EXTECH 407744
CALIBRATION:	START	93.1	dB	END 93.1
RESPONSE:	FAST	X	SLOW	A-WEIGHTING X BATTERY CHECK X
WEATHER DATA: high 50s, sunny, no wind				
TRAFFIC DATA SR 37			DATE: 5/23/12	
ROAD	NB	SB	SITE #: M-28	
AUTOS	—	—	START: 8:38am	
MED TRKS	—	—	END: 8:58am	
HVY TRKS	—	—	LEQ: 51.7	
BUS	—	—	SPEED: ?	
MC	—	—		
DURATION	20min	20min		
<div style="display: flex; justify-content: space-between;"> <div> <p>could not see road</p> </div> <div> <p>→ softball field</p> </div> </div>				
SITE SKETCH				
BACKGROUND NOISE <u>Prow Rd - ~15 cars pass during measurement</u> MAJOR SOURCES <u>SR 37</u> UNUSUAL EVENTS <u>—</u> OTHER NOTES <u>—</u>				

Site M-28



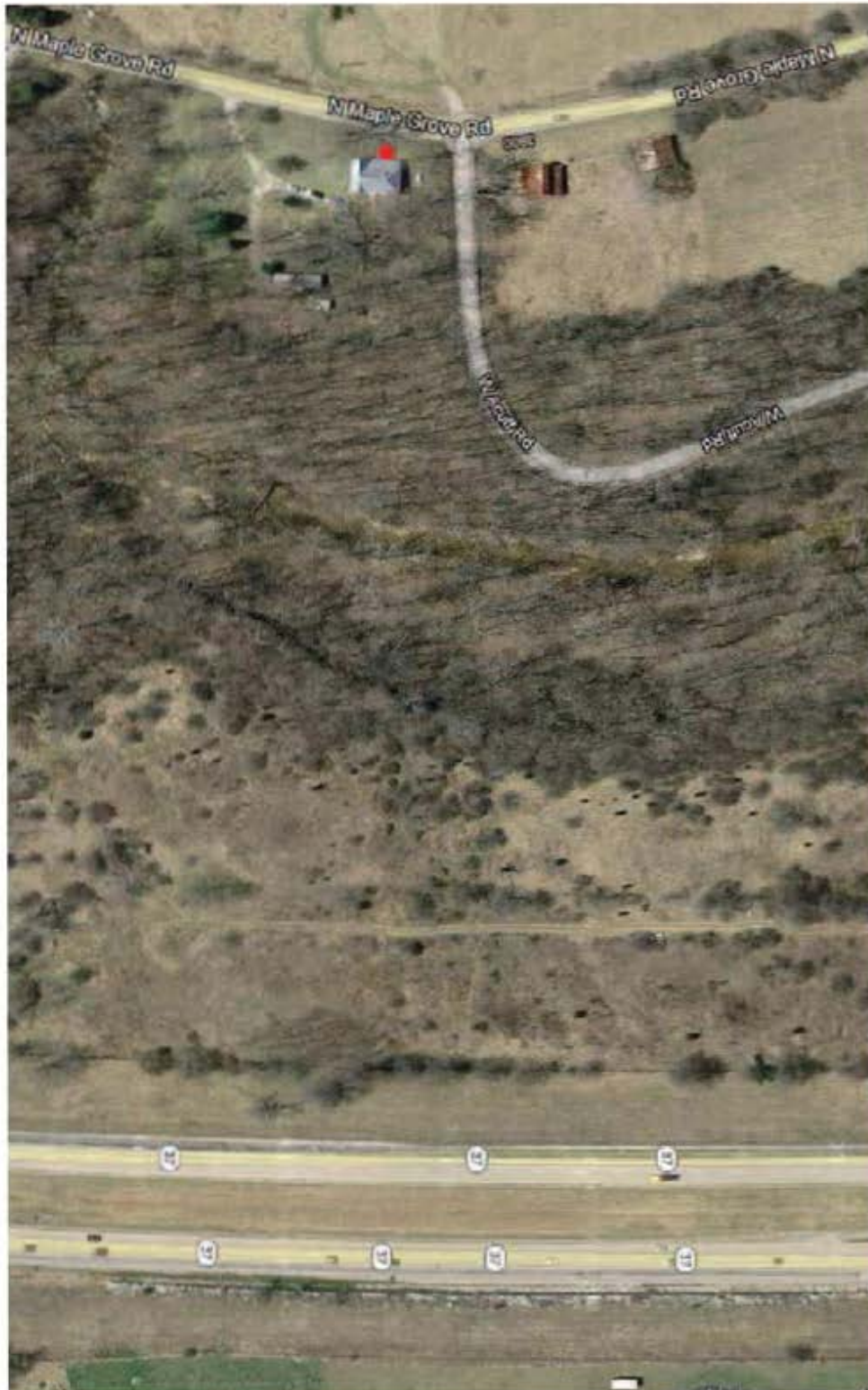
Site M-29

NOISE SURVEY SHEET

M-29

EQUIPMENT:	METER <u>Norsonics 132</u>	CALIBRATOR <u>EXTECH 407744</u>
CALIBRATION:	START <u>93.1</u> dB	END <u>93.1</u> dB
RESPONSE:	FAST <u>X</u> SLOW <u> </u>	A-WEIGHTING <u>X</u> BATTERY CHECK <u>X</u>
WEATHER DATA: <u>60s, Sunny, no wind</u>		
TRAFFIC DATA <u>→ Road not visible</u>		DATE: <u>5/24/12</u>
ROAD		SITE #: <u>M-29 3888 N. Maple Grove</u>
AUTOS		START: <u>8:35</u>
MED TRKS		END: <u>8:55</u>
HVY TRKS		LEQ: <u>55.8</u>
BUS		SPEED: <u>?</u>
MC		
DURATION	<u>20 min</u> <u>20 min</u>	
<p>SR 37 in distance SITE SKETCH</p>		
<p>BACKGROUND NOISE <u> </u></p> <p>MAJOR SOURCES <u>SR 37; 10 cars + 1 MT passed by on Acuff Rd; 33 cars passed</u></p> <p>UNUSUAL EVENTS <u>by on Maple Grove Rd</u></p> <p>OTHER NOTES <u> </u></p>		

Site M-29



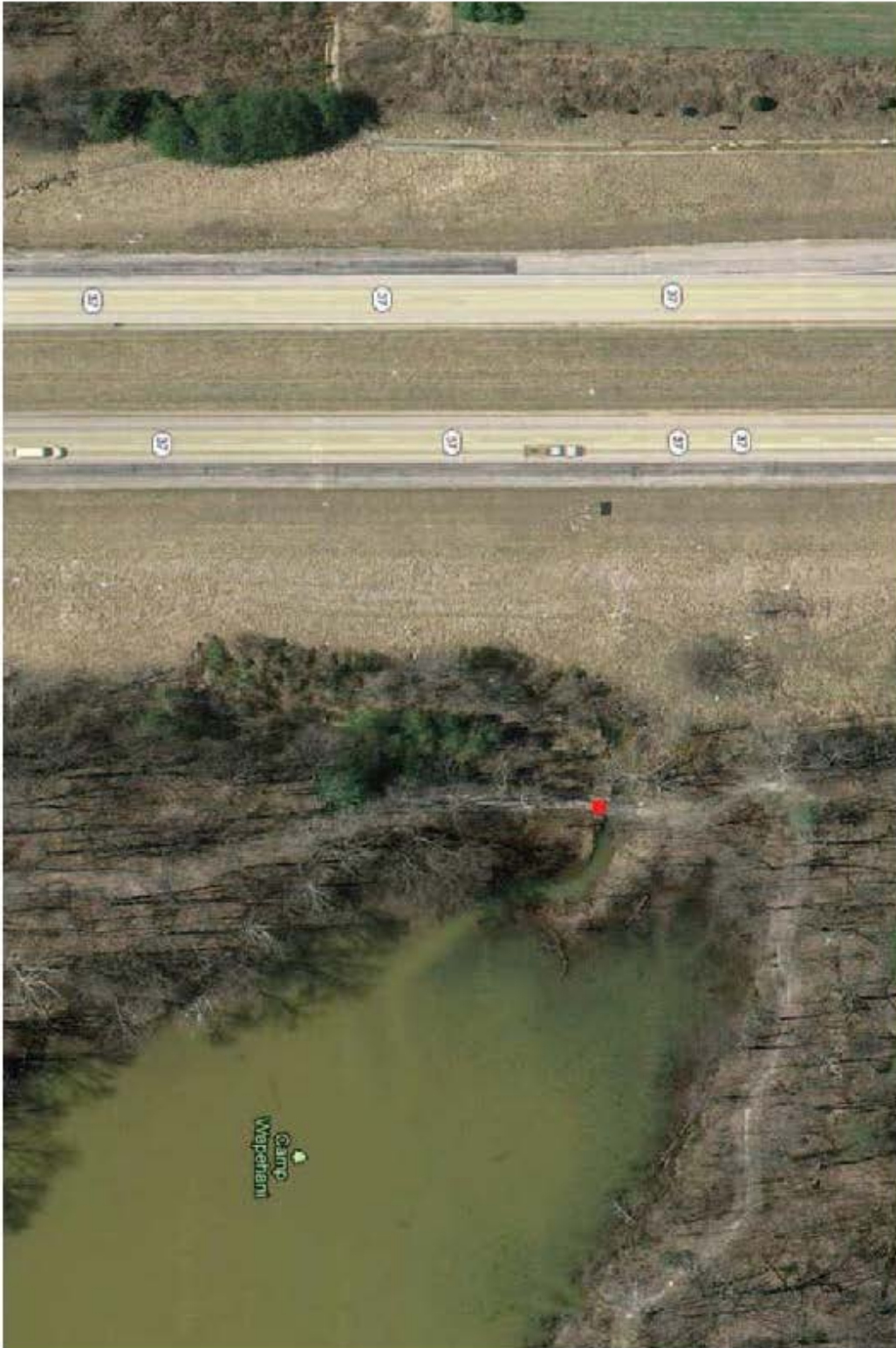
Site M-31

NOISE SURVEY SHEET

M-31

EQUIPMENT:	METER	Norsonics 132	CALIBRATOR	EXTECH 407744
CALIBRATION:	START	93.1	dB	END 93.1
RESPONSE:	FAST	X	SLOW	A-WEIGHTING X BATTERY CHECK X
WEATHER DATA: 105, Sunny, No wind				
TRAFFIC DATA → Road not visible			DATE: 5/29/12	
ROAD			SITE #: M-31 Wapemuni Park	
AUTOS			START: 7:22 4:48	
MED TRKS			END: 7:48	
HVY TRKS			LEQ: 57.7	
BUS			SPEED: ?	
MC				
DURATION	20 min	20 min		
SITE SKETCH				
<p>SR 37 NB →</p> <p>Wooded area</p> <p>Lake</p> <p>meter on bike trail wood bridge</p> <p>hillside</p>				
BACKGROUND NOISE _____				
MAJOR SOURCES SR 37 _____				
UNUSUAL EVENTS _____				
OTHER NOTES _____				

Site M-31



Site M-32

NOISE SURVEY SHEET

M-32

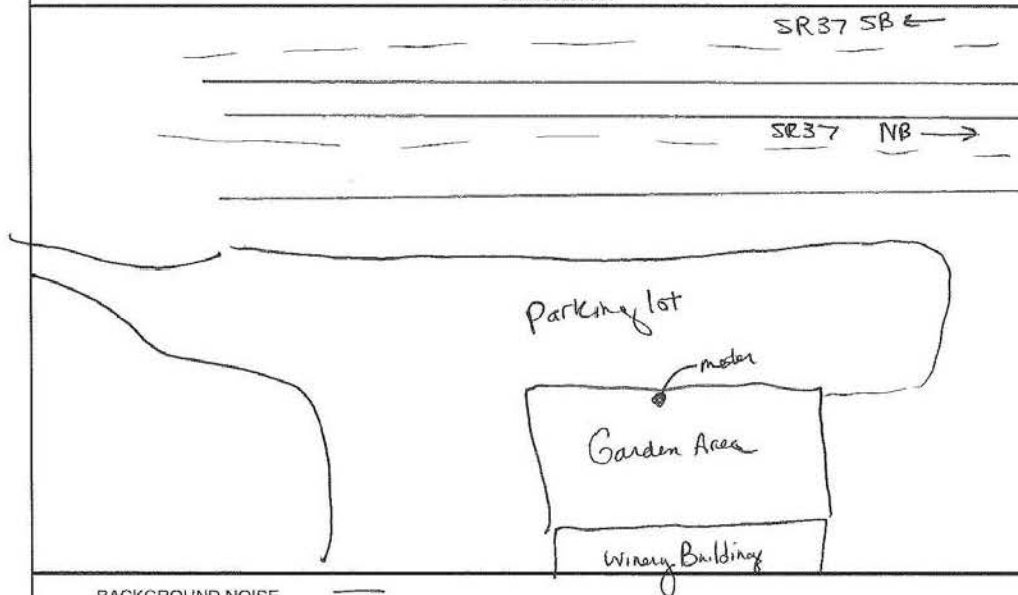
EQUIPMENT: METER Norsonics 132 CALIBRATOR EXTECH 407744
 CALIBRATION: START 93.1 dB END 93.1 dB
 RESPONSE: FAST X SLOW A-WEIGHTING X BATTERY CHECK X

WEATHER DATA: high 70s, cloudy, light wind

TRAFFIC DATA		
ROAD	SR37 NB	SR37 SB
AUTOS	209	312
MED TRKS	3	3
HVY TRKS	4	7
BUS	0	1
MC	1	1
DURATION	20	20

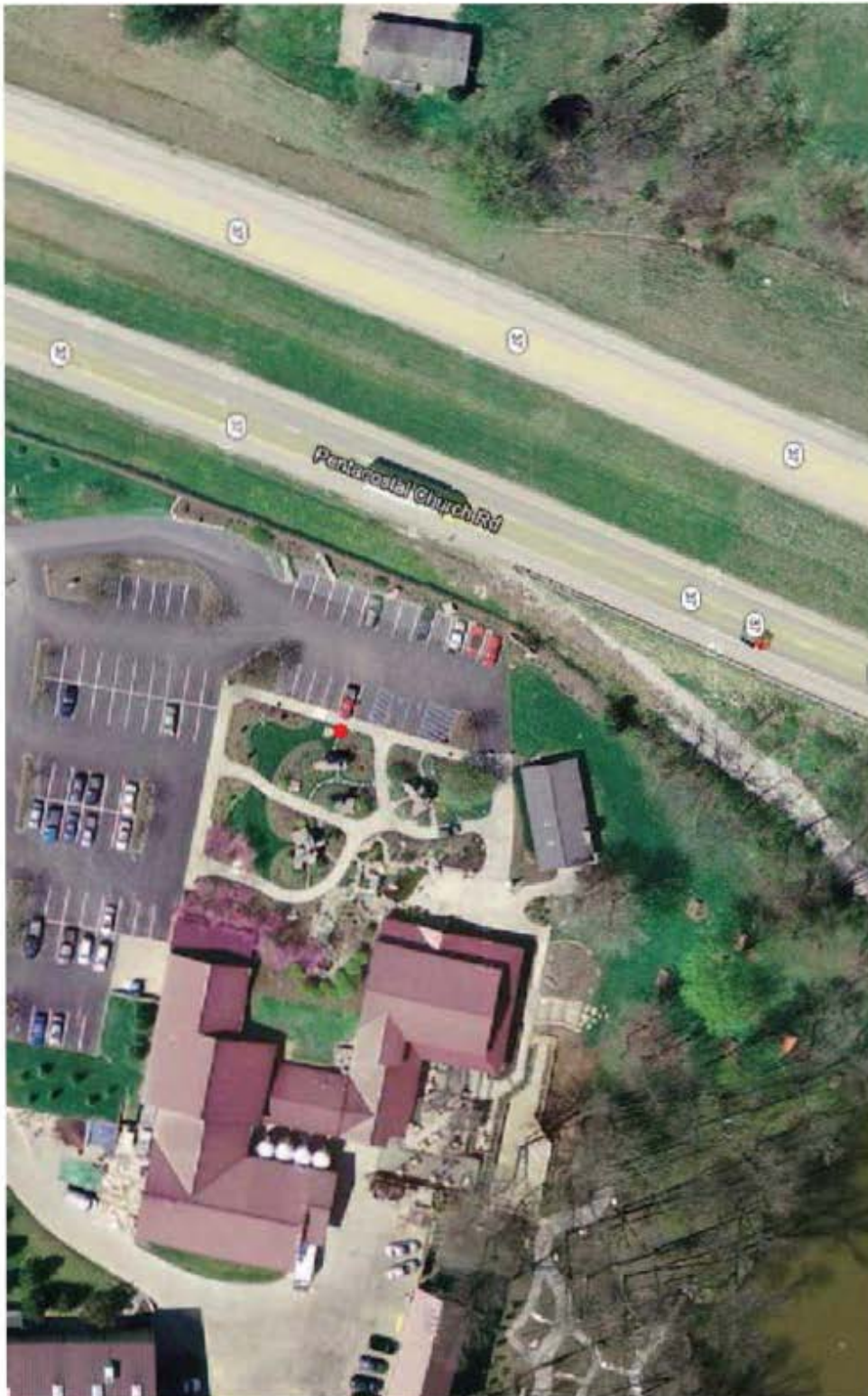
DATE: 5/21/12
 SITE #: M-32 Oliver Winery Garden
 START: 5:15pm
 END: 5:41pm
 LEQ: 66.3
 SPEED: 60mph

SITE SKETCH



BACKGROUND NOISE
 MAJOR SOURCES SR37
 UNUSUAL EVENTS
 OTHER NOTES paused meter for cars pulling in/out of parking lot

Site M-32



Site M-34

NOISE SURVEY SHEET

M-34

EQUIPMENT:		METER <u>Norsonics 132</u>	CALIBRATOR <u>EXTECH 407744</u>
CALIBRATION:		START <u>93.1</u> dB	END <u>93.1</u> dB
RESPONSE:		FAST <u>X</u> SLOW <u> </u>	A-WEIGHTING <u>X</u> BATTERY CHECK <u>X</u>
WEATHER DATA: <u>low 80s, Sunny, no wind</u>			
TRAFFIC DATA		DATE: <u>5/24/12</u>	
<u>SR 37 not visible - no counts taken</u>		SITE #: <u>M-34 Graceway Community Church (Maple Grove)</u>	
ROAD		START: <u>9:06 am</u>	
AUTOS		END: <u>9:26 am</u>	
MED TRKS		LEQ: <u>42.5</u>	
HVY TRKS		SPEED: <u>?</u>	
BUS			
MC			
DURATION	<u>20 min</u>	<u>20 min</u>	
SITE SKETCH			
BACKGROUND NOISE		<u> </u>	
MAJOR SOURCES		<u> </u>	
UNUSUAL EVENTS		<u> </u>	
OTHER NOTES		<u> </u>	

Site M-34





APPENDIX W FINAL NOISE TECHNICAL REPORT

TECHNICAL REPORT APPENDICES

APPENDIX A	Figures
APPENDIX B	Noise Meter Calibration and Weather Data
APPENDIX C	Ambient Noise Measurement Logs
APPENDIX D	Traffic Volumes
APPENDIX E	Predicted Sound Levels
APPENDIX F	TNM Input/Output Tables

APPENDIX D: TRAFFIC VOLUMES

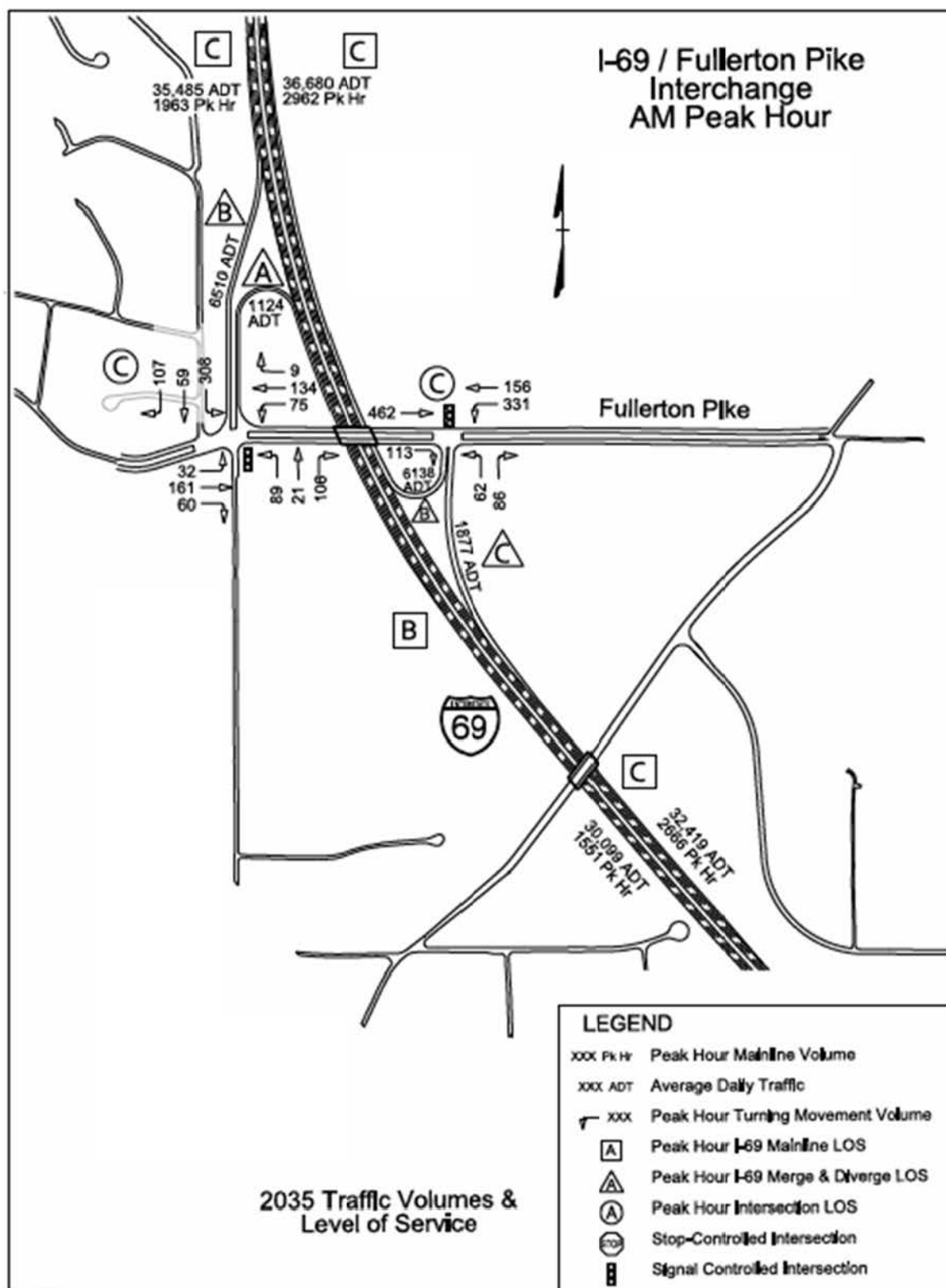
Section 5 Alternatives Carried Forward - 2035 Cross-Street Traffic Volumes +10% (rounded to the nearest hundred)				
Cross Street	Alternative 4	Alternative 5	Alternative 6	Alternative 7
SR 37 (Section 4)	Interchange	Interchange	Interchange	Interchange
Rockport Rd	Overpass	Overpass	Overpass	Overpass
Cross Traffic ADT	6300	6400	5400	5500
Fullerton Pike	Interchange	Interchange	Interchange	Interchange
Cross Traffic ADT E/W of I-69	21300 / 12400	21900 / 11700	15100 / 12300	15400 / 11600
Total Ramp ADT	21200	19500	19000	16500
Tapp Road	Overpass	Split Interchange w/SR45	Overpass	Split Interchange w/SR45
Cross Traffic ADT E/W of I-69	15700	16000 / 14000	15300	15700 / 14700
Total Ramp ADT	Not applicable	25300	Not applicable	24400
2nd Street/SR 45	Interchange	Split Interchange w/Tapp	Interchange	Split Interchange w/Tapp
Cross Traffic ADT E/W of I-69	36300 / 31500	32100 / 29600	37400 / 33200	34800 / 31900
Total Ramp ADT	30000	30000	30600	28600
SR 48/3rd. Street	Interchange	Interchange	Interchange	Interchange
Cross Traffic ADT E/W of I-69	39600 / 47100	48400 / 55000	40200 / 47400	41400 / 47700
Total Ramp ADT	33300	48400	39700	41300
SR 46	Interchange	Interchange	Interchange	Interchange
Cross Traffic ADT E/W of I-69	54300 / 51500	51700 / 54500	57100 / 51000	55300 / 52100
Total Ramp ADT	48600	46200	54100	51500
Kinser Pike	Interchange	Overpass	No Overpass	Overpass
Cross Traffic ADT	12100 / 1900	1400	Not applicable	1900
Total Ramp ADT	12100	Not applicable		Not applicable
Walnut Street	Overpass	Interchange	Overpass	Interchange
Cross Traffic ADT	2500	19900 / 6500	6500	8100
Total Ramp	Not applicable	21100	Not applicable	8100
Sample Road	Interchange	Interchange	Interchange	Interchange
Cross Traffic ADT	8600 / 4400	7700 / 3000	8800 / 3700	9500 / 6700
Total Ramp ADT	11300	9200	15200	13400
Chambers Pike	Overpass	Overpass	Overpass	No Overpass
ADT	800	700	600	Not applicable
Paragon Road	Interchange	Overpass	No Overpass	No Overpass
Cross Traffic ADT	1800 / 5300	400	Not applicable	Not applicable
Total Ramp ADT	6600	Not applicable		
Liberty Church Road	Overpass	Interchange	Interchange	Interchange
Cross Traffic ADT	1300	4200 / 3600	3700 / 3400	4400 / 3400
Total Ramp ADT	Not applicable	7300	6600	7000
SR 39 (Section 6)	Interchange	Interchange	Interchange	Interchange
Note: Spacing between Chambers Pike and Liberty Church Interchange is 5.5 miles.				

