Appendix J Noise Tables and Figures

This page intentionally left blank

M-S1A-A-NB20
M-S1A-A-NB16
M-S1A-A-NB11
M-S1A-A-NB15
M-S1A-A-NB13
M-S1A-A-NB10
M-S1A-A-NB9
M-S1A-A-NB12
M-S1A-A-NB3
M-S1A-A-NB14
M-S1A-A-NB6
M-S1A-A-NB4
M-S1A-A-NB5
FM1
M-S1A-A-NB7
M-S1A-A-NB8
NSA 1
M-S1A-A-NB2
M-S1A-A-NB1
EL CAMINO REAL
ESW-2 (10ft)
ESW-1 (10ft)
ESW-3 (10ft)
ESW-4 (10ft)
NISSON Rd
M-S1A-B-SB9
M-S1A-B-SB7
M-S1A-B-SB3
M-S1A-B-SB16
M-S1A-B-SB8
M-S1A-B-SB6
M-S1A-B-SB12
M-S1A-B-SB4
M-S1A-B-SB20
M-S1A-B-SB17
M-S1A-B-SB5
M-S1A-B-SB21
WOODLAWN Ave
M-S1A-B-SB13
M-S1A-B-SB18
M-S1A-B-SB10
M-S1A-B-SB22
M-S1A-B-SB14
M-S1A-B-SB19
M-S1A-B-SB23
M-S1A-B-SB15
M-S1A-B-SB11
RED HILL Ave
NSA 2
M-S1A-B-SB2
M-S1A-B-SB1

N

0 75 150
Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

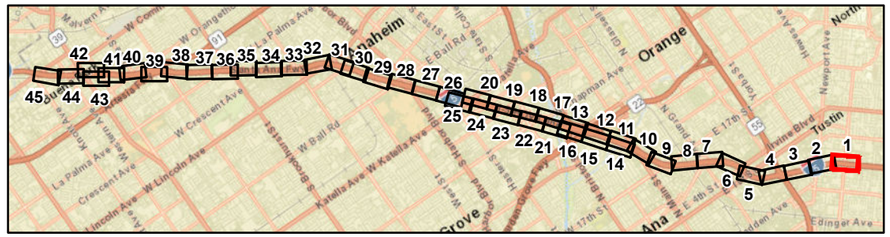
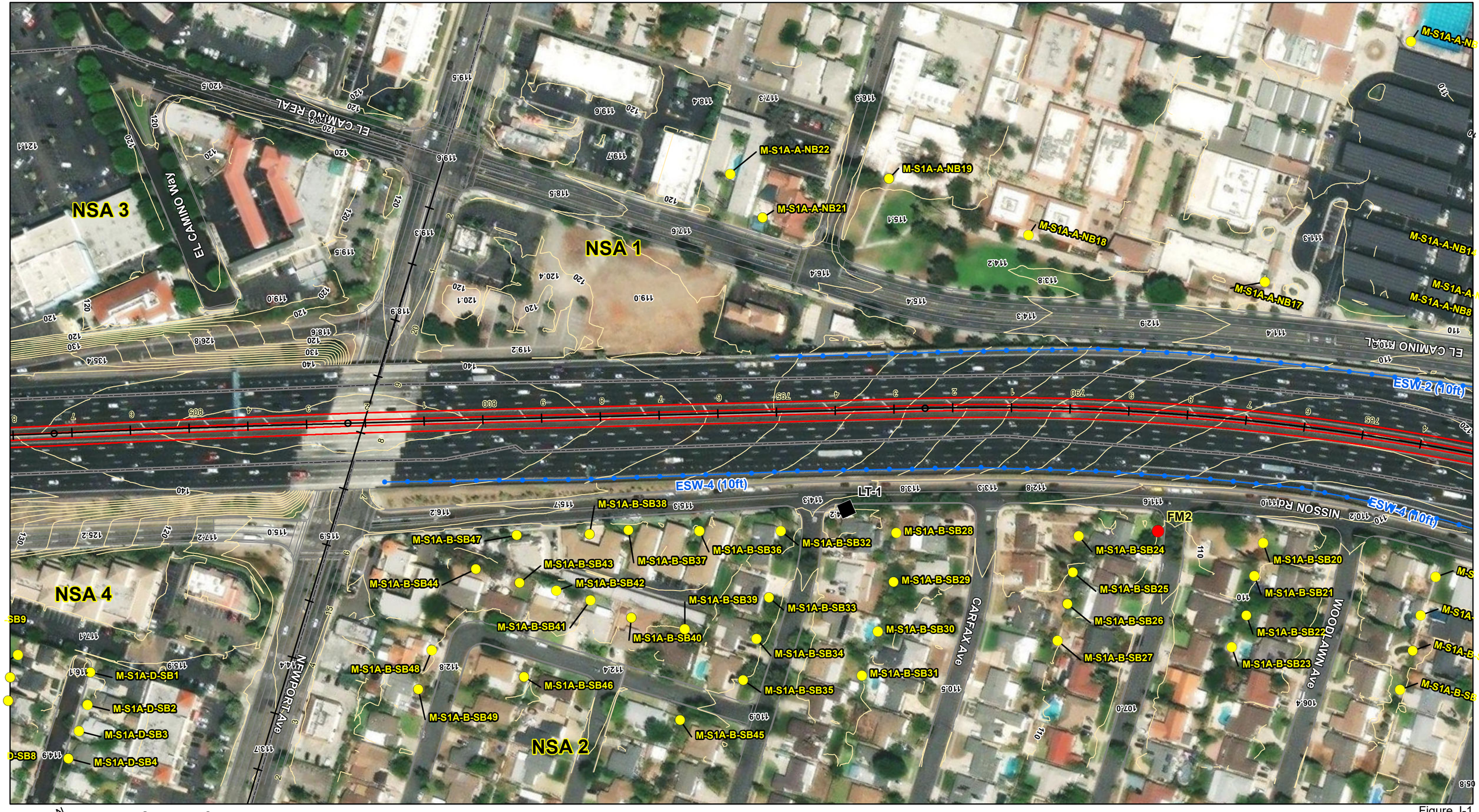


Figure J-1
Sheet 1 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



N

0 75 150

Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

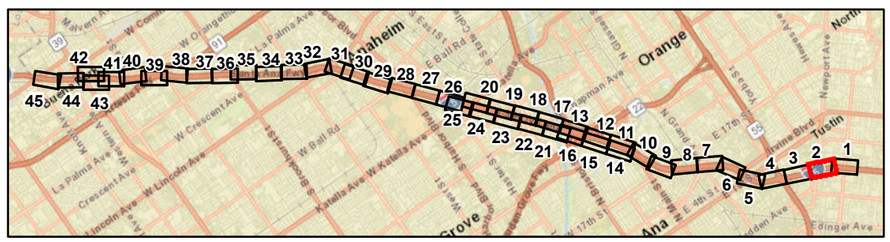


Figure J-1
Sheet 2 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



N

0 75 150

Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

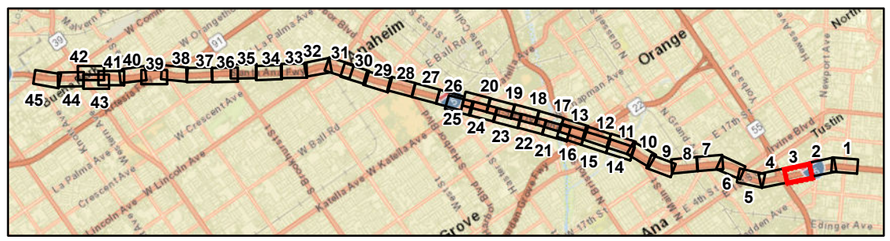


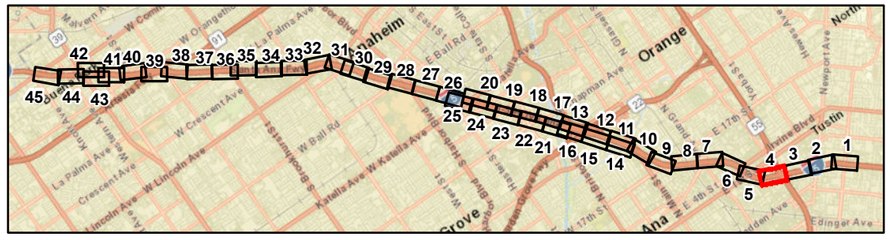
Figure J-1
Sheet 3 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006





Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at the new location and at the existing height at a minimum.

0 75 150
Feet

Figure J-1
Sheet 4 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)
Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



N

0 75 150

Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at the new location and at the existing height at a minimum.

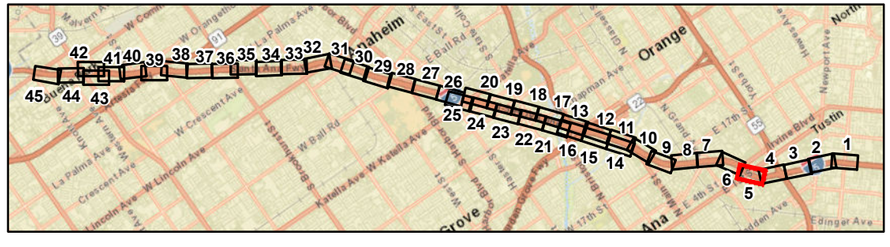
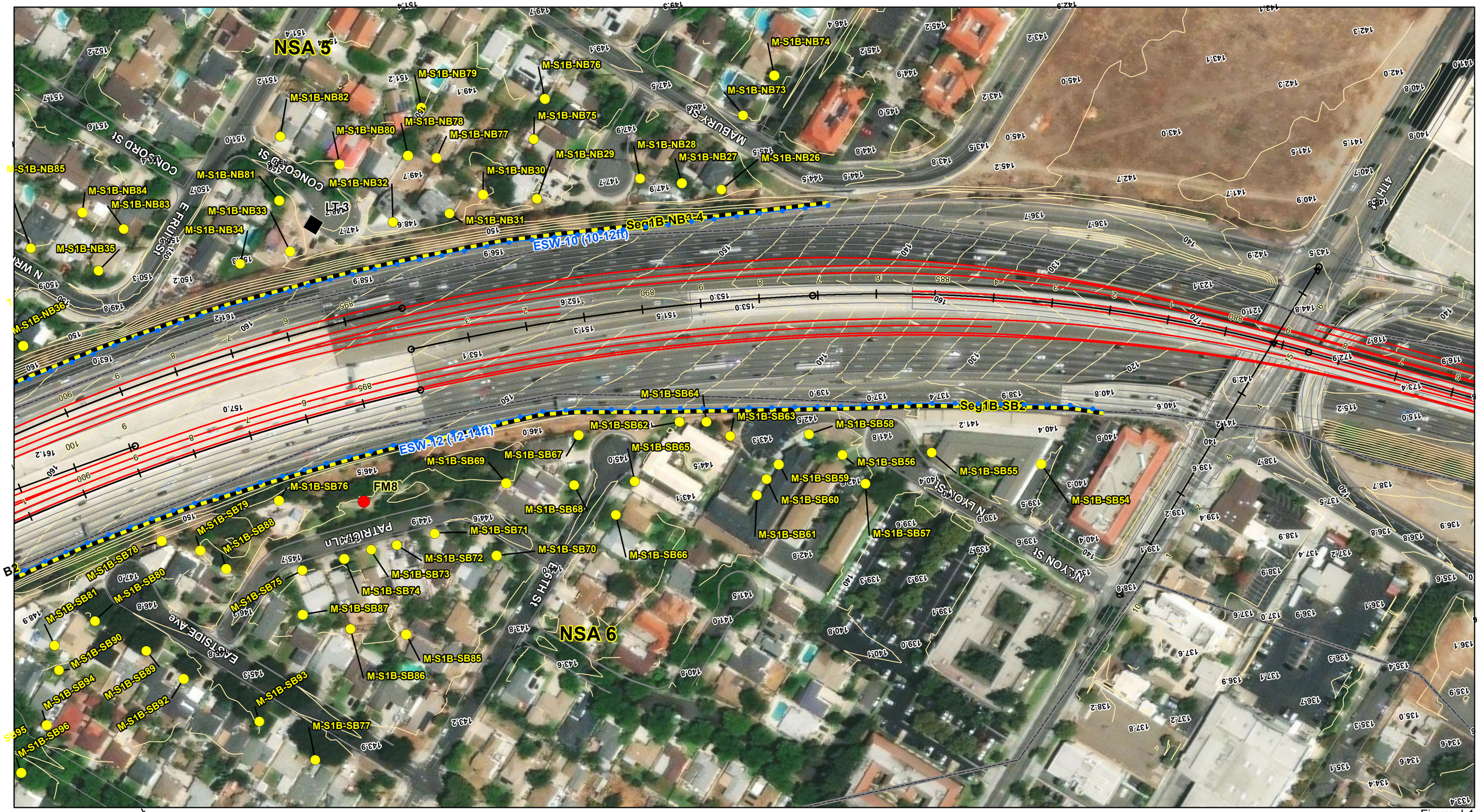


Figure J-1
Sheet 5 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at the new location and at the existing height at a minimum.

0 75 150
Feet

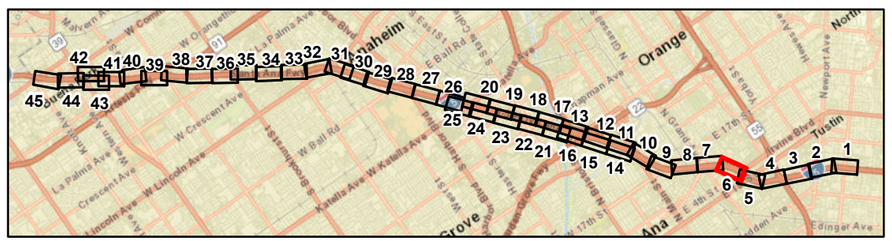


Figure J-1
Sheet 6 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



N

0 75 150

Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

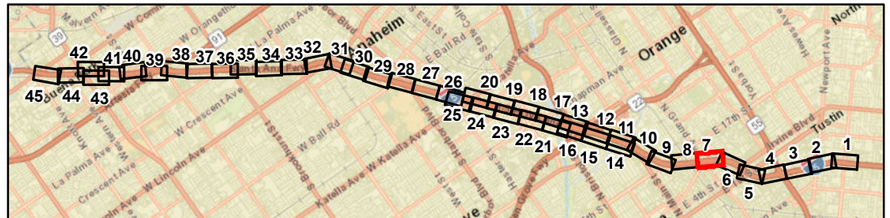


Figure J-1
Sheet 7 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006

NSA 7

NSA 8

M-S1C-NB58
M-S1C-NB50
M-S1C-NB57
M-S1C-NB56
M-S1C-NB49
M-S1C-NB55
M-S1C-NB47
M-S1C-NB39
M-S1C-NB48
M-S1C-NB38
M-S1C-NB37
M-S1C-NB18
M-S1C-NB16
M-S1C-NB17
M-S1C-NB54
M-S1C-NB36
M-S1C-NB31
M-S1C-NB30
M-S1C-NB29
M-S1C-NB32
M-S1C-NB33
M-S1C-NB34
M-S1C-NB35
M-S1C-NB28
M-S1C-NB8
M-S1C-NB13
M-S1C-NB14
M-S1C-NB12
M-S1C-NB9
M-S1C-NB10
M-S1C-NB11
M-S1C-NB15
FM11
Seg1C-NB2
ESW-14 (14ft)
ESW-15 (12ft)
M-S1C-NB43
M-S1C-NB44
M-S1C-NB45
M-S1C-NB42
M-S1C-NB53
M-S1C-NB46
M-S1C-NB23
M-S1C-NB22
M-S1C-NB25
M-S1C-NB26
M-S1C-NB27
M-S1C-NB20
M-S1C-NB3
M-S1C-NB6
M-S1C-NB5
M-S1C-NB4
M-S1C-NB7
M-S1C-NB2
Seg1C-NB1
ESW-13 (12-14ft)
Seg1C-SB1
M-S1C-SB5
M-S1C-SB10
M-S1C-SB6
M-S1C-SB13
M-S1C-SB14
FM10
M-S1C-SB4
M-S1C-SB3
M-S1C-SB9
M-S1C-SB12
M-S1C-SB15
M-S1C-SB8
EPW-4 (5-6ft)
M-S1C-SB1
M-S1C-SB7
M-S1C-SB11
M-S1C-SB2
FAIRMONT ST
DORMAN ST
LINCOLN AVE
SCHAMETRONK
E 15TH ST
N HARBOR WAY
E 14TH ST
E MARTHA LN
WASHINGTON AVE
N SANTIAGO ST
N LEGAN
N CUSTER ST

Legend

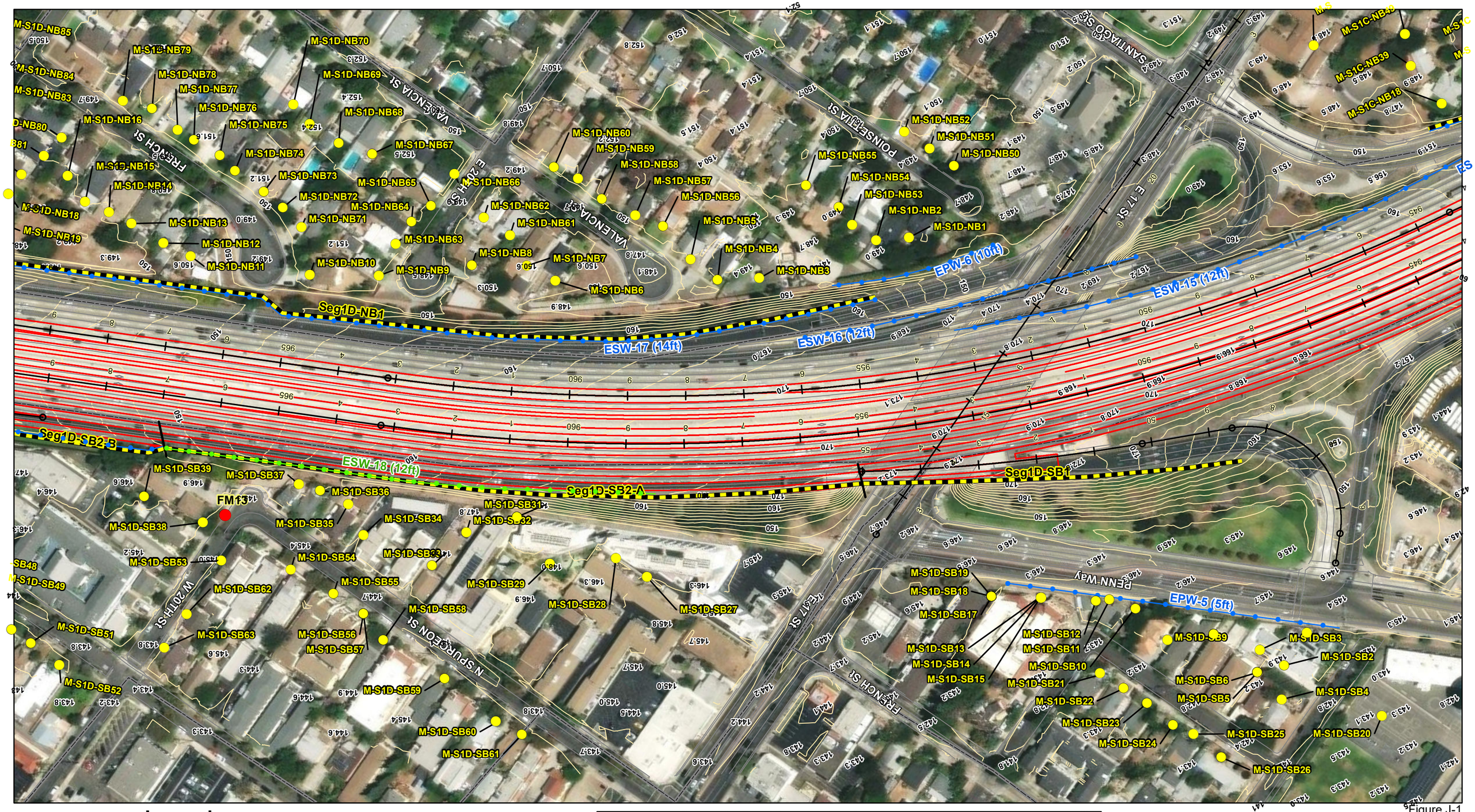
- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

0 75 150
Feet

Figure J-1
Sheet 8 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)
Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at the new location and at the existing height at a minimum.