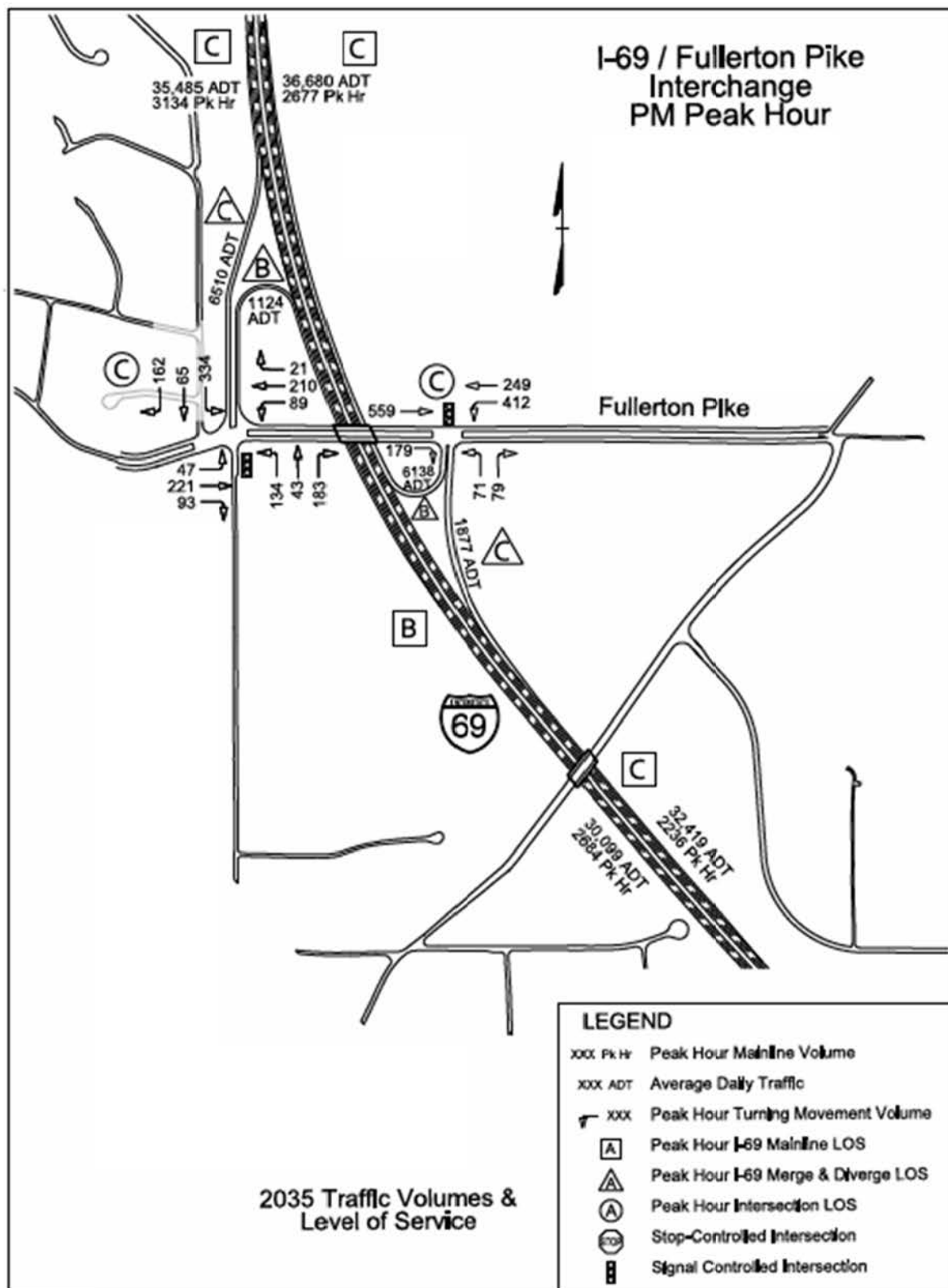
Table 10: Section 5 Alternatives Carried Forward - 2035 Traffic Volumes +10% (rounded to the nearest hundred)

Cross Street	2035 No Build E+C	Alternative 8	
SR 37 (Section 4)	Interchange	Interchange	<p>Refined Preferred Alternative 8 volumes are shown on the subsequent following pages.</p>
Rockport Rd	Intersection E/W	Overpass	
Cross Traffic ADT	8000 / 7700	5500	
Fullerton Pike	Intersection E/W	Interchange	
Cross Traffic ADT E/W of I-69	15100 / 12200	15400 / 11600	
Total Ramp ADT	Not applicable	16500	
Tapp Road	Intersection E/W	Split Interchange w/SR45	
Cross Traffic ADT E/W of I-69	23400 / 21700	15700 / 15500	
Total Ramp ADT	Not applicable	24400	
2nd Street/SR 45	Interchange	Split Interchange w/Tapp	
Cross Traffic ADT E/W of I-69	27600 / 25900	34800 / 31900	
Total Ramp ADT	20800	28600	
SR 48/3rd. Street	Interchange	Interchange	
Cross Traffic ADT E/W of I-69	34100 / 43500	41300 / 47600	
Total Ramp ADT	28100	41300	
SR 46	Interchange	Interchange	
Cross Traffic ADT E/W of I-69	49100 / 46800	55100 / 52100	
Total Ramp ADT	31900	51500	
Kinser Pike	Intersection	Overpass	
Cross Traffic ADT	800 / 1000	2000	
Total Ramp ADT	Not applicable	Not applicable	
Walnut Street	Interchange	Interchange	
Cross Traffic ADT	13800	8000	
Total Ramp	13800	8000	
Sample Road	Intersection E/W	Interchange	
Cross Traffic ADT	2200 / 1700	9600 / 5000	
Total Ramp ADT	Not applicable	15100	
Chambers Pike	Intersection E/W	Overpass	
ADT	400 / 2200	400	
Paragon Road	Intersection at Pine Blvd E/W	No Overpass	
Cross Traffic ADT	600 / 2900	Not applicable	
Total Ramp ADT	Not applicable		
Liberty Church Road	Intersection E/W	Interchange	
Cross Traffic ADT	2000 / 300	4400 / 3100	
Total Ramp ADT	Not applicable	7200	
SR 39 (Section 6)	Interchange	Interchange	

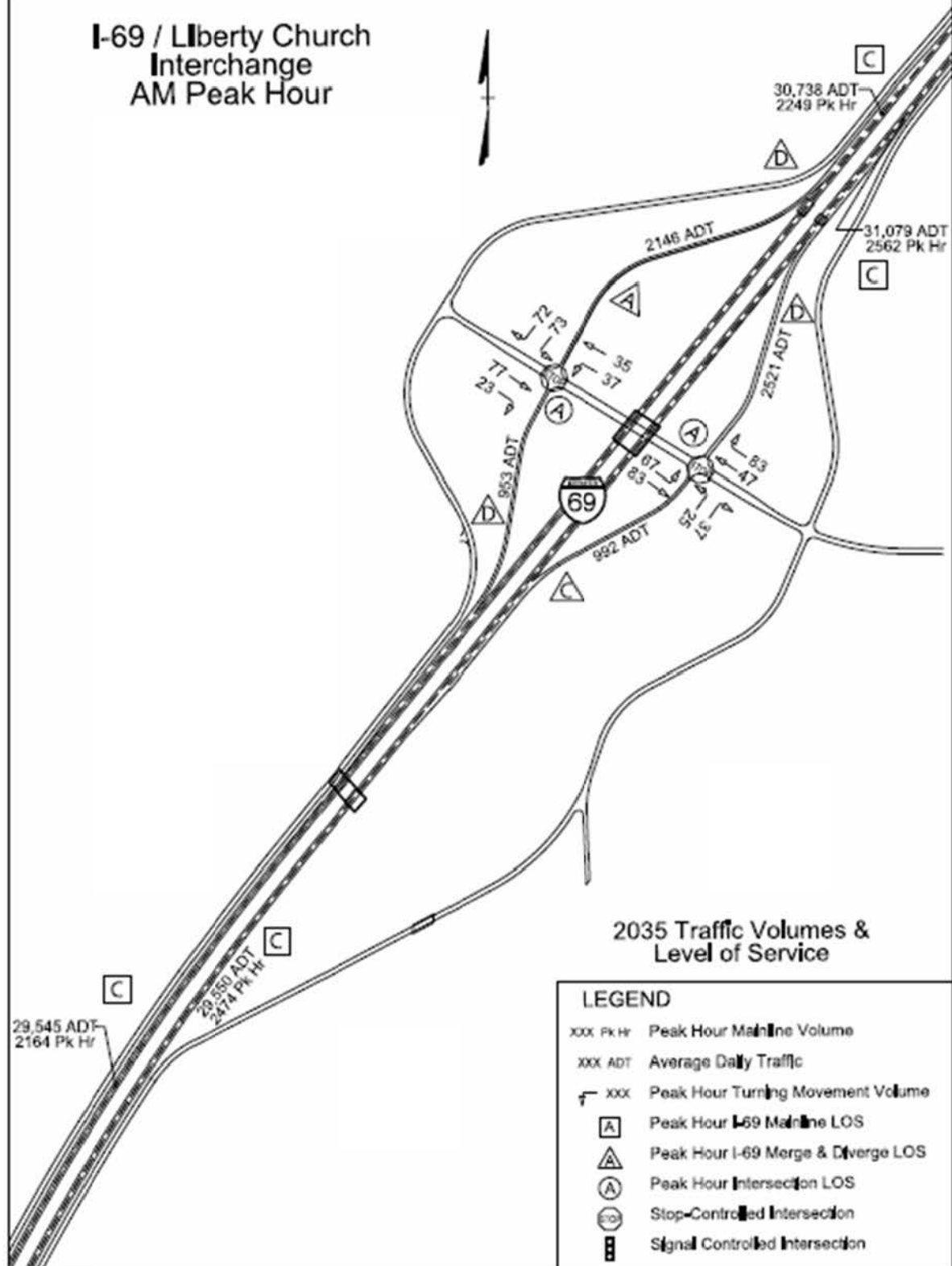
Note: Spacing between Chambers Pike and Liberty Church Interchange is 5.5 miles.

Refined Preferred Alternative 8

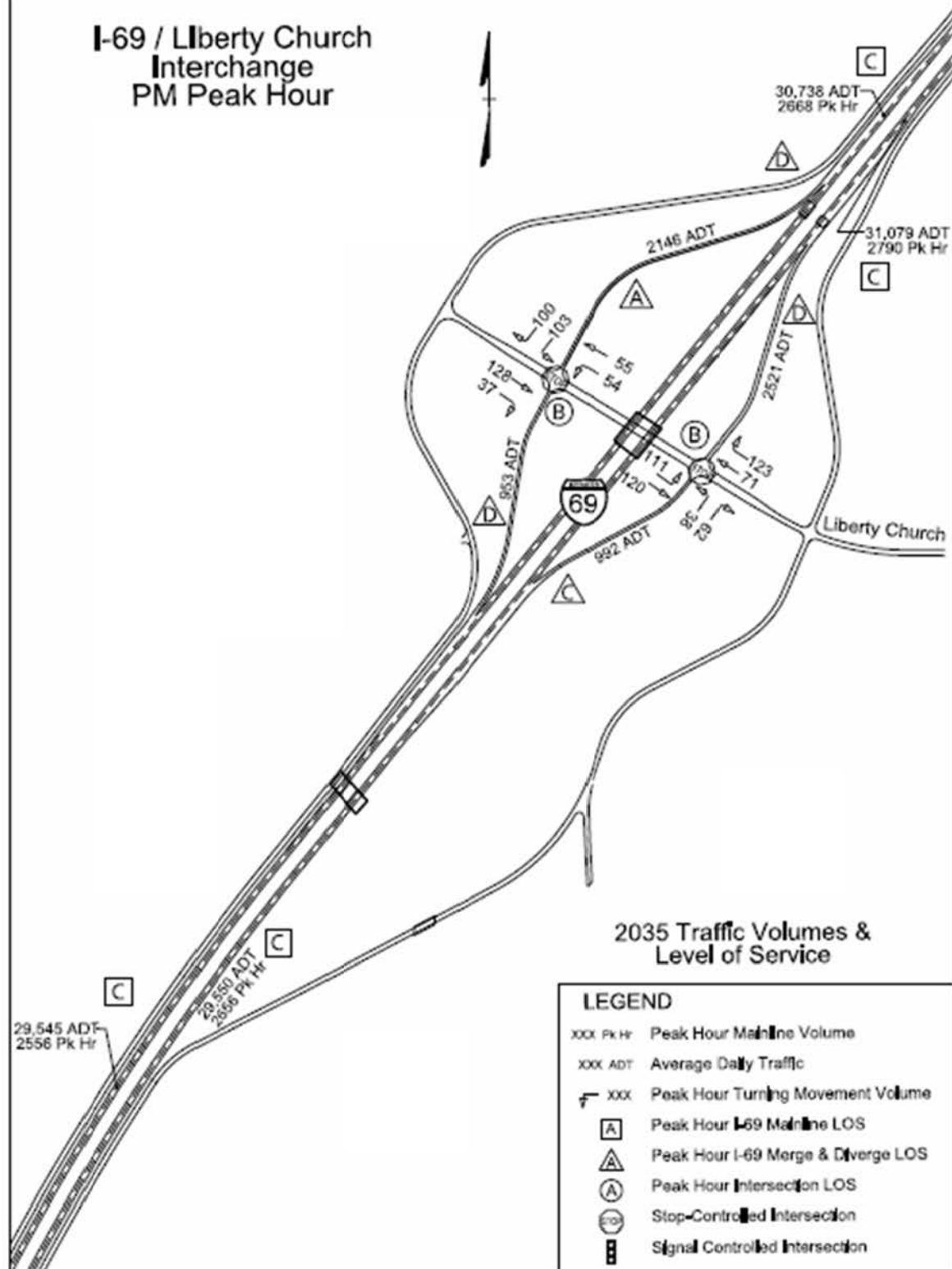




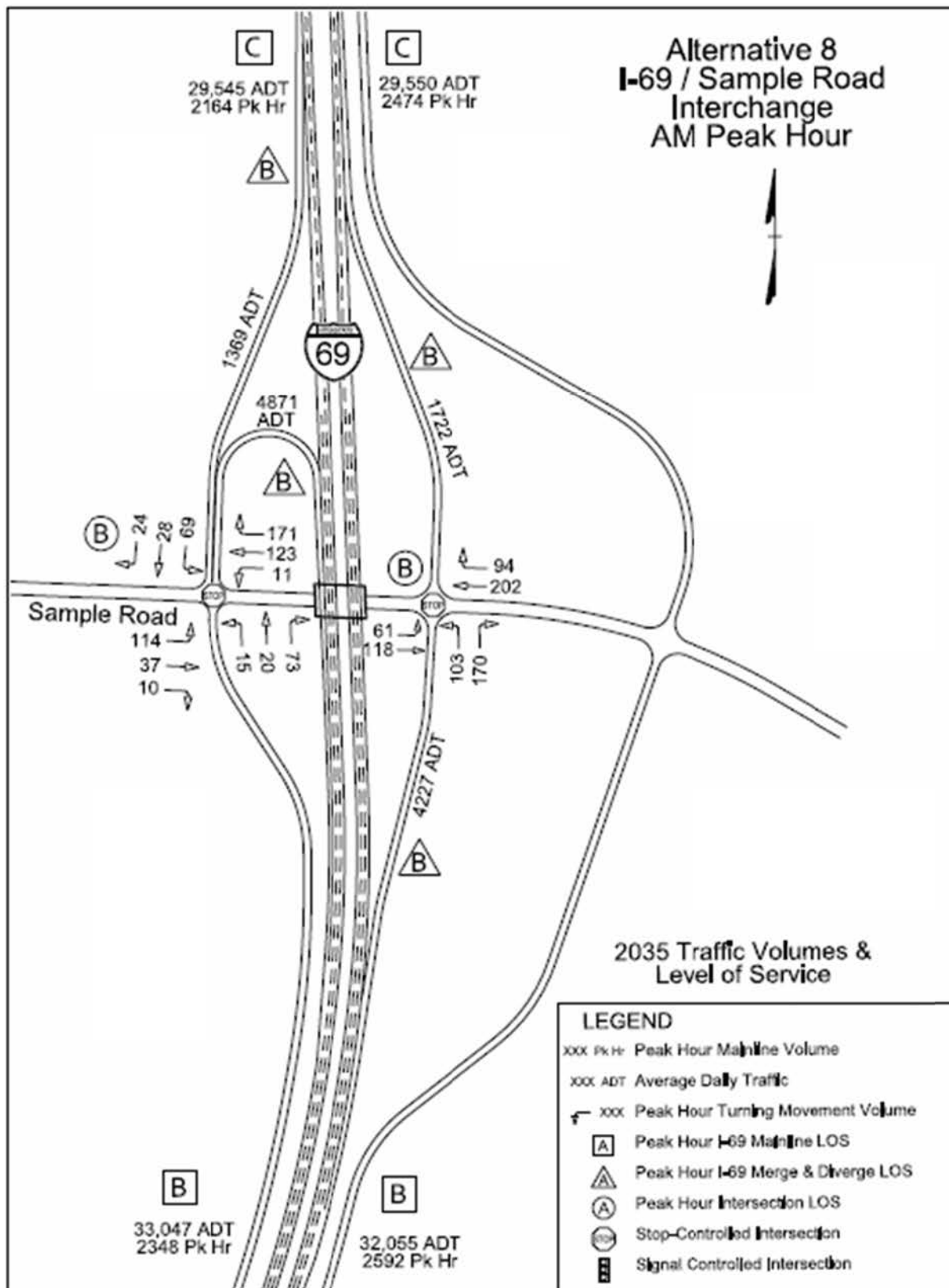
**I-69 / Liberty Church
Interchange
AM Peak Hour**



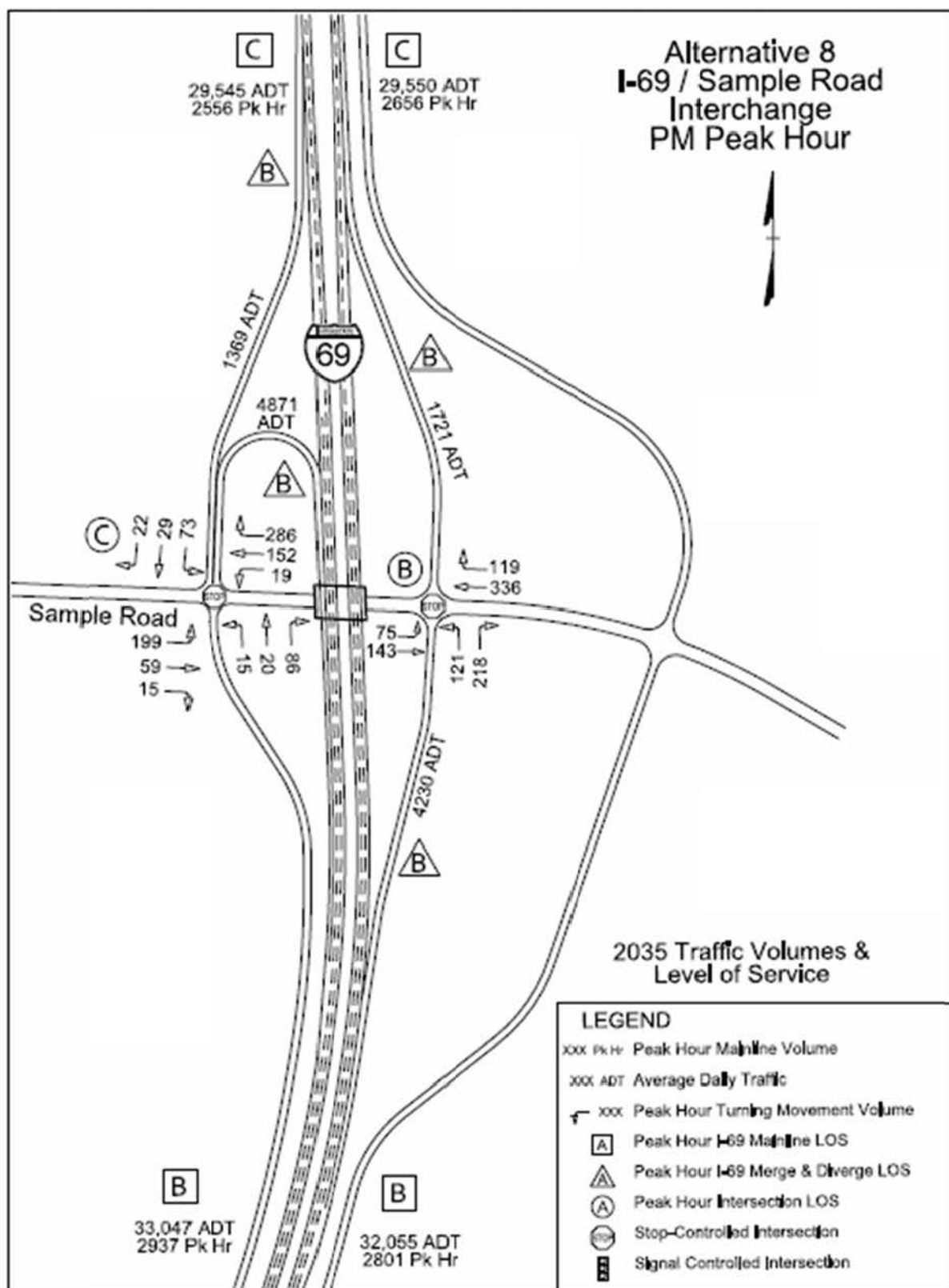
**I-69 / Liberty Church
Interchange
PM Peak Hour**



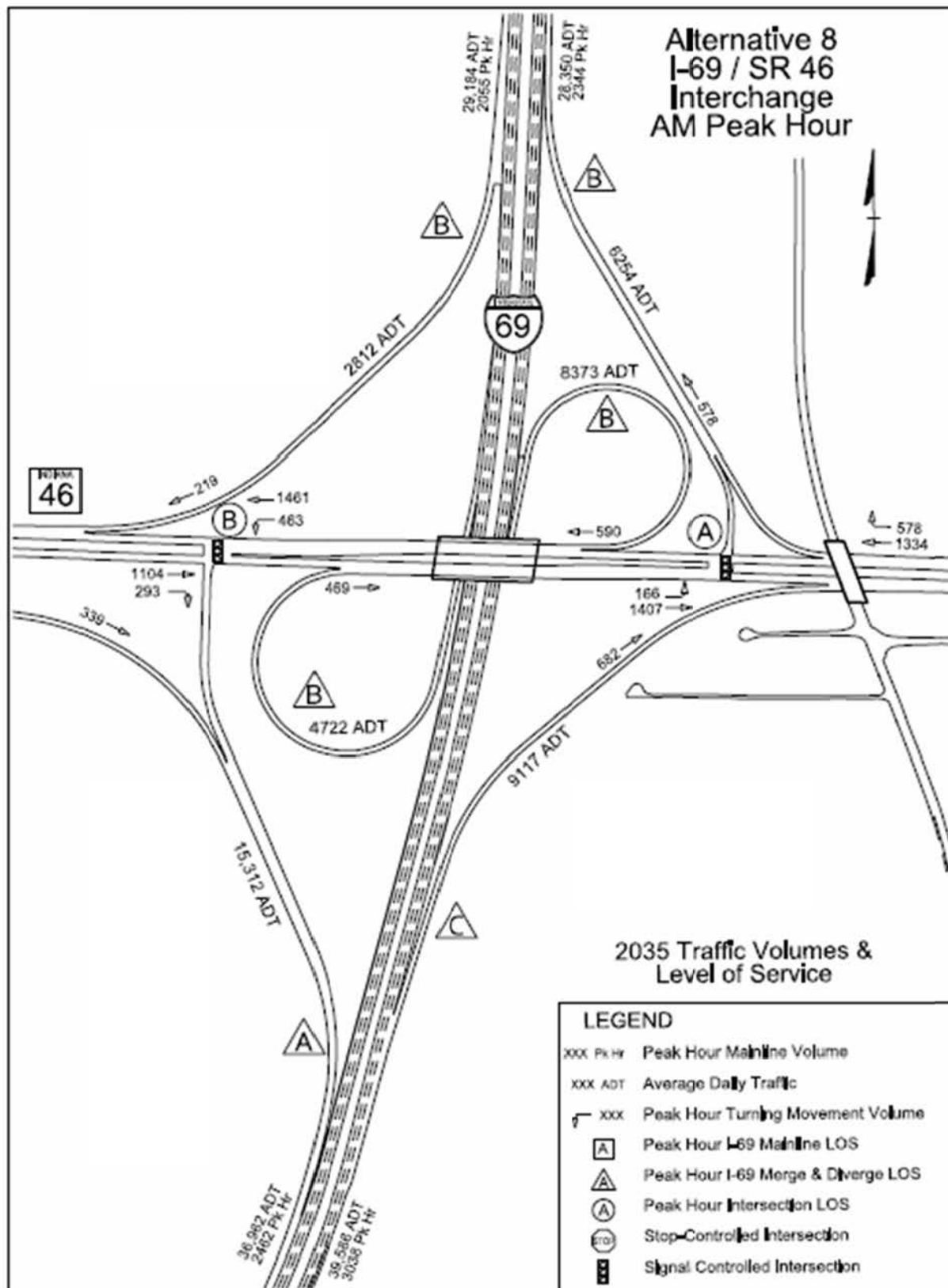
Alternative 8
I-69 / Sample Road
Interchange
AM Peak Hour



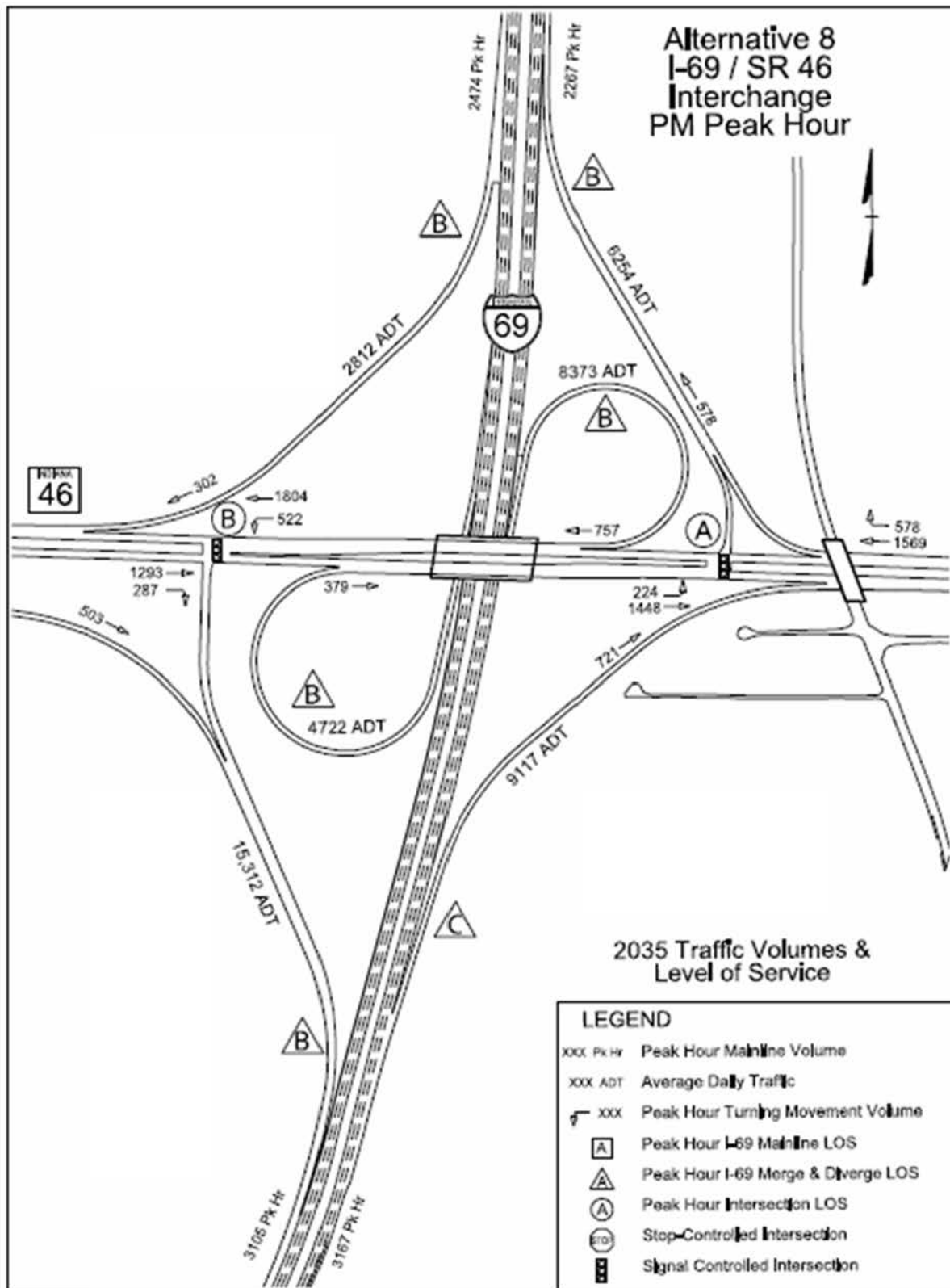
Alternative 8 I-69 / Sample Road Interchange PM Peak Hour



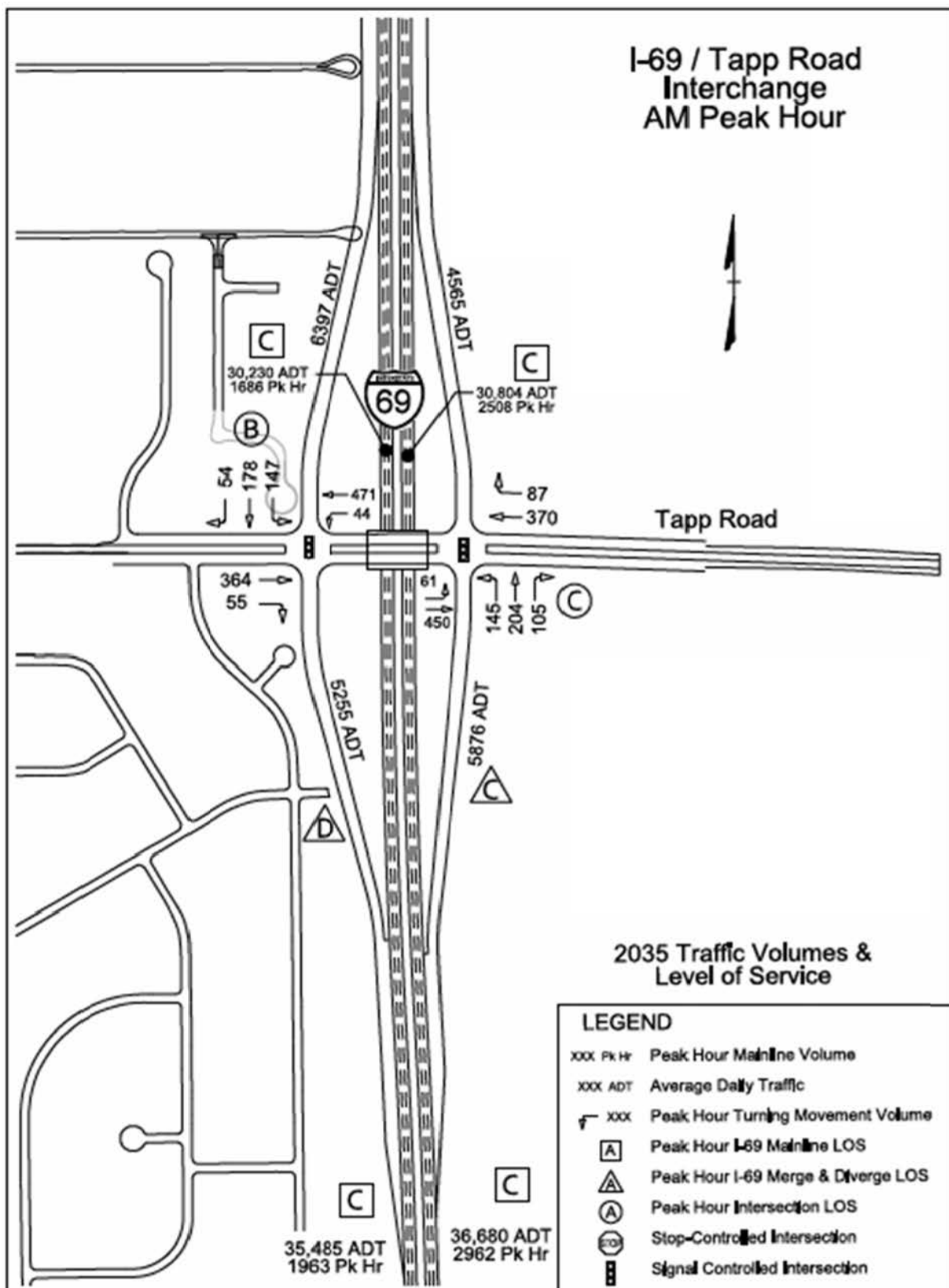
**Alternative 8
I-69 / SR 46
Interchange
AM Peak Hour**



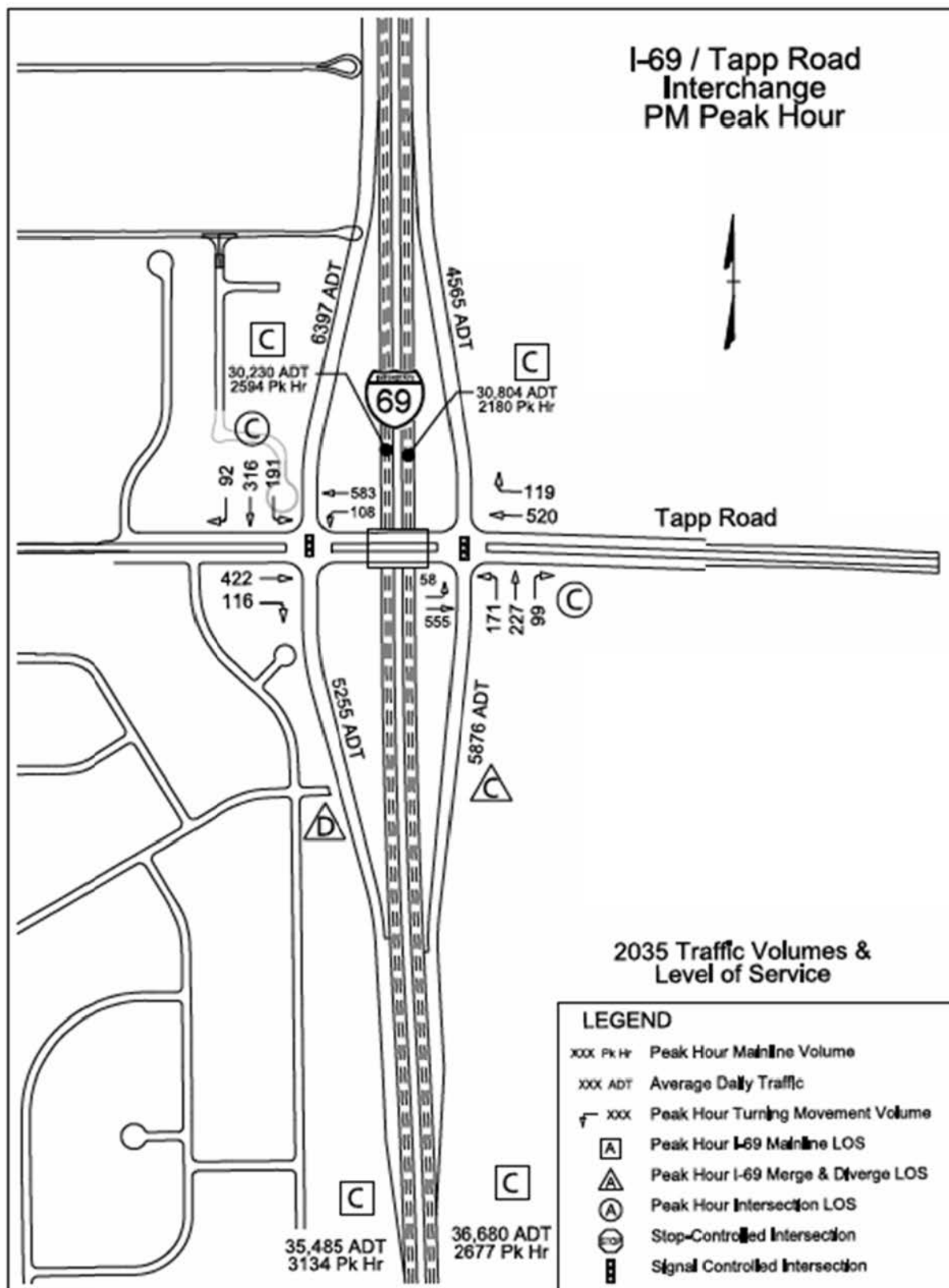
Alternative 8
I-69 / SR 46
Interchange
PM Peak Hour

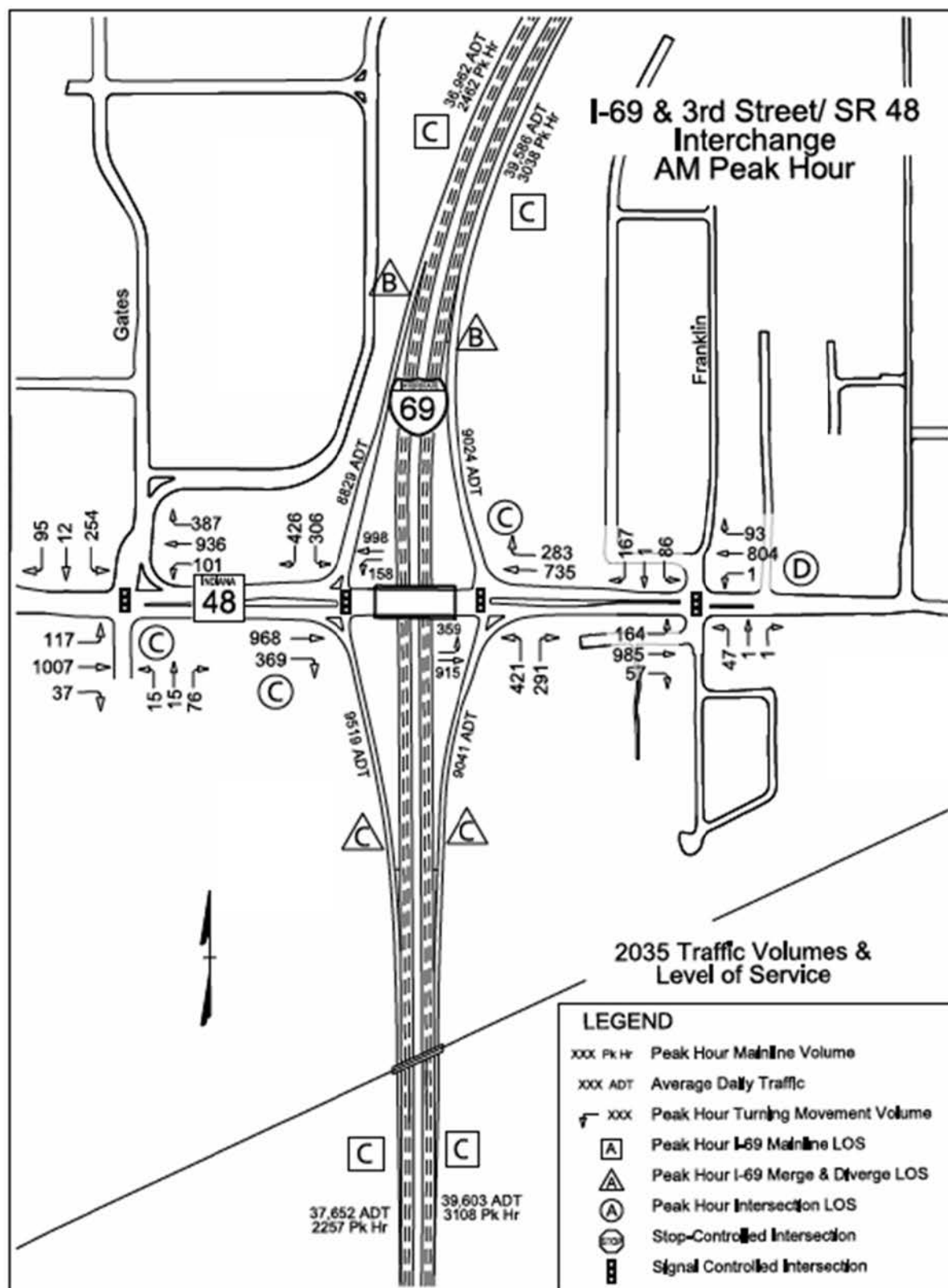


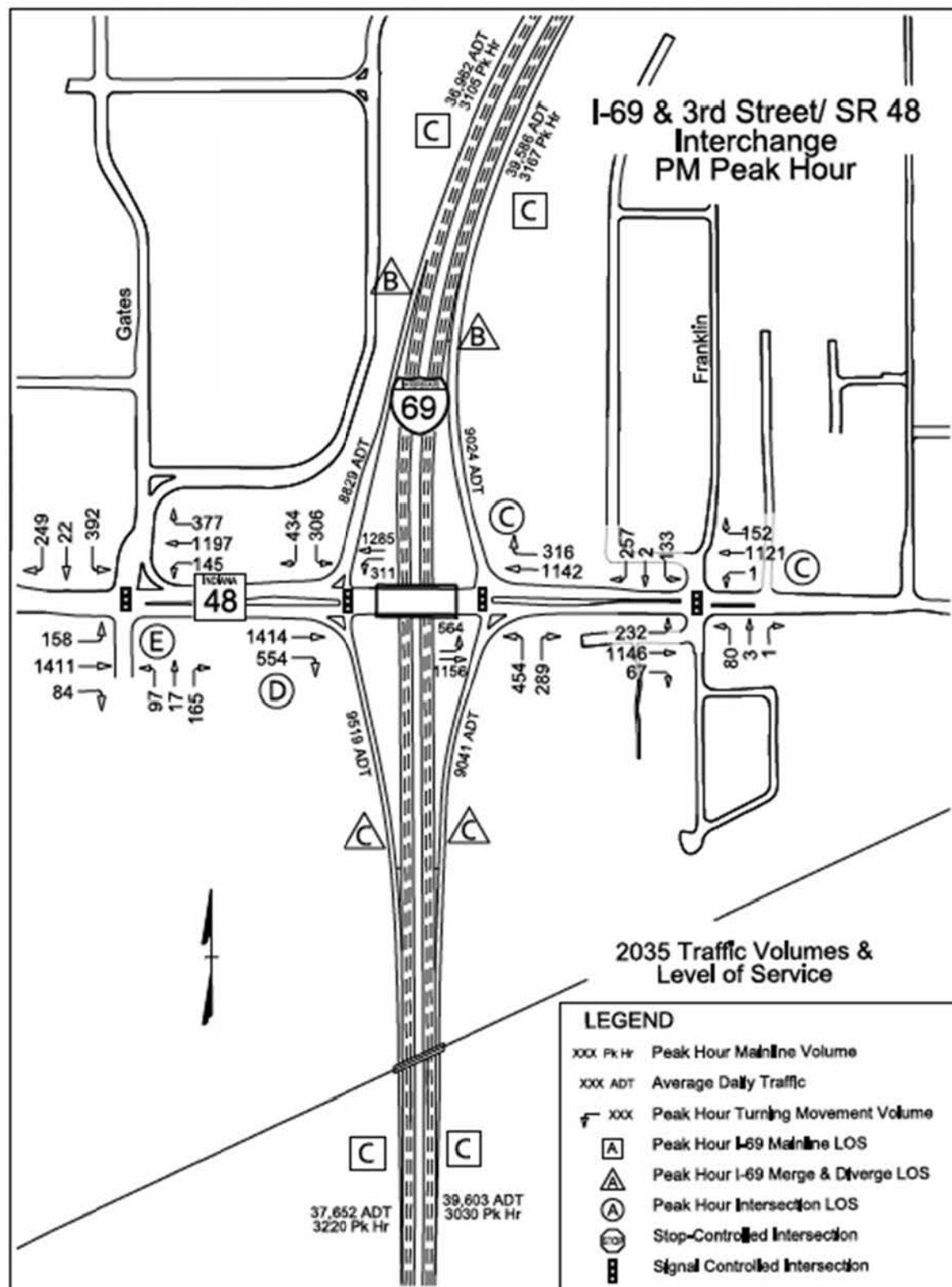
I-69 / Tapp Road Interchange AM Peak Hour

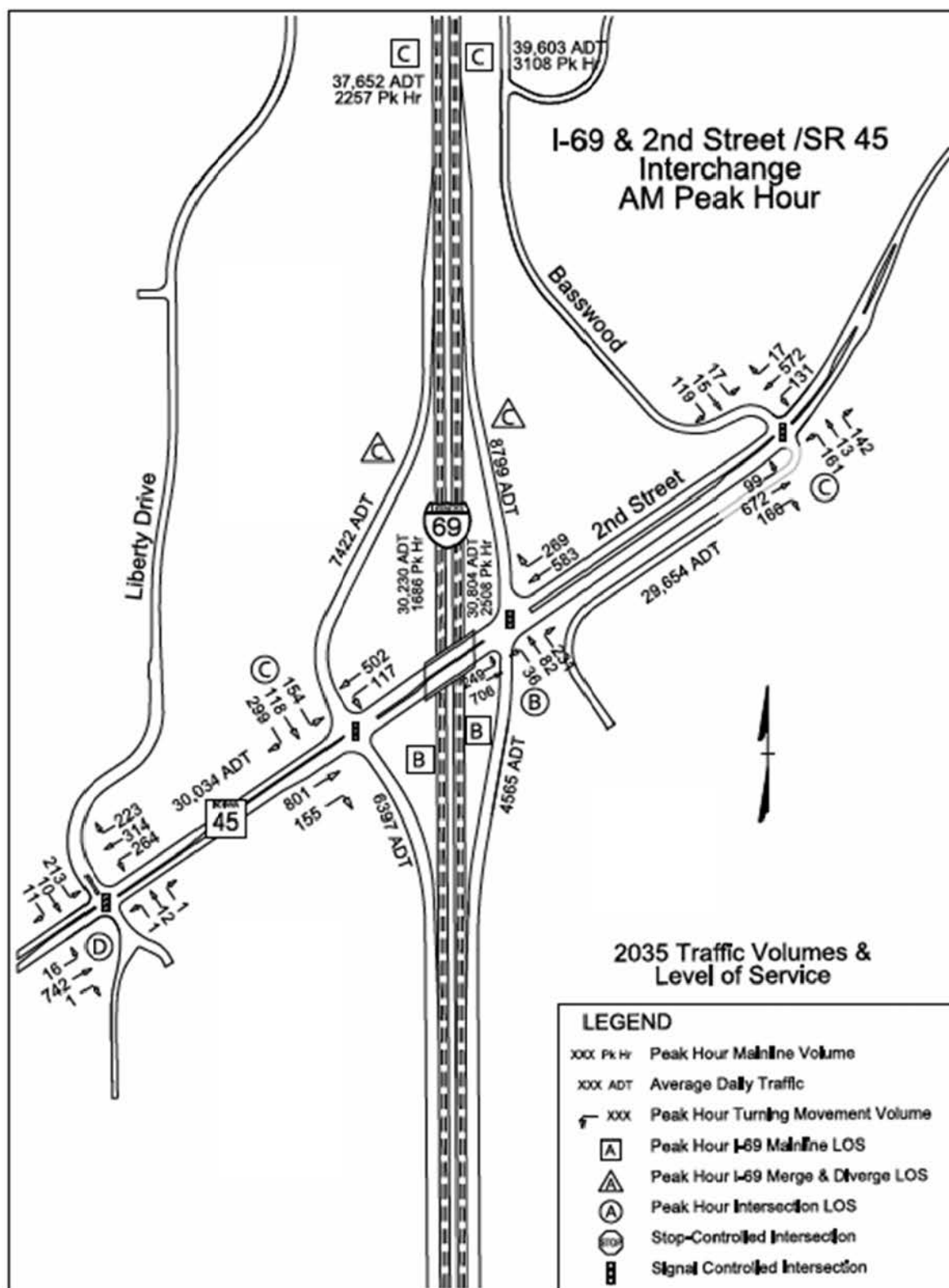


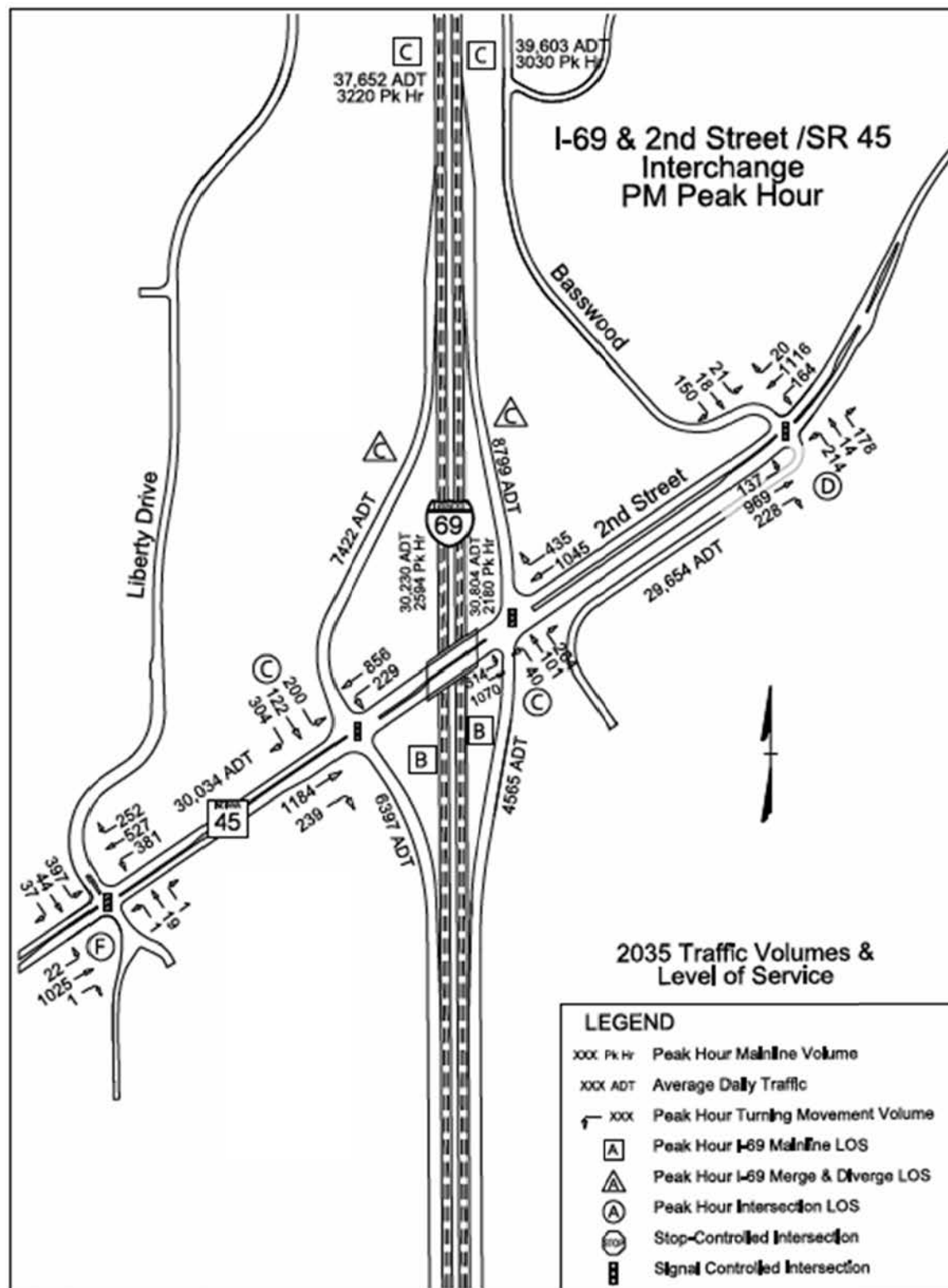
I-69 / Tapp Road Interchange PM Peak Hour



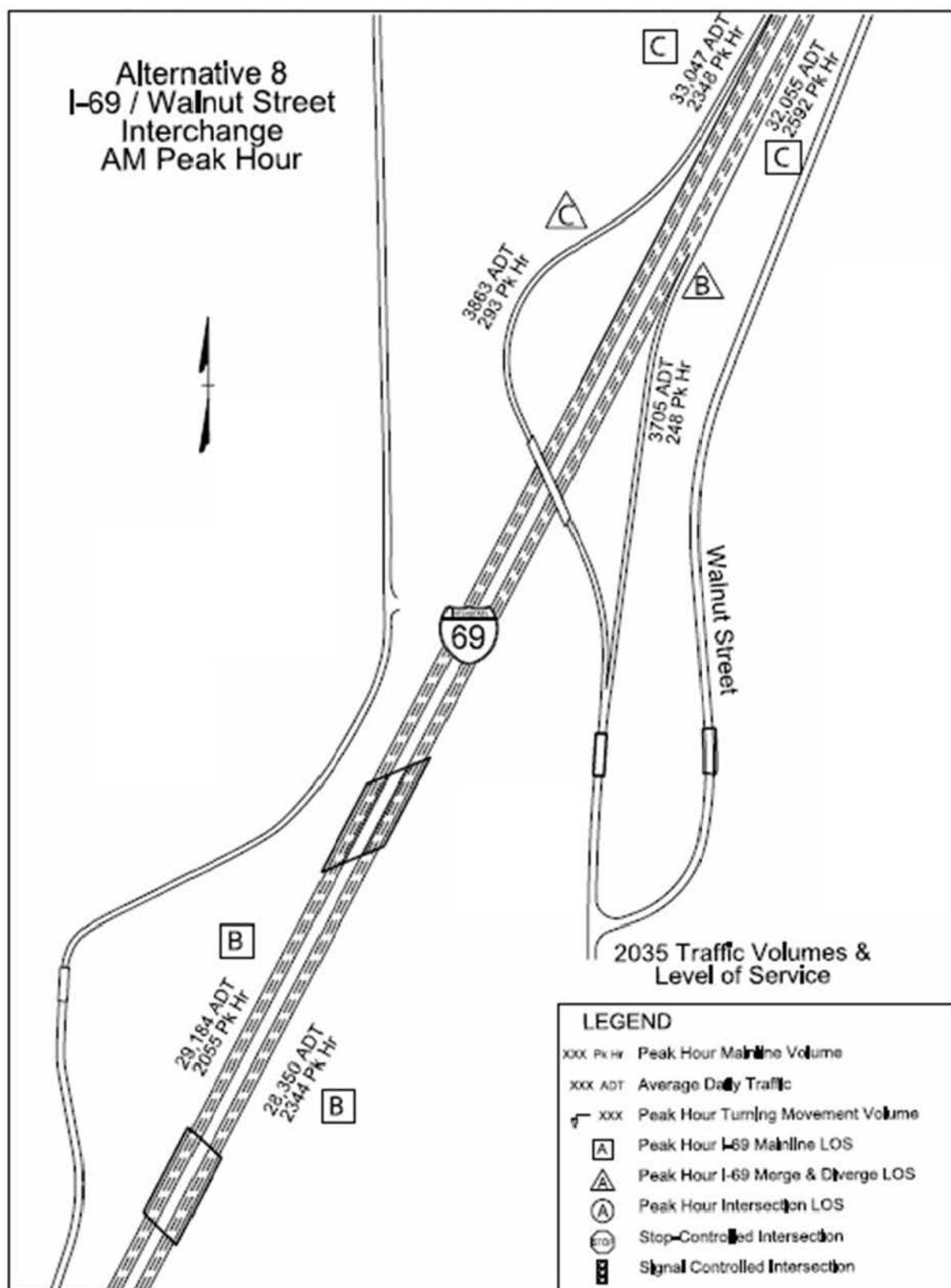




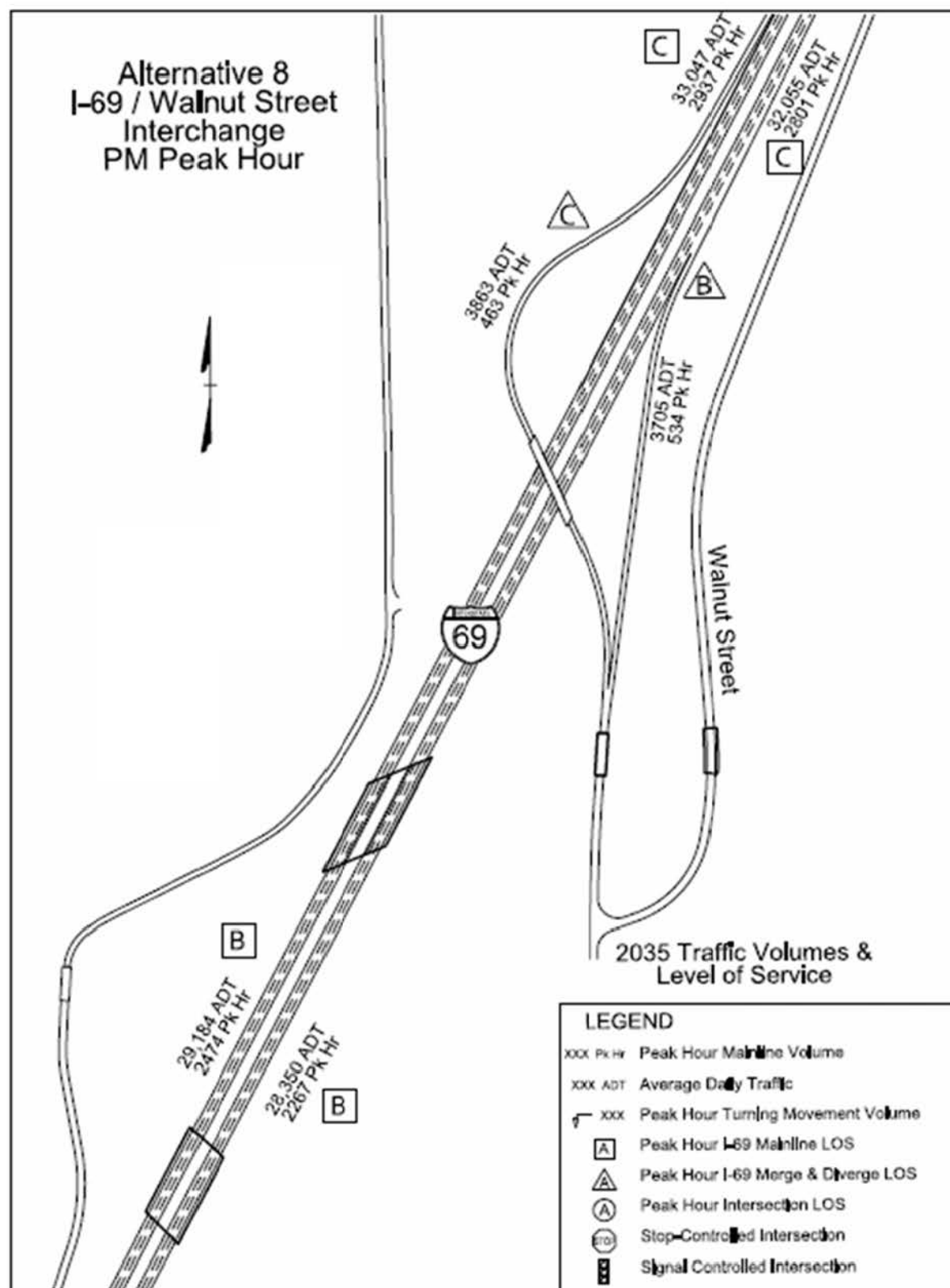




**Alternative 8
I-69 / Walnut Street
Interchange
AM Peak Hour**



Alternative 8
I-69 / Walnut Street
Interchange
PM Peak Hour



Existing Condition Traffic Volumes											
Segment		Vehicles					Trucks				
		Daily Vehicles			PM Peak Hour		Daily Trucks			PM Peak Hour	
		SB	NB	Total	SB	NB	SB	NB	Total	SB	NB
SR 39	Liberty/Paragon	12,616	12,616	25,232	964	908	945	945	1,890	40	40
Liberty/Paragon	Sample	12,020	12,020	24,039	1,005	909	1,303	1,303	2,607	32	60
Sample	Kinser/Walnut	12,479	12,479	24,957	1,037	1,245	1,459	1,459	2,918	40	52
Kinser/Walnut	SR 46	9,471	9,471	18,941	722	827	1,043	1,043	2,087	29	43
SR 46	3rd St	19,341	19,341	38,681	1,795	1,565	1,129	1,129	2,258	44	55
3rd St	Bloomfield	19,978	19,978	39,956	1,855	1,548	904	904	1,807	42	42
Bloomfield	Tapp (main)	15,553	15,553	31,106	1,718	1,199	678	678	1,356	31	32
Bloomfield	Tapp (cd)	-	-	-	-	-	-	-	-	32	32
Tapp	Fullerton	13,201	13,201	26,402	1,529	960	827	827	1,653	30	25
Fullerton	SR37	10,214	10,214	20,428	1,121	719	975	975	1,950	27	23