0 75 150
Feet

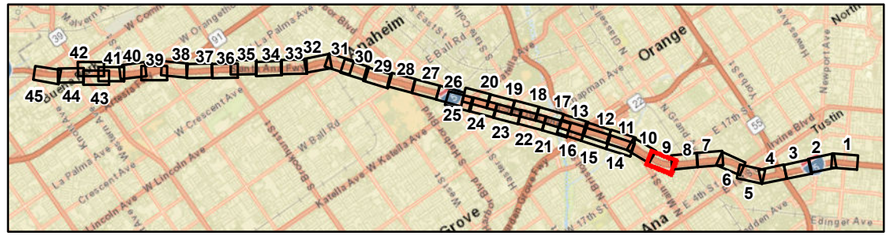
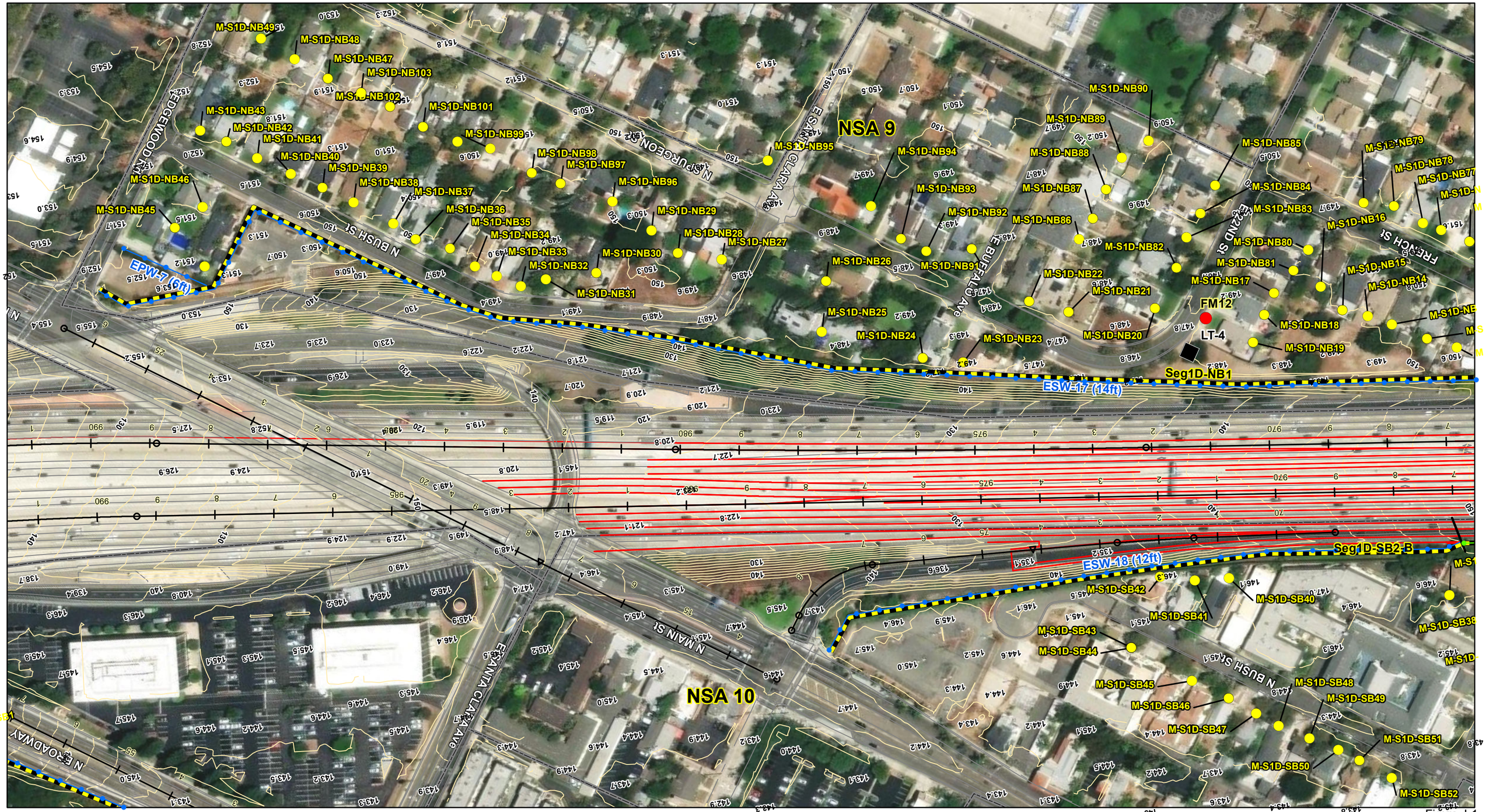


*Figure J-1
Sheet 9 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)
Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at the new location and at the existing height at a minimum.

0 75 150
Feet

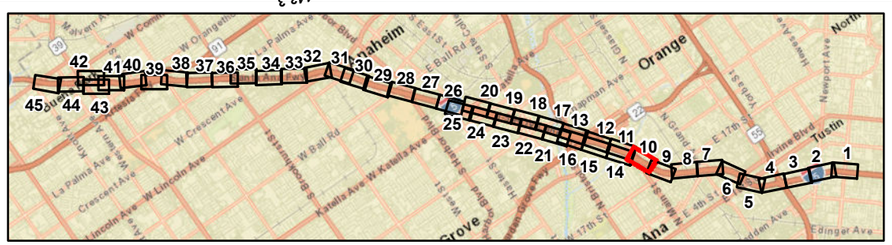
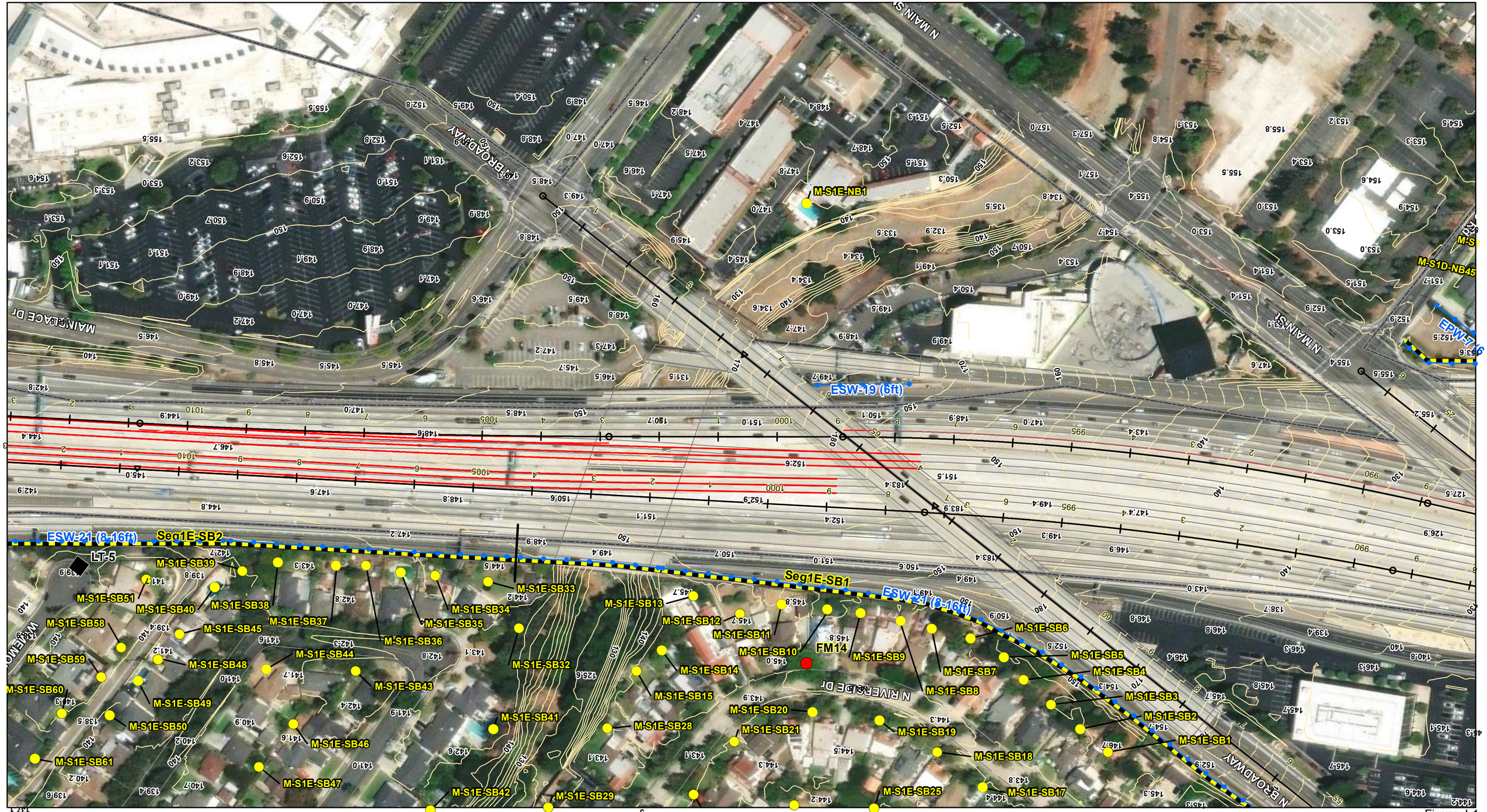


Figure J-1
Sheet 10 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

0 75 150
Feet

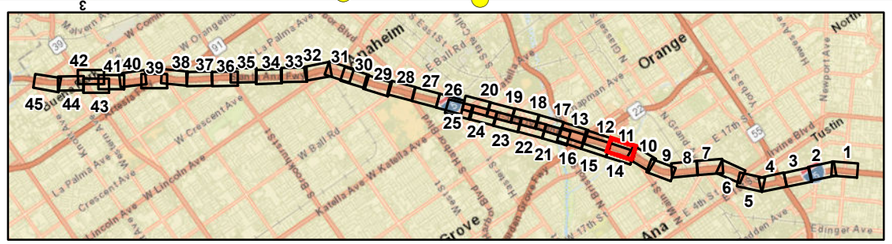
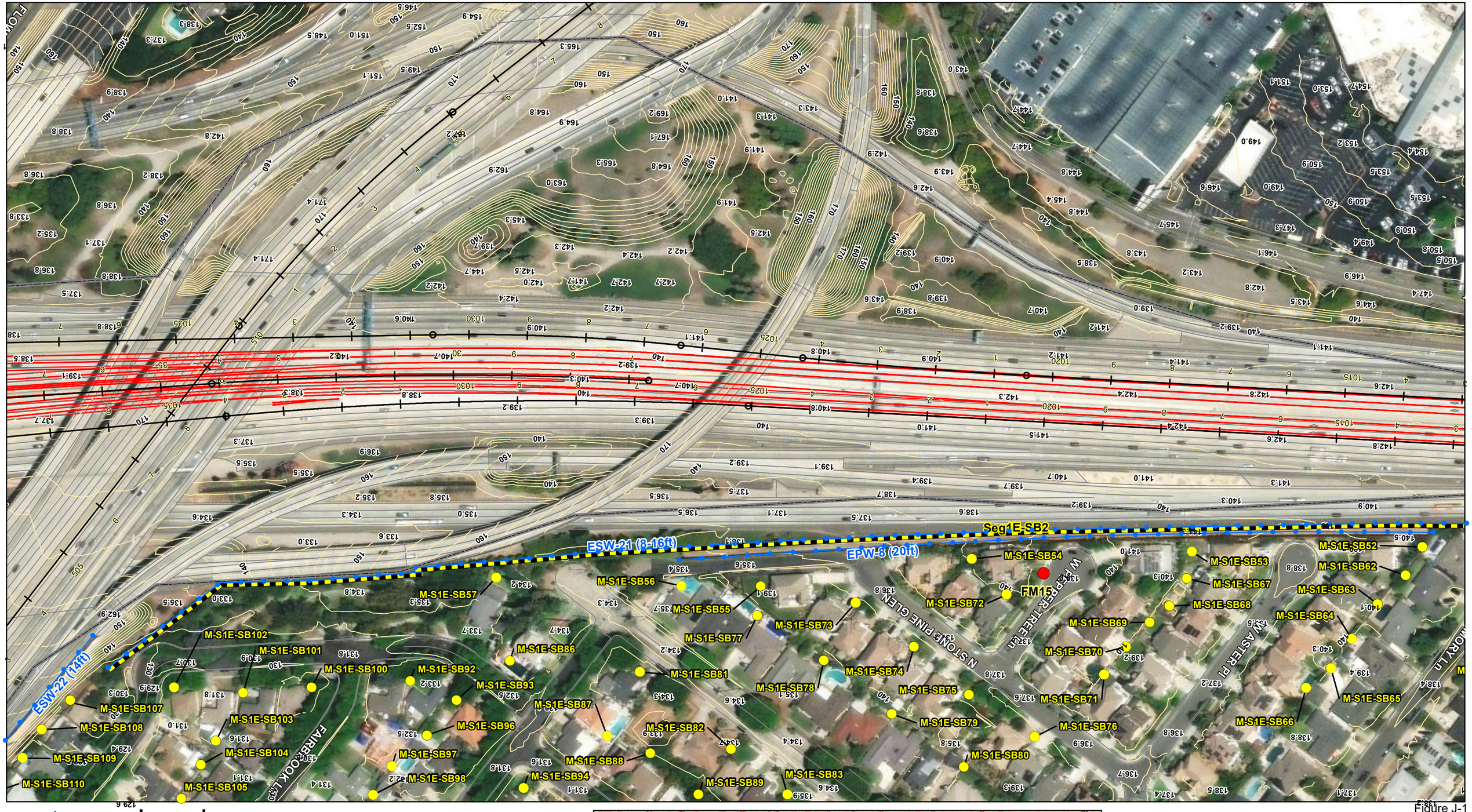


Figure J-1
Sheet 11 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



N

0 75 150

Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

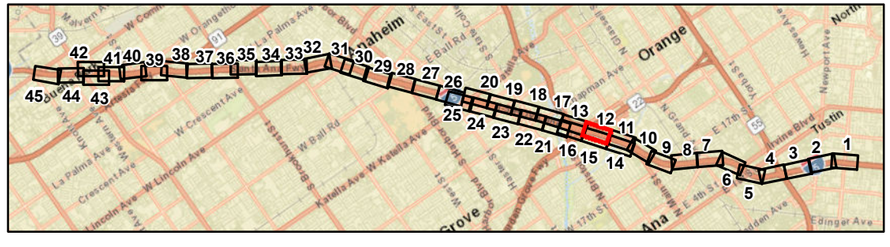
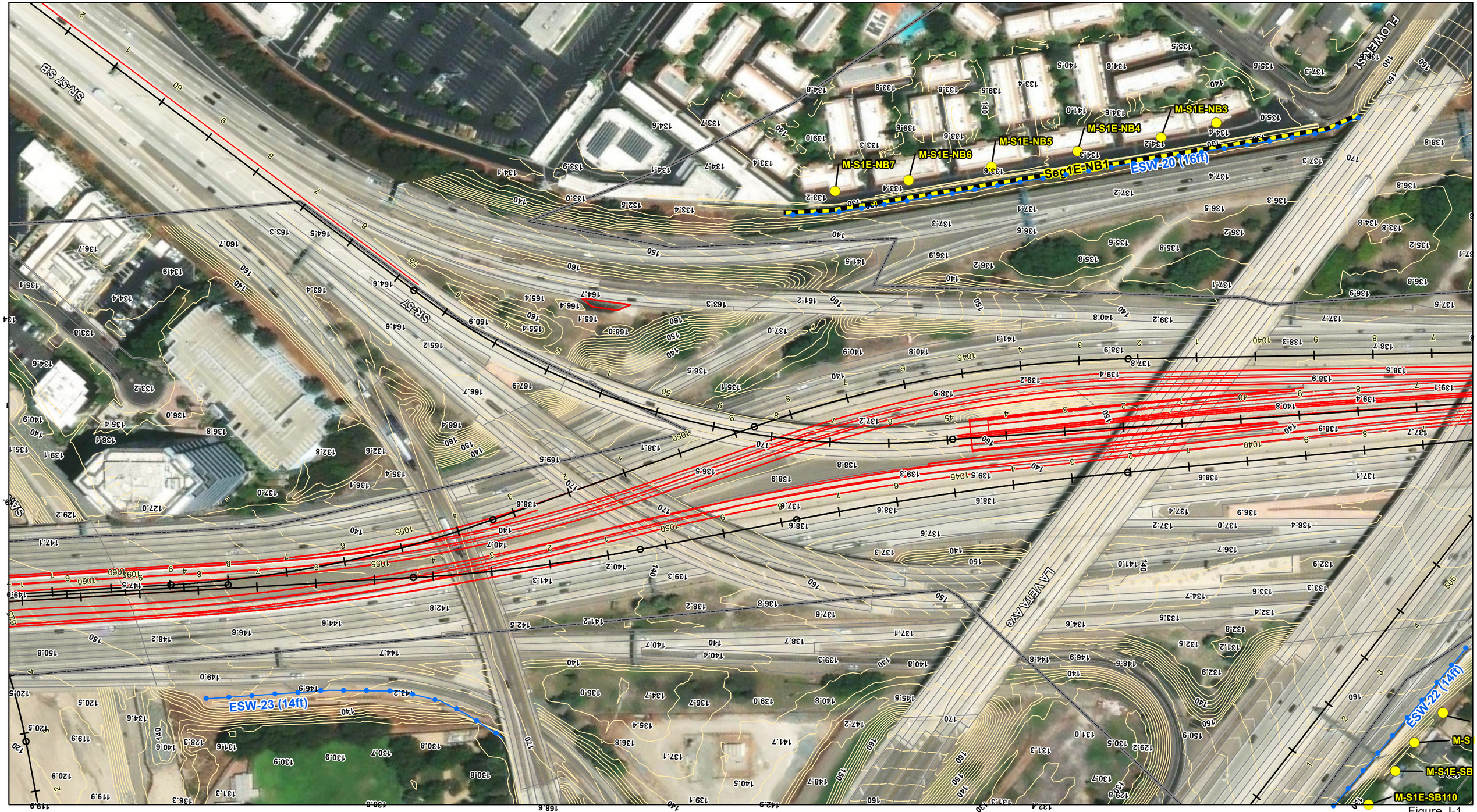