Design Year No Build Alternative Traffic Volumes											
Segment		Vehicles					Trucks				
		Daily Vehicles			PM Peak Hour		Daily Trucks			PM Peak Hour	
		SB	NB	Total	SB	NB	SB	NB	Total	SB	NB
SR 39	Liberty/Paragon	21,554	21,427	42,981	1,913	1,747	5,150	5,150	10,300	192	186
Liberty/Paragon	Sample	22,627	22,200	44,827	2,008	1,810	5,179	5,171	10,350	154	275
Sample	Kinser/Walnut	23,910	23,932	47,842	1,950	2,440	5,176	5,174	10,350	187	240
Kinser/Walnut	SR 46	19,812	18,192	38,005	1,604	1,787	4,738	4,598	9,335	177	255
SR 46	3rd St	32,498	32,867	65,365	2,828	2,663	5,369	5,399	10,768	191	243
3rd St	Bloomfield	34,695	34,194	68,890	3,211	2,711	5,387	5,328	10,715	202	209
Bloomfield	Tapp (main)	33,223	31,149	64,371	3,388	2,384	5,340	5,260	10,600	201	207
Bloomfield	Tapp (cd)	-	-	-	-	-	-	-	-	-	-
Tapp	Fullerton	33,863	31,275	65,138	3,772	2,307	5,292	5,209	10,500	210	175
Fullerton	SR37	33,074	29,074	62,147	3,546	2,001	5,394	5,159	10,553	214	174

Alternative 4 Traffic Volumes											
Segment		Vehicles					Trucks				
		Daily Vehicles			PM Peak Hour		Daily Trucks			PM Peak Hour	
		SB	NB	Total	SB	NB	SB	NB	Total	SB	NB
SR 39	Liberty/Paragon	33,222	33,019	66,241	2,957	2,697	7,157	7,158	14,314	268	259
Liberty/Paragon	Sample	33,800	33,124	66,924	3,009	2,708	7,174	7,156	14,330	214	382
Sample	Kinser/Walnut	36,112	35,317	71,429	2,927	3,578	7,171	7,128	14,299	261	333
Kinser/Walnut	SR 46	37,903	32,442	70,345	3,063	3,078	7,189	7,114	14,302	270	396
SR 46	3rd St	40,473	43,445	83,918	3,595	3,599	7,109	7,088	14,198	254	321
3rd St	Bloomfield	40,436	42,409	82,845	3,833	3,462	6,780	6,927	13,707	271	235
Bloomfield	Tapp (main)	41,430	40,970	82,400	4,718	3,114	6,807	6,843	13,650	272	232
Bloomfield	Tapp (cd)	-	-	-	-	-	-	-	-	-	-
Tapp	Fullerton	41,430	40,970	82,400	4,718	3,114	6,807	6,843	13,650	272	232
Fullerton	SR37	37,402	37,818	75,220	4,095	2,649	6,725	6,750	13,475	267	227

Alternative 5 Traffic Volumes											
Segment		Vehicles					Trucks				
		Daily Vehicles			PM Peak Hour		Daily Trucks			PM Peak Hour	
		SB	NB	Total	SB	NB	SB	NB	Total	SB	NB
SR 39	Liberty/Paragon	34,694	34,606	69,300	3,078	2,840	7,205	7,238	14,507	270	262
Liberty/Paragon	Sample	33,337	33,098	66,435	2,990	2,728	7,178	7,208	14,454	214	385
Sample	Kinser/Walnut	35,661	35,343	71,004	2,925	3,632	7,179	7,205	14,461	261	337
Kinser/Walnut	SR 46	32,483	29,439	61,922	2,574	2,873	7,127	6,485	13,706	268	361
SR 46	3rd St	44,902	44,821	89,723	3,957	3,717	7,240	7,117	14,440	259	322
3rd St	Bloomfield	43,122	46,433	89,555	4,091	3,785	6,949	7,025	14,083	263	278
Bloomfield	Tapp (main)	35,748	36,960	72,708	3,737	2,907	6,565	6,607	13,257	248	261
Bloomfield	Tapp (cd)	6,892	6,277	13,168	727	494	241	233	489	9	9
Tapp	Fullerton	42,037	42,856	84,893	4,800	3,244	6,835	6,860	13,794	273	233
Fullerton	SR37	37,382	38,047	75,429	4,087	2,663	6,702	6,722	13,432	266	227

Alternative 6 Traffic Volumes											
Segment		Vehicles					Trucks				
		Daily Vehicles			PM Peak Hour		Daily Trucks			PM Peak Hour	
		SB	NB	Total	SB	NB	SB	NB	Total	SB	NB
SR 39	Liberty/Paragon	34,035	34,052	68,655	3,043	2,802	7,173	7,172	14,345	269	260
Liberty/Paragon	Sample	33,158	32,632	66,523	2,973	2,692	7,157	7,135	14,291	214	381
Sample	Kinser/Walnut	35,275	33,453	68,669	2,847	3,441	7,123	7,073	14,196	259	331
Kinser/Walnut	SR 46	35,275	33,453	68,669	2,827	3,317	7,123	7,073	14,196	267	394
SR 46	3rd St	41,338	43,080	86,481	3,676	3,584	7,160	7,087	14,247	256	321
3rd St	Bloomfield	40,897	43,101	86,938	3,918	3,537	6,839	6,943	13,782	273	236
Bloomfield	Tapp (main)	41,741	41,406	86,185	4,812	3,170	6,799	6,830	13,629	272	232
Bloomfield	Tapp (cd)	-	-	-	-	-	-	-	-	-	-
Tapp	Fullerton	41,741	41,406	86,185	4,812	3,170	6,799	6,830	13,629	272	232
Fullerton	SR37	36,407	37,854	75,575	3,969	2,654	6,637	6,750	13,387	263	227

Alternative 7 Traffic Volumes											
Segment		Vehicles					Trucks				
		Daily Vehicles			PM Peak Hour		Daily Trucks			PM Peak Hour	
		SB	NB	Total	SB	NB	SB	NB	Total	SB	NB
SR 39	Liberty/Paragon	34,531	34,312	69,757	3,105	2,835	7,186	7,180	14,366	269	260
Liberty/Paragon	Sample	33,138	32,691	66,971	2,991	2,712	7,154	7,139	14,293	214	382
Sample	Kinser/Walnut	37,080	35,662	73,048	3,055	3,628	7,192	7,138	14,330	261	334
Kinser/Walnut	SR 46	33,045	31,508	63,805	2,631	3,076	7,128	7,088	14,216	268	395
SR 46	3rd St	42,189	43,860	87,433	3,726	3,614	7,168	7,114	14,281	256	322
3rd St	Bloomfield	42,825	44,646	90,259	4,096	3,648	6,921	7,009	13,930	262	278
Bloomfield	Tapp (main)	35,088	35,220	72,591	3,707	2,773	6,543	6,564	13,107	247	260
Bloomfield	Tapp (cd)	6,661	4,879	11,959	698	391	216	169	385	8	7
Tapp	Fullerton	41,326	41,888	85,966	4,771	3,181	6,800	6,856	13,657	272	233
Fullerton	SR37	36,230	37,584	75,086	3,956	2,629	6,633	6,718	13,351	263	226

		Alternative 8 Traffic Volumes									
		Vehicles					Trucks				
		Daily Vehicles			PM Peak Hour		Daily Trucks			PM Peak Hour	
Segment		SB	NB	Total	SB	NB	SB	NB	Total	SB	NB
SR 39	Liberty/Paragon	34,550	34,327	68,877	3,075	2,805	7,186	7,181	14,439	269	260
Liberty/Paragon	Sample	33,209	32,746	65,955	2,959	2,683	7,162	7,140	14,379	214	382
Sample	Kinser/Walnut	37,181	35,584	72,765	3,035	3,572	7,196	7,115	14,397	262	333
Kinser/Walnut	SR 46	33,078	31,626	64,704	2,642	3,052	7,131	7,065	14,300	268	394
SR 46	3rd St	42,243	43,878	86,121	3,683	3,537	7,169	7,113	14,365	256	322
3rd St	Bloomfield	42,831	44,635	87,465	4,024	3,623	6,921	7,008	14,041	262	278
Bloomfield	Tapp (main)	35,093	35,214	70,308	3,647	2,756	6,543	6,564	13,192	247	260
Bloomfield	Tapp (cd)	6,657	4,879	11,536	706	373	216	169	398	8	7
Tapp	Fullerton	41,331	41,888	83,219	4,745	3,165	6,800	6,856	13,753	272	233
Fullerton	SR37	36,234	37,586	73,820	3,946	2,630	6,633	6,718	13,357	263	226

Northbound

From	To	Year 2035											
		AM Peak				PM Peak				Daily			
		Trucks	Total Veh.	PCEs	Truck %	Trucks	Total Veh.	PCEs	Truck %	Trucks	Total Veh.	PCEs	Truck %
SR 37	Fullerton Pike	287	2,679	3,110	11%	108	2,228	2,390	5%	5,943	32,333	41,248	18%
Fullerton Pike	Tapp Rd	295	2,968	3,411	10%	109	2,670	2,834	4%	6,072	36,598	45,706	17%
Tapp Rd	2nd St	279	2,505	2,924	11%	93	2,177	2,317	4%	5,829	30,689	39,433	19%
2nd St	3rd St	306	3,105	3,564	10%	113	3,048	3,218	4%	6,222	39,502	48,835	16%
3rd St	SR 46	321	3,013	3,495	11%	121	3,163	3,345	4%	6,368	39,605	49,157	16%
SR 46	Walnut St	324	2,319	2,805	14%	121	2,253	2,435	5%	6,282	28,428	37,851	22%
Walnut St	Sample Rd	326	2,560	3,212	13%	124	2,792	3,040	4%	6,328	32,036	44,692	20%

Southbound

From	To	Year 2035											
		AM Peak				PM Peak				Daily			
		Trucks	Total Veh.	PCEs	Truck %	Trucks	Total Veh.	PCEs	Truck %	Trucks	Total Veh.	PCEs	Truck %
SR 37	Fullerton Pike	282	1,500	1,923	19%	101	2,618	2,770	4%	5,858	30,103	38,890	19%
Fullerton Pike	Tapp Rd	292	1,946	2,384	15%	107	3,106	3,267	3%	6,039	35,586	44,645	17%
Tapp Rd	2nd St	280	1,670	2,090	17%	94	2,569	2,710	4%	5,841	30,340	39,102	19%
2nd St	3rd St	301	2,239	2,691	13%	110	3,232	3,397	3%	6,173	37,791	47,051	16%
3rd St	SR 46	322	2,435	2,918	13%	121	3,083	3,265	4%	6,360	37,038	46,578	17%
SR 46	Walnut St	328	2,069	2,725	16%	125	2,465	2,715	5%	6,343	29,388	42,074	22%
Walnut St	Sample Rd	331	2,309	2,806	14%	127	2,900	3,091	4%	6,401	32,972	42,574	19%



APPENDIX W FINAL NOISE TECHNICAL REPORT

TECHNICAL REPORT APPENDICES

APPENDIX A	Figures
APPENDIX B	Noise Meter Calibration and Weather Data
APPENDIX C	Ambient Noise Measurement Logs
APPENDIX D	Traffic Volumes
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I-69 Section 5 Predicted Sound Levels

Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
1	1	M-26	B-Residential	1	66	64.3	68.7	X	X	X	X	X	X
2	1	M-26	B-Residential	1	66	65.8	70.1	X	X	X	X	X	X
3	1	M-26	B-Residential	1	66	61.2	65.8	X	X	X	X	X	X
4	1	M-26	B-Residential	1	66	56.4	61.2	X	X	X	X	X	X
5	1	M-26	B-Residential	1	66	66.9	71.2	X	X	X	X	X	X
6	1	M-26	B-Residential	1	66	66.6	70.8	X	X	X	X	X	X
7	1	M-26	B-Residential	1	66	52.9	57.6	60.6	60.4	61.1	61.1	60.8	62.6
8	1	M-26	B-Residential	1	66	53.8	58.6	61.3	61	61.8	61.8	61.5	63.5
9	1	M-26	B-Residential	1	66	53.5	58.5	60.9	60.7	61.5	61.5	61.3	62
10	1	M-26	B-Residential	1	66	67.4	71.6	75	74.9	75.9	76	75.1	75
11	1	M-26	B-Residential	1	66	69.8	73.9	77	77.1	X	78.2	77.3	76.8
12	1	M-26	B-Residential	1	66	65	69.3	73.4	62.3	73.6	73.6	72.6	73.1
13	1	M-26	B-Residential	1	66	69.5	73.6	76.7	X	X	77.9	77	76.5
14	1	M-26	B-Residential	1	66	63.4	67.8	67.9	67.2	72	72	71.1	68
15	1	M-26	B-Residential	1	66	63.9	68.3	70.1	69.6	72.5	72.5	71.5	72.4
16	1	M-26	B-Residential	1	66	69.1	73.2	76.4	76.4	77.4	77.4	76.4	75.9
17	1	M-26	B-Residential	1	66	55.2	60.1	63.1	62.7	63.5	63.5	63.3	64.1
18	1	M-26	B-Residential	1	66	58	62.9	66.2	66	66.4	66.4	66	66.4
19	1	M-26	B-Residential	1	66	67.2	71.5	X	X	75.5	75.5	74.6	75.9
20	1	M-26	B-Residential	1	66	70.1	74.2	X	X	X	X	X	77
21	1	M-26	B-Residential	1	66	54.8	60	X	63.6	X	X	X	63.8
22	1	M-26	B-Residential	1	66	60	64.6	X	69.1	X	X	X	67.8
23	1	M-26	E-Hotel office	1	71	67	71.2	X	76.2	X	X	X	74
24	1	M-26	E-Hotel	12	71	67.1	71.3	X	75.4	X	X	X	74.1
25	1	M-26	C-Cemetery	1	66	69.6	73.7	77.4	77.1	77.5	77.5	76.7	76.7
26	1	M-26	B-Residential	1	66	53.2	57.7	62.4	62.3	62.1	62.2	62.1	63.2
27	1	M-26	B-Residential	1	66	51.3	56.1	59	59.5	59.5	59.9	59.7	62.9
28	1	M-26	B-Residential	1	66	61.5	66	X	X	X	X	X	72.2
29	1	M-26	B-Residential	1	66	60.8	62.8	59.6	X	X	X	X	62.5
30	1	M-26	B-Residential	1	66	63.1	65.2	X	X	X	X	X	X
31	1	M-26	B-Residential	1	66	61.8	65.2	X	X	X	X	X	X
32	1	M-26	B-Residential	1	66	51.9	56.6	58.7	57.5	X	X	X	60.9
33	2	M-24, 25	B-Residential	1	66	51.5	56.6	60.4	59.5	60.4	60.5	60	61
34	2	M-24, 25	B-Residential	1	66	54.8	60.2	64.4	64	64.3	64.2	63.6	66.6
35	2	M-24, 25	B-Residential	1	66	58.6	63.9	69	68.1	68.1	68.2	67.5	69.3
36	2	M-24, 25	B-Residential	1	66	61.9	67	71.8	71.4	70.6	70.6	70	71
37	2	M-24, 25	B-Residential	1	66	67.1	71.9	76	X	75.5	75.5	74.5	74.4
38	2	M-24, 25	B-Residential	1	66	51	56.3	58.6	58.5	59.7	59.7	59.8	63.9
39	2	M-24, 25	B-Residential	1	66	53.4	58.8	62.4	62.1	61.9	61.9	62.2	66.2
40	2	M-24, 25	B-Residential	1	66	63.5	68.2	X	X	71.5	71.5	72.1	73.5
41	2	M-24, 25	B-Residential	1	66	64.1	68.7	X	X	72.1	72.1	72.7	73.2
42	2	M-24, 25	B-Residential	1	66	58.2	63.3	67.1	66.8	66.5	66.5	66.9	66.5
43	2	M-24, 25	B-Residential	1	66	45.6	51.2	53.9	53.8	53.8	53.7	54	52.5
44	2	M-24, 25	B-Residential	1	66	57.1	61.8	X	X	X	X	X	X
45	3	M-23	B-Residential	1	66	65.2	70.3	X	X	X	X	X	X
46	3	M-23	B-Residential	1	66	60	65.3	68.9	69	68.6	68.6	68.1	68.8
47	3	M-23	B-Residential	1	66	57.4	63	65.7	66.4	66.2	66.2	66	63.2
48	3	M-23	B-Residential	1	66	55.1	60.7	63.3	64	63.7	63.7	63.5	62.2
49	3	M-23	B-Residential	1	66	55.7	61.3	63.7	64.7	64.4	64.5	64.2	60.9
50	3	M-23	B-Residential	1	66	56.1	61.7	64.1	64.6	64.8	64.9	64.7	60.5
51	3	M-23	B-Residential	1	66	63.4	68.4	X	X	71.9	X	71.3	X
52	3	M-23	B-Residential	1	66	50.1	55.3	56.8	58.2	57.9	58.1	58	62.4
53	3	M-23	B-Residential	1	66	54.4	59.8	X	X	62.3	X	X	61.4
54	3	M-23	B-Residential	1	66	53.5	59	53.2	X	X	62.7	58	60.4
55	4	M-20, 21, 22	B-Residential	1	66	62.6	67.2	X	X	X	X	X	X
56	4	M-20, 21, 22	B-Residential	1	66	64.2	68.8	X	X	72.4	72.1	71.8	X
57	4	M-20, 21, 22	B-Residential	1	66	63.8	68.4	X	71.7	73.2	71.7	71.1	71.1

I-69 Section 5 Predicted Sound Levels

Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
58	4	M-20, 21, 22	B-Residential	1	66	49.4	54.3	X	58.8	60.9	59.9	59.1	58.2
59	4	M-20, 21, 22	B-Residential	1	66	42.5	42.5	53.3	49.1	50.4	49.6	48.6	47.3
60	4	M-20, 21, 22	B-Residential	1	66	42.5	42.5	49.6	47.9	49.4	48.6	47.8	46.6
61	4	M-20, 21, 22	B-Residential	1	66	42.5	42.5	48.2	46.9	48	47.3	46.8	45.7
62	4	M-20, 21, 22	B-Residential	1	66	58	59.1	67.2	69.7	70.2	69.8	69.1	X
63	4	M-20, 21, 22	B-Residential	1	66	50.1	54.8	58.7	58.8	58.7	58.5	58.5	58
64	4	M-20, 21, 22	B-Residential	1	66	50.2	54.7	59.2	58.7	58.9	58.8	58.7	57.2
65	4	M-20, 21, 22	B-Residential	1	66	49	53.8	58.3	57.8	57.9	57.8	57.8	57.3
66	4	M-20, 21, 22	B-Residential	1	66	51.6	56.3	61	60.4	60.3	60.2	60.2	59.9
67	4	M-20, 21, 22	B-Residential	1	66	43.6	48.7	52.6	52	52.2	52.1	52	48.2
68	4	M-20, 21, 22	B-Residential	1	66	46.2	51.4	X	X	55.4	55.2	X	53.4
69	4	M-20, 21, 22	B-Residential	1	66	42.3	47.3	53.2	52.7	53.7	52.7	52.9	49.9
70	4	M-20, 21, 22	B-Residential	1	66	43.2	48.1	X	X	53.8	52.9	X	50
71	4	M-20, 21, 22	B-Residential	1	66	46.5	51.5	X	X	56.8	55.8	X	X
72	4	M-20, 21, 22	B-Residential	1	66	51.1	56	61.6	61.6	61.6	60.8	62.6	61.3
73	4	M-20, 21, 22	B-Residential	1	66	61.9	66.5	X	X	X	X	X	X
74	4	M-20, 21, 22	B-Residential	1	66	66.1	70.4	X	X	X	X	X	X
75	4	M-20, 21, 22	B-Residential	1	66	62.8	67.2	X	69.7	70.6	69.7	70.9	68.4
76	4	M-20, 21, 22	B-Residential	1	66	52.2	57	X	X	61.6	60.7	61.7	58.7
77	4	M-20, 21, 22	C-Place of Worship	1	66	49.1	53.8	57.9	55.1	57.2	56.3	57.1	56.7
78	4	M-20, 21, 22	B-Residential	1	66	62.2	65	X	X	62.9	62.6	63.6	62
79	4	M-20, 21, 22	B-Residential	1	66	50.2	54.9	59.7	56.6	57.8	57.2	58.2	57.5
80	4	M-20, 21, 22	B-Residential	1	66	62.3	65.4	X	65.4	66.1	65.8	66.7	68.7
81	4	M-20, 21, 22	B-Residential	1	66	58.7	63.3	X	65.4	66.1	66	66.6	69.2
82	4	M-20, 21, 22	B-Residential	1	66	59.4	64	X	66.6	67	67	67.6	67.8
83	4	M-20, 21, 22	B-Residential	1	66	60.6	65.2	X	68	68.4	68.4	68.9	70.9
84	4	M-20, 21, 22	B-Residential	1	66	52.3	57.3	62.8	59.4	60.4	60.5	61	62.5
85	4	M-20, 21, 22	B-Residential	1	66	62.1	66.6	X	69.6	69.9	69.8	70.4	72
86	4	M-20, 21, 22	B-Residential	1	66	62.3	66.8	X	70	70.2	69.9	70.7	71.4
87	4	M-20, 21, 22	B-Residential	1	66	47.5	52.7	55	55.4	55.6	55.5	56	52.2
88	4	M-20, 21, 22	B-Residential	1	66	56.8	61.5	65.7	64.4	64.7	64.3	65	67.5
89	4	M-20, 21, 22	B-Residential	1	66	52.1	56.9	60.4	60	59.9	59.9	59.9	61
90	4	M-20, 21, 22	B-Residential	1	66	47.7	52.9	55.9	55.8	55.5	55.6	55.5	56.2
91	4	M-20, 21, 22	B-Residential	1	66	42.5	45.4	47.7	48	47.6	47.6	47.6	46.8
92	4	M-20, 21, 22	B-Residential	1	66	50.9	55.9	59.4	59	58.8	58.8	58.6	58.3
93	4	M-20, 21, 22	B-Residential	1	66	51	55.9	59.3	58.9	58.7	58.9	58.8	58.1
94	4	M-20, 21, 22	B-Residential	1	66	63.4	67.9	71.6	71.1	71.1	71	71.6	73.2
95	4	M-20, 21, 22	B-Residential	1	66	50.8	56.1	59.1	59	58.8	58.8	58.6	59.5
96	4	M-20, 21, 22	B-Residential	1	66	49.8	54.7	58.4	57.9	57.9	57.9	58	58.8
97	4	M-20, 21, 22	B-Residential	1	66	58.2	63.1	67	66.3	66.3	X	66.7	69.8
98	4	M-20, 21, 22	B-Residential	1	66	62	66.7	71.5	70.6	70.6	70.6	71.1	72.4
99	4	M-20, 21, 22	B-Residential	1	66	58.5	63.4	67.7	66.9	67.2	67.3	67.5	70.5
100	4	M-20, 21, 22	B-Residential	1	66	57.9	62.7	67.1	66.4	66.8	66.8	67.1	70.5
101	4	M-20, 21, 22	B-Residential	1	66	51.2	56.5	X	X	X	59.9	X	X
102	4	M-20, 21, 22	B-Residential	1	66	65.1	69.6	X	X	X	X	X	X
103	4	M-20, 21, 22	B-Residential	1	66	57.8	62.9	X	X	X	X	X	X
104	4	M-20, 21, 22	B-Residential	1	66	69.7	74.2	X	X	X	X	X	X
105	4	M-20, 21, 22	B-Residential	1	66	68.5	73.2	X	X	X	X	X	X
106	4	M-20, 21, 22	B-Residential	1	66	66.8	71.9	X	X	X	X	X	X
107	5	M-18	B-Residential	1	66	44.8	49.7	53	52.8	52.8	52.8	52.8	53.5
108	5	M-18	B-Residential	1	66	46.5	51.7	54.3	54.4	54.9	54.8	54.9	54.1
109	5	M-18	B-Residential	1	66	57.7	63.1	X	X	67.9	67.8	68.3	66.3
110	5	M-18	B-Residential	1	66	67.3	71.8	X	X	X	X	X	X
111	5	M-18	B-Residential	1	66	56	60.8	64.6	64.3	64.5	64.5	64.6	64.2
112	5	M-18	B-Residential	1	66	56.6	61.3	X	X	64.7	64.7	64.8	63.3
113	5	M-18	B-Residential	1	66	51	56.4	X	X	59.3	59.1	59.2	57.9