Figure J-1
Sheet 12 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

0 75 150
Feet

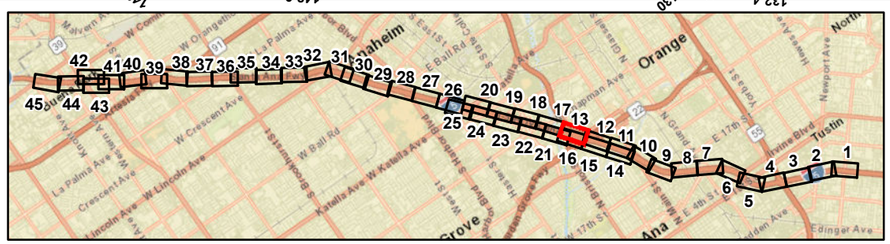
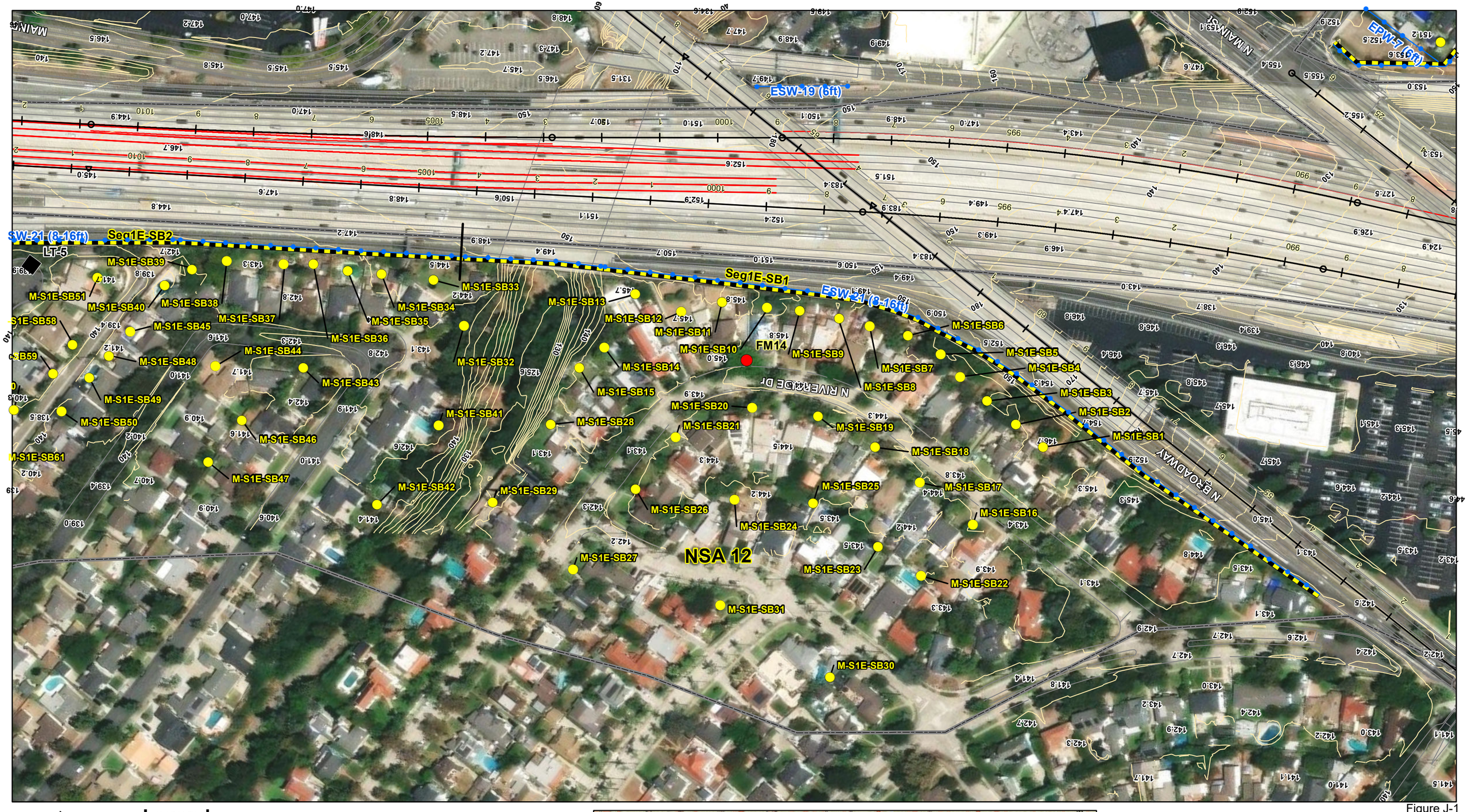


Figure J-1
Sheet 13 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)
Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



N

0 75 150

Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

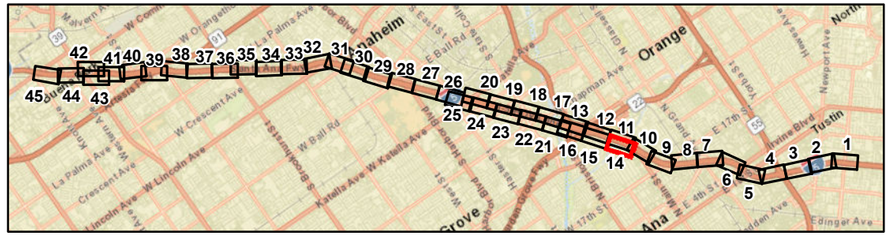
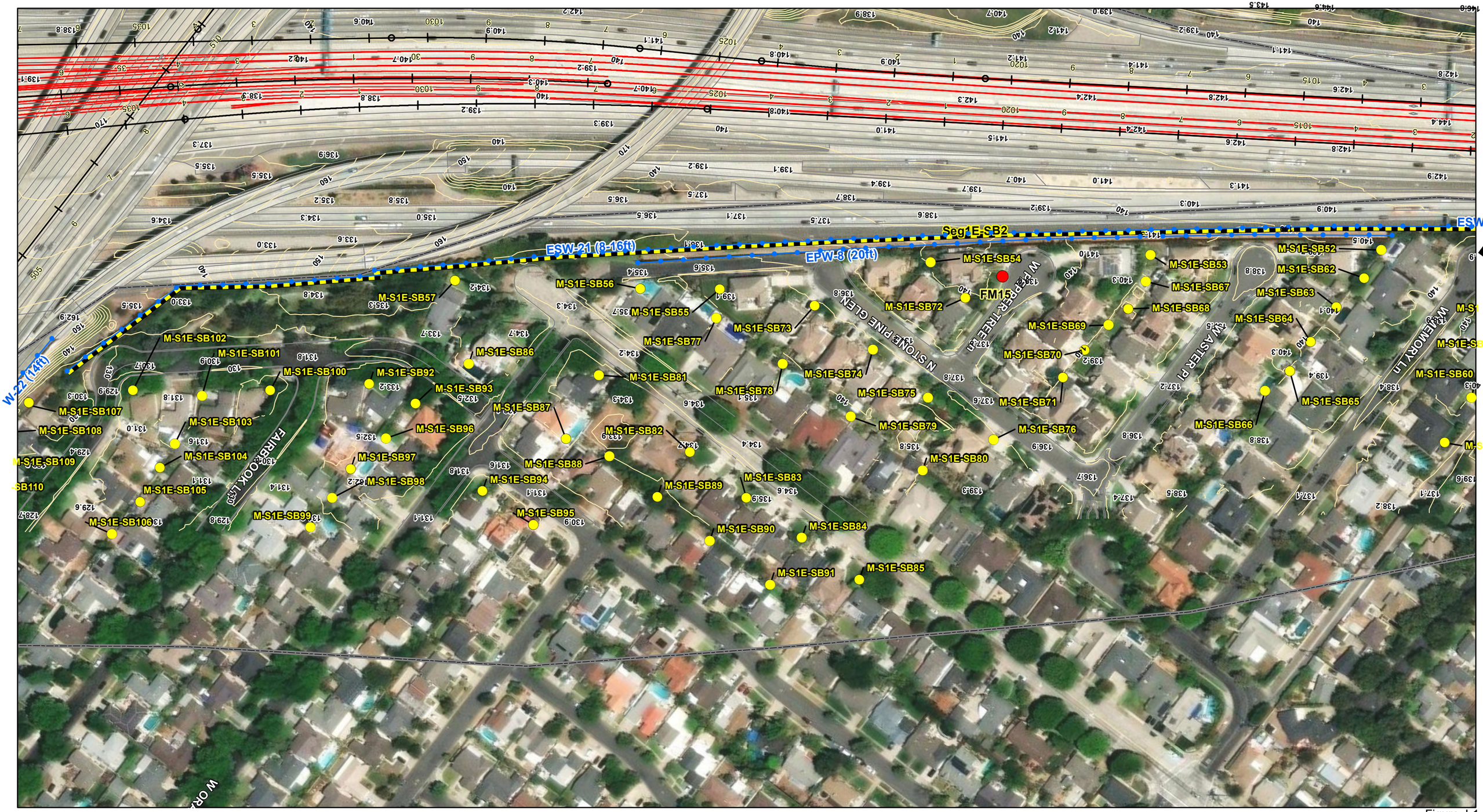


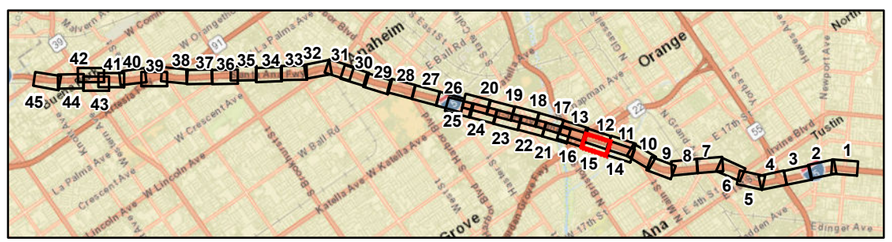
Figure J-1
Sheet 14 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006





Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

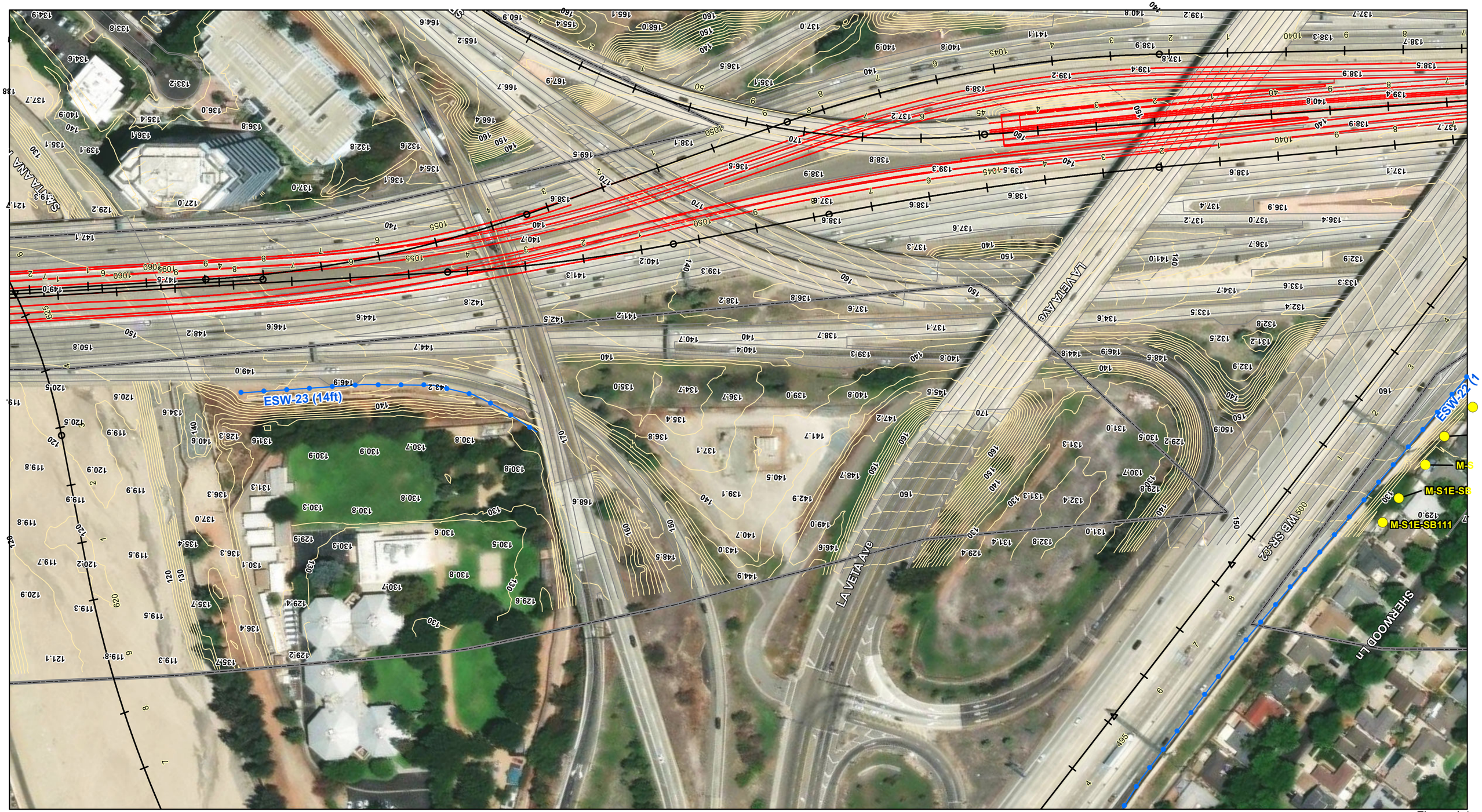
0 75 150
Feet

Figure J-1
Sheet 15 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



N

0 75 150

Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

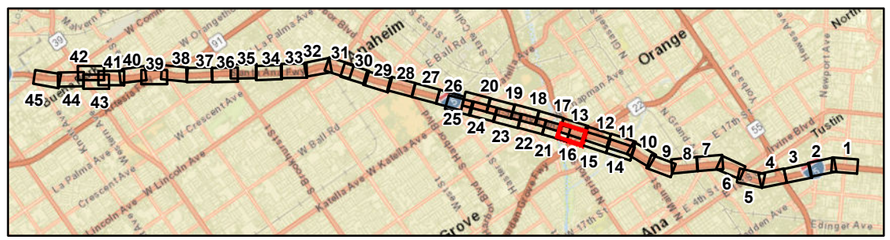


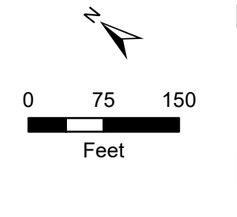
Figure J-1
Sheet 16 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006





Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

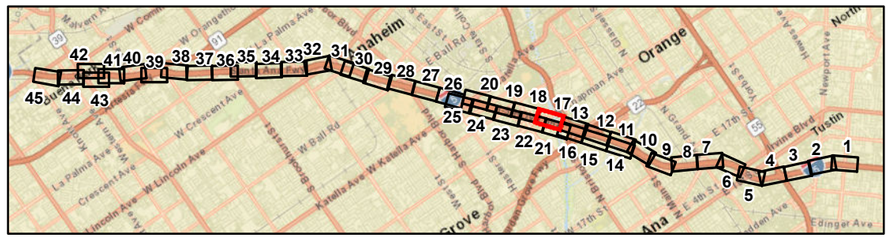
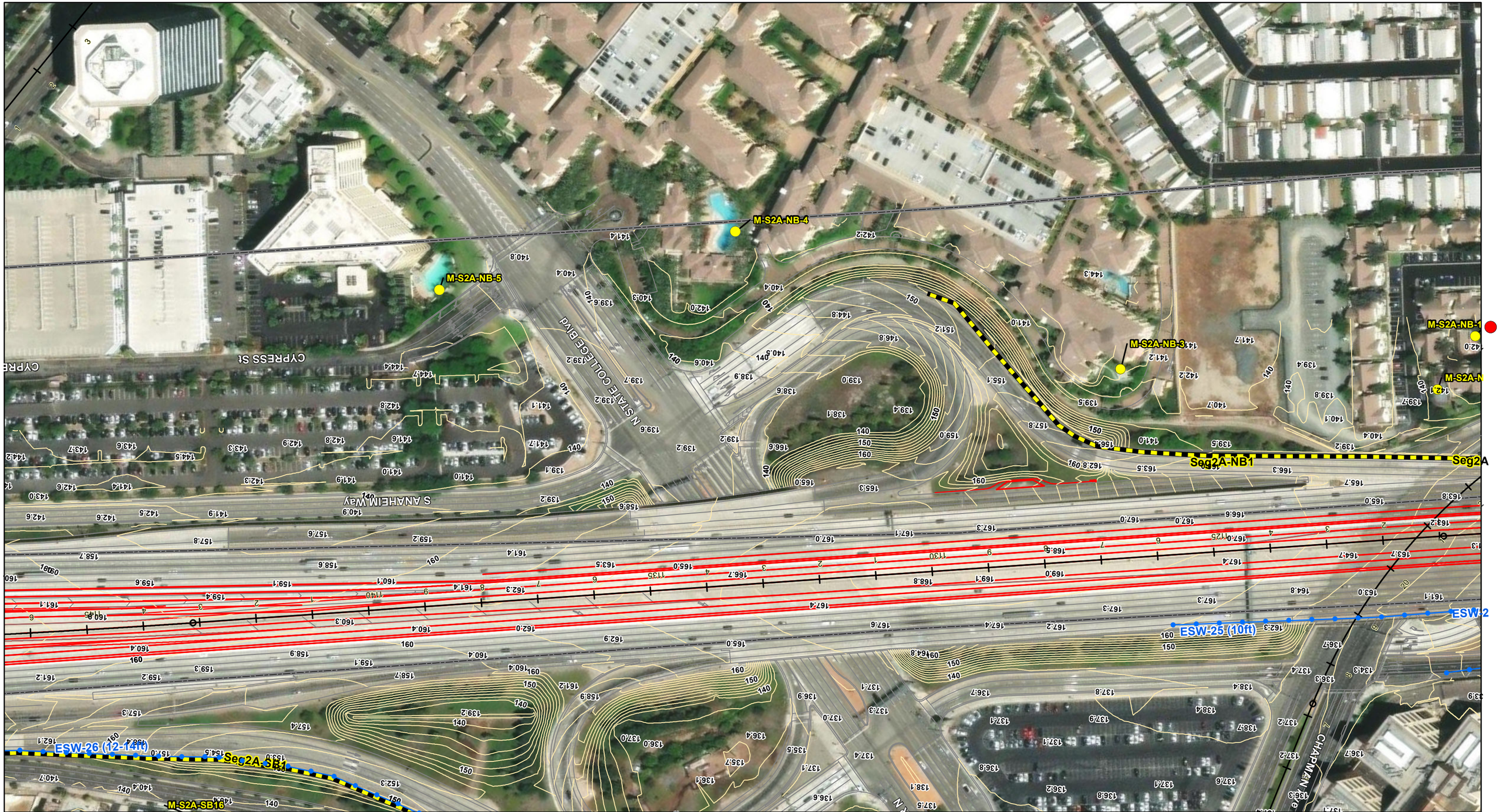


Figure J-1
Sheet 17 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

0 75 150
Feet

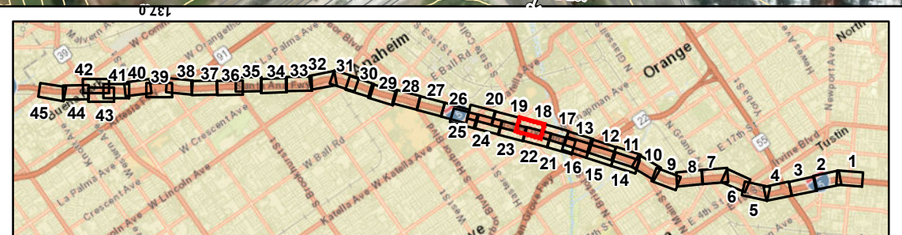
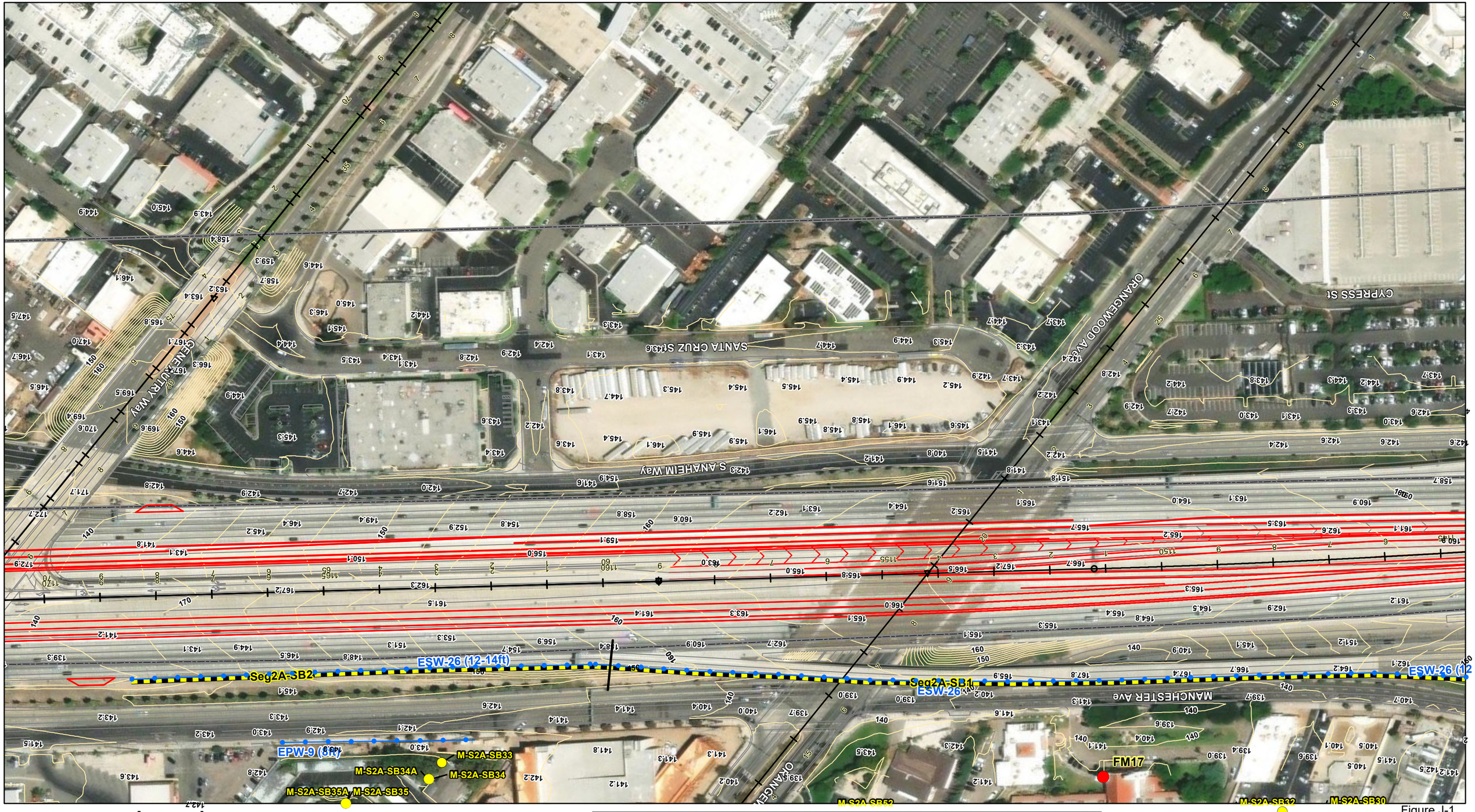


Figure J-1
Sheet 18 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



N

0 75 150

Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

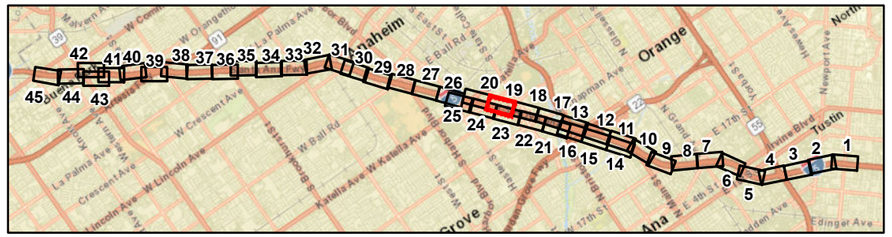


Figure J-1
Sheet 19 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006

NSA 13

NSA 14

ESW-27 (12ft)

Seg2A-SB3

S ANAHEIM Way

S CLAUDINA Way

KATELLA AVE

MANCHESTER AVE

CITRUS DR

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

0 75 150
Feet

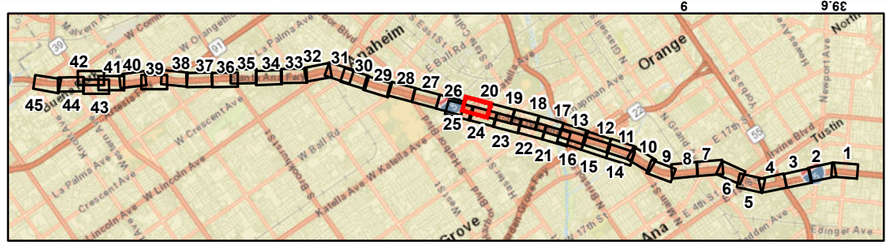


Figure J-1
Sheet 20 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)
Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006

NSA 14

ESW-24 (12-14ft)

ESW-23 (14ft)

SHOWELL Way

HOSPITAL FRONTAGE Rd

SANTA ANA RIVER TRAIL

SANTA ANA RIVER T

0 75 150

Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

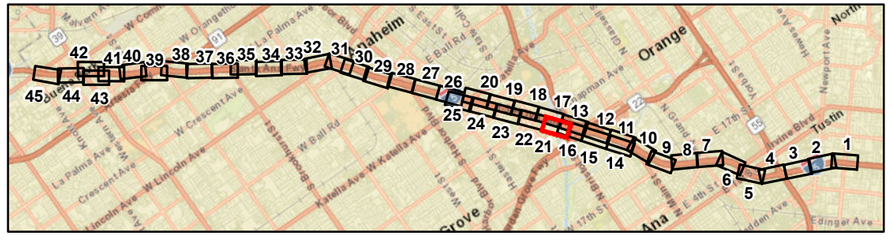
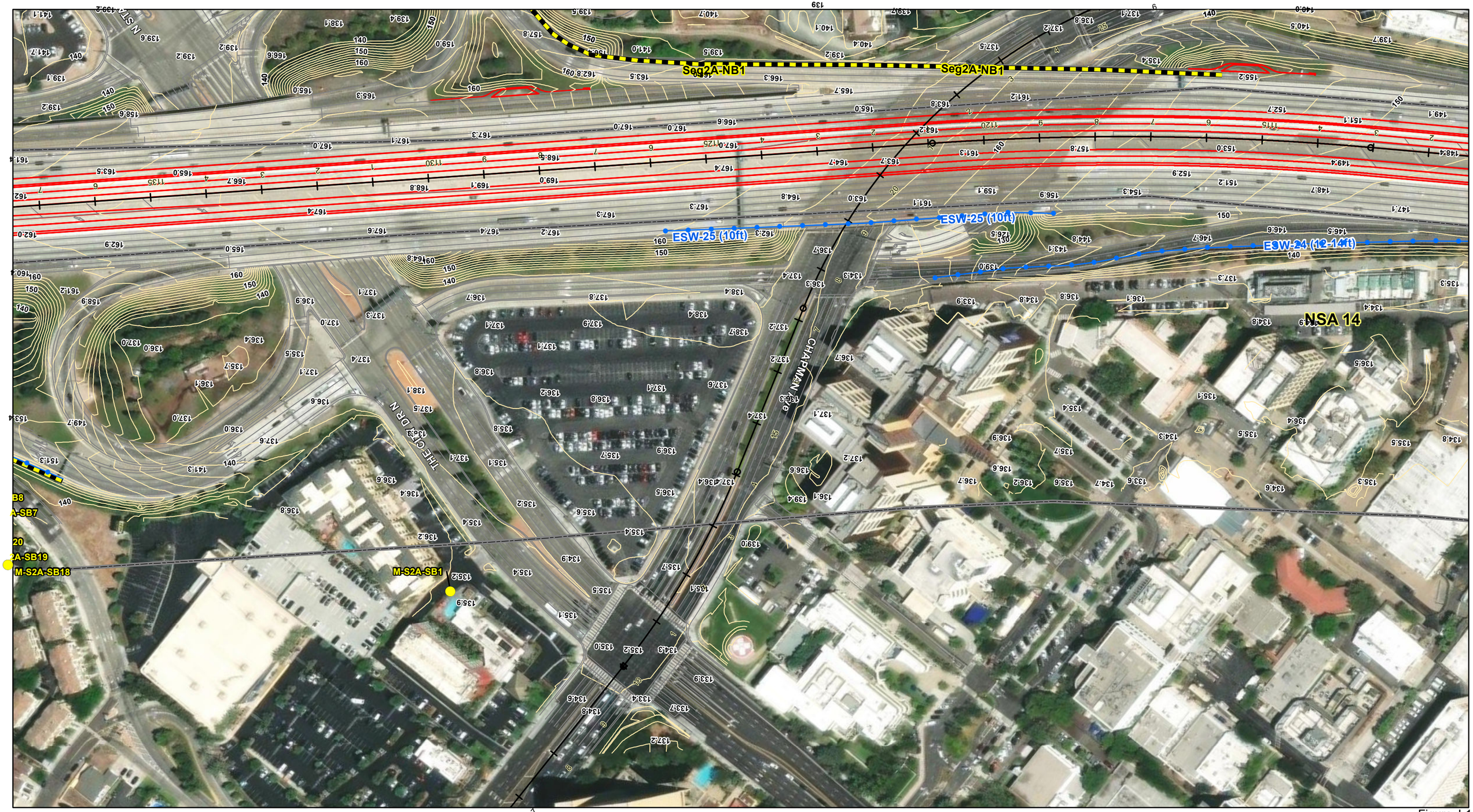


Figure J-1
Sheet 21 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

0 75 150
Feet

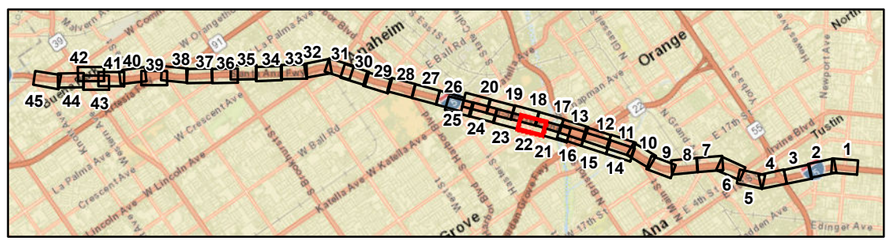


Figure J-1
Sheet 22 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006

NSA 13

NSA 14

Seg2A-SB2

Seg2A-SB1

Seg2A-SB3

ESW-26 (12-1410)

FM17

LT-6

M-S2A-SB52

M-S2A-SB32

M-S2A-SB31

M-S2A-SB30

M-S2A-SB29

M-S2A-SB28

M-S2A-SB27

M-S2A-SB24

M-S2A-SB16

M-S2A-SB15

M-S2A-SB14

M-S2A-SB13

M-S2A-SB12

M-S2A-SB6

M-S2A-SB5

M-S2A-SB4

M-S2A-SB23

M-S2A-SB26

M-S2A-SB17

M-S2A-SB25

M-S2A-SB22

M-S2A-SB11

M-S2A-SB3

M-S2A-SB10

M-S2A-SB9

M-S2A-SB8

M-S2A-SB7

M-S2A-SB2

M-S2A-SB21

M-S2A-SB20

M-S2A-SB19

M-S2A-SB18

S ANAHEIM Way

MANCHESTER AVE

ORANGEWOOD AVE

0 75 150

Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at the new location and at the existing height at a minimum.

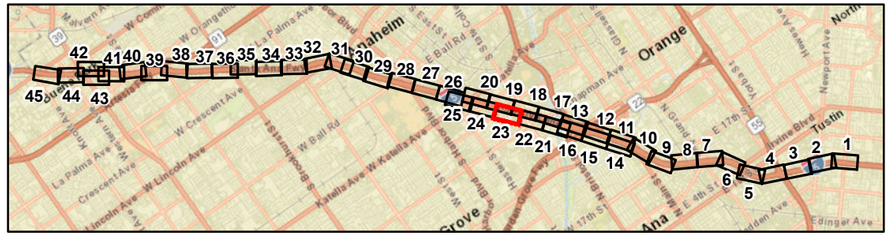


Figure J-1
Sheet 23 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006

NSA 13

NSA 14

ESW-27 (12ft)

ESW-26 (12-14ft)

EPW-9 (8ft)

Seg2A-SB2

Seg2A-SB3

MANCHESTER AVE

CITRUS DR

M-S2A-SB33

M-S2A-SB34A

M-S2A-SB34

M-S2A-SB35A

M-S2A-SB35

M-S2A-SB36A

M-S2A-SB36

M-S2A-SB37A

M-S2A-SB37

M-S2A-SB38

M-S2A-SB39

M-S2A-SB40

M-S2A-SB41

M-S2A-SB42

M-S2A-SB43

M-S2A-SB44

M-S2A-SB45

M-S2A-SB47

M-S2A-SB48

M-S2A-SB49

M-S2A-SB50

M-S2A-SB46

FM18

65ft

0 75 150

Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

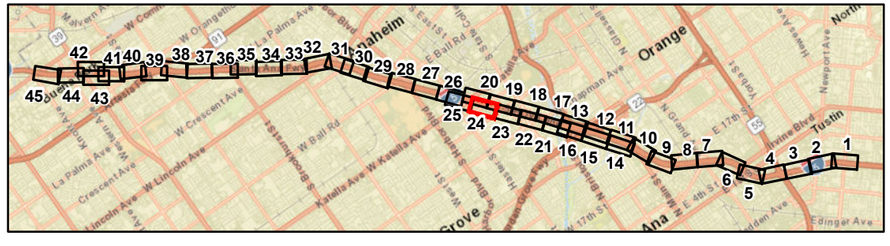
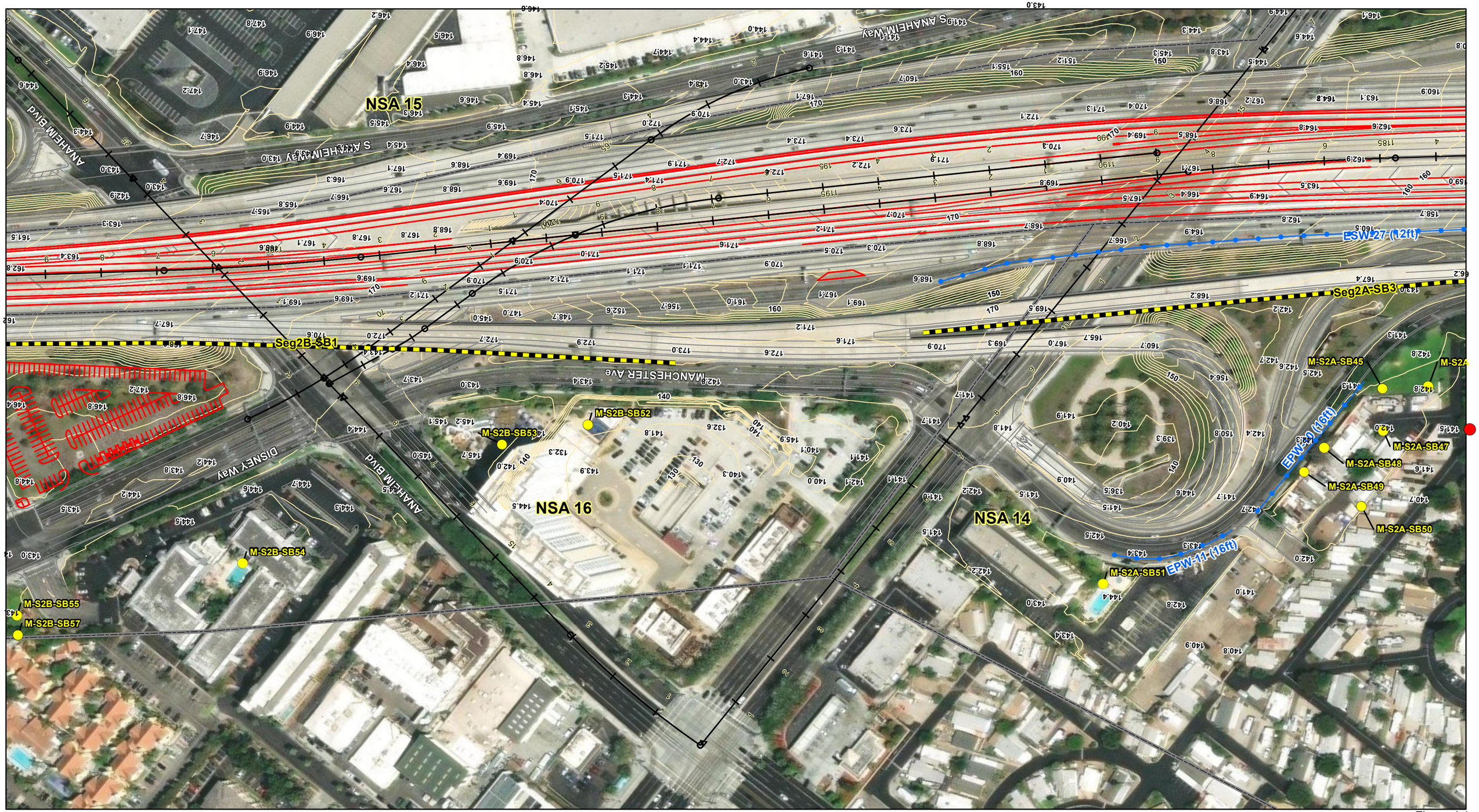