I-69 Section 5 Predicted Sound Levels

Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
114	5	M-18	B-Residential	1	66	64.6	69.3	X	X	72	72.1	72.2	72.5
115	6	M-17	B-Residential	1	66	67.4	71.9	X	X	X	75.7	74.9	73.1
116	6	M-17	B-Residential	1	66	62.2	67	72	71.1	70.6	70.6	70.1	68.3
117	6	M-17	B-Residential	1	66	55.1	60.3	64.1	63.5	63.3	63.2	63	61.9
118	6	M-17	B-Residential	1	66	52.7	57.5	61	60.9	61	61	60.9	58.3
119	6	M-17	B-Residential	1	66	50	55	57.8	59	58.5	58.6	58.5	56.2
120	6	M-17	B-Residential	1	66	47.3	52.6	54.6	X	56.5	56.7	56.4	53.8
121	6	M-17	B-Residential	1	66	57.1	62.3	66.2	65.7	65.1	65	65.1	65.3
122	6	M-17	B-Residential	1	66	67	71.5	X	X	74.5	74.5	74.3	73.4
123	6	M-17	B-Residential	1	66	70.4	74.9	X	X	X	X	X	X
124	6	M-17	B-Residential	1	66	49.7	54.9	63.2	62.7	62.1	62.5	61.5	58.4
125	6	M-17	B-Residential	1	66	69.3	73.7	X	X	X	X	X	X
126	6	M-17	B-Residential	1	66	58.3	63.6	X	X	X	68.8	X	X
127	6	M-17	B-Residential	1	66	62.7	67.6	X	X	X	X	X	X
128	6	M-17	B-Residential	1	66	63.4	68.2	X	X	71.2	X	71.2	73.1
129	6	M-17	B-Residential	1	66	56.5	61.4	64.6	63.9	64.7	64.9	64.7	64.4
130	6	M-17	C-Place of Worship	1	66	55.1	60.4	X		62.6	62.7	64.3	65.9
131	6	M-17	B-Residential	1	66	44.7	50	52.4	X	52.2	51.3	51.1	50.5
132	6	M-17	B-Residential	1	66	42	47.2	X	X	49.3	48.9	49	47.3
133	6	M-17	B-North Crossover Apartments	4	66	61.3	66.3	X	X	X	69.2	X	X
134	6	M-17	B-Residential	1	66	57.4	62.6	68.2	X	X	65.1	X	X
135	6	M-17	B-Residential	1	66	48	53	55.6	55.9	56.1	55.8	55.8	54.7
136	6	M-17	B-Residential	1	66	43.2	48.4	50.5	50.7	50.6	50.2	50.2	49.9
137	6	M-17	B-Residential	1	66	42.5	45.9	48.1	48.2	48.3	47.9	47.9	47.9
138	6	M-17	B-Residential	1	66	42.5	45.1	47.2	47.3	47.4	47	47	47.1
139	6	M-17	B-Residential	1	66	42.5	43.6	46.1	46	45.9	45.7	45.5	45
140	6	M-17	B-Residential	1	66	42.5	44	46.3	46.3	46.4	46	45.9	45.7
141	6	M-17	B-Residential	1	66	42.5	45.2	X	X	47.5	47.1	47.2	47.1
142	6	M-17	B-Residential	1	66	42.5	44.8	X	X	47.2	46.7	46.8	46.6
143	6	M-17	B-Residential	1	66	53.1	58.2	61.3	60.9	61.1	60.8	60.9	61
144	6	M-17	B-Residential	1	66	59.3	64.3	69.3	68.5	67.4	67.7	67.3	68.5
145	6	M-17	B-Residential	1	66	61.4	66.2	71.3	70.4	69.1	69.9	69.2	71.3
146	6	M-17	B-Residential	1	66	62.2	67	71.8	70.9	69.8	70.8	69.9	70.4
147	6	M-17	B-Residential	1	66	63.5	68.1	72.6	72	71.4	72.1	71.2	72.4
148	6	M-17	B-Residential	1	66	63.9	68.5	72.7	72.2	71.8	72.5	71.6	72.6
149	6	M-17	B-Residential	1	66	60.3	65.3	X	X	X	70.6	X	65.8
150	7	M-14,15,16, 32	B-Residential	1	66	60.4	65.2	X	X	69	71	70	69.8
151	7	M-14,15,16, 32	B-Residential	1	66	59.1	64.4	63.8	64	67.5	65.5	65.3	66.9
152	7	M-14,15,16, 32	B-Residential	1	66	49.9	55.2	60.7	60.4	59.3	60	60.1	58.4
153	7	M-14,15,16, 32	B-Residential	1	66	62.1	66.8	66.5	65.9	70.2	69	66.5	70.9
154	7	M-14,15,16, 32	B-Residential	1	66	58.4	63.4	63.8	63.4	66.4	66.2	63.9	67.4
155	7	M-14,15,16, 32	B-Residential	1	66	56.6	61.7	62.8	62.5	64.9	65	63.1	65.7
156	7	M-14,15,16, 32	B-Residential	1	66	57	62.1	63.4	62.9	65.4	65.2	63.4	65.8
157	7	M-14,15,16, 32	C-Place of Worship	1	66	59.9	64.8	65.1	64.5	68.1	67.8	65.1	70.6
158	7	M-14,15,16, 32	B-Residential	1	66	56.2	61.8	63.1	63.1	64.8	64.3	63.6	63.5
159	7	M-14,15,16, 32	B-Residential	1	66	65.5	70	69.7	68.9	73.5	72.3	69.9	71.8
160	7	M-14,15,16, 32	B-Residential	1	66	58.7	63.9	64.4	64	67.1	66.2	64.5	67.6
161	7	M-14,15,16, 32	B-Residential	1	66	57.9	62.8	63.9	63.4	66.1	65.2	64	65.7
162	7	M-14,15,16, 32	B-Residential	1	66	58.6	63.6	X	X	67.3	X	X	72.2
163	7	M-14,15,16, 32	B-Residential	1	66	68.1	72.6	X	X	X	X	X	X
164	7	M-14,15,16, 32	E-Oliver Winery	1	71	67	71.6	69.2	68.5	74.9	72.5	69.7	70.7
165	7	M-14,15,16, 32	C-Marching Band Practice Facility	1	66	52.4	57.7	63.6	63.3	61.1	62.8	62	60.8
166	7	M-14,15,16, 32	B-Residential	1	66	46.8	51.9	56.9	56.1	55.5	55.4	55.9	54.6

I-69 Section 5 Predicted Sound Levels

Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
167	7	M-14,15,16, 32	C-Place of Worship	1	66	51.5	56.7	61.2	61.1	60.3	61.2	60.7	58.3
168	7	M-14,15,16, 32	C-Cemetery	1	66	56	61.2	69.4	69	64.3	66.7	66.6	65
169	7	M-14,15,16, 32	B-Residential	1	66	47.5	52.7	57.7	57.1	56.4	56.7	57.1	55
170	7	M-14,15,16, 32	B-Residential	1	66	52.1	57.2	62.1	61.9	60.7	61.7	60.8	59.4
171	7	M-14,15,16, 32	B-Residential	1	66	53.9	58.9	63.7	63.4	62.2	63.4	62.9	61.7
172	7	M-14,15,16, 32	B-Residential	1	66	47.5	52.6	57	56.7	55.7	56.4	56.1	55.9
173	7	M-14,15,16, 32	B-Residential	1	66	56.1	61.5	63.3	63.2	65.4	64.8	63.8	58.3
174	7	M-14,15,16, 32	B-Residential	1	66	54.9	60	61.4	60.9	63.3	62.8	62.1	60.3
175	7	M-14,15,16, 32	B-Residential	1	66	65.8	70.3	69.4	68.9	73.7	72.5	70.3	71.6
176	7	M-14,15,16, 32	B-Residential	1	66	56.3	61.6	63.5	63.1	64.8	65.6	63.9	65.5
177	7	M-14,15,16, 32	B-Residential	1	66	52.7	57.9	59.4	59	61.1	61.2	60	59.5
178	7	M-14,15,16, 32	B-Residential	1	66	49.5	54.6	58.6	58.4	57.7	58.6	58.2	57.7
179	7	M-14,15,16, 32	B-Residential	1	66	50	55	59.2	59	58.2	59	59.4	57.3
180	7	M-14,15,16, 32	B-Residential	1	66	50.5	55.5	59.8	59.6	58.7	59.5	60	58.1
181	7	M-14,15,16, 32	B-Residential	1	66	50.9	55.9	59.8	59.5	59.2	59.8	59.7	58.2
182	7	M-14,15,16, 32	B-Residential	1	66	50.7	55.8	60.2	59.9	59.4	60	59.9	58.4
183	7	M-14,15,16, 32	B-Residential	1	66	51.1	56.2	60.8	60.5	59.7	60.8	60.4	58.7
184	7	M-14,15,16, 32	B-Residential	1	66	54.4	59.6	66.2	65.7	63.6	65.2	64.5	63.8
185	7	M-14,15,16, 32	B-Residential	1	66	55.4	60.7	61.6	61.3	64.2	63.7	62.8	61.4
186	7	M-14,15,16, 32	B-Residential	1	66	52.1	57.4	63.6	63.5	61.4	63.1	62.8	62.3
187	7	M-14,15,16, 32	B-Residential	1	66	51.6	56.8	62.4	62.3	61.5	62.5	62.8	61.4
188	8	M-12, 13	B-Residential	1	66	47.8	52.9	57.2	57.3	58	57.6	59.8	57
189	8	M-12, 13	B-Residential	1	66	57.8	62.8	X	X	X	69.2	X	X
190	8	M-12, 13	B-Residential	1	66	56.7	61.9	X	X	X	69.7	X	X
191	8	M-12, 13	B-Residential	1	66	52.2	57.4	65.2	65.1	63.1	63.3	65.2	63.8
192	8	M-12, 13	B-Residential	1	66	52.2	55.8	60.4	60	58.3	58.9	63.8	62.1
193	8	M-12, 13	B-Residential	1	66	52.9	57.5	X	62	62	62.1	64.5	62.8
194	8	M-12, 13	B-Residential	1	66	54.8	59.7	X	X	X	X	X	X
195	8	M-12, 13	B-Residential	1	66	52.8	56.1	X	X	58.5	59	62.2	60.7
196	8	M-12, 13	B-Residential	1	66	54.3	57.7	X	X	X	X	X	63.6
197	8	M-12, 13	B-Residential	1	66	56.1	59.7	X	X	X	X	X	X
198	8	M-12, 13	B-Residential	1	66	54.3	58.8	X	X	X	X	X	X
199	8	M-12, 13	B-Residential	1	66	56.5	61.4	X	X	X	X	X	X
200	8	M-12, 13	B-Residential	1	66	61.7	66.6	X	X	X	X	X	X
201	8	M-12, 13	B-Residential	1	66	62.2	64.4	65.8	65.4	X	X	X	67.5
202	8	M-12, 13	B-Residential	1	66	61.7	63.7	65.2	64.8	66.2	66.7	67	66.5
203	8	M-12, 13	B-Residential	1	66	49.1	50.9	X	X	56.8	57.3	57.7	57.6
204	8	M-12, 13	B-Residential	1	66	54.7	55.8	62.3	60.3	62.2	63.3	67.3	68
205	8	M-12, 13	B-Residential	1	66	52.8	54.1	61.7	60	58.6	59.6	66.1	66.9
206	8	M-12, 13	B-Residential	1	66	58.3	59.5	X	X	X	X	X	X
207	8	M-12, 13	B-Residential	1	66	46.7	50.8	55.6	55.1	54.7	54.8	56	56.5
208	8	M-12, 13	B-Residential	1	66	43.3	47.6	52.6	52.5	51.5	51.5	52.4	51.7
209	8	M-12, 13	B-Residential	1	66	42.5	46.8	52.6	51.4	51.2	51.6	52.6	52.4
210	8	M-12, 13	B-Residential	1	66	44	49.8	X	X	54.1	53.4	55.4	55.1
211	8	M-12, 13	B-Residential	1	66	52.6	58.1	X	X	61.4	60.4	63.9	64.3
212	8	M-12, 13	B-Residential	1	66	55.7	61.3	X	X	X	68.9	X	66.5
213	8	M-12, 13	B-Residential	1	66	55.3	60.6	X	X	64.3	65.3	X	64.6
214	8	M-12, 13	B-Residential	1	66	68.2	73.1	X	X	X	X	X	72.6
215	8	M-12, 13	B-Residential	1	66	51.8	57	57.6	57.7	58.8	59.2	58.8	60.2
216	8	M-12, 13	B-Residential	1	66	63	68	67.2	67.8	70.9	72	71.4	70.8
217	8	M-12, 13	B-Residential	1	66	65.5	70.3	X	X	X	X	X	73.3
218	8	M-12, 13	B-Residential	1	66	65.6	70.8	68.9	69.5	X	73.7	X	72.6
219	8	M-12, 13	B-Residential	1	66	67	71.3	X	X	X	X	X	X
220	8	M-12, 13	B-Residential	1	66	60.2	65.2	X	X	X	71.6	X	X
221	8	M-12, 13	B-Residential	1	66	61.5	66.3	X	X	X	X	X	69.8
222	8	M-12, 13	B-Residential	1	66	64.6	68.9	X	X	X	X	X	X

I-69 Section 5 Predicted Sound Levels

Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
223	8	M-12, 13	B-Residential	1	66	60.7	65.3	X	X	69.5	71.2	70.7	70.4
224	8	M-12, 13	B-Residential	1	66	60.3	64.7	X	X	X	X	X	70.4
225	8	M-12, 13	B-Residential	1	66	62.4	68.2	X	X	X	X	X	X
226	8	M-12, 13	B-Residential	1	66	67.1	72.2	X	X	X	X	X	X
227	8	M-12, 13	B-Residential	1	66	67.4	72.5	X	X	X	X	X	X
228	8	M-12, 13	B-Residential	1	66	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
229	8	M-12, 13	B-Residential	1	66	67.2	72.3	X	X	X	75.6	X	X
230	8	M-12, 13	B-Residential	1	66	65.6	70.8	X	X	X	72.7	X	X
231	8	M-12, 13	B-Residential	1	66	66.1	71.2	X	X	X	74.7	X	X
232	8	M-12, 13	B-Residential	1	66	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
233	8	M-12, 13	B-Residential	1	66	68.4	73.6	X	X	X	X	X	X
234	8	M-12, 13	B-Residential	1	66	57	62.8	X	X	63.2	63.3	X	67.2
235	8	M-12, 13	B-Residential	1	66	42.5	43.1	42.5	42.5	42.7	43.4	43.1	43.7
236	8	M-12, 13	B-Residential	1	66	65.5	69.5	X	X	X	X	X	X
237	8	M-12, 13	B-Residential	1	66	63.4	67.5	X	X	X	X	X	X
238	8	M-12, 13	B-Residential	1	66	53.5	58.4	59.4	59.8	60.5	61.1	61.1	61.5
239	8	M-12, 13	B-Residential	1	66	52.7	57.7	55.8	55.9	55.5	55.7	55.7	59.4
240	8	M-12, 13	B-Residential	1	66	49.8	54.7	51.5	51.6	50.9	51.2	51.4	57.1
241	8	M-12, 13	B-Residential	1	66	48.4	53.4	50.7	50.8	49.7	50	50	55.1
242	8	M-12, 13	B-Residential	1	66	52.8	58.1	X	X	54.7	55	X	62.1
243	8	M-12, 13	B-Residential	1	66	53.9	59.3	X	X	54.9	55.1	X	X
244	8	M-12, 13	B-Residential	1	66	48.4	53.6	50.7	50.8	49.5	49.7	49.7	55.4
245	8	M-12, 13	B-Residential	1	66	49.6	54.7	53.8	53.9	52	52.2	52.2	57.5
246	8	M-12, 13	B-Residential	1	66	48.3	53.3	51.9	51.9	49.5	49.6	49.6	57.2
247	8	M-12, 13	B-Residential	1	66	50	54.9	55.4	55.9	54.4	54.8	54.7	58.7
248	8	M-12, 13	B-Residential	1	66	48.5	53.3	52.7	53.2	52	52.4	52.4	57.5
249	8	M-12, 13	B-Residential	1	66	49.2	54.1	54.5	55	53.7	54.1	53.7	58.8
250	8	M-12, 13	B-Residential	1	66	49.6	54.6	55.6	56.1	54.4	54.7	54.4	59.2
251	8	M-12, 13	B-Residential	1	66	52.3	57.7	X	X	59.7	60.5	59.6	61.9
252	8	M-12, 13	B-Residential	1	66	61.2	66.6	X	X	X	X	X	70
253	8	M-12, 13	B-Residential	1	66	55.7	61.3	65.2	65.8	64.8	65.6	65	64.7
254	8	M-12, 13	B-Residential	1	66	52.2	57.6	X	X	59.8	60.5	59.8	61.5
255	8	M-12, 13	B-Residential	1	66	50.7	55.9	X	X	56.6	57.1	56.5	59.8
256	8	M-12, 13	B-Residential	1	66	46.5	51.5	52.1	52.5	51.8	52	51.6	55.3
257	8	M-12, 13	B-Residential	1	66	47.3	52.1	52.3	52.3	51.8	52.1	51.5	56
258	8	M-12, 13	B-Residential	1	66	46.3	51.4	52.5	52.5	52	52.4	51.6	54.6
259	8	M-12, 13	B-Residential	1	66	48.1	53.2	55.4	55.6	54.4	55.2	54.6	54.3
260	8	M-12, 13	B-Residential	1	66	54.8	60.3	63.4	63.9	64.3	65.2	64.3	60
261	8	M-12, 13	B-Residential	1	66	59.2	64.4	67.9	68.4	68.2	68.4	68.3	68.2
262	8	M-12, 13	B-Residential	1	66	64.2	68.3	X	X	X	75	75.2	75.5
263	9	M-11	B-Residential	1	66	63.6	68.9	X	X	X	X	X	74.4
264	9	M-11	B-Residential	1	66	55.5	60.6	X	X	66.1	66.2	66.7	62.7
265	9	M-11	B-Residential	1	66	57.7	63.1	66.3	X	X	X	X	X
266	9	M-11	B-Residential	1	66	54.3	59.3	X	X	64.9	65.3	65.9	62.2
267	9	M-11	B-Residential	1	66	67.5	72.5	X	X	X	X	X	75.3
268	9	M-11	B-Residential	1	66	42.5	47.7	51.4	53.4	54.1	53.9	54	50.1
269	9	M-11	B-Residential	1	66	43.2	48.9	53.4	54.7	56.1	55.9	55.9	51.4
270	9	M-11	B-Residential	1	66	43.8	49.5	X	55.6	56.9	56.4	56.7	51.8
271	9	M-11	B-Residential	1	66	45.1	50.8	58.1	58.5	59.9	59	59.4	52.8
272	9	M-11	B-Residential	1	66	42.5	47.7	51.1	54.3	55.6	55.6	55.8	51.1
273	9	M-11	B-Residential	1	66	43.5	49.3	53.2	56.1	57.5	57.3	57.7	52.3
274	9	M-11	B-Residential	1	66	44.1	49.9	54.5	57.3	58.5	58	58.3	52.7
275	9	M-11	B-Residential	1	66	46.5	52.2	57.4	60.3	61.4	60.6	61	54.8
276	9	M-11	B-Residential	1	66	47.6	53.5	60.1	60.8	62.3	61.4	61.8	56.3
277	9	M-11	B-Residential	1	66	48.8	54.6	X	X	63.7	62.5	63.1	57.2
278	9	M-11	B-Residential	1	66	52.5	58.3	X	63.3	65.5	65.3	65.7	59.9
279	9	M-11	B-Residential	1	66	57.4	62.8	X	66.3	68	67.6	67.9	63.6

I-69 Section 5 Predicted Sound Levels

Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
280	9	M-11	B-Residential	1	66	59.1	64.4	X	67.8	69.1	68.3	68.9	64.8
281	9	M-11	B-Residential	1	66	63.2	68.1	X	69.8	70.8	69.8	70.9	68.2
282	9	M-11	B-Residential	1	66	69.6	74.5	X	X	X	X	X	X
283	9	M-11	B-Residential	1	66	59.6	65.3	X	X	68.5	67.8	67.7	65.3
284	9	M-11	B-Residential	1	66	58.6	64.4	X	X	67.8	66.2	66.3	64.3
285	9	M-11	B-Residential	1	66	51.8	56.7	X	60	59.9	59.8	59.6	58.1
286	9	M-11	B-Residential	1	66	49.3	53.9	57.9	55.7	55.4	55.4	55.3	53.6
287	9	M-11	B-Residential	1	66	50.2	54.4	53.9	53	52.6	52.7	52.9	51.1
288	9	M-11	B-Residential	1	66	43	48.4	52	52.2	52.2	52.1	52.2	50.4
289	9	M-11	B-Residential	1	66	43.2	48.9	53.4	52.1	52.6	52.3	52.4	50.8
290	10	M-9, 10, 28	B-Residential	1	66	42.5	43	X	47.6	49.4	49.2	49.1	46.9
291	10	M-9, 10, 28	B-Residential	1	66	42.5	43.3	47.6	47.3	49	48.7	48.7	46.8
292	10	M-9, 10, 28	B-Residential	1	66	42.5	42.8	47.1	47	48.6	48.2	48.3	46.4
293	10	M-9, 10, 28	B-Residential	1	66	42.5	42.5	46.6	46.6	48.2	48	48	45.9
294	10	M-9, 10, 28	B-Residential	1	66	42.5	42.5	46.7	46.9	48.5	48.1	48.2	46.1
295	10	M-9, 10, 28	B-Residential	1	66	42.5	42.5	46.7	46.9	48.6	48.3	48.3	46.2
296	10	M-9, 10, 28	B-Residential	1	66	42.5	42.5	46.9	47.1	48.8	48.5	48.6	46.3
297	10	M-9, 10, 28	B-Residential	1	66	42.5	42.5	45.6	45.3	46.8	46.6	46.4	44.3
298	10	M-9, 10, 28	C-Place of Worship	1	66	65.2	70	X	73.9	74.1	74	74.4	70.2
299	10	M-9, 10, 28	E-Offices	1	71	54.2	59.6	62.3	61.9	63.1	62.9	63.3	58
300	10	M-9, 10, 28	B-Residential	1	66	58.9	64.1	69.3	68.1	68.7	68.7	69.3	65.7
301	10	M-9, 10, 28	C-Hospital	1	66	53.2	58.8	63.1	63	63.6	63.6	63.8	59.3
302	10	M-9, 10, 28	C-Place of Worship	1	66	61.2	66.2	71.4	70.3	70.8	70.7	71.1	68.7
303	10	M-9, 10, 28	B-Residential	1	66	53.8	59.4	63.8	64	64.5	64.4	64.6	61.4
304	10	M-9, 10, 28	B-Residential	1	66	57.7	63	68.3	67.6	68	67.9	68.3	65.8
305	10	M-9, 10, 28	B-Residential	1	66	53.4	58.9	63.5	63.7	64	63.9	64.2	62.6
306	10	M-9, 10, 28	B-Residential	1	66	48	53.4	57.4	57.9	57.6	57.8	58.2	58.1
307	10	M-9, 10, 28	B-Residential	1	66	50.7	56.2	60.4	61.1	61.1	61.3	61.5	60.1
308	10	M-9, 10, 28	B-Residential	1	66	56	61.5	66.4	67	66.5	66.8	67.1	66
309	10	M-9, 10, 28	B-Residential	1	66	56.4	61.8	66.7	67.8	67	67.4	67.8	67.3
310	10	M-9, 10, 28	C-Place of worship	1	66	58.7	64	69.3	69.6	68.8	69.5	69.8	69.1
311	10	M-9, 10, 28	NAC C- School tennis court	1	66	52.2	57.6	62.1	62.8	61.5	61.7	61.9	60.5
312	10	M-9, 10, 28	B-Residential	1	66	62.5	67.6	X	X	X	75.1	75.4	73.2
313	10	M-9, 10, 28	B-Residential	1	66	53.3	58.7	63.5	63.5	62.6	62.5	62.4	60.7
314	10	M-9, 10, 28	B-Residential	1	66	53.4	58.8	62.8	63.9	62.6	62.9	62.7	63.3
315	10	M-9, 10, 28	B-Residential	1	66	53.1	58.7	62.7	63.7	62.9	63	63	64
316	10	M-9, 10, 28	C-Place of Worship	1	66	54.1	59.6	63.7	64.7	63.8	64	64.1	64.8
317	10	M-9, 10, 28	B-Residential	1	66	54.7	60.2	64.2	65.2	64.5	64.7	64.8	64
318	10	M-9, 10, 28	B-Residential	1	66	42.5	46.7	49.1	49.9	49.5	49.8	49.7	49.1
319	10	M-9, 10, 28	B-Residential	1	66	44.6	50	51.6	52.7	52.9	53.1	53.1	52.2
320	10	M-9, 10, 28	B-Residential	1	66	47.3	52.8	56	57.2	58.4	58.8	59.1	56.7
321	10	M-9, 10, 28	B-Residential	1	66	47.9	53.3	56.6	57.6	58.8	59	59.4	57.1
322	10	M-9, 10, 28	B-Residential	1	66	51.2	56.8	60.2	61.5	62.6	63	63.3	60.7
323	10	M-9, 10, 28	B-Residential	1	66	49.5	55	58.3	58.9	60.4	60.5	60.9	58.7
324	10	M-9, 10, 28	B-Residential	1	66	42.5	47.8	50.1	52	51	51.2	51	52.8
325	10	M-9, 10, 28	B-Residential	1	66	42.5	47.4	50	51.4	50.6	50.8	50.8	51.7
326	10	M-9, 10, 28	B-Residential	1	66	46.3	51.8	52.7	54.4	54.8	54.9	54.8	55.4
327	10	M-9, 10, 28	B-Residential	1	66	49	54.3	X	X	58.8	58.6	59	58.6
328	10	M-9, 10, 28	E-Restaurant	1	71	56.2	61.7	65.9	67.2	67.5	67.6	67.8	67.3
329	10	M-9, 10, 28	E-Office (Vacant)	1	71	53	58.6	X	X	64.8	65.2	65.4	63.9
330	10	M-9, 10, 28	E-Office (Vacant)	1	71	60.6	65.7	X	X	70.9	70.8	70.8	69.2

I-69 Section 5 Predicted Sound Levels

Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
331	10	M-9, 10, 28	E-Office (Vacant)	1	71	65.2	70.1	X	X	X	X	X	70.7
332	10	M-9, 10, 28	E-Office (Vacant)	1	71	64.9	69.7	X	X	73.4	73	72.9	68.7
333	10	M-9, 10, 28	B-Residential	1	66	53	58.5	61.5	64.3	63	63.3	63.4	62.4
334	10	M-9, 10, 28	B-Residential	1	66	56.9	62.1	X	X	X	X	X	X
335	10	M-9, 10, 28	B-Residential	1	66	49.2	54.5	X	X	58	58.5	58.3	62.2
336	10	M-9, 10, 28	B-Residential	1	66	47.1	52.1	X	X	55.9	56.2	56.2	61.4
337	10	M-9, 10, 28	B-Residential	1	66	47.2	51.7	53.9	55.2	55.3	55.5	55.6	58.8
338	10	M-9, 10, 28	B-Residential	1	66	49.6	52.9	57.2	X	59.1	59	59	62.3
339	10	M-9, 10, 28	B-Residential	1	66	49.7	53.1	X	X	59.3	59.1	59.1	63.2
340	10	M-9, 10, 28	B-Residential	1	66	49	52.3	57	X	58.8	58.6	58.6	62.8
341	10	M-9, 10, 28	B-Residential	1	66	55.4	58.4	62.2	62.9	62.7	62.5	62.4	60.2
342	10	M-9, 10, 28	E-Office	1	71	58.7	61.4	65.2	65.7	65.7	65.5	65.5	63.4
343	10	M-9, 10, 28	B-Residential	1	66	50.3	53	56.7	56.7	58.7	58.6	58.6	62.2
344	10	M-9, 10, 28	B-Residential	1	66	50.7	53.4	57.1	56.9	59.5	59.5	59.5	61.2
345	10	M-9, 10, 28	B-Residential	1	66	52.9	55.6	58.5	59.2	61.5	61.5	61.5	62.3
346	10	M-9, 10, 28	B-Residential	1	66	57.1	59.5	62.7	63.5	65.5	65.4	65.4	65.1
347	10	M-9, 10, 28	B-Residential	1	66	60.4	63	67.7	67.8	68.1	67.9	67.9	66.4
348	10	M-9, 10, 28	B-Residential	1	66	61.5	64	68.6	68.8	69.4	69.2	69.2	68.7
349	10	M-9, 10, 28	B-Residential	1	66	58.8	61.2	65.2	65.6	67.4	67.4	67.4	65.7
350	10	M-9, 10, 28	B-Residential	1	66	60.3	62.8	67.5	67.5	68.9	68.8	68.8	66.9
351	10	M-9, 10, 28	B-Residential	1	66	64.1	66.5	71.8	71.5	71.8	71.7	71.7	70.4
352	11	M-7, 8	B-Residential	1	66	63.1	65.5	70.3	70.1	70.3	70.2	70.2	68.2
353	11	M-7, 8	B-Residential	1	66	59.6	62.1	X	X	X	X	X	64.8
354	11	M-7, 8	B-Residential	1	66	60.3	62.8	67.3	67.1	67.8	67.7	67.7	65.8
355	11	M-7, 8	B-Residential	1	66	56	58.5	63.1	62.9	65.7	65.5	65.5	62.8
356	11	M-7, 8	B-Residential	1	66	53.6	56	61.3	61.1	64.4	64.1	64.1	61.2
357	11	M-7, 8	B-Residential	1	66	53	55.3	59.7	59.6	61.3	61.2	61.2	58.7
358	11	M-7, 8	B-Residential	1	66	54.5	56.8	61.2	61.2	62.2	62.1	62.1	59.8
359	11	M-7, 8	B-Residential	1	66	57.6	60	64.7	64.7	65.1	65	65	62.8
360	11	M-7, 8	B-Residential	1	66	61.3	63.6	68.3	68.4	68.7	68.6	68.6	66.6
361	11	M-7, 8	B-Residential	1	66	62	64.2	68.8	69	69.3	69.2	69.3	67.3
362	11	M-7, 8	B-Residential	1	66	62.1	64.1	68.8	68.9	69	68.9	69	67.8
363	11	M-7, 8	B-Residential	1	66	64.1	65.6	70.5	70.8	70.8	70.8	70.8	69.6
364	11	M-7, 8	B-Residential	1	66	49.7	52.7	57	57.1	54.4	54.9	54.4	53.7
365	11	M-7, 8	B-Residential	1	66	50.2	53.3	X	X	55.2	55.5	55.3	54.2
366	11	M-7, 8	B-Residential	1	66	51.3	54.2	X	X	55.6	55.8	55.7	55
367	11	M-7, 8	B-Residential	1	66	61.8	63.4	X	X	56.7	X	X	X
368	11	M-7, 8	B-Residential	1	66	59.2	61	X	X	56.9	X	X	X
369	11	M-7, 8	B-Residential	1	66	64.9	66.4	X	X	56.7	X	X	X
370	11	M-7, 8	B-Residential	1	66	61.3	62.9	X	X	57	X	X	X
371	11	M-7, 8	B-Residential	1	66	62.3	64	X	62.9	X	X	X	60.7
372	11	M-7, 8	B-Residential	1	66	61.6	63.5	X	X	X	X	X	60.2
373	11	M-7, 8	B-Residential	1	66	63.2	64.9	X	X	X	X	X	X
374	11	M-7, 8	B-Residential	1	66	63.1	65	X	X	X	X	X	X
375	11	M-7, 8	B-Residential	1	66	65.7	67.4	X	X	X	X	X	X
376	11	M-7, 8	B-Residential	1	66	62.5	64.8	X	X	X	X	X	X
377	11	M-7, 8	B-Residential	1	66	42.5	42.5	48	48.1	47.4	47.2	47.3	45.4
378	11	M-7, 8	B-Residential	1	66	42.5	42.5	48.5	48.7	47.4	47.3	47.4	45.6
379	11	M-7, 8	B-Residential	1	66	42.5	45.1	51.2	51.5	49.9	49.8	50	48.3
380	11	M-7, 8	B-Residential	1	66	42.5	44.3	52.2	52.3	49.1	49.1	49.2	47.9
381	11	M-7, 8	B-Residential	1	66	42.5	42.5	48.7	49	46.1	46	46	44.6
382	11	M-7, 8	B-Residential	1	66	42.5	42.5	50.2	50.6	46.6	46.7	46.7	45.1
383	11	M-7, 8	B-Residential	1	66	42.5	42.5	55.1	55.2	47.6	47.6	47.6	45.9
384	11	M-7, 8	B-Residential	1	66	42.5	43.7	X	X	48.9	48.7	48.8	47.3
385	11	M-7, 8	B-Residential	1	66	42.5	42.5	53.9	54.4	46.8	46.8	46.8	46