Figure J-1
Sheet 24 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

0 75 150
Feet

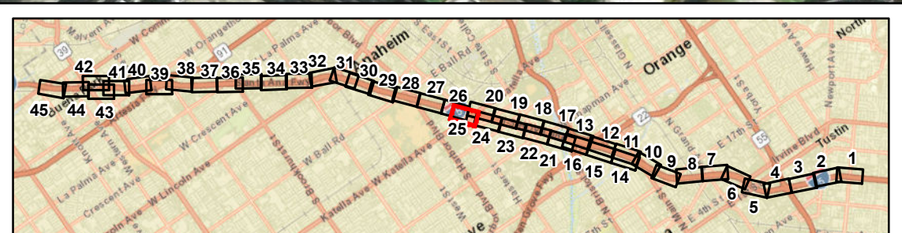
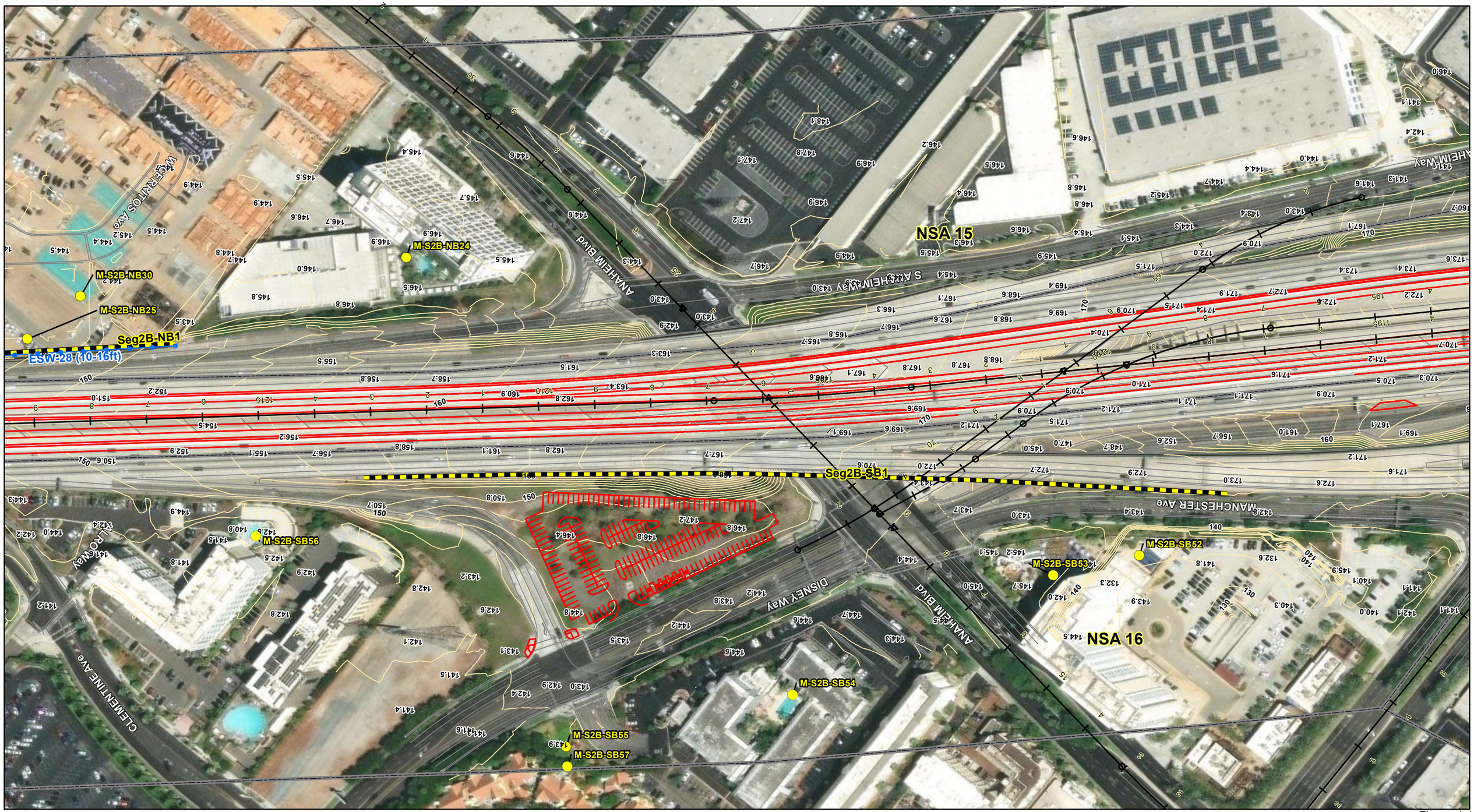


Figure J-1
Sheet 25 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

0 75 150
Feet

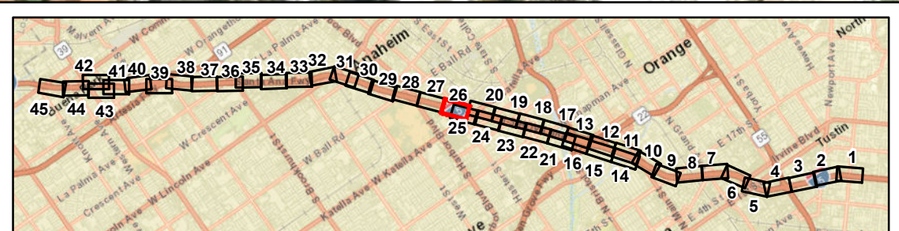
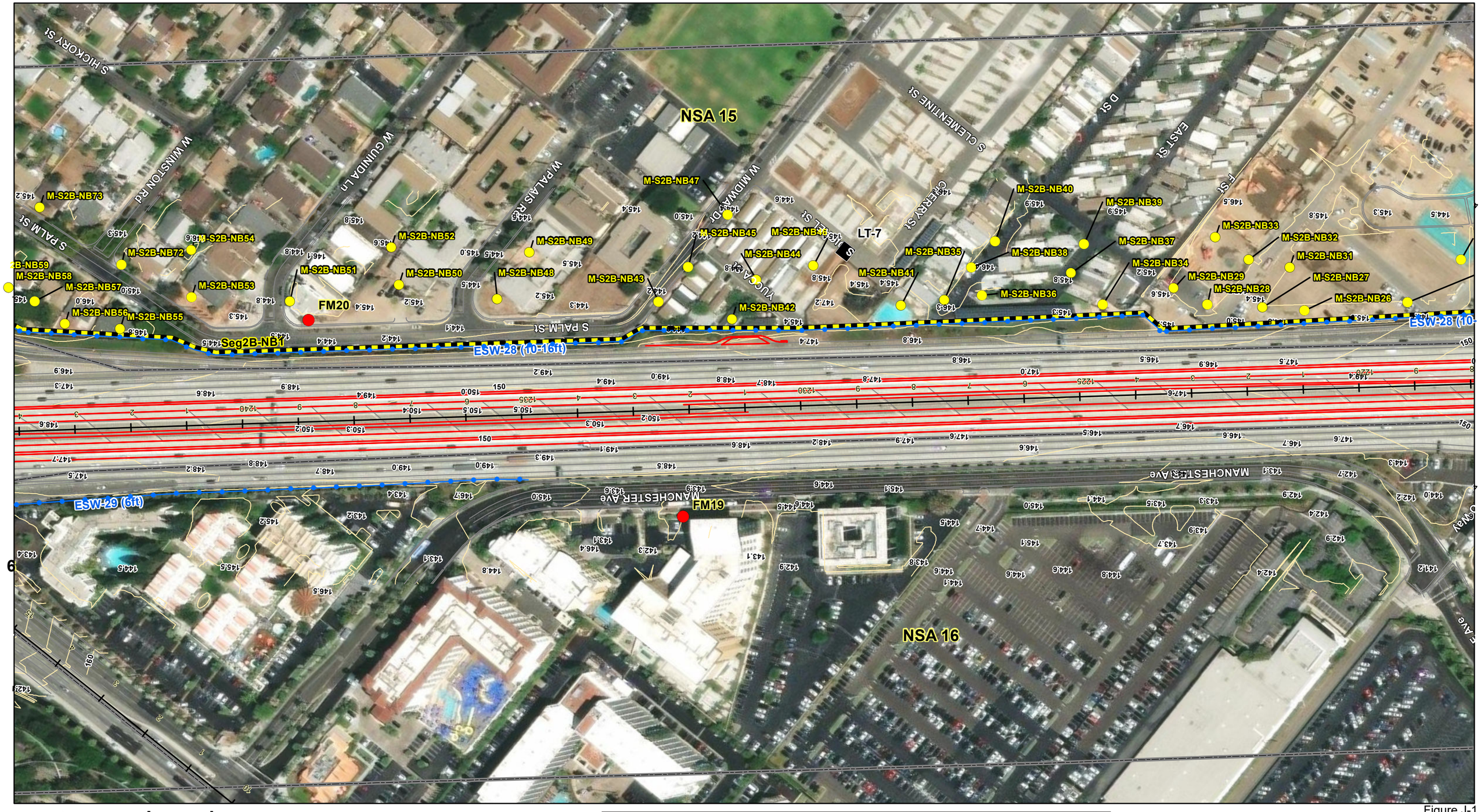


Figure J-1
Sheet 26 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)
Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



N

0 75 150
Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

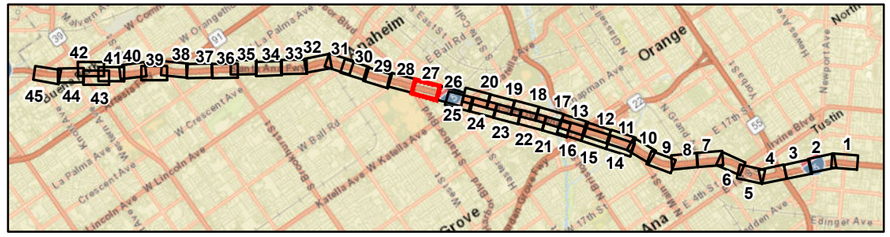
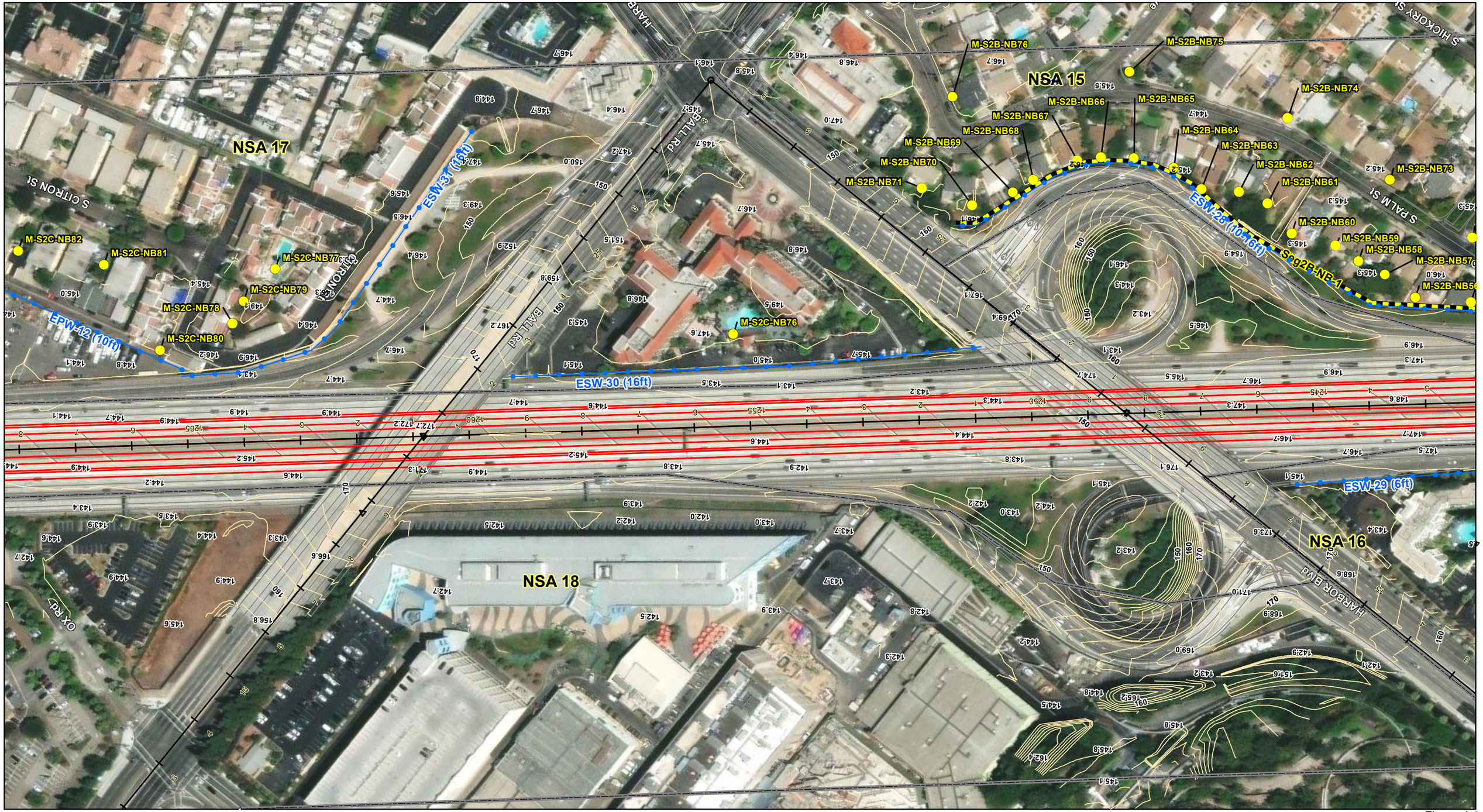


Figure J-1
Sheet 27 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

0 75 150
Feet

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

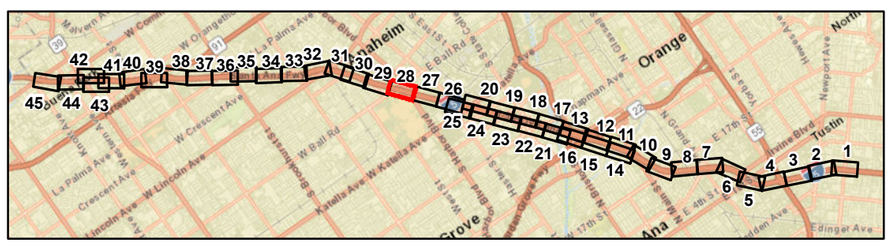
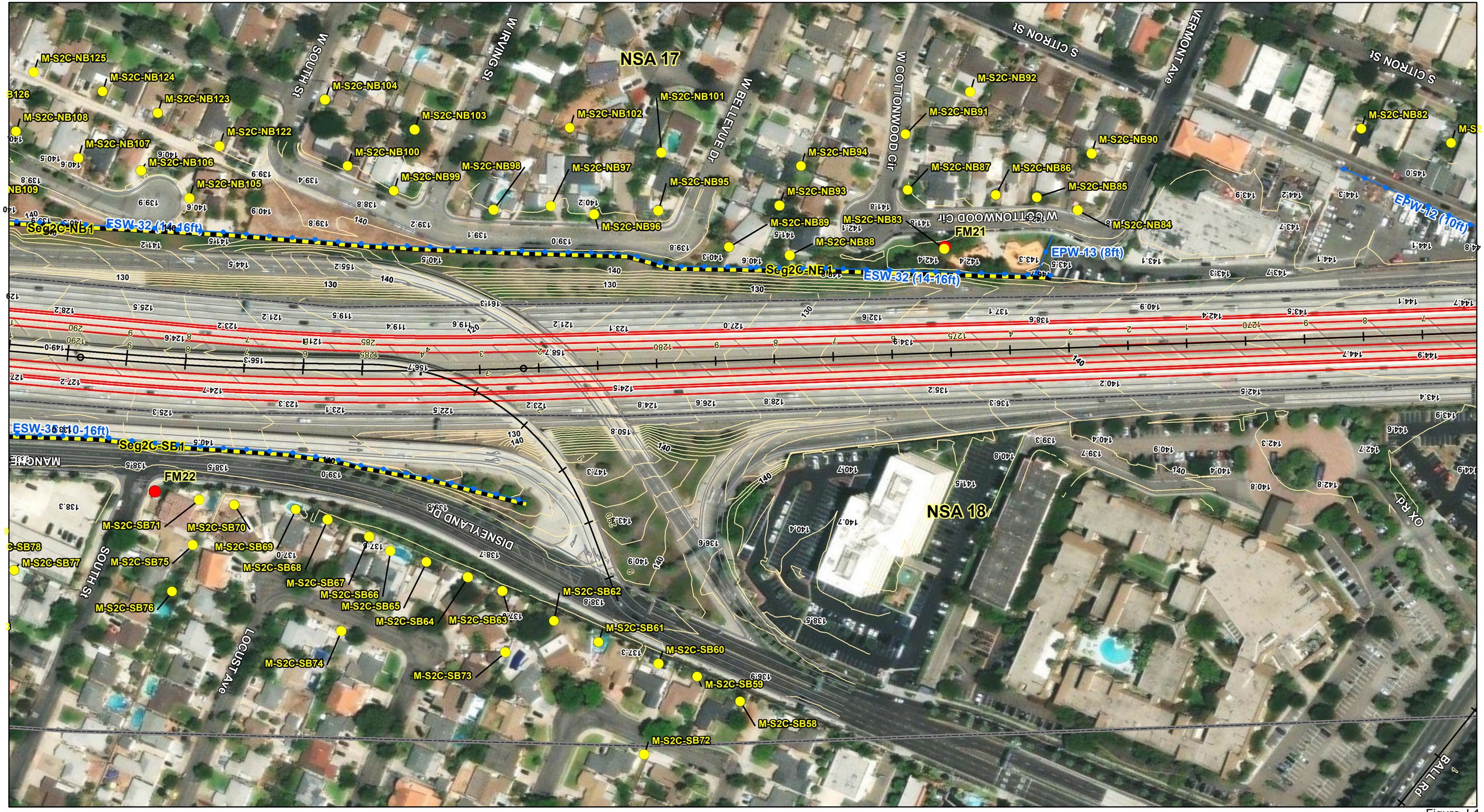


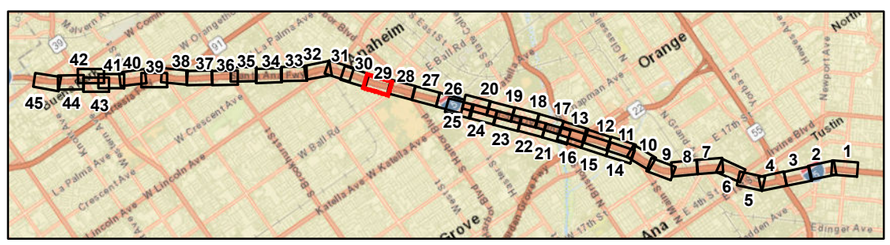
Figure J-1
Sheet 28 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006





Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

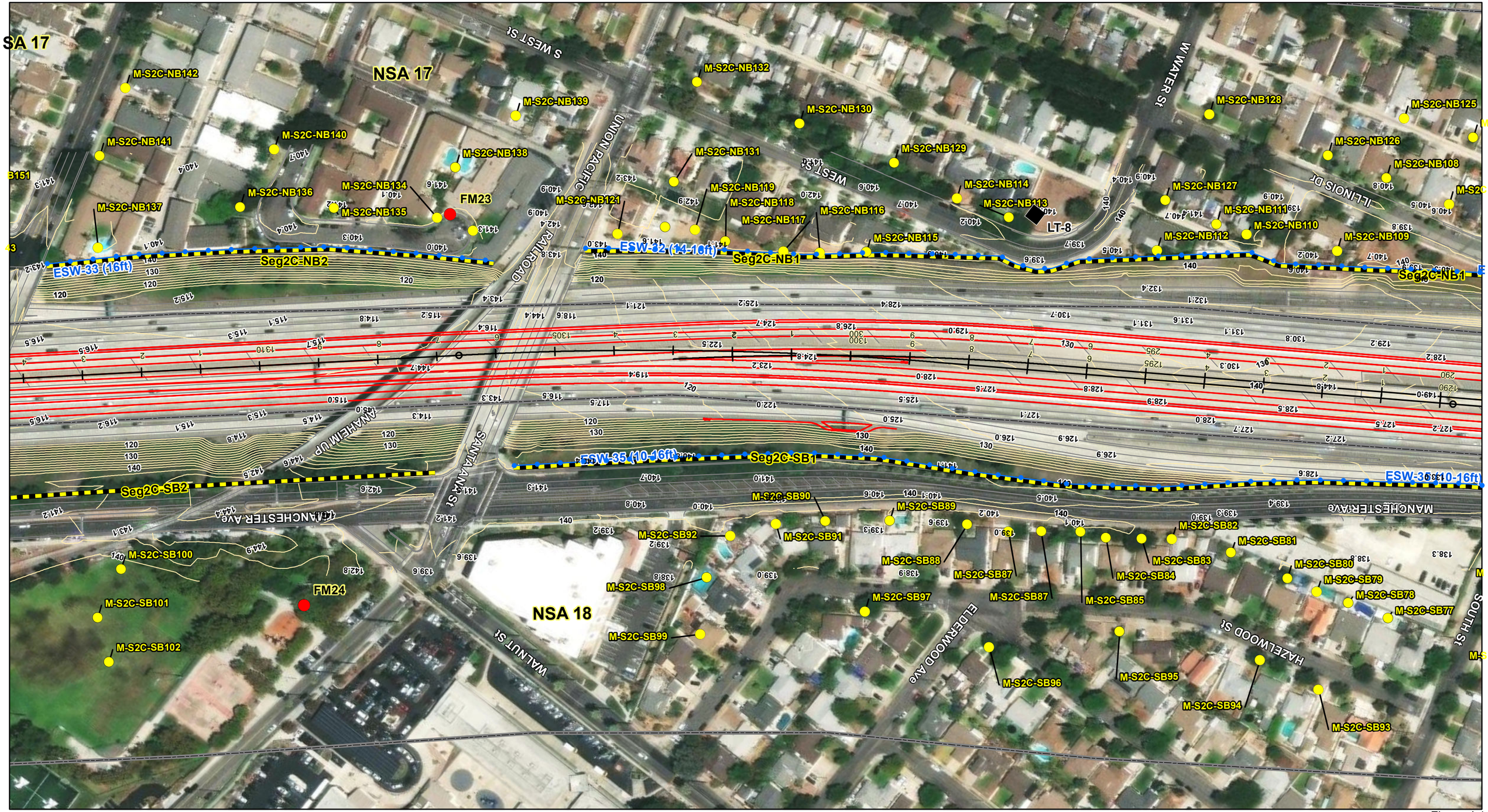
0 75 150
Feet

Figure J-1
Sheet 29 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



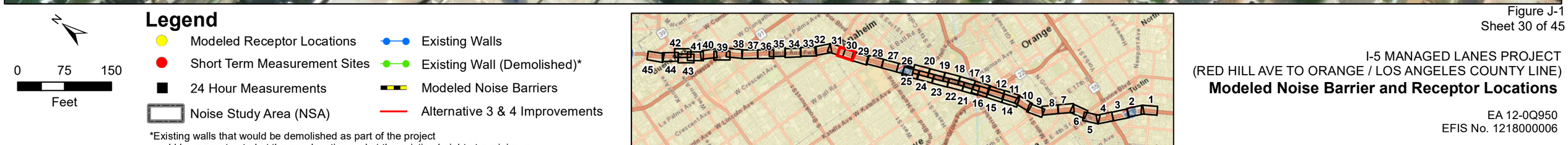
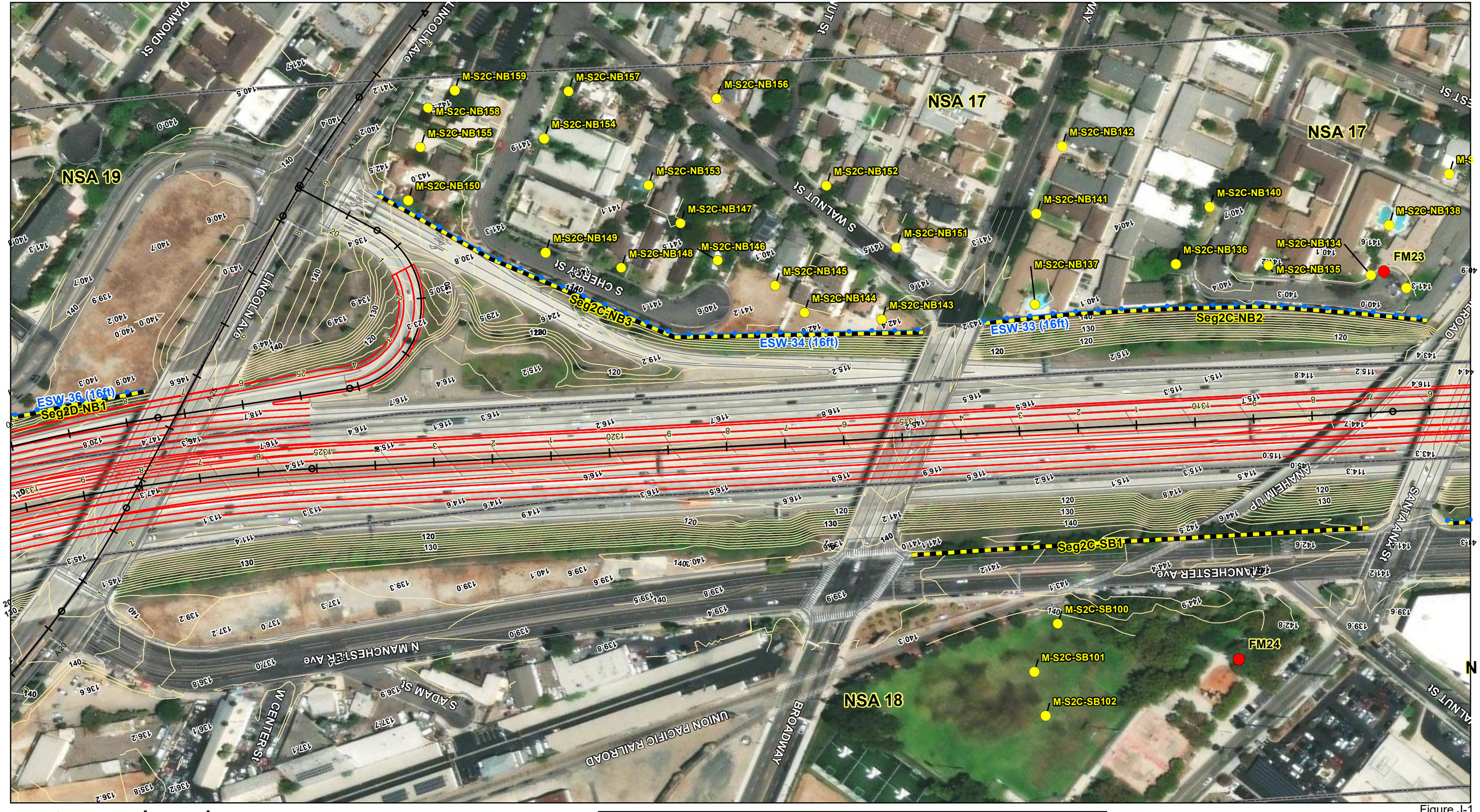


Figure J-1
Sheet 30 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

0 75 150
Feet

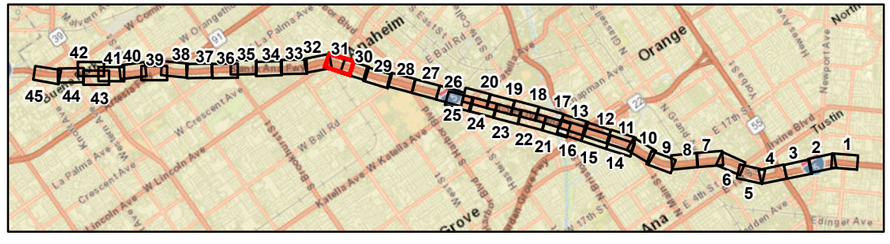
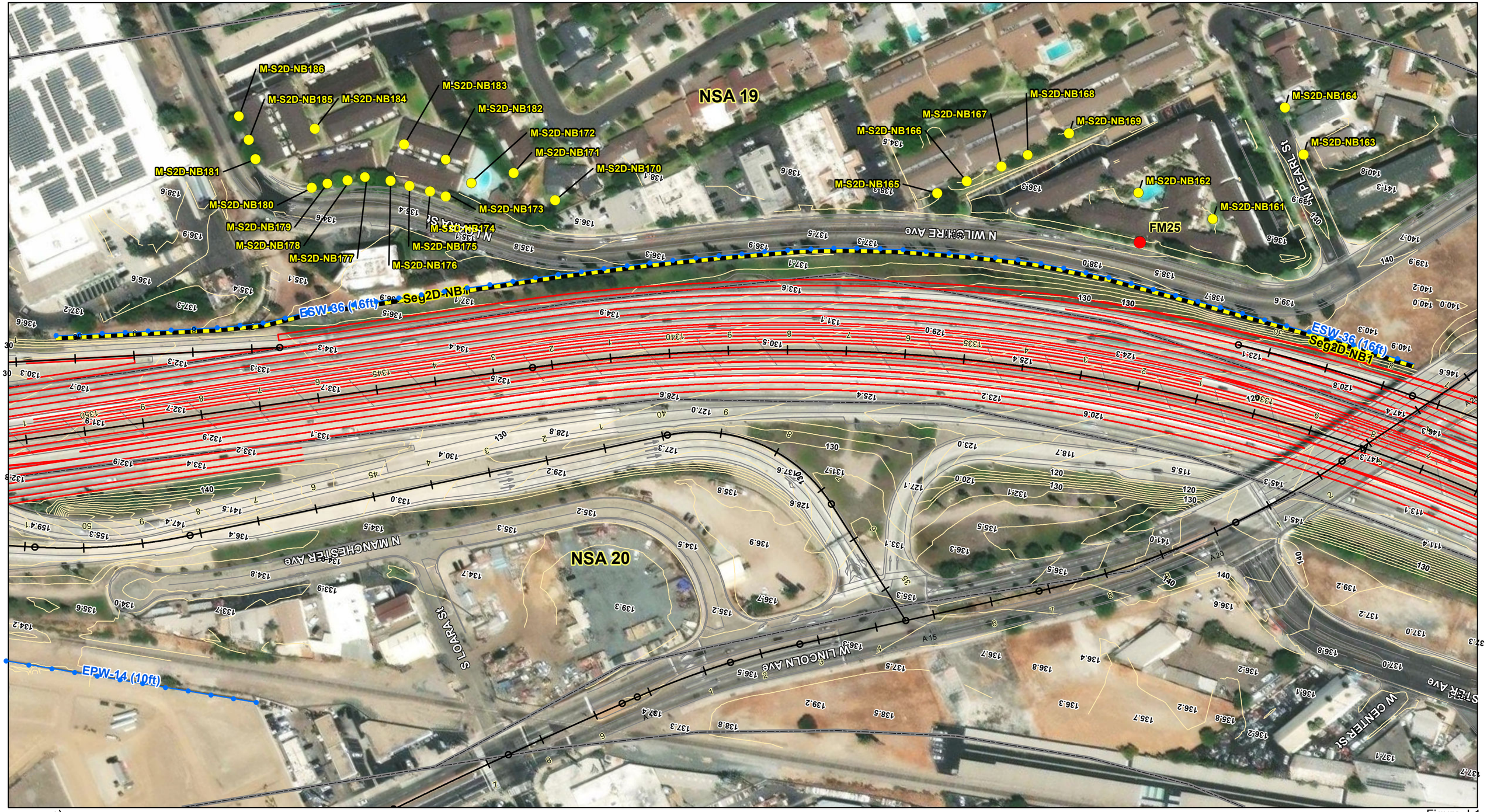


Figure J-1
Sheet 31 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



N

0 75 150

Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

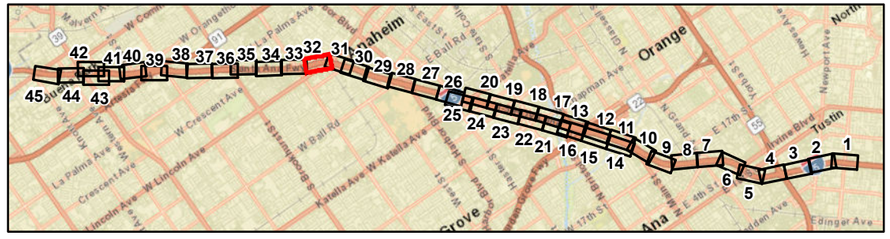


Figure J-1
Sheet 32 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006

NSA 19

NSA 20

M-S2D-NB203
M-S2D-NB202
M-S2D-NB204
M-S2D-NB199
M-S2D-NB198
M-S2D-NB196
M-S2D-NB195
M-S2D-NB194
M-S2D-NB197
M-S2D-NB193
M-S2D-NB192
M-S2D-NB191
M-S2D-NB190
M-S2D-NB189
M-S2D-NB188
M-S2D-NB187

Seg2D-NB2

EBW-37 (12-1-ft)

EPW-14 (10ft)

N PARKWOOD St
N MANLEY St
N FAIRHAVEN St
W WESTMOUNT Dr
N EUCLID St
N GARDEN PL
N EUCLID Way
UNION PACIFIC RAILROAD

N

0 75 150
Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

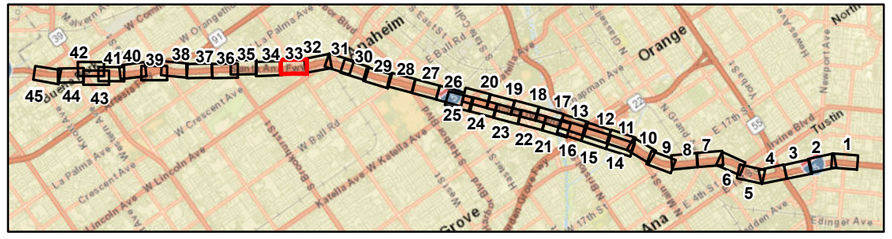
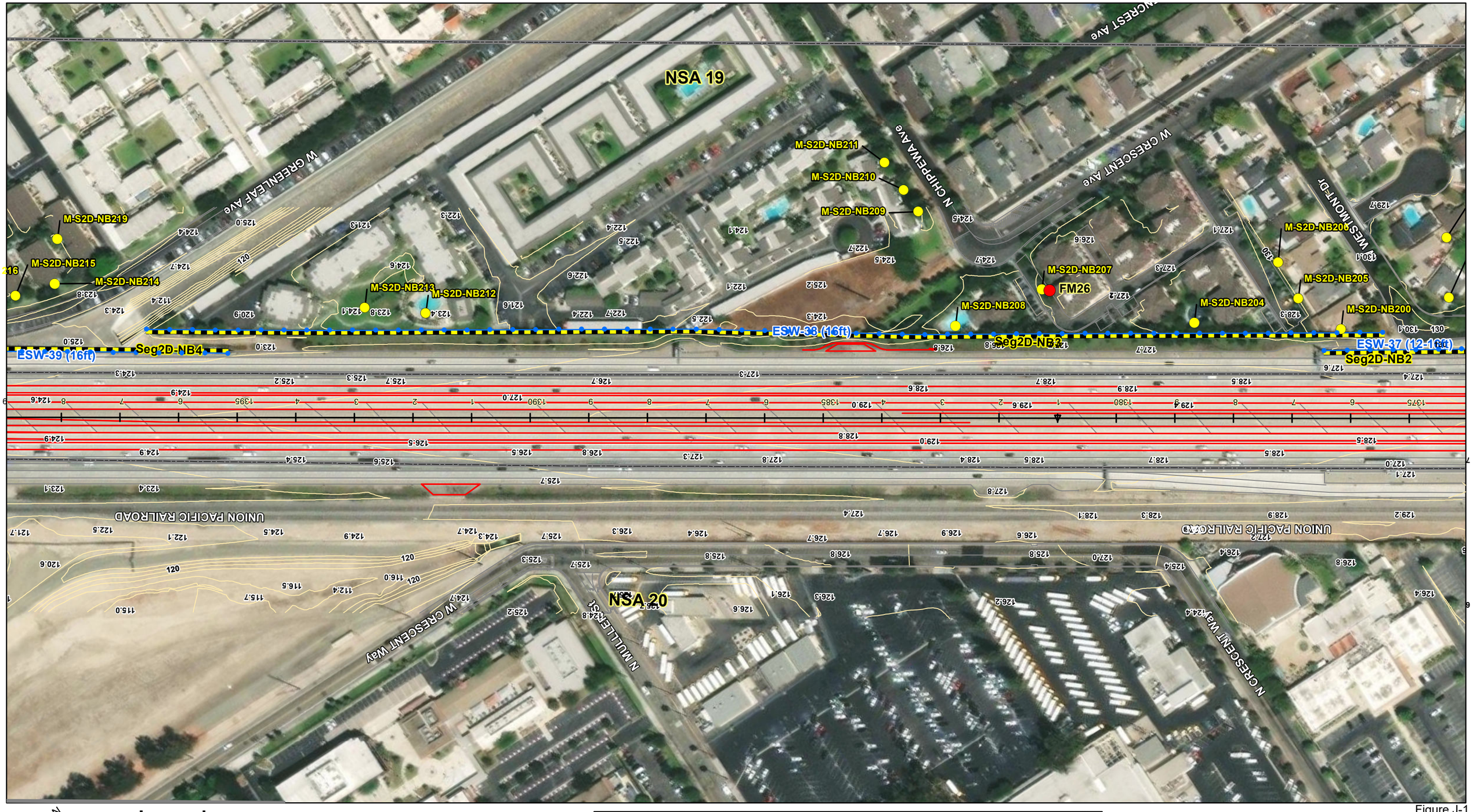
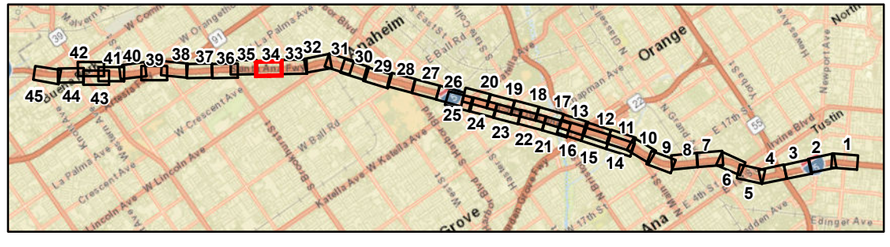


Figure J-1
Sheet 33 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)
Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006







0 75 150

Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

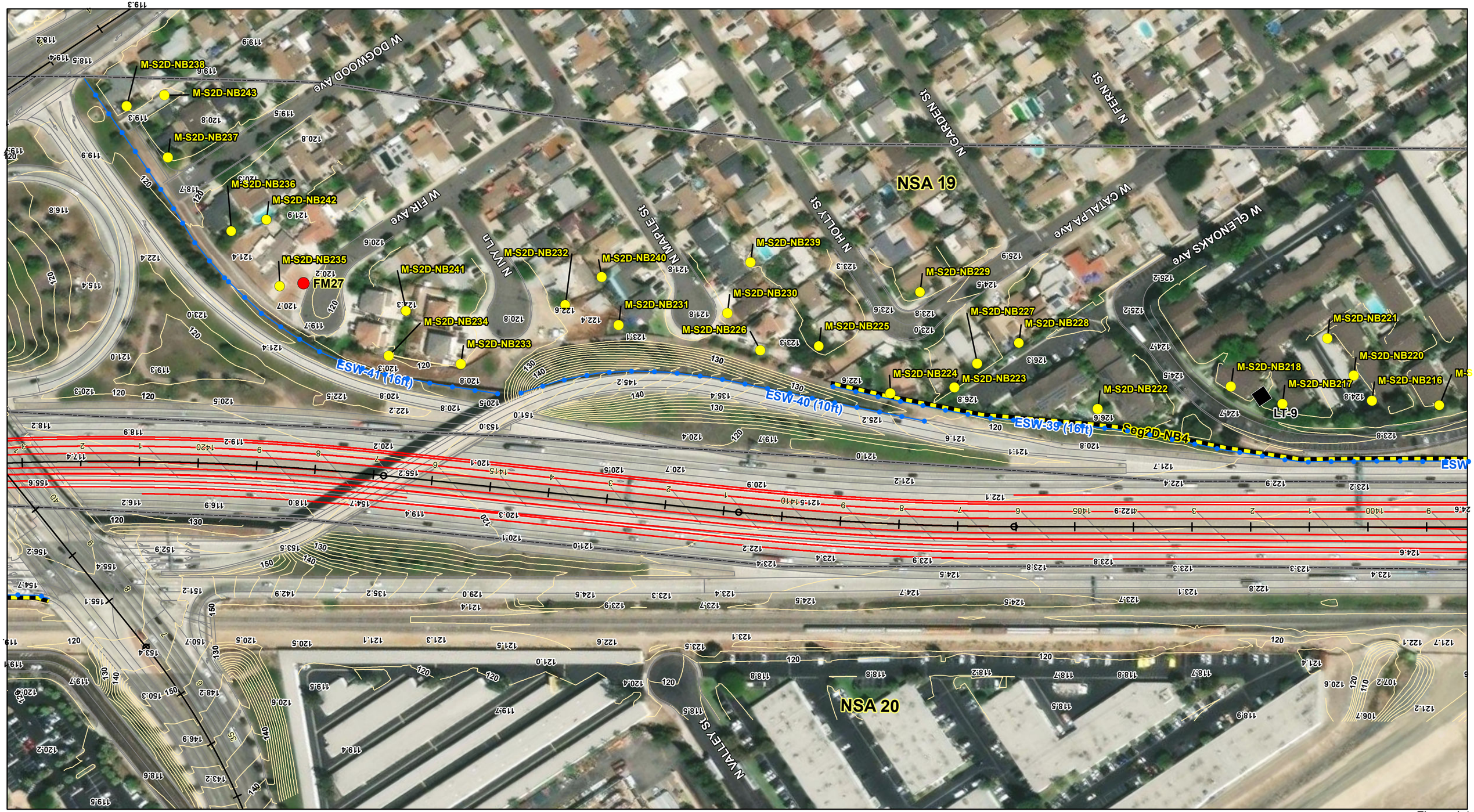
*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