I-69 Section 5 Predicted Sound Levels

Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
386	11	M-7, 8	B-Arlington Park Apartments	16	66	43.7	46.4	53.2	53.5	51.3	51.3	51.2	49.8
387	11	M-7, 8	B-Arlington Park Apartments	16	66	45	47.5	51.8	52.2	51.9	52.1	52.1	50.3
388	11	M-7, 8	B-Arlington Park Apartments	16	66	45.3	47.9	53	53.2	52.6	52.6	52.6	50.8
389	11	M-7, 8	E- Arlington Park apartments office	1	71	44.6	47.3	54.8	55	52.4	52.3	52.1	50.5
390	11	M-7, 8	C-Arlington Park apartment pool	1	66	45.1	47.8	53.6	53.9	52.5	52.5	52.4	50.5
391	11	M-7, 8	B-Arlington Park Apartments	16	66	43.5	46.4	51.5	51.4	51.5	51.4	51.5	50.8
392	11	M-7, 8	B-Arlington Park Apartments	16	66	45.3	48.1	53.4	53.8	52	51.9	51.8	50.8
393	11	M-7, 8	B-Arlington Park Apartments	16	66	45.8	48.4	52.5	52.9	52.4	52.3	52.3	49.9
394	11	M-7, 8	B-Arlington Park Apartments	16	66	47.2	49.6	53.8	54.1	54.1	54.2	54.2	51.6
395	11	M-7, 8	B-Residential	1	66	42.5	45.5	X	X	53.5	52.6	52.7	51
396	11	M-7, 8	B-Residential	1	66	42.5	45.2	X	X	52.3	51.9	51.2	51.2
397	11	M-7, 8	B-Residential	1	66	42.5	45	51.5	50.3	51.5	50.3	50.8	51.2
398	11	M-7, 8	B-Residential	1	66	42.5	43.1	55.9	56.9	48.5	48.4	48.1	49.3
399	11	M-7, 8	B-Residential	2	66	42.5	42.5	54.3	55.5	47.2	47.4	46.8	48.5
400	11	M-7, 8	B-Residential	1	66	43.2	46.7	X	X	X	54	53.6	54.5
401	11	M-7, 8	B-Residential	1	66	44	47.4	X	X	54.4	54.2	54.1	55
402	11	M-7, 8	B-Residential	1	66	44	47.3	54.3	54.2	54.3	54.2	53.9	54.4
403	11	M-7, 8	B-Residential	1	66	44	47.2	53.5	53.6	53.5	53.6	53.1	53.4
404	11	M-7, 8	B-Residential	1	66	43.2	46.3	53.5	53.6	53.5	53.6	53.3	53.4
405	11	M-7, 8	B-Residential	1	66	42.4	45.6	52.3	52.3	52.3	52.3	51.7	52.3
406	11	M-7, 8	B-Residential	2	66	44.9	48.5	X	X	X	56.3	55.7	53.3
407	11	M-7, 8	B-Residential	1	66	47.5	51	X	X	X	61.6	61.3	61.9
408	11	M-7, 8	B-Residential	2	66	46.9	49.8	X	X	X	57.5	57.5	61.6
409	11	M-7, 8	B-Residential	1	66	45.8	48.5	X	X	X	56	55.8	59.5
410	11	M-7, 8	B-Residential	1	66	45.2	48	X	X	55	54.9	54.8	58.9
411	11	M-7, 8	B-Residential	1	66	44.7	47.6	X	X	54.5	54.5	54.3	58.7
412	11	M-7, 8	B-Residential	1	66	44.8	47.7	X	X	54.2	54.1	54	58.4
413	11	M-7, 8	B-Residential	1	66	44.6	47.5	X	X	53.3	53.2	53.2	58.5
414	11	M-7, 8	B-Residential	1	66	44.5	47.6	X	X	53	53	52.8	58.6
415	11	M-7, 8	B-Residential	1	66	42.5	43.7	52.5	52.5	49.9	49.8	49.8	52.1
416	11	M-7, 8	B-Residential	1	66	42.5	44	52.8	52.8	49.9	49.8	49.7	51.2
417	11	M-7, 8	B-Residential	1	66	42.5	44.8	53.6	53.6	50.6	50.5	50.3	50.9
418	11	M-7, 8	B-Residential	1	66	42.5	45.7	54.4	54.4	51.3	51.2	50.9	50.6
419	11	M-7, 8	B-Residential	1	66	43.3	46.7	55.3	55.3	52	52.1	51.7	50.7
420	11	M-7, 8	B-Residential	1	66	42.5	45.2	54.8	54.8	50.8	50.9	50.5	49.4
421	11	M-7, 8	B-Residential	1	66	40.2	43.5	54	54	49.4	49.3	48.7	48.3
422	11	M-7, 8	B-Residential	1	66	42.5	42.5	50.9	53	46.1	46.3	45.9	45.6
423	11	M-7, 8	B-Residential	1	66	42.5	42.5	50.5	53	45.7	46	45.5	45.4
424	11	M-7, 8	B-Residential	2	66	42.5	43	50.6	53.7	46.8	47	46.7	46.4
425	11	M-7, 8	B-Residential	1	66	42.5	43	50.9	54.4	48	47.8	47.7	47
426	11	M-7, 8	B-Residential	1	66	42.5	43.7	51.1	54.8	48.2	48.2	48.1	47.8
427	11	M-7, 8	B-Residential	1	66	42.5	45.5	51.7	55.2	49.6	49.5	49.4	49.3
428	11	M-7, 8	B-Residential	1	66	42.5	43.1	50.6	53.7	48.5	48.4	48.4	50.4
429	11	M-7, 8	B-Residential	2	66	42.5	44.7	50.9	51.5	49.7	49.5	49.4	56.6
430	11	M-7, 8	B-Residential	2	66	42.5	42.7	49.7	50.2	48.5	48.3	48.2	55.3
431	11	M-7, 8	B-Residential	1	66	50.9	54.2	54.7	55	54.7	55.4	54.8	54.6
432	11	M-7, 8	B-Residential	1	66	51.4	54.7	55.4	55.8	55.8	56.5	55.9	55.2
433	11	M-7, 8	B-Residential	1	66	51.2	54.5	55.6	56.1	56.3	56.8	56.2	55.2

I-69 Section 5 Predicted Sound Levels

Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
434	11	M-7, 8	B-Residential	1	66	52.8	56.2	57.8	58.4	58.7	59.2	58.8	56.8
435	11	M-7, 8	B-Residential	1	66	52.6	56	58.6	59.1	59.2	59.7	59.3	57.2
436	11	M-7, 8	B-Residential	1	66	52.7	56.1	59.6	60.1	60	60.4	60	57.8
437	11	M-7, 8	B-Residential	1	66	53.3	56.8	61.4	61.8	61.4	61.7	61.5	58.6
438	11	M-7, 8	B-Residential	1	66	53.1	56.6	X	X	62.1	62.4	62.2	59
439	11	M-7, 8	B-Residential	1	66	54.8	58.4	X	X	64.7	64.9	65.1	60.5
440	11	M-7, 8	B-Residential	1	66	57.3	60.7	X	X	X	X	X	65.6
441	11	M-7, 8	B-Residential	1	66	51.9	55.5	X	X	X	X	X	X
442	11	M-7, 8	B-Residential	1	66	55.4	59.1	X	X	X	X	X	X
443	11	M-7, 8	B-Residential	1	66	53.5	57	X	X	X	64.8	64.8	61.6
444	11	M-7, 8	B-Residential	1	66	62.5	65.9	70.4	70.8	69.6	69.9	69.3	67.5
445	11	M-7, 8	B-Residential	1	66	61	64.3	68.7	69	68	68.3	67.8	62.6
446	11	M-7, 8	B-Residential	1	66	57.7	61	63	63.5	63.5	64	63.5	59.7
447	11	M-7, 8	B-Residential	1	66	53.5	55.6	53.4	53.8	53.5	54	53.6	52.1
448	11	M-7, 8	B-Residential	1	66	60.6	62.2	56.6	56.9	56.6	57.6	56.8	55.8
449	11	M-7, 8	B-Residential	1	66	63.2	64.7	57.7	58.1	58.3	59.4	58.6	57.4
450	11	M-7, 8	B-Residential	1	66	64.6	66.1	59	59.5	60.2	61.1	60.4	58.7
451	11	M-7, 8	B-Residential	1	66	65.5	67.3	63.3	63.9	64.6	65.4	64.4	63.1
452	11	M-7, 8	B-Residential	1	66	65.7	68.7	70.2	70.7	70.2	71.4	69.7	69.6
453	11	M-7, 8	E-Office	1	71	65.7	68.4	71.3	71.9	70.8	72.1	70.9	68.8
454	11	M-7, 8	E-Office	1	71	64.6	67.6	71.6	71.9	72.2	72.9	71.9	70.8
455	12	M-7	B-Residential	1	66	53.5	58.3	63.4	63.6	60.3	60.8	60.3	60.9
456	12	M-7	B-Residential	1	66	53.5	57.7	62.7	63	59.7	60.1	59.8	60.3
457	12	M-7	B-Residential	1	66	53.3	57.5	62.4	62.7	59.5	59.9	59.4	60.1
458	12	M-7	B-Residential	1	66	52.6	56.8	61.7	62	58.9	59.3	59	59.7
459	12	M-7	B-Residential	1	66	53.7	57.8	62.5	62.8	59.5	60.1	59.5	60.5
460	12	M-7	B-Residential	1	66	53.1	57.2	61.8	62.1	59.1	59.5	59	60.1
461	12	M-7	B-Residential	1	66	54.1	58.2	62.5	62.8	59.8	60.2	59.6	60.7
462	12	M-7	B-Residential	1	66	55	59.2	63.3	63.5	60.4	61	60.1	61.2
463	12	M-7	B-Residential	1	66	48.4	52.7	54.5	54.8	55.1	55.1	54.9	53.6
464	12	M-7	B-Residential	1	66	48.4	52.9	54.5	54.6	55	55	54.4	54.5
465	12	M-7	B-Residential	1	66	56	60.3	63.9	64.1	61.8	61.5	61	61.9
466	12	M-7	B-Residential	1	66	50.9	55.5	57.1	57.1	57.9	58	57.2	57.2
467	12	M-7	B-Residential	1	66	58.2	62.8	65.9	66.2	64.3	64.2	63.8	64.7
468	12	M-7	B-Residential	1	66	55	59.1	61.6	61.5	61.4	61.6	60.8	59.6
469	12	M-7	B-Residential	1	66	60.2	64.7	X	X	66.2	66.2	65.6	66
470	12	M-7	B-Residential	1	66	60.5	65	X	X	66.4	66.4	65.8	66.2
471	12	M-7	B-Residential	1	66	63.9	68.2	X	X	69.3	69.3	68.6	69.1
472	12	M-7	B-Residential	1	66	67.4	71.1	74.9	75.2	74.1	74.3	73.1	72.8
473	12	M-7	B-Residential	1	66	62.8	66.8	69.8	70.7	68.8	68.9	68	68.1
474	12	M-7	B-Residential	1	66	58.7	63	65.8	66.1	64.9	64.8	64.2	65.2
475	12	M-7	B-Residential	1	66	66.6	70.4	74	74.5	73.4	73.8	72.8	71.2
476	12	M-7	B-Residential	1	66	64.7	68.6	71.7	72.6	71.7	72.1	71.2	69.1
477	12	M-7	B-Residential	1	66	63.6	67.5	70.1	71.2	70.3	70.9	69.8	67.3
478	12	M-7	B-Residential	1	66	62.4	66.4	68.8	69.9	68.9	69.5	68.6	66.1
479	12	M-7	B-Residential	1	66	60.9	64.8	66.9	68.1	67.1	67.4	66.5	65
480	12	M-7	B-Residential	1	66	59.4	63.5	66.1	67	65.8	66	65.5	64.1
481	12	M-7	B-Residential	1	66	58.2	62.4	65.2	65.6	64.5	64.7	63.9	63.1
482	12	M-7	B-Residential	1	66	54	58.4	60.9	61.1	61	60.6	60.2	59.7
483	12	M-7	B-Residential	1	66	52.4	56.8	59.8	59.8	59.1	59	58.4	58.6
484	12	M-7	B-Residential	1	66	51.9	56.2	58.8	58.9	58.4	58.3	58.1	58.1
485	12	M-7	B-Residential	1	66	51.3	55.6	58.4	58.6	57.8	57.9	57.4	57.8
486	12	M-7	B-Residential	1	66	56.4	60.5	62.8	63.8	63	63.2	62.7	61.1
487	12	M-7	B-Residential	1	66	51.4	55.7	58.1	58.8	58.4	58.3	57.7	58
488	12	M-7	B-Residential	1	66	50	54.4	57.5	57.8	57.7	57.3	56.9	57.2
489	12	M-7	B-Residential	1	66	56.1	60.1	62.5	63.3	62.7	63	62.3	60.4
490	12	M-7	B-Residential	1	66	55.7	59.5	61.7	62.4	61.6	62.2	61.3	59.5

I-69 Section 5 Predicted Sound Levels

Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
491	12	M-7	E-Office	1	71	64.6	68.3	X	X	71.1	71.7	70.9	70.8
492	12	M-7	E-Restaurant	1	71	63.2	66.9	69.4	70.2	68.5	69.3	68.3	70.3
493	12	M-7	E-Hotel	1	71	59	62.7	65	65.7	64.8	65.5	64.9	63
494	12	M-7	E-Restaurant	1	71	63.4	67.1	69.1	69.6	67.9	68.2	67.8	66.5
495	12	M-7	E-Restaurant	1	71	61.2	64.9	66.7	67.3	66.5	66.6	66.3	66.2
496	12	M-7	E-Hotel	1	71	57.3	60.6	63.3	64	62.8	63	62.7	60.5
497	12	M-7	E-Hotel	1	71	57.1	60.1	62.7	63.2	63	63.1	63.1	60.4
498	12	M-7	E-Hotel	1	71	61.8	65	X	X	68.3	68.3	68.4	66.5
499	12	M-7	E-Restaurant	1	71	58.2	60.6	63.7	64.2	64.1	64.1	64.1	60.9
500	12	M-7	E-Restaurant	1	71	62.4	63.9	X	X	68.1	68.2	68.1	X
501	12	M-7	E-Restaurant	1	71	60.1	61.8	65.6	66	65.7	65.7	65.3	61.8
502	12	M-7	B-Residential	2	66	56.4	59	62.4	62.6	61.9	62.1	61.7	58.2
503	12	M-7	B-Residential	2	66	57.9	60.2	64.3	64.5	63.6	63.8	63.7	59.6
504	12	M-7	B-Residential	2	66	58.5	60.6	65.2	65.5	64.3	64.5	64.8	60
505	12	M-7	B-Residential	2	66	57	59.3	63.3	64.2	61.7	61.8	62.6	58.5
506	12	M-7	B-Residential	2	66	58	60	65	65.5	64	64.2	63.5	59.2
507	12	M-7	B-Residential	1	66	59.2	60.9	64.6	65.9	64.4	64.5	64.5	60.3
508	12	M-7	B-Residential	1	66	56.7	58.7	63.3	63.9	62.2	62.4	61.8	57.8
509	12	M-7	B-Residential	1	66	57.1	59.1	63.7	64.3	62.6	62.8	62	57.9
510	12	M-7	B-Residential	1	66	57.6	59.4	64.4	64.9	63.3	63.4	62.2	58.2
511	12	M-7	B-Residential	1	66	58.2	59.9	65	65.5	64.1	64.2	62.7	58.6
512	12	M-7	B-Residential	1	66	57.3	59.1	64.2	64.7	63	63.2	61.8	57.8
513	12	M-7	B-Residential	1	66	59.4	61	65.9	66.5	65.5	65.6	64.3	60
514	12	M-7	B-Residential	1	66	59.3	60.9	66	66.5	65.2	65.4	64.1	59.8
515	12	M-7	B-Residential	1	66	58.8	60.3	65.5	66	64.7	64.8	63.7	59.3
516	12	M-7	E-Restaurant	1	71	65.6	66.9	60.2	60.8	70.7	70.8	70.8	65.9
517	12	M-7	E-Office	1	71	65.2	66.5	64.2	X	64.1	X	X	69
518	12	M-7	E-Restaurant (Vacant)	1	71	61.6	65.5	X	X	X	X	X	73.2
519	12	M-7	E-Restaurant	1	71	66.1	69.6	71.2	72.2	71.9	72.4	73	73.2
520	12	M-7	E-Bank	1	71	66.4	69.9	71.6	72.5	72.3	72.8	73.3	72.2
521	12	M-7	E-Restaurant	1	71	66.1	69.5	71.5	72.6	72.3	72.7	73.2	73.7
522	12	M-7	E-Office	1	71	68.1	71.3	73.9	X	74.4	74.7	75.3	70.6
523	12	M-7	E-Restaurant	1	71	61.2	64.9	67.7	68.9	68.8	69.5	69.8	69
524	12	M-7	E-Restaurant	1	71	61.5	63.2	67.7	68.2	69.8	69.8	69.9	66.6
525	12	M-7	E-Restaurant	1	71	61.3	63	68.5	68.9	68.3	68.3	68.4	64.5
526	12	M-7	E-Restaurant	1	71	61.1	62.6	X	X	67.2	67.3	67.3	63.2
527	12	M-7	E-Bank	1	71	49.6	52	55.7	56.2	56.3	56.3	56.4	53
528	12	M-7	E-Office	1	71	51.6	53.8	57.8	58.3	58	58	58.1	54.5
529	12	M-7	E-Office	1	71	54	56	X	X	59.7	59.8	59.8	56.2
530	12	M-7	E-Restaurant	1	71	57.8	59.5	X	64.3	62.9	63	63	59.2
531	12	M-7	E-Restaurant	1	71	63.7	65	X	X	68.5	68.6	68.6	64.6
532	12	M-7	E-Restaurant	1	71	63.7	65.1	X	X	68.7	68.9	68.9	65
533	12	M-7	E-Restaurant	1	71	62.5	64	X	68.8	68	68.5	68.5	64.9
534	13	M-5, 6	E-Hotel	1	71	59	63	67.8	68.5	68.4	69.1	69.1	65.2
535	13	M-5, 6	E-Office	1	71	54	57.2	60	60.4	62.3	61.6	61.6	61.2
536	13	M-5, 6	E-Office	1	71	58	59.7	X	X	64.3	63.8	63.8	63.5
537	13	M-5, 6	E-Restaurant	1	71	62.2	63.6	X	X	68.3	67.8	68	65.9
538	13	M-5, 6	E-Bank	1	71	63.7	64.9	X	X	70.3	70	70.5	66.9
539	13	M-5, 6	E-Movie theater	1	71	59.7	63.3	66.5	67.3	64.7	66	65.9	63
540	13	M-5, 6	B-Residential	1	66	62.3	63.6	67.4	70	67	69.4	69.4	64.7
541	13	M-5, 6	B-Residential	1	66	59.9	61.4	65.7	67.1	64.9	64.1	64.1	59.8
542	13	M-5, 6	B-Residential	1	66	60.8	62.2	66.1	67.2	65.7	66.1	66.2	62.4
543	13	M-5, 6	B-Residential	1	66	58.3	60	64	65.4	63.3	63.7	63.7	60.9
544	13	M-5, 6	B-Residential	1	66	57.1	59	63	63.6	62	62.6	62.5	60.3
545	13	M-5, 6	B-Residential	1	66	56.4	58.6	62.6	63.1	61.4	62.3	62.1	60.1
546	13	M-5, 6	B-Residential	1	66	55.7	58.1	62.1	62.7	61.2	62.2	62	59.7

I-69 Section 5 Predicted Sound Levels

Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
547	13	M-5, 6	B-Residential	1	66	55.6	58.2	61.9	62.5	61	62.1	61.9	59.8
548	13	M-5, 6	B-Residential	1	66	55.8	58.7	62.3	62.8	61.7	62.9	62.6	60.4
549	13	M-5, 6	B-Residential	1	66	54.7	57.6	61.2	61.7	60.1	61.3	61.2	59.4
550	13	M-5, 6	B-Residential	1	66	53.7	56.5	60.2	60.9	59.1	60	60.1	58.3
551	13	M-5, 6	B-Residential	1	66	52.2	54.5	57.9	58.8	57.4	58.1	58.2	54.9
552	13	M-5, 6	B-Residential	1	66	52.8	55	58.6	59.6	58.2	58.8	58.8	55.6
553	13	M-5, 6	B-Residential	1	66	52.6	54.8	58.2	59.2	57.8	58.7	58.6	55.1
554	13	M-5, 6	B-Residential	1	66	53.6	55.8	59.7	60.9	58.9	59.4	59.3	56.2
555	13	M-5, 6	B-Residential	1	66	54.9	56.9	61.6	63.7	60.4	60.7	60.6	57.4
556	13	M-5, 6	B-Residential	1	66	56.8	58.5	63.4	65.7	62.2	62.5	62.4	58.7
557	13	M-5, 6	B-Residential	1	66	58	59.6	64.5	66.3	63.1	63	62.9	59.1
558	13	M-5, 6	B-Residential	1	66	57	58.6	62.8	62.4	62.3	62.1	62	58.3
559	13	M-5, 6	B-Residential	1	66	55.3	57.2	61.2	62.2	60.6	60.9	60.9	57.5
560	13	M-5, 6	B-Residential	1	66	53.6	55.7	59.4	60.2	58.9	59.4	59.4	56
561	13	M-5, 6	E-Office, Village at Muller Park	1	71	49.4	51.8	56.6	57	55.2	55.4	55.4	52.5
562	13	M-5, 6	B-Village at Muller Park Apartments	32	66	48.8	50.9	54.6	55.5	54	54.2	54.3	52.2
563	13	M-5, 6	B-Village at Muller Park Apartments	48	66	50	52.4	56.5	57.1	55.2	55.7	55.7	53.9
564	13	M-5, 6	B-Village at Muller Park Apartments	36	66	44.5	47	50.5	51.3	49.8	49.9	49.8	46.8
565	13	M-5, 6	B-Village at Muller Park Apartments	6	66	46.7	49	52.7	53.5	52.2	52.5	52.4	49.6
566	13	M-5, 6	B-Village at Muller Park Apartments	24	66	48.9	51.5	54.8	55.4	54.1	54.2	54.2	51.5
567	13	M-5, 6	B-Village at Muller Park Apartments	24	66	47.5	50.1	53.8	54.4	53.3	53.5	53.3	50.9
568	13	M-5, 6	B-Village at Muller Park Apartments	24	66	45.6	48.3	51.7	52.4	51.5	51.5	51.6	49.1
569	13	M-5, 6	B-Village at Muller Park Apartments	24	66	44.7	47.3	50.5	51	50.3	50.3	50.2	47.5
570	13	M-5, 6	B-Village at Muller Park Apartments	24	66	44.2	47.1	50.2	50.8	50.5	50.5	50.5	48
571	13	M-5, 6	B-Village at Muller Park Apartments	24	66	44.7	47.6	50.8	51.2	51.2	51.2	51.2	48.6
572	13	M-5, 6	B-Cantebury Townhomes	12	66	42.5	45.4	48	48.5	49.3	49.2	49.1	46.6
573	13	M-5, 6	B-Cantebury Townhomes	12	66	43.1	46.3	49.2	49.7	49.9	49.9	49.9	47.2
574	13	M-5, 6	B-Cantebury Townhomes	8	66	42.5	43.6	47.1	47.9	47.2	47	47	44
575	13	M-5, 6	B-Cantebury Townhomes	12	66	46	50	52.1	52.9	53.3	53.8	53.8	51.1
576	13	M-5, 6	B-Cantebury Townhomes	8	66	44.5	48.2	50	50.7	51.3	51.8	51.8	48.4
577	13	M-5, 6	B-Cantebury Townhomes	16	66	44	47.3	49.2	49.9	50.3	50.5	50.6	47.4
578	13	M-5, 6	B-Cantebury Townhomes	8	66	45.4	48.4	51.4	52	52	52.3	52.3	48.8
579	13	M-5, 6	B-Cantebury Townhomes	12	66	46.8	49.8	52.2	52.9	52.8	53.1	53.1	49.9