Figure J-1
Sheet 34 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

0 75 150
Feet

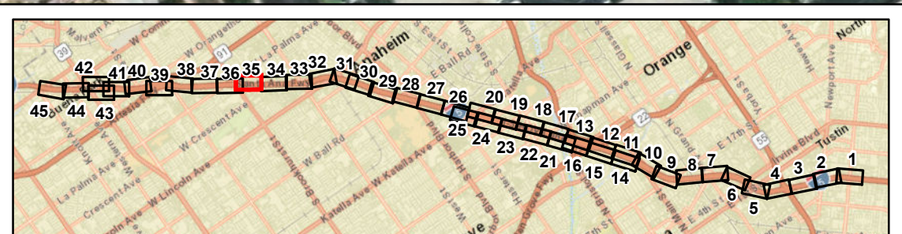
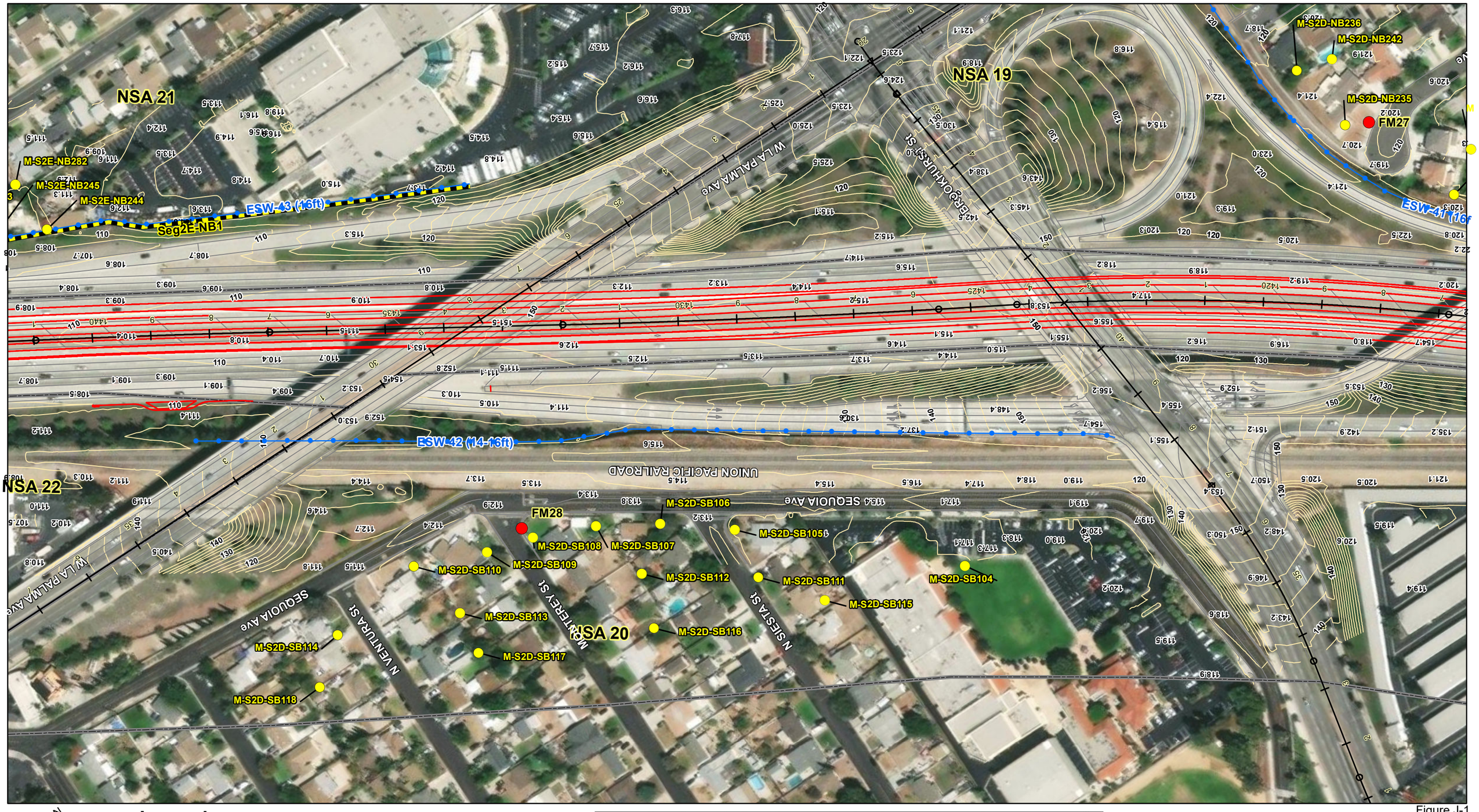


Figure J-1
Sheet 35 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)
Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



N

0 75 150

Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

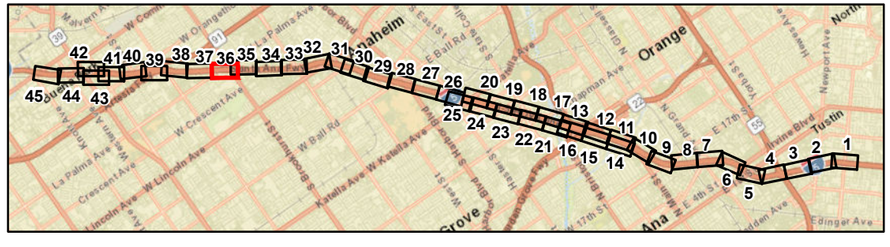
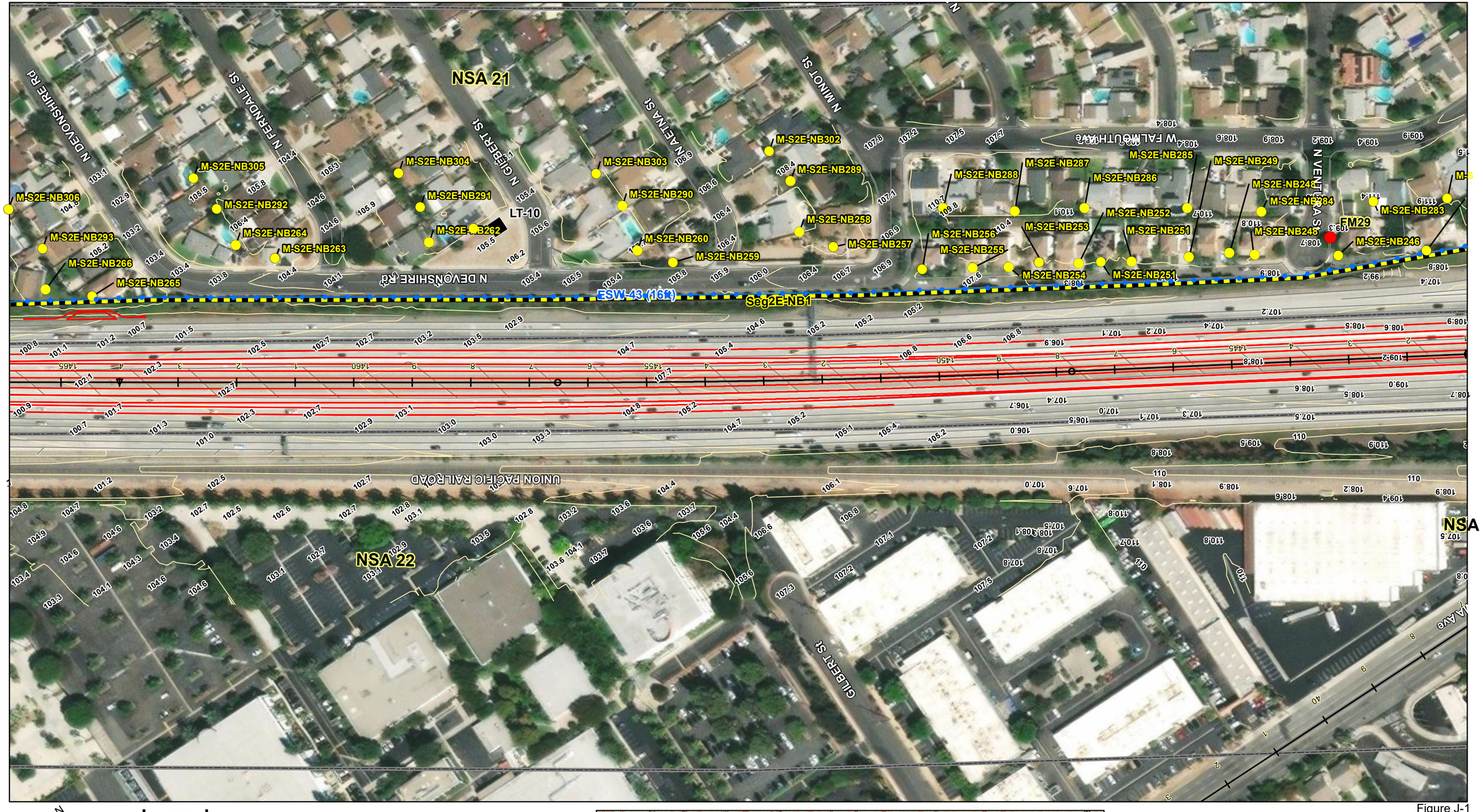


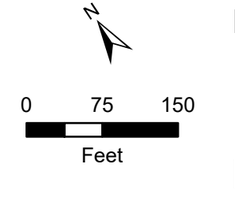
Figure J-1
Sheet 36 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006





Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

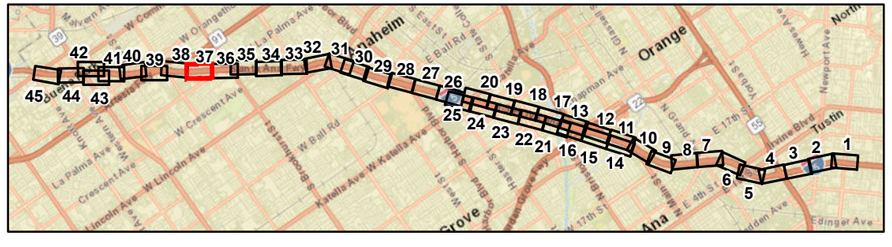
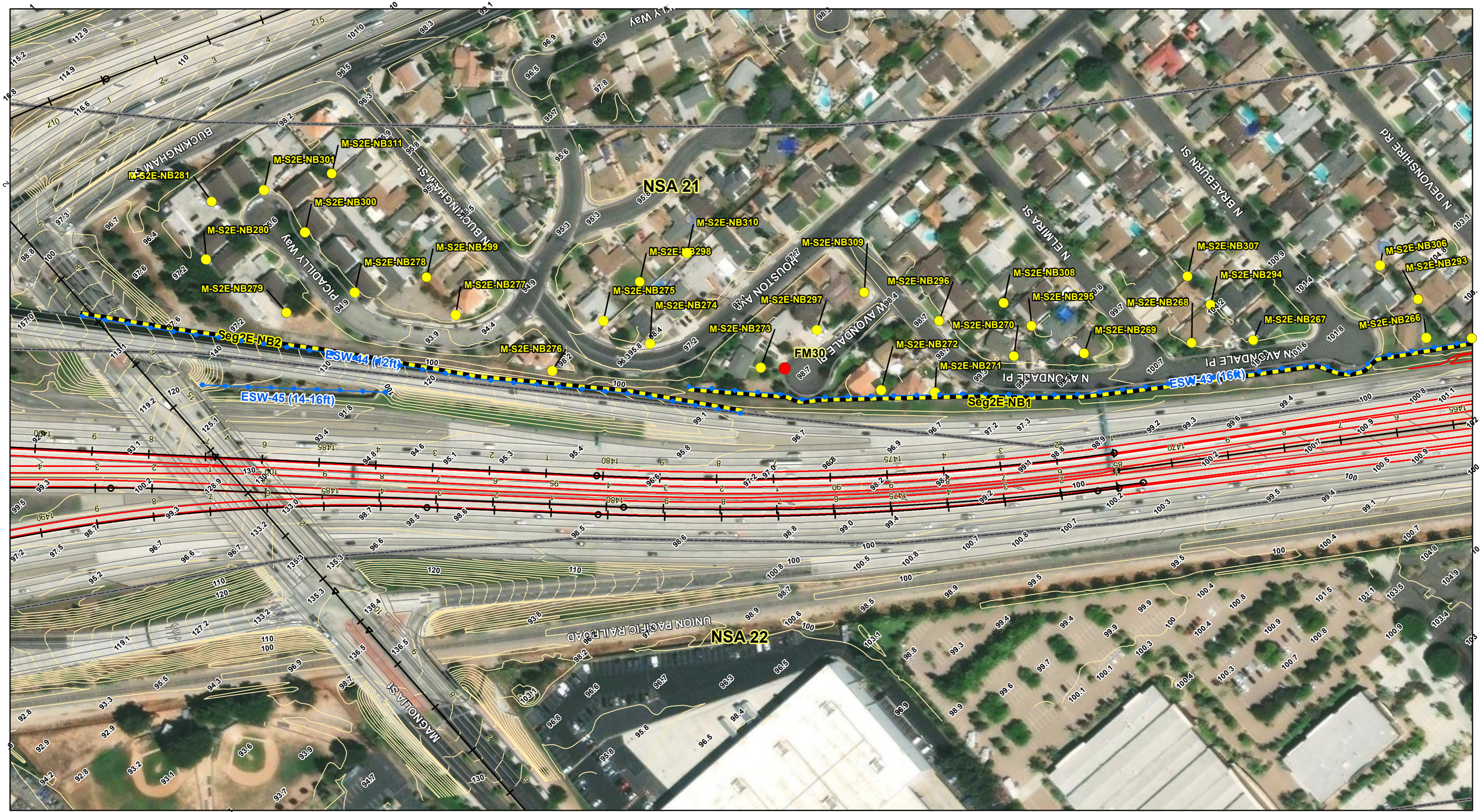


Figure J-1
Sheet 37 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



N

0 75 150

Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at the new location and at the existing height at a minimum.

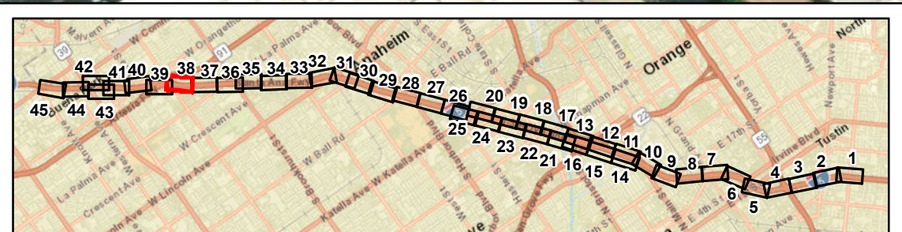
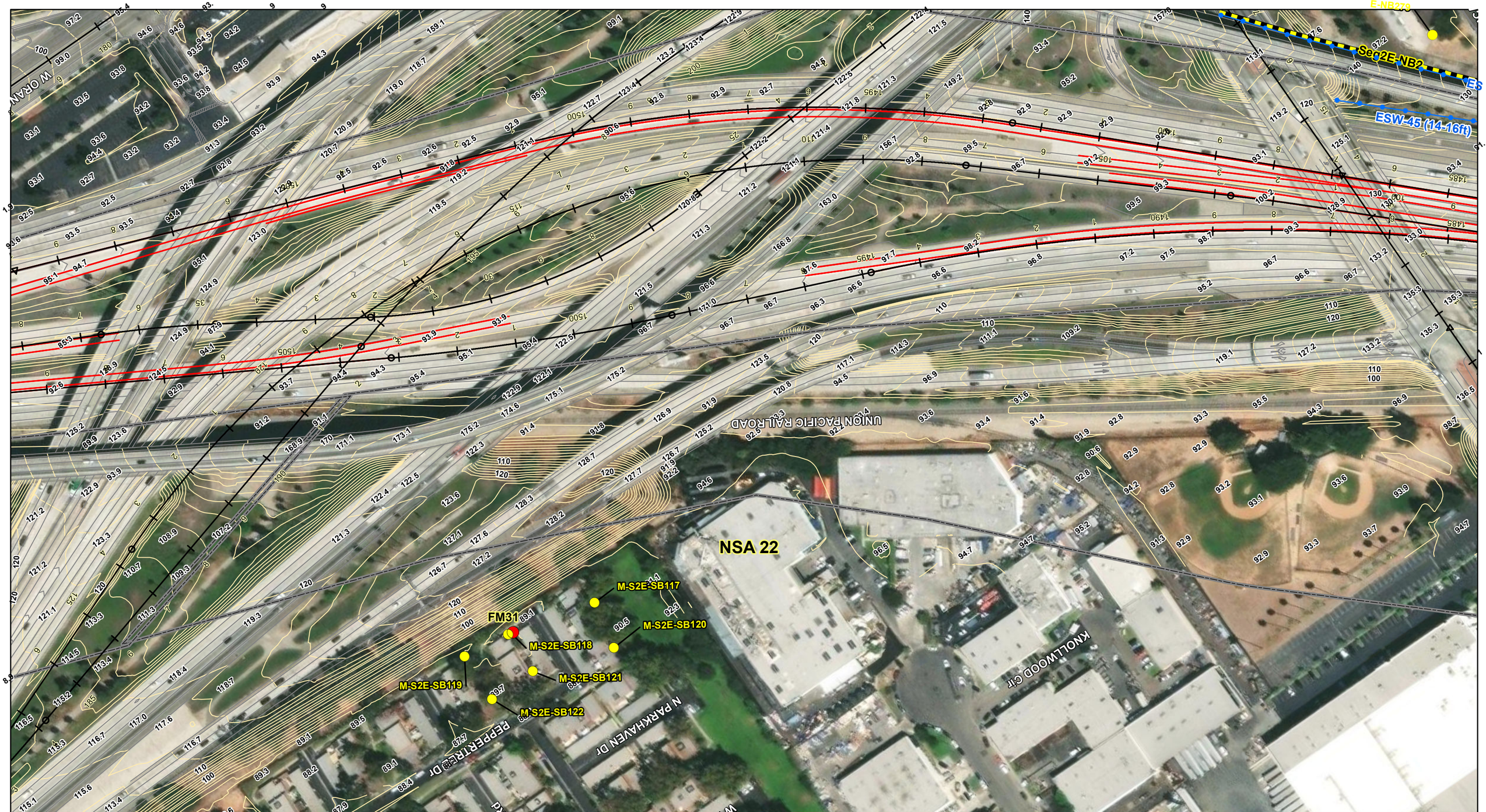


Figure J-1
Sheet 38 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



N

0 75 150

Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

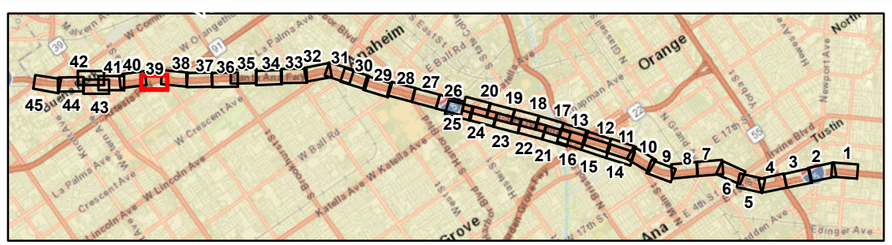
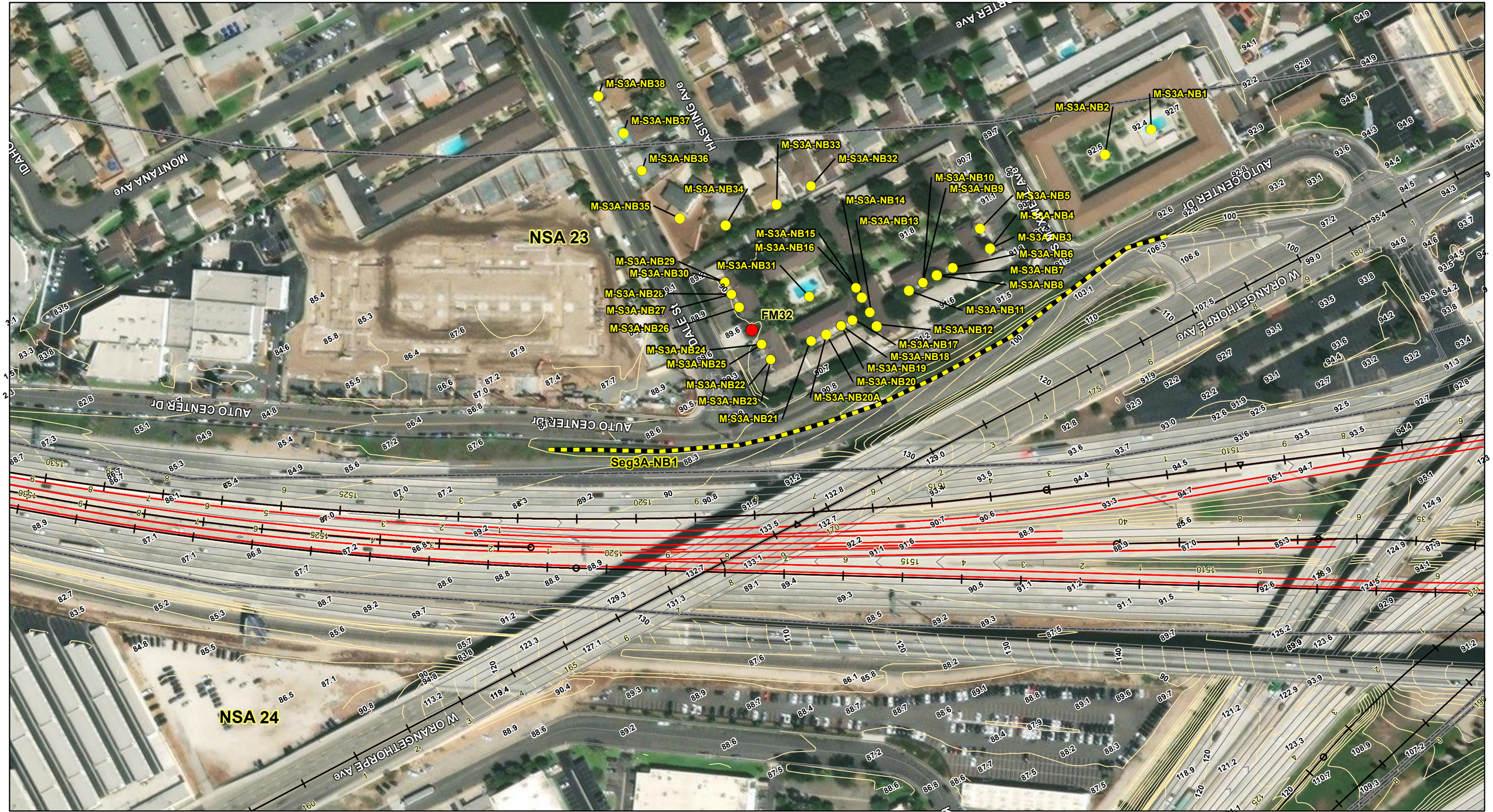


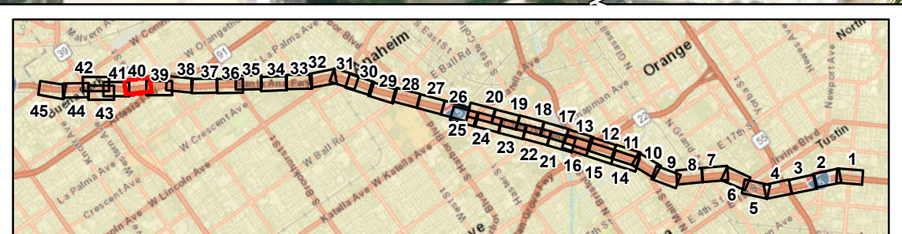
Figure J-1
Sheet 39 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006





0 75 150
Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

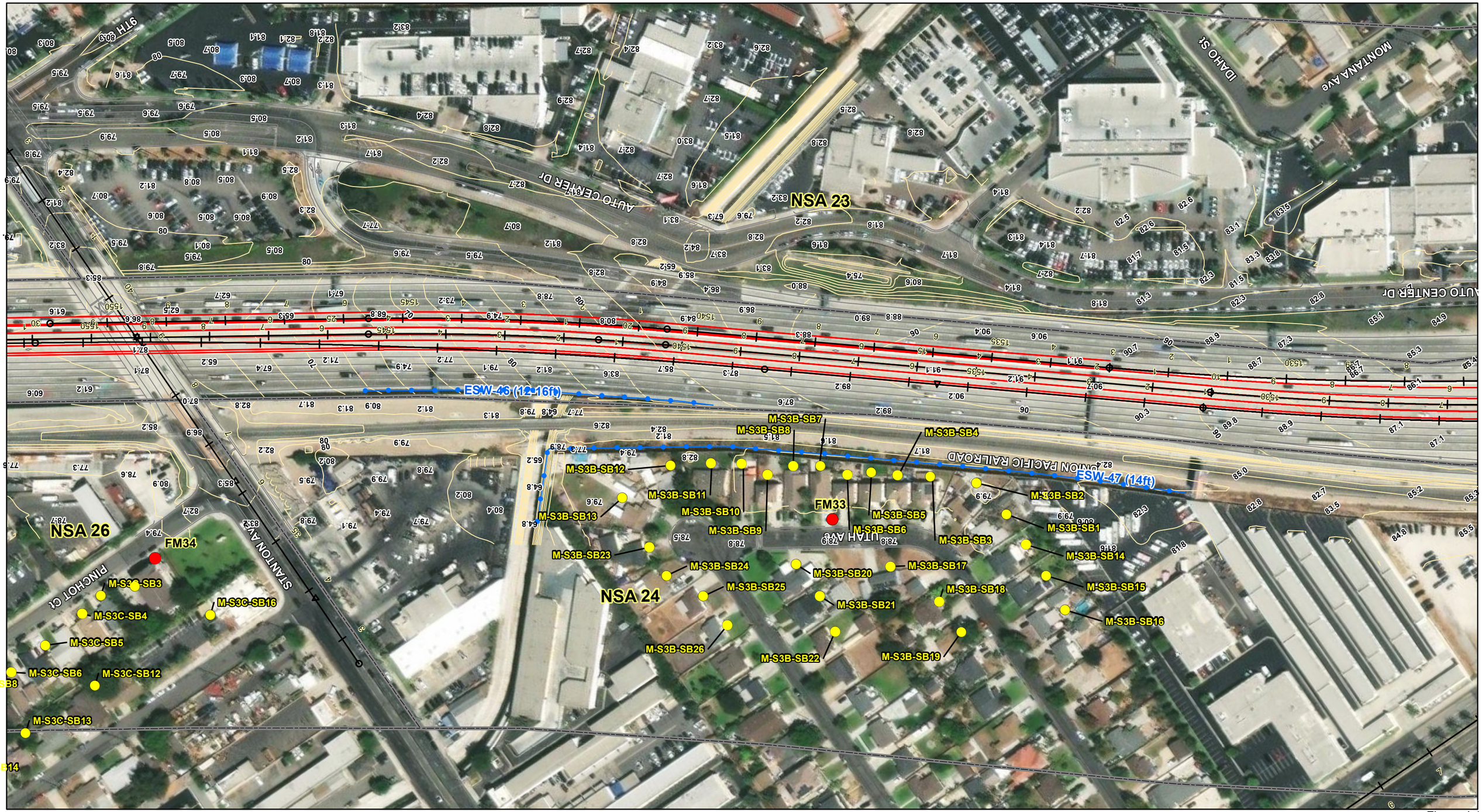
*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

Figure J-1
Sheet 40 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

0 75 150
Feet

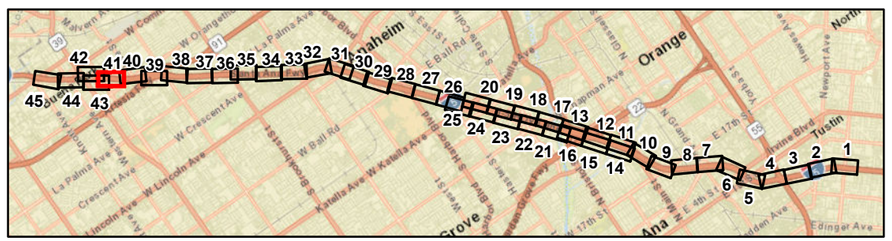
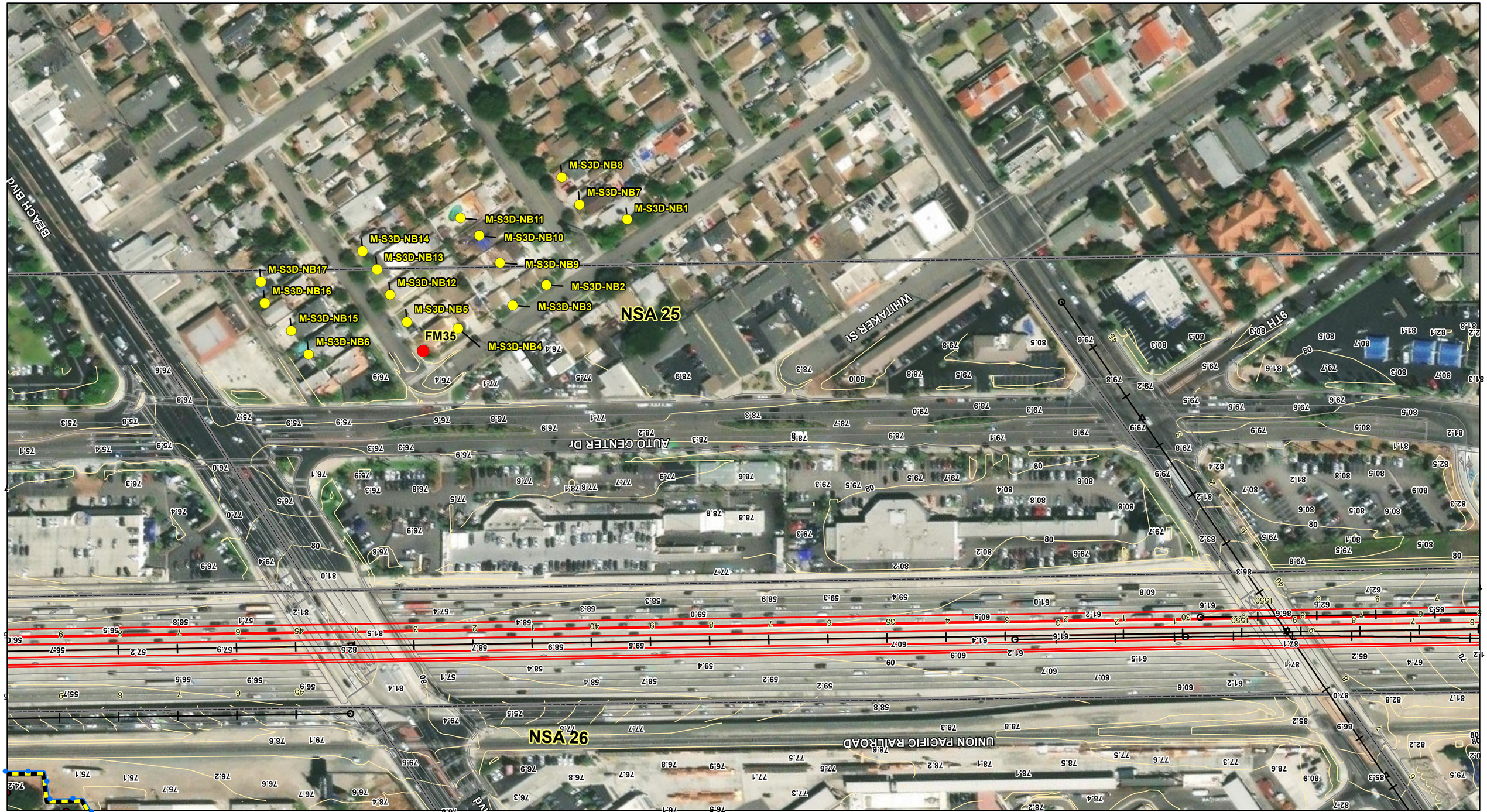


Figure J-1
Sheet 41 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

0 75 150
Feet

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

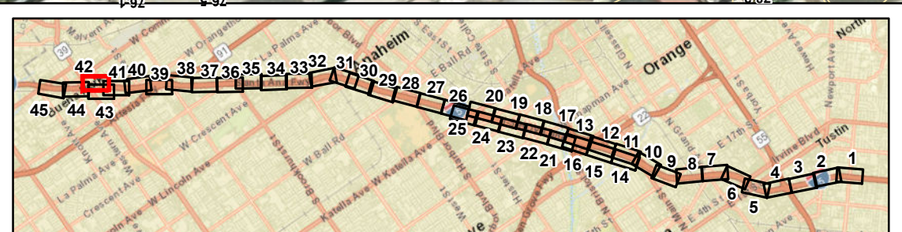
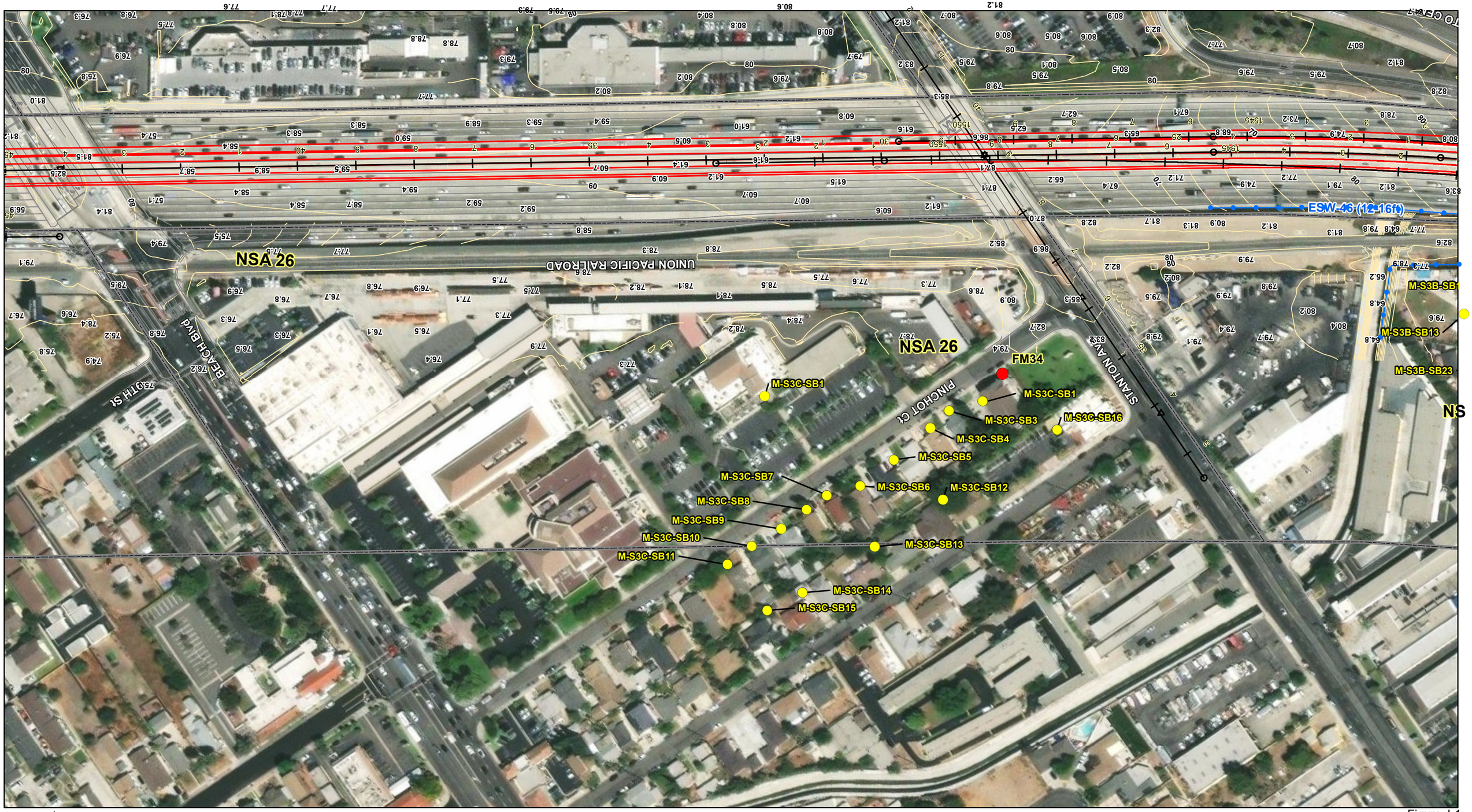


Figure J-1
Sheet 42 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



0 75 150
Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at teh new location and at the existing height at a minimum.

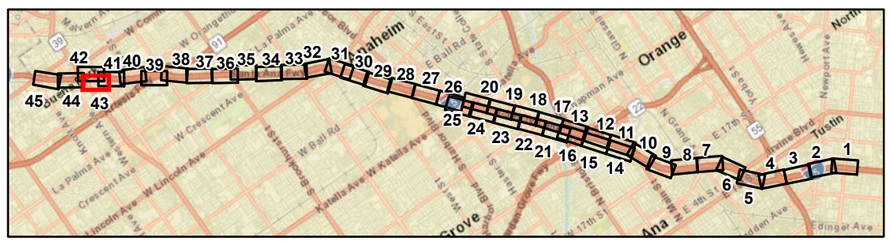