I-69 Section 5 Predicted Sound Levels													
Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
580	13	M-5, 6	B-Cantebury Townhomes	12	66	47	50.2	52.2	52.9	52.8	53	53	50.3
581	13	M-5, 6	B-Cantebury Townhomes	12	66	49	52	X	X	55.9	56.3	56.1	52.5
582	13	M-5, 6	B-Cantebury Townhomes	12	66	47.4	50.2	53.4	44.5	54	54.5	54.5	50.6
583	13	M-5, 6	B-Cantebury Townhomes	12	66	42.5	42.5	43.3	44	43.7	43.8	43.8	43.5
584	13	M-5, 6	B-Cantebury Townhomes	12	66	42.5	45	49.9	50.5	47.8	48.1	48.1	46.1
585	13	M-5, 6	B-Cantebury Townhomes	16	66	42.5	44.1	47.8	48.2	47.1	47.2	47.1	44.3
586	13	M-5, 6	B-Cantebury Townhomes	8	66	42.5	42.5	44.8	45.3	45.2	45.2	45.2	43.2
587	13	M-5, 6	B-Cantebury Townhomes	8	66	42.5	42.5	43.8	44.4	44.2	44.4	44.4	42.5
588	13	M-5, 6	B-Cantebury Townhomes	8	66	43.4	46	49.2	49.7	48.4	48.4	48.3	45.3
589	13	M-5, 6	E-Cantebury Townhome Office	1	71	45	47.4	50.6	51.4	50.3	50.2	50.1	46.2
590	13	M-5, 6	C-Cantebury Townhomes Pool	1	66	43.3	45.9	48.8	49.3	48.7	48.8	48.6	45.4
591	13	M-5, 6	B-Forest Ridge	10	66	48.4	52.8	55.4	56.1	56.4	56.9	56.9	57.3
592	13	M-5, 6	B-Forest Ridge	20	66	61.5	65.3	69.8	70.3	70.4	71.1	71.1	71
593	13	M-5, 6	B-Forest Ridge	20	66	59.7	63.8	68.5	69	69.9	70.5	70.5	72.2
594	13	M-5, 6	B-Forest Ridge	20	66	51	55.2	59	59.8	60.7	61.8	61.8	60.2
595	13	M-5, 6	B-Forest Ridge	32	66	63.4	67.3	70.4	70.5	70.7	70.7	70.7	72.2
596	13	M-5, 6	B-Forest Ridge	8	66	67.4	70.8	73.9	74.4	74.3	74	74	72.4
597	13	M-5, 6	B-Copper Beech	24	66	51.2	55.2	57.7	58.3	60.2	59.9	59.9	58.2
598	13	M-5, 6	B-Copper Beech	16	66	52.3	56.3	58.8	59.3	61.3	61	61	59.2
599	13	M-5, 6	B-Copper Beech	16	66	55.1	59	61.5	61.9	63.4	63.1	63	61
600	13	M-5, 6	B-Copper Beech	16	66	57.4	61.2	63.8	64.2	65.5	64.9	64.9	63.4
601	13	M-5, 6	B-Copper Beech-	25	66	63.3	66.8	68.9	69	69.5	68.6	68.6	68.3
602	13	M-5, 6	B-Copper Beech	8	66	45.3	49.4	52.8	53.1	55.4	54.8	54.8	53.7
603	13	M-5, 6	B-Copper Beech	8	66	48.8	52.9	56	56.4	58.8	58.7	58.7	56.6
604	13	M-5, 6	B-Bradford Ridge Apartments	30	66	61.3	65.2	66.1	66.8	67.7	67.1	67.1	66.5
605	13	M-5, 6	B-Bradford Ridge Apartments	30	66	60	63.9	64.7	65	67.3	67	67	67.4
606	13	M-5, 6	B-Bradford Ridge Apartments	30	66	44.3	47.9	46.9	47.5	50.9	49.7	49.7	48.3
607	13	M-5, 6	B-Basswood Apartments	30	66	60	63.9	63.3	63.6	68	67.3	67.3	66
608	13	M-5, 6	B-Basswood Apartments	30	66	48.8	52.2	51.5	51.7	55.5	54.2	54.3	52.9
609	13	M-5, 6	B-Basswood Apartments	30	66	60.9	64.4	62.8	62.9	70.4	69.7	69.7	66.9
610	13	M-5, 6	C-Basswood Apartments-Poo l/ Clubhouse	1	66	56.3	59.7	59.4	59.2	64.6	64.5	64.4	61.1
611	13	M-5, 6	B-Basswood Apartments-	30	66	55.2	58.3	58.2	58.1	61.9	61.1	61.1	58.9
612	13	M-5, 6	C-Basswood	1	66	58.9	62.4	60.5	60.6	67.4	67.3	67.3	62.7

I-69 Section 5 Predicted Sound Levels													
Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
			Apartments-Tennis Court										
613	13	M-5, 6	B-Basswood Apartments	30	66	58.4	61.3	59.3	59.2	65.2	64.8	64.7	62.1
614	13	M-5, 6	B-Basswood Apartments-	20	66	55.5	57.8	58.4	58	60.3	60.4	60.4	57.8
614A	13	M-5, 6	E-Hotel	84	71	60.4	61.7	61.5	60.9	61.7	61.9	61.9	58.9
615	13	M-5, 6	B-Basswood Apartments	24	66	52.7	54.9	56.5	56.1	57.7	57.5	57.5	55.3
616	13	M-5, 6	B-Basswood Apartments	20	66	53.2	55.9	56.7	56.5	58.3	58	58	55.8
617	14	M-4, 31	B-Residential	1	66	55.3	56.5	48.8	48.6	51.5	50.2	50.2	48.9
618	14	M-4, 31	B-Residential	1	66	53.7	54.9	49.2	48.9	52.6	52.4	52.3	49.2
619	14	M-4, 31	B-Residential	1	66	52.8	54.1	51.5	51.1	53.7	53.3	53.3	49.6
620	14	M-4, 31	B-Residential	1	66	50.6	52.1	52.1	51.6	53.4	52.9	52.9	49.1
621	14	M-4, 31	B-Residential	1	66	50.9	52.6	53.7	53.2	54.7	54	54.1	50.1
622	14	M-4, 31	B-Residential	1	66	53.8	55.1	54.2	53.6	55.5	55	55	50.8
623	14	M-4, 31	B-Residential	1	66	58.5	59.7	55.4	54.9	56.6	56.2	56.2	52.6
624	14	M-4, 31	B-Residential	1	66	55.1	56.5	59.1	58.4	60.8	60.4	60.4	54.9
625	14	M-4, 31	B-Residential	6	66	58.3	59.5	X	X	63.7	63.6	63.6	58
626	14	M-4, 31	B-Oakdale Square	6	66	56	57.9	60.8	60.1	63.2	61.9	61.9	57.6
627	14	M-4, 31	B-Oakdale Square	6	66	54.3	56.3	59.7	59.1	61.8	60.4	60.3	55.8
628	14	M-4, 31	B-Oakdale Square	8	66	47.5	49.7	53.6	53.3	54.7	54.5	54.5	57
629	14	M-4, 31	B-Oakdale Square	8	66	57.3	59.3	62.9	62.4	65.3	63.5	63.5	60.1
630	14	M-4, 31	B-Oakdale Square	6	66	57.6	59.7	63.2	62.7	66	64.1	64.1	60.2
631	14	M-4, 31	B-Oakdale Square	6	66	60	62.1	64.5	X	68.2	66.3	66.2	62.5
632	14	M-4, 31	B-Oakdale Square	6	66	59.3	61.7	64.8	X	67.7	66	66	62.4
633	14	M-4, 31	B-Oakdale Square	8	66	59.9	62.4	65.2	65.4	67.5	66.3	66.2	62.8
634	14	M-4, 31	B-Oakdale Square	6	66	67.3	71.1	71.5	73.5	74.8	72.3	72.2	69.7
635	14	M-4, 31	B-Oakdale Square	8	66	52.7	54.9	58.7	58.5	59.8	59.1	59.1	57.6
636	14	M-4, 31	B-Oakdale Square	8	66	52.7	54.9	58.7	58.5	59.8	59.1	59.1	57.6
637	14	M-4, 31	B-Oakdale Square	8	66	53	55.4	59.3	59	60.7	60.1	60.1	56
638	14	M-4, 31	B-Oakdale Square	8	66	66	70.1	68.8	70.3	73.7	66.7	66.7	66
639	14	M-4, 31	B-Oakdale Square	8	66	50.2	54	57.1	57.5	57.6	56.6	56.6	59
640	14	M-4, 31	B-Oakdale Square	8	66	52.1	55.3	44.5	44.8	58.9	58.4	58.4	58.5
641	14	M-4, 31	B-Oakdale Square	6	66	52.6	55.7	44.5	44.7	58.7	59.3	59.3	57.9
642	14	M-4, 31	B-Oakdale Square	6	66	52.2	55.8	57.3	57.5	58.8	58.8	58.9	57.4
643	14	M-4, 31	B-Oakdale Square	8	66	58.9	63.3	63.2	63.6	67.4	61.3	61.3	59.7
644	14	M-4, 31	B-Oakdale Square	6	66	61.2	65.7	65.9	66.5	70.3	63	63	63.4

I-69 Section 5 Predicted Sound Levels

Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
645	14	M-4, 31	B-Oakdale Square	6	66	62.9	67.3	67.9	68.6	71.4	64.1	64	63.5
646	14	M-4, 31	B-Oakdale Square	12	66	68	72.3	72.9	74.2	75.6	67	67	69
647	14	M-4, 31	B-Oakdale Square	8	66	61.3	65.7	66.7	67.2	70.3	62.7	62.7	64.4
648	14	M-4, 31	B-Oakdale Square	8	66	60.9	65.4	66.3	66.6	70.1	62.1	62.1	65.4
649	14	M-4, 31	C-Wapehani Mtn. Bike Park	1	66	33.2	38.1	40.2	40.9	41	41.2	41.2	40.8
650	14	M-4, 31	E-Office	1	71	56.3	58.8	59.5	X	60.2	61.5	X	58.5
651	14	M-4, 31	E-Office	1	71	52.5	56.5	59.1	56.7	60	60.1	59.8	59.2
652	14	M-4, 31	E-Office	1	71	48.1	51.7	53.7	52	53.7	54.7	54.3	53.4
653	14	M-4, 31	E-Office	1	71	49.3	51.7	50.1	50.4	50	51.4	51.5	48.9
654	15	M-1, 2	B-Residential	1	66	50.4	59.5	65	64	65	X	65	62.7
655	15	M-1, 2	B-Residential	1	66	50.5	60.3	X	X	X	X	X	X
656	15	M-1, 2	B-Residential	1	66	42.5	49.1	X	X	X	X	X	63.6
657	15	M-1, 2	B-Residential	1	66	42.5	48.9	X	X	X	X	X	X
658	15	M-1, 2	B-Residential	1	66	42.5	47.5	X	X	X	X	X	X
659	15	M-1, 2	B-Residential	1	66	42.5	48.7	X	X	X	X	X	X
660	15	M-1, 2	B-Residential	1	66	42.5	50.9	58	57.6	60.7	X	59.4	57.7
661	15	M-1, 2	B-Residential	1	66	46.8	56	58	57.6	57.7	61.3	57.1	56.3
662	15	M-1, 2	B-Residential	1	66	51.5	61	57	56	55.5	58.1	55	56.7
663	15	M-1, 2	B-Residential	1	66	50	59.3	57	55.3	53.4	55.2	53.1	56.4
664	15	M-1, 2	B-Residential	1	66	48	57.4	53.9	53.5	X	X	X	58.4
665	15	M-1, 2	B-Residential	1	66	42.5	45.4	X	X	X	X	X	X
666	15	M-1, 2	B-Residential	1	66	42.5	45	X	X	X	X	X	58.1
667	15	M-1, 2	B-Residential	1	66	42.5	47.9	X	X	X	X	X	X
668	15	M-1, 2	B-Residential	1	66	42.5	45.6	X	X	X	X	X	X
669	15	M-1, 2	B-Residential	1	66	42.5	47.9	X	X	X	X	X	X
670	15	M-1, 2	B-Residential	1	66	42.5	49.3	X	X	X	X	X	X
671	15	M-1, 2	B-Residential	1	66	42.5	48	X	X	X	X	X	X
672	15	M-1, 2	B-Residential	1	66	42.5	43	59	58.1	54	X	54.4	52
673	15	M-1, 2	B-Residential	1	66	42.5	42.5	55	53.4	51.9	X	52.1	49.8
674	15	M-1, 2	B-Residential	1	66	42.5	42.5	51	49.2	50.1	X	50.3	48.1
675	15	M-1, 2	B-Residential	1	66	42.5	48.8	56	54.5	54.6	55.1	55.7	54.2
676	15	M-1, 2	B-Residential	1	66	46.6	53.1	63	61.7	60.2	61	61.2	57
677	15	M-1, 2	B-Residential	1	66	54	60.3	67.2	67.6	67.2	67.6	68.8	62.6
678	15	M-1, 2	B-Residential	1	66	48.6	55	63	62.8	62.8	63.4	64	60.4
679	15	M-1, 2	B-Residential	1	66	48.5	54.8	63	63.3	62.7	63.3	64.2	60.7
680	15	M-1, 2	B-Residential	1	66	54.4	61	67.7	68.2	67.7	68.2	68.8	64.2
681	15	M-1, 2	B-Residential	1	66	53.6	60.2	65.9	63.2	65.9	66.5	66.5	63.8
682	15	M-1, 2	B-Residential	1	66	50.5	57	61.7	56.1	62.3	63.4	63.3	60.6
683	15	M-1, 2	B-Residential	1	66	45.3	52	53.6	49.5	53.1	53.4	53.3	52.6
684	15	M-1, 2	B-Residential	1	66	65.3	71.3	69.7	70.9	71	71.6	72.3	69.5
685	15	M-1, 2	B-Residential	1	66	51.1	57.7	56	56.5	57.2	57.7	57.7	55.6
686	15	M-1, 2	B-Residential	1	66	52.1	58.8	57	57.4	58.7	59.2	59.5	57.1
687	15	M-1, 2	B-Residential	1	66	55.7	62.4	60	60.2	64	64.6	65	62.5
688	15	M-1, 2	B-Residential	1	66	51.4	57.7	56	55.2	58	58.6	60.4	58.3
689	15	M-1, 2	B-Residential	1	66	50.8	57.1	59	56.9	58.2	59	59.4	58.5
690	15	M-1, 2	B-Residential	1	66	49.6	55.7	56	55.4	57.8	58.3	59.5	57.5
691	15	M-1, 2	B-Residential	1	66	53	58.8	56	58.7	60.6	61.2	62.1	59.8
692	15	M-1, 2	B-Residential	1	66	48.8	54.7	57	55	56.6	57.1	57.7	56.1
693	15	M-1, 2	B-Residential	1	66	49.9	55.6	56	55.3	57.4	57.9	58.8	57
694	15	M-1, 2	B-Residential	1	66	52.3	57.6	57	56.9	58.5	59	60	58.1
695	15	M-1, 2	B-Residential	1	66	51.8	56.4	55	55	55.8	56.3	57.8	56.7
696	15	M-1, 2	B-Residential	1	66	51.2	55.5	54	53.8	54.3	55	55.6	55.3
697	15	M-1, 2	B-Residential	1	66	47.5	52.5	53	52.6	53.2	53.8	54.2	53.3

I-69 Section 5 Predicted Sound Levels

Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
698	15	M-1, 2	B-Residential	1	66	49.3	53.7	52	51.6	53.2	53.8	53.8	53.2
699	15	M-1, 2	B-Residential	1	66	50.4	54.5	53	52.6	53.1	53.7	54	54.1
700	15	M-1, 2	B-Residential	1	66	53.1	56.8	54	53.5	53.7	54.3	54.7	55.4
701	15	M-1, 2	B-Residential	1	66	55.4	62	60	60	64.1	64.7	64.5	63
702	15	M-1, 2	B-Residential	1	66	54.8	60.8	58	58.5	62	62.7	61.1	59.9
703	15	M-1, 2	B-Residential	1	66	53.6	59.4	59	58.5	61.6	62.1	63.2	60.6
704	15	M-1, 2	B-Residential	1	66	54	59	60	59	59.4	59.9	62.4	60.8
705	15	M-1, 2	B-Residential	1	66	56.7	60.8	59	59.2	58.6	59	61.4	61.1
706	15	M-1, 2	B-Residential	1	66	62.2	65.5	X	X	57.9	58.3	59.7	63.2
707	15	M-1, 2	B-Residential	1	66	61.1	64.6	X	X	60.3	60.6	62.7	63.3
708	15	M-1, 2	B-Residential	1	66	60.1	64.4	62	61.4	63.5	63.8	66.8	64.2
709	15	M-1, 2	B-Residential	1	66	62.1	66.6	X	X	X	X	X	X
710	15	M-1, 2	B-Residential	1	66	63.9	68.9	X	X	X	X	X	X
711	15	M-1, 2	B-Residential	1	66	61.2	66.8	X	X	X	X	X	65.7
712	15	M-1, 2	B-Residential	1	66	61	64.7	X	X	X	X	X	63.5
713	15	M-1, 2	B-Residential	1	66	61	64.7	X	X	60.1	59.5	59.2	63.5
714	15	M-1, 2	B-Residential	1	66	61.7	65.1	X	X	59.3	59	59	65.1
715	15	M-1, 2	B-Residential	1	66	60.9	64.3	X	X	58.6	58.4	58.5	64.3
716	15	M-1, 2	B-Residential	1	66	62.3	65.5	X	60.5	57.2	57.4	57.2	65.1
717	15	M-1, 2	B-Residential	1	66	59.7	63	57	56.9	55.4	56.1	55.7	62.7
718	15	M-1, 2	B-Residential	1	66	61	64.2	55	54.8	54.8	55.4	55.8	64.4
719	15	M-1, 2	B-Residential	1	66	49	53.5	52	52.5	51.5	52.3	52.2	51.3
720	15	M-1, 2	B-Residential	1	66	45.6	50.8	50	49.2	51.3	51.3	51	49
721	15	M-1, 2	B-Residential	1	66	47.1	50.9	48.1	49.2	46.3	48.5	47.9	48.3
722	15	M-1, 2	B-Residential	1	66	48.3	52.1	49.1	50.4	56.2	50	49.5	49.7
723	15	M-1, 2	B-Residential	1	66	53.1	58.5	57	56.9	59.1	59.5	59.6	53.1
724	15	M-1, 2	B-Residential	1	66	53.1	58.8	57	57	59.4	59.9	59.4	53.9
725	15	M-1, 2	B-Residential	1	66	51.3	57	56	55.9	57.6	58.1	58.3	52.6
726	15	M-1, 2	B-Residential	1	66	48.8	54.7	55	54.3	56.1	56.6	56.9	50.9
727	15	M-1, 2	B-Residential	1	66	47.8	53.8	54	53.3	55	55.4	55.9	50.5
728	16	M-2, 3, 31	B-Residential	1	66	46.7	52.5	54	52.8	53.9	54.3	54.1	48.3
729	16	M-2, 3, 31	B-Residential	1	66	46.6	52.5	55	54.6	55.1	55.3	54.8	51.9
730	16	M-2, 3, 31	B-Residential	1	66	49.2	55.1	59	58	58.3	58.5	58.1	56.1
731	16	M-2, 3, 31	B-Residential	1	66	49.7	55.3	61	59.4	59.2	59.5	58.9	56.1
732	16	M-2, 3, 31	C-Hospital	1	66	63.3	69.3	67.2	66.6	73.2	73.6	73.2	70.2
733	16	M-2, 3, 31	E-Office	1	71	54.4	59.3	X	X	X	X	X	58.5
734	16	M-2, 3, 31	E-Office	1	71	55	59.4	X	X	X	X	X	57.5
735	16	M-2, 3, 31	E-Office	1	71	56.3	61	X	X	X	X	X	60.4
736	16	M-2, 3, 31	C-Place of Worship	1	66	59.8	64	X	X	X	X	X	X
737	16	M-2, 3, 31	B-Residential	1	66	55.3	60	66.4	65	66.4	66.4	67.1	63
738	16	M-2, 3, 31	B-Residential	1	66	53.2	57.5	66.4	65.3	64.3	64.4	65	62.2
739	16	M-2, 3, 31	B-Residential	1	66	52.3	56.7	66.1	64.6	63.6	63.6	64	61.1
740	16	M-2, 3, 31	B-Residential	1	66	51.3	55.8	64.1	64.9	62.9	63	63.4	60.7
741	16	M-2, 3, 31	B-Residential	1	66	47.5	51.8	60.6	60.7	60.6	60.7	61.3	60.6
742	16	M-2, 3, 31	B-Residential	1	66	48.8	53.5	61.2	61.3	61.2	61.3	61.8	61.2
743	16	M-2, 3, 31	B-Residential	1	66	46.5	51.6	59.1	59.2	59.1	59.2	59.4	59.9
744	16	M-2, 3, 31	B-Residential	1	66	43.7	48.5	55.9	56	55.9	56	56.3	58.1
745	16	M-2, 3, 31	B-Residential	1	66	42.5	45.4	54.4	54.4	54.4	54.4	55	57.4
746	16	M-2, 3, 31	B-Residential	1	66	42.5	42.9	52.6	52.7	52.6	52.7	53.6	56.9
747	16	M-2, 3, 31	B-Residential	1	66	46.9	51.7	60.2	59.6	58	58.1	58	58.2
748	16	M-2, 3, 31	B-Residential	1	66	44.7	49.4	57.2	55.3	55.8	55.8	55.9	58.8
749	16	M-2, 3, 31	B-Residential	1	66	45	49.6	57.9	56.4	55.9	55.9	56	59.9
750	16	M-2, 3, 31	B-Residential	1	66	52.8	58.2	63.9	62.7	64.2	64.1	64.2	60.9
751	16	M-2, 3, 31	B-Residential	1	66	52	57.6	61.9	61.2	63	63	63.1	60.6
752	16	M-2, 3, 31	B-Residential	1	66	44	49.7	53.9	52.8	53.6	53.6	54.1	60.1
753	16	M-2, 3, 31	B-Residential	1	66	42.8	48.3	53.2	52.2	52.9	52.9	53.4	58.4

I-69 Section 5 Predicted Sound Levels

Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
754	16	M-2, 3, 31	B-Residential	1	66	42.5	47.4	54.2	53.4	52.2	52.2	52.7	57.1
755	16	M-2, 3, 31	B-Residential	1	66	45.5	51.2	57.6	57.7	57.6	57.7	58	59.4
756	16	M-2, 3, 31	B-Residential	1	66	44.6	50.4	56.3	56.4	56.3	56.4	56.8	57.9
757	16	M-2, 3, 31	B-Residential	1	66	42.2	47.7	53.1	53.3	53.1	53.3	53.9	56.8
758	16	M-2, 3, 31	B-Residential	1	66	43.3	49.1	54.2	54.3	54.2	54.3	54.8	56.6
759	16	M-2, 3, 31	B-Residential	1	66	42.5	45.9	52.2	52.2	52.2	52.2	52.4	55.6
760	16	M-2, 3, 31	B-Residential	1	66	42.5	44.2	50.3	50.4	50.3	50.4	50.7	55
761	16	M-2, 3, 31	B-Residential	1	66	45.5	51.4	50	49.1	55.1	55.2	55.4	56.6
762	16	M-2, 3, 31	B-Residential	1	66	46.7	52.5	57	50	55.7	55.8	55.8	57.2
763	16	M-2, 3, 31	B-Residential	1	66	45.1	50.9	51.8	50.9	54.5	54.6	54.6	57.3
764	16	M-2, 3, 31	B-Residential	1	66	47.4	53.1	56	55.5	55.5	55.6	55.7	58
765	16	M-2, 3, 31	B-Residential	1	66	47.3	53.2	56	55.3	56.2	56.3	56.4	59.4
766	16	M-2, 3, 31	B-Residential	1	66	56.4	62.1	65.2	64.9	X	X	X	X
767	16	M-2, 3, 31	B-Residential	1	66	55.5	61.3	63.9	63.7	X	X	X	X
768	16	M-2, 3, 31	B-Residential	1	66	57.4	63.2	65.3	65.4	X	X	X	X
769	16	M-2, 3, 31	B-Residential	1	66	58.2	63.8	65.4	65.5	X	X	X	X
770	16	M-2, 3, 31	B-Residential	1	66	48.7	55.1	57.6	57.5	58.1	58	58.2	62.4
771	16	M-2, 3, 31	B-Residential	1	66	44.5	50.2	53.2	52.6	54.6	54.5	54.7	59.3
772	16	M-2, 3, 31	B-Residential	1	66	49.4	55.7	57.5	57.7	58	57.9	57.9	60.9
773	16	M-2, 3, 31	B-Residential	1	66	58.3	64	65.3	65.5	69.1	69.4	69.9	67.4
774	16	M-2, 3, 31	B-Residential	1	66	57.7	63.6	65.4	65.5	68.6	69	69.7	67
775	16	M-2, 3, 31	B-Residential	1	66	57.1	63.2	65	65.3	67.9	68.2	69.3	66
776	16	M-2, 3, 31	B-Residential	1	66	46.8	53.8	55.1	54.8	55.8	55.7	55.7	59
777	16	M-2, 3, 31	B-Residential	1	66	47.1	54.2	56.1	48.1	56.4	56.3	56.4	59.2
778	16	M-2, 3, 31	B-Residential	1	66	57	63.2	65.2	65.5	67.7	68	69.7	64.8
779	16	M-2, 3, 31	B-Residential	1	66	56.1	62.4	64.8	65.2	66.4	66.6	67.3	64
780	16	M-2, 3, 31	B-Residential	1	66	47.5	53.6	54.5	54.1	56	56.1	56.2	59.1
781	16	M-2, 3, 31	B-Residential	1	66	57	63.2	65.2	65.5	67.1	67.6	69.2	66
782	16	M-2, 3, 31	B-Residential	1	66	56.5	62.8	64.9	65.3	66.3	66.3	67.5	64.2
783	16	M-2, 3, 31	B-Residential	1	66	51.4	57.3	58.4	58.2	61	61	60.9	60.2
784	16	M-2, 3, 31	B-Residential	1	66	49.9	56.3	57	57.3	57.6	57.6	57.8	60.6
785	16	M-2, 3, 31	B-Residential	1	66	56.3	62.7	64.8	65.3	65.8	65.8	66.3	64.3
786	16	M-2, 3, 31	B-Residential	1	66	56.2	62.6	64.8	65	65.5	65.5	65.5	63.9
787	16	M-2, 3, 31	B-Residential	1	66	46.4	52.6	55.1	55.3	54.9	54.9	55.1	60.2
788	16	M-2, 3, 31	B-Residential	1	66	45	51	53.8	53.7	53.9	53.8	53.9	59.1
789	16	M-2, 3, 31	B-Residential	1	66	56.5	62.9	63.4	63.6	65.7	65.7	65.5	64.1
790	16	M-2, 3, 31	B-Residential	1	66	58.6	64.7	65.1	65.5	67.7	67.9	67.9	66
791	16	M-2, 3, 31	B-Residential	1	66	44.6	50.6	53.3	53.4	53.4	53.4	53.5	59.9
792	16	M-2, 3, 31	B-Residential	1	66	60	65.8	64.7	65.2	69	69.6	69.2	66.9
793	16	M-2, 3, 31	B-Residential	1	66	59.1	64.8	64.1	64.6	68.1	68.8	68.5	66
794	16	M-2, 3, 31	B-Residential	1	66	58.2	63.9	63.6	64.2	67.6	68.1	67.8	66.1
795	16	M-2, 3, 31	B-Residential	1	66	57.4	63.1	63.3	64	67.2	67.8	67.4	63.4
796	16	M-2, 3, 31	B-Residential	1	66	56	61.9	62.3	63	66.1	66.6	66.3	62.8
797	16	M-2, 3, 31	B-Residential	1	66	44.1	49.9	52.1	52.1	52.2	52.2	52.4	59
798	16	M-2, 3, 31	B-Residential	1	66	44.1	49.8	51.6	51.9	51.8	51.8	51.9	58.8
799	16	M-2, 3, 31	B-Residential	1	66	42.1	47.4	47.8	47.8	49	49.7	49.8	61.1
800	16	M-2, 3, 31	B-Residential	1	66	49.6	55.7	56.7	56.7	57.4	57.5	57.6	61.6
801	16	M-2, 3, 31	B-Residential	1	66	47.7	53.2	54.8	54.8	55.5	55.5	55.5	64.3
802	16	M-2, 3, 31	B-Residential	1	66	59.5	65.1	65.4	66	69.1	69.7	69.5	66.8
803	16	M-2, 3, 31	B-Residential	1	66	64.1	69.3	68.3	68.5	72.8	72.9	72.8	68.3
804	16	M-2, 3, 31	B-Residential	1	66	63.2	68.5	67.9	68.1	72	72.2	72.1	66.3
805	16	M-2, 3, 31	B-Residential	1	66	58.1	63.7	64.5	64.9	67.9	68.2	68.1	62.9
806	16	M-2, 3, 31	B-Residential	1	66	45.3	50.7	51.9	51.9	52.8	53	53.1	63
807	16	M-2, 3, 31	B-Residential	1	66	42.7	47.9	49.2	49.2	49.6	50.2	50.4	61.3
808	16	M-2, 3, 31	B-Residential	1	66	45.5	50.8	51.6	51.5	53	53.4	53.4	59.8
809	16	M-2, 3, 31	B-Residential	1	66	46.4	51.8	52.7	52.8	53.9	54.3	54.3	60.1
810	16	M-2, 3, 31	B-Residential	1	66	46.7	52.1	42.3	53.2	54.2	54.6	54.7	58.7

I-69 Section 5 Predicted Sound Levels

Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
811	16	M-2, 3, 31	B-Residential	1	66	46.2	51.4	52.1	51.8	53.7	54.1	54.1	58.1
812	16	M-2, 3, 31	B-Residential	1	66	48.9	54.2	55	55.4	55.9	56.2	56.3	59.2
813	16	M-2, 3, 31	B-Residential	1	66	48.9	54.2	54.8	54.7	56.5	56.9	56.8	60.3
814	16	M-2, 3, 31	B-Residential	1	66	46.9	52.2	53.6	53.9	55.3	55.9	55.9	61.7
815	16	M-2, 3, 31	B-Residential	1	66	59.1	64.6	65.4	66.2	68.5	68.8	68.7	64.4
816	16	M-2, 3, 31	B-Residential	1	66	61.8	67.2	67.8	68.4	70.7	70.9	70.9	66.3
817	16	M-2, 3, 31	B-Residential	1	66	63.5	68.8	69.3	69.9	72.1	72.3	72.2	68.5
818	16	M-2, 3, 31	B-Residential	1	66	63.4	68.6	69.3	70	71.9	72.3	72.2	69.4
819	16	M-2, 3, 31	B-Residential	1	66	62.7	68	68.6	69.4	71.4	72	72	68
820	16	M-2, 3, 31	B-Residential	1	66	62.3	67.6	68.4	68.9	71.3	72	72	69.4
821	16	M-2, 3, 31	B-Residential	1	66	61.8	67.2	68.1	67.8	71	71.8	71.7	69.8
822	16	M-2, 3, 31	B-Residential	1	66	61.5	66.9	67.9	66.6	70.7	71.6	71.5	69.6
823	16	M-2, 3, 31	B-Residential	1	66	42.5	42.5	44.8	45.3	44.2	45.2	45.1	56.1
824	16	M-2, 3, 31	B-Residential	1	66	46.8	52.1	53	52.6	54.3	54.8	54.8	58.1
825	16	M-2, 3, 31	B-Residential	1	66	48.5	53.7	54	53.6	55.7	56.2	56.2	61.1
826	16	M-2, 3, 31	B-Residential	1	66	47.6	53	53.9	53.6	55.9	56.3	56.3	62.5
827	16	M-2, 3, 31	B-Residential	1	66	49.8	55.4	56.3	56.2	58	58.6	58.6	63.3
828	16	M-2, 3, 31	B-Residential	1	66	50.1	55.6	57	56.8	58.3	58.9	58.9	64.2
829	16	M-2, 3, 31	B-Residential	1	66	50.6	56.2	57.5	57.4	59	59.8	59.7	65
830	16	M-2, 3, 31	B-Residential	1	66	50.5	56	57.4	56.7	58.6	59.4	59.3	64.6
831	16	M-2, 3, 31	B-Residential	1	66	50.4	55.9	56.8	56	58.3	59.1	59	65.3
832	16	M-2, 3, 31	B-Residential	1	66	49.9	55.3	56.2	55.4	57.6	58.6	58.6	64
833	16	M-2, 3, 31	B-Residential	1	66	42.5	42.5	44.9	44.7	43.8	44.6	44.6	56.7
834	16	M-2, 3, 31	B-Residential	1	66	47.4	52.9	53.6	53.2	55.2	55.8	55.7	57.9
835	16	M-2, 3, 31	B-Residential	1	66	48.1	53.5	54.3	53.9	55.9	56.3	56.2	60.4
836	16	M-2, 3, 31	B-Residential	1	66	47.6	53.1	54.1	53.5	55.7	56.3	56.2	58.6
837	16	M-2, 3, 31	B-Residential	1	66	48.1	53.4	54.6	53.9	56.1	56.9	56.8	59
838	16	M-2, 3, 31	B-Residential	1	66	48.8	54	55.4	54.1	56.8	57.9	57.7	58.5
839	16	M-2, 3, 31	B-Residential	1	66	47.2	52.5	53.7	53	55.3	56.4	56.5	61
840	16	M-2, 3, 31	B-Residential	1	66	51.2	57	57.7	57.4	59.1	61	60.7	64.3
841	16	M-2, 3, 31	B-Residential	1	66	52.4	58.4	60	59.3	61.6	63.7	62.8	63.2
842	16	M-2, 3, 31	B-Residential	1	66	54.2	59.9	61.1	59.4	64	65.2	64.6	63.2
843	16	M-2, 3, 31	B-Residential	1	66	55.8	61.4	63.3	60	65.3	66.5	66.3	64.3
844	16	M-2, 3, 31	B-Residential	1	66	56.2	61.8	63.8	59.7	65.7	67	66.6	64.9
845	16	M-2, 3, 31	B-Residential	1	66	57.7	63.1	65.5	60	67	68.3	67.7	64.6
846	16	M-2, 3, 31	B-Residential	1	66	55.1	60.5	63.7	57.3	65.5	66.1	65.7	65.7
847	16	M-2, 3, 31	B-Residential	1	66	51.8	56.8	59.7	55	60.9	61.8	61.5	64
848	16	M-2, 3, 31	B-Residential	1	66	47.6	52.4	54.7	53.3	55.6	56.1	55.3	59.3
849	16	M-2, 3, 31	B-Residential	1	66	43.6	48.7	47	50.7	51.4	52.4	50.7	55.7
850	16	M-2, 3, 31	B-Residential	1	66	42.8	47.4	52.2	52.4	50.1	53.1	51.8	55.3
851	16	M-2, 3, 31	B-Residential	1	66	45.6	50.7	53.4	52.7	53	54.4	54	54.4
852	16	M-2, 3, 31	B-Residential	1	66	42.5	42.5	44.6	44.2	40.5	41.9	41.7	53.6
853	16	M-2, 3, 31	B-Residential	1	66	48.8	54	55.9	53.4	56.9	57.9	57.7	60.7
854	16	M-2, 3, 31	B-Residential	1	66	62.8	68	69.4	65.6	71.4	72.6	X	70.2
855	16	M-2, 3, 31	B-Residential	1	66	62.4	67.7	69.2	64.4	71	72.7	X	69.8
856	16	M-2, 3, 31	B-Residential	1	66	62.8	68.1	69.7	63.8	71.4	73.3	X	70.1
857	16	M-2, 3, 31	B-Residential	1	66	62.7	67.9	69.7	X	71.2	73.3	X	69.8
858	16	M-2, 3, 31	B-Residential	1	66	63.1	68.3	70.2	X	71.6	73.6	X	69.9
859	16	M-2, 3, 31	B-Residential	1	66	63.2	68.4	70.4	X	71.8	73.3	X	69.9
860	16	M-2, 3, 31	B-Residential	1	66	62.6	67.8	70	X	71.4	72.2	X	68.2
861	16	M-2, 3, 31	B-Residential	1	66	62.2	67.4	69.6	X	71.1	70	X	66.2
862	16	M-2, 3, 31	B-Residential	1	66	61.2	66.5	68.6	X	70.4	63.7	X	66.2
863	16	M-2, 3, 31	B-Residential	1	66	60.1	65.6	68.1	X	68.1	X	X	66.8
864	16	M-2, 3, 31	B-Residential	1	66	58.9	64.6	67.3	X	66.8	X	X	X
865	16	M-2, 3, 31	B-Residential	1	66	60	65.4	68.5	X	68.4	X	X	X
866	16	M-2, 3, 31	B-Residential	1	66	47.1	51.6	54	X	53.6	X	X	X
867	16	M-2, 3, 31	B-Residential	1	66	61.1	66.3	69.6	X	70.4	X	X	X

I-69 Section 5 Predicted Sound Levels

Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
868	16	M-2, 3, 31	B-Residential	1	66	62.9	67.9	71.5	X	71.6	X	X	X
869	16	M-2, 3, 31	B-Residential	1	66	61.1	66.3	66.8	X	54.6	X	X	X
870	16	M-2, 3, 31	B-Residential	1	66	46.2	50.9	50.5	X	51.2	60.3	X	59.3
871	16	M-2, 3, 31	B-Residential	1	66	45.4	50.1	52.2	51.5	X	50.8	49.6	58.7
872	16	M-2, 3, 31	B-Residential	1	66	45.5	50.1	59.3	55.9	X	61.3	61.1	X
873	16	M-2, 3, 31	B-Residential	1	66	66.8	70.3	69.7	X	X	X	X	X
874	16	M-2, 3, 31	B-Residential	1	66	64	67.4	X	X	X	X	X	X
875	16	M-2, 3, 31	B-Residential	1	66	63.4	66.6	X	X	X	X	X	X
876	16	M-2, 3, 31	B-Residential	1	66	62.7	65.8	X	X	X	X	X	X
877	16	M-2, 3, 31	B-Residential	1	66	64.1	67.2	X	X	X	X	X	X
878	16	M-2, 3, 31	B-Residential	1	66	66.7	69.8	X	X	X	X	X	X
879	16	M-2, 3, 31	B-Residential	1	66	66.5	69.6	X	X	X	X	X	X
880	16	M-2, 3, 31	B-Residential	1	66	66.9	70	X	X	70.1	72.2	70.6	68.2
881	16	M-2, 3, 31	B-Residential	1	66	66.2	69.3	X	51.8	65	68.1	67.4	64.8
882	16	M-2, 3, 31	B-Residential	1	66	66.7	69.8	X	50.7	58.6	61.2	61.3	58.6
883	16	M-2, 3, 31	B-Residential	1	66	62.5	65.6	X	49.7	55.3	57.8	57.8	55.4
884	16	M-2, 3, 31	B-Residential	1	66	56.2	59.3	51.6	50.5	54.9	57.1	57.1	54.4
885	16	M-2, 3, 31	B-Residential	1	66	53.9	57.1	47.1	51.1	48	49.4	49.2	53.9
886	16	M-2, 3, 31	B-Residential	1	66	52.1	55.3	43.6	51.3	45.3	46.9	47	51.3
887	16	M-2, 3, 31	B-Residential	1	66	48.3	51.7	44.4	43.9	46.3	48.4	48.2	54.1
888	16	M-2, 3, 31	B-Residential	1	66	42.3	47.6	50.6	45.8	48.8	50.8	50.9	55.8
889	16	M-2, 3, 31	B-Residential	1	66	46.7	51	53.2	52.3	51.8	54.1	53.7	55.9
890	16	M-2, 3, 31	B-Residential	1	66	47.1	51.5	53.8	53.8	52.6	55.1	54.7	56.2
891	16	M-2, 3, 31	B-Residential	1	66	46.8	51.4	53.9	53.7	52.9	55.1	54.9	55.8
892	16	M-2, 3, 31	B-Residential	1	66	46.4	51.1	53.7	53.8	53	55.2	54.8	55.4
893	16	M-2, 3, 31	B-Residential	1	66	46.1	51	53.9	53.7	53.1	54.9	54.3	55.1
894	16	M-2, 3, 31	B-Residential	1	66	45.9	50.9	53.5	53.1	53	54.2	53.8	54.6
895	16	M-2, 3, 31	B-Residential	1	66	44.9	49.7	53.4	53.2	52.1	54.2	53.4	55.9
896	16	M-2, 3, 31	B-Residential	1	66	44.6	49	51.7	53.6	50	50.9	49.6	56.7
897	16	M-2, 3, 31	B-Residential	1	66	45.5	49.9	52.6	54.4	50.8	53.5	51.5	56.6
898	16	M-2, 3, 31	B-Residential	1	66	46.3	50.5	53.1	54.6	51.1	54.7	53.8	57.4
899	16	M-2, 3, 31	B-Residential	1	66	46	50.3	53.2	54.9	X	54.2	54.4	57.5
900	16	M-2, 3, 31	B-Residential	1	66	46.8	51.2	53.5	54.5	X	54.8	55.3	57.8
901	16	M-2, 3, 31	B-Residential	1	66	44.9	49.8	52.7	50.2	X	53.8	53.8	57.9
902	16	M-2, 3, 31	B-Residential	1	66	61.7	65.7	68.5	66.4	X	70.4	70.4	67.1
903	16	M-2, 3, 31	B-Residential	1	66	48.7	53.4	57.4	56.3	X	63.2	62.6	61.3
904	16	M-2, 3, 31	B-Residential	1	66	42.6	46.7	49.5	51.2	47.8	50.8	50.7	54.6
905	16	M-2, 3, 31	B-Residential	1	66	45.7	50.2	52.2	52.4	51.1	52.5	52.4	54.6
906	16	M-2, 3, 31	B-Residential	1	66	46.7	51	52.8	53	51.8	53	52.5	54.4
907	16	M-2, 3, 31	B-Residential	1	66	46.7	51	52.6	52.8	52	53.4	53.1	55
908	16	M-2, 3, 31	B-Residential	1	66	47.5	51.7	53.4	53	53.4	54.9	54.9	55.2
909	16	M-2, 3, 31	B-Residential	1	66	48.1	52.3	53.5	52.9	54.5	55.8	55.5	55.2
910	16	M-2, 3, 31	B-Residential	1	66	48.8	53	53.9	52.9	55.3	57.1	57.1	55.1
911	16	M-2, 3, 31	B-Residential	1	66	48.9	53.1	53.8	52.8	55.6	57.1	57.2	54.9
912	16	M-2, 3, 31	B-Residential	1	66	48.8	52.9	53.5	52.5	55.3	56.8	56.6	54.4
913	16	M-2, 3, 31	B-Residential	1	66	48.5	52.5	52.9	52.1	54.5	56	55.8	54
914	16	M-2, 3, 31	B-Residential	1	66	48.1	52.1	52.5	51.6	54	55.1	54.9	53.4
915	16	M-2, 3, 31	B-Residential	1	66	47.6	51.5	52	50.9	53.1	54.2	54.1	52.9
916	16	M-2, 3, 31	B-Residential	1	66	47.2	51.2	51.5	50.5	52.6	53.4	53.3	52.3
917	16	M-2, 3, 31	B-Residential	1	66	46.7	50.6	51.1	50.1	51.8	52.9	52.8	51.8
918	16	M-2, 3, 31	B-Residential	1	66	46.2	50.1	50.6	49.5	51.1	52.2	52.2	51.3
919	16	M-2, 3, 31	B-Residential	1	66	45.5	49.4	49.9	48.9	50.4	51.5	51.6	50.8
920	16	M-2, 3, 31	B-Residential	1	66	44.9	48.8	49.3	48.3	49.8	51.1	51.1	50.3
921	16	M-2, 3, 31	B-Residential	1	66	44.4	48.3	48.9	48.1	49.3	50.7	50.6	49.9
922	16	M-2, 3, 31	B-Residential	1	66	44	47.9	48.7	47.9	49	50.2	50.3	49.5
923	16	M-2, 3, 31	B-Residential	1	66	45.2	49	49	48.6	49.7	50.6	50.5	49.9
924	16	M-2, 3, 31	B-Residential	1	66	45.8	49.6	49.2	48.6	49.8	50.9	50.8	50.2

I-69 Section 5 Predicted Sound Levels

Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
925	16	M-2, 3, 31	B-Residential	1	66	46.6	50.4	49.6	49	50.3	51.4	51.3	50.6
926	16	M-2, 3, 31	B-Residential	1	66	47.2	50.9	50	49.3	50.7	51.8	51.8	51
927	16	M-2, 3, 31	B-Residential	1	66	48	51.7	50.6	49.7	51.4	52.5	52.4	51.6
928	16	M-2, 3, 31	B-Residential	1	66	48.5	52.2	50.9	50	51.8	52.9	52.8	52
929	16	M-2, 3, 31	B-Residential	1	66	48.9	52.5	51	50.1	51.8	53.3	53.1	52.6
930	16	M-2, 3, 31	B-Residential	1	66	49.2	52.8	51.2	50.1	52.1	53.7	53.7	53.1
931	16	M-2, 3, 31	B-Residential	1	66	49.8	53.4	51.5	50.6	52.5	54.2	54.2	53.9
932	16	M-2, 3, 31	B-Residential	1	66	49.8	53.3	51.2	50.3	51.2	53.4	53.4	53.6
933	16	M-2, 3, 31	B-Residential	1	66	50	53.5	51.5	50.8	51.1	53.5	53.4	53.8
934	16	M-2, 3, 31	B-Residential	1	66	50	53.5	51.9	51.2	51.2	53.6	53.5	54.2
935	16	M-2, 3, 31	B-Residential	1	66	49.8	53.3	50.5	51.5	51.1	52.4	53.4	53.9
936	16	M-2, 3, 31	B-Residential	1	66	49.1	52.6	48.9	50.2	50.1	50.7	51.9	53.5
937	16	M-2, 3, 31	B-Residential	1	66	48.5	52	47.9	50.7	47.6	49.1	51.7	53.3
938	16	M-2, 3, 31	B-Residential	1	66	46.6	50.3	46.5	51.3	46.8	48.9	52.4	54.1
939	16	M-2, 3, 31	B-Residential	1	66	53.3	56.5	50.3	50.4	51.3	54.1	53.9	53.6
940	16	M-2, 3, 31	B-Residential	1	66	53.5	56.8	51	50.8	52.8	54.9	54.8	53.7
941	16	M-2, 3, 31	B-Residential	1	66	52.8	56.1	50.9	50.5	52.7	54.4	54.2	53.2
942	16	M-2, 3, 31	B-Residential	1	66	52.2	55.5	51	50.6	52.5	54	53.7	52.4
943	16	M-2, 3, 31	B-Residential	1	66	51.8	55.2	50.8	50.4	52.3	53.7	53.4	52
944	16	M-2, 3, 31	B-Residential	1	66	51.2	54.6	50.9	50.3	52.2	53.4	53.3	51.7
945	16	M-2, 3, 31	B-Residential	1	66	49.9	53.3	50.5	49.9	51.6	52.8	52.6	51.1
946	16	M-2, 3, 31	B-Residential	1	66	48.7	52.3	50.2	49.6	51.1	52.3	52.2	50.7
947	16	M-2, 3, 31	B-Residential	1	66	47.8	51.4	49.9	49.3	50.8	51.9	51.7	50.3
948	16	M-2, 3, 31	B-Residential	1	66	46.9	50.6	49.4	49.1	50.3	51.5	51.3	50
949	16	M-2, 3, 31	B-Residential	1	66	46.3	50.1	49.5	49.1	50.1	51.2	51	49.7
950	16	M-2, 3, 31	B-Residential	1	66	50	53.3	50.3	50.3	51.2	52.5	52.5	50.6
951	16	M-2, 3, 31	B-Residential	1	66	51	54.3	50.5	50.5	51.3	52.7	52.8	51
952	16	M-2, 3, 31	B-Residential	1	66	52.1	55.3	50.2	49.9	51.6	53	53	51.3
953	16	M-2, 3, 31	B-Residential	1	66	53.6	56.8	X	50.3	52	53.5	53.5	51.7
954	16	M-2, 3, 31	B-Residential	1	66	55.3	58.5	X	50.5	52.3	53.9	53.9	52.1
955	16	M-2, 3, 31	B-Residential	1	66	58.3	61.4	X	50.6	52.7	54.4	54.5	52.6
956	16	M-2, 3, 31	B-Residential	1	66	63.2	66.3	X	50.8	53.2	55	55.1	53
957	16	M-2, 3, 31	B-Residential	1	66	63.1	66.2	X	50.6	53.1	55.2	55.2	53.1
958	16	M-2, 3, 31	B-Residential	1	66	65.2	68.2	X	49.9	53.4	55.9	55.9	53.7
959	16	M-2, 3, 31	B-Residential	1	66	65.8	68.9	X	49.8	53.9	56.1	56.1	53.8
960	16	M-2, 3, 31	B-Residential	1	66	65.7	68.8	X	49.5	54.1	55.9	56	53.4
961	16	M-2, 3, 31	B-Residential	1	66	49.8	53.2	50	50.5	51.3	52.6	52.6	50.7
962	16	M-2, 3, 31	B-Residential	1	66	50.9	54.3	50	50.5	51.4	52.9	52.8	51
963	16	M-2, 3, 31	B-Residential	1	66	52.3	55.5	50.1	50.8	51.6	53.3	53.3	51.3
964	16	M-2, 3, 31	B-Residential	1	66	56.4	59.5	50.2	51	52.1	54	54.1	52
965	16	M-2, 3, 31	B-Residential	1	66	58.2	61.3	50.9	51.7	53.2	55.6	55.8	53.6
966	16	M-2, 3, 31	B-Residential	1	66	62.7	65.7	51.2	52.3	55.3	58.1	58.2	55.9
967	16	M-2, 3, 31	B-Residential	1	66	58.1	61.2	51.9	53.4	56.5	59.7	60.1	57.5
968	16	M-2, 3, 31	B-Residential	1	66	54.6	58	56.4	56.7	58.9	61.4	61.8	58.8
969	16	M-2, 3, 31	B-Residential	1	66	66.3	69.4	X	X	X	X	X	X
970	16	M-2, 3, 31	B-Residential	1	66	60.4	63.6	X	X	X	X	X	X
971	16	M-2, 3, 31	B-Residential	1	66	57.9	61.1	X	60.1	63.2	65.5	65.9	62.2
972	16	M-2, 3, 31	B-Residential	1	66	55.9	59.1	56.5	59.3	61.2	64.4	65	61.8
973	16	M-2, 3, 31	B-Residential	1	66	52.6	56	54.4	56.9	57.6	60.9	61.8	59.2
974	16	M-2, 3, 31	B-Residential	1	66	51.8	55.4	54.2	56.5	56.7	60	60.7	59.2
975	16	M-2, 3, 31	B-Residential	1	66	50.6	54.3	53.4	55.7	55.2	58.3	58.8	58.6
976	16	M-2, 3, 31	B-Residential	1	66	51.3	55.3	55.2	55.9	57.1	59.2	59.5	59.9
977	16	M-2, 3, 31	B-Residential	1	66	50.7	54.9	57.2	55.9	57.1	58.8	59	60.1
978	16	M-2, 3, 31	B-Residential	1	66	50.5	54.8	56.4	55.7	57.2	58.7	58.9	59.9
979	16	M-2, 3, 31	B-Residential	1	66	50.6	54.9	57	55.6	57.6	59	59.2	60
980	16	M-2, 3, 31	B-Residential	1	66	51.2	55.8	57.7	56.1	59.7	60.7	60.8	60.3
981	16	M-2, 3, 31	B-Residential	1	66	51.2	55.8	57.8	56.2	59.8	61.1	61.3	60.3

I-69 Section 5 Predicted Sound Levels

Receptor	NSA	Represented by NSA Measurement Site(s)	NAC-Land Use	Number of DU's	NAC	Existing Year	Design Year No Build	Alt 4	Alt 5	Alt 6	Alt 7	Alt 8	Refined Preferred Alt 8
982	16	M-2, 3, 31	B-Residential	1	66	51.3	55.9	57.4	56	59.5	60.7	60.9	59.9
983	16	M-2, 3, 31	B-Residential	1	66	50.2	54.8	56.6	55.5	58.4	59.7	59.8	59.2
984	16	M-2, 3, 31	B-Residential	1	66	63.4	66.9	X	X	X	X	X	X
985	16	M-2, 3, 31	B-Residential	1	66	62.8	66	X	X	X	X	X	X
986	16	M-2, 3, 31	B-Residential	1	66	59	63.3	65.1	59.8	67.3	X	X	66.5
987	16	M-2, 3, 31	B-Residential	1	66	56.4	60.4	61.9	59.3	63.9	67.6	67.9	64.9
988	16	M-2, 3, 31	B-Residential	1	66	55.6	59.7	57.7	58.7	64.5	65.4	65.9	X
989	16	M-2, 3, 31	B-Residential	1	66	56.3	60.8	67.1	59.3	67.9	X	X	X
990	16	M-2, 3, 31	B-Residential	1	66	56.4	60.9	66.2	59.1	67.3	X	X	66.7
991	16	M-2, 3, 31	B-Residential	1	66	56.9	61.5	65.4	58.6	66.9	X	X	66.3
992	16	M-2, 3, 31	B-Residential	1	66	58.8	63.2	65.3	60.4	66.9	68.8	68.9	65.5
993	16	M-2, 3, 31	B-Residential	1	66	53.1	57.5	57.5	57	62.2	63.5	63.8	62.4
994	16	M-2, 3, 31	B-Residential	1	66	53	57.6	60.3	57.6	65.6	66.9	67.1	65.1
995	16	M-2, 3, 31	B-Residential	1	66	52.8	57.3	57.1	56.8	62.4	63.3	63.6	62.5
996	16	M-2, 3, 31	B-Residential	1	66	51.9	56.4	60.1	56.3	61.5	66.1	66.3	64
997	16	M-2, 3, 31	B-Residential	1	66	52.4	56.9	57	56	61.2	62.6	62.8	62.2
998	16	M-2, 3, 31	B-Residential	1	66	51.6	56.2	60.1	56.5	61.4	66.5	66.5	64.5
999	16	M-2, 3, 31	B-Residential	1	66	52.9	57.4	57.1	56.6	62.1	63.1	63.2	62.6
1000	16	M-2, 3, 31	B-Residential	1	66	55.8	60.9	58.9	55.4	65.3	67.2	67.3	64.2
1001	16	M-2, 3, 31	B-Residential	1	66	53.9	58.4	60.1	56.1	60.4	66.6	66.7	64.1
1002	16	M-2, 3, 31	B-Residential	1	66	52.8	57.6	56.9	55.9	61.2	62.6	62.7	62.5
1003	16	M-2, 3, 31	B-Residential	1	66	52.4	57	56.4	55.7	60.3	62	62.1	61.9
1004	16	M-2, 3, 31	B-Residential	1	66	52.1	56.8	59.1	56.9	60.3	66.8	66.9	63.2
1005	16	M-2, 3, 31	B-Residential	1	66	56.4	61.5	64	57.6	65.7	68.4	68.6	63.6
1006	16	M-2, 3, 31	B-Residential	1	66	57	62.1	64.8	57.9	66.3	69.3	69.4	62.6
1007	16	M-2, 3, 31	B-Residential	1	66	57.6	62.7	65.6	58.9	66.8	69.9	70	66.2
1008	16	M-2, 3, 31	B-Residential	1	66	58.6	63.6	67.1	63.1	67.6	71.3	71.3	67.3
1009	16	M-2, 3, 31	B-Residential	1	66	63.8	68.3	X	X	71.6	X	X	X
1010	16	M-2, 3, 31	B-Residential	1	66	58.5	63.5	55.9	57.2	67.5	71.3	71.3	68.1
1011	16	M-2, 3, 31	B-Residential	1	66	49.3	53.7	56.4	57.6	56.6	55.9	55.9	64
1012	16	M-2, 3, 31	B-Residential	1	66	48.5	53.1	55.2	56.4	56.2	55.6	55.6	61.7
1013	16	M-2, 3, 31	B-Residential	1	66	49.1	53.7	55	54.1	56.8	57	56.9	59.8
1014	16	M-2, 3, 31	B-Residential	1	66	47.5	52	53.8	54	55.1	55.3	55.2	57.6
1015	16	M-2, 3, 31	B-Residential	1	66	48	52.6	54	54	55.3	55.9	56	56.9
1016	16	M-2, 3, 31	B-Residential	1	66	47.5	51.9	52.6	53.2	54.7	55.2	55.3	55.6
1017	16	M-2, 3, 31	B-Residential	1	66	47.9	52.3	52.7	53.2	54.5	55.3	55.4	55.5
1018	16	M-2, 3, 31	B-Residential	1	66	48.1	52.5	53.2	53.2	54.8	55.7	55.7	55.3
1019	16	M-2, 3, 31	B-Residential	1	66	64.5	68.9	74.1	X	72.1	75.5	X	X
1020	16	M-2, 3, 31	B-Residential	1	66	59.5	64.4	65.4	65.8	68.4	71.7	71.7	68.2
1021	16	M-2, 3, 31	B-Residential	1	66	54.5	59.5	59.5	59.8	63.4	64.6	64.7	63.3
1022	16	M-2, 3, 31	B-Residential	1	66	50.1	55.2	54.6	55.3	57.3	57	57	60.5
1023	16	M-2, 3, 31	B-Residential	1	66	47.2	52.5	49.9	51.3	54.7	54.9	54.8	58.6
1024	16	M-2, 3, 31	B-Residential	1	66	44.8	48.6	50	51.2	51.2	51.5	51.4	56.8
1025	16	M-2, 3, 31	B-Residential	1	66	45.9	50	50.9	51.9	52.4	52.9	52.8	54.5
1026	16	M-2, 3, 31	B-Residential	1	66	47.3	51.5	52.3	53	53.7	54.1	54.2	54.8
1027	16	M-2, 3, 31	B-Residential	1	66	47.3	51.5	52.5	53.1	54	54.7	54.8	54.5
1028	16	M-2, 3, 31	B-Residential	1	66	65.4	69.8	X	X	73.1	X	X	X
1029	16	M-2, 3, 31	B-Residential	1	66	50.1	54.6	53.9	54	57.3	58.2	58.2	66.7
1030	16	M-2, 3, 31	B-Residential	1	66	54.4	59.5	58.5	58.5	63	64.6	64.6	65.5
1031	16	M-2, 3, 31	B-Residential	1	66	52.4	57.5	56.2	56.6	60.3	61.4	61.5	64.1
1032	16	M-2, 3, 31	B-Residential	1	66	50.8	55.7	54.6	54.6	58	57.9	57.9	61.9
1033	16	M-2, 3, 31	B-Residential	1	66	47.3	51.2	54.3	54.4	53.4	53.5	53.4	59.9

Red bold indicates FHWA NAC impact

Green bold indicates Substantial Increase Criteria Impact

Blue bold indicates both criteria are met

"X" indicates preliminary acquisition as part of the right-of way.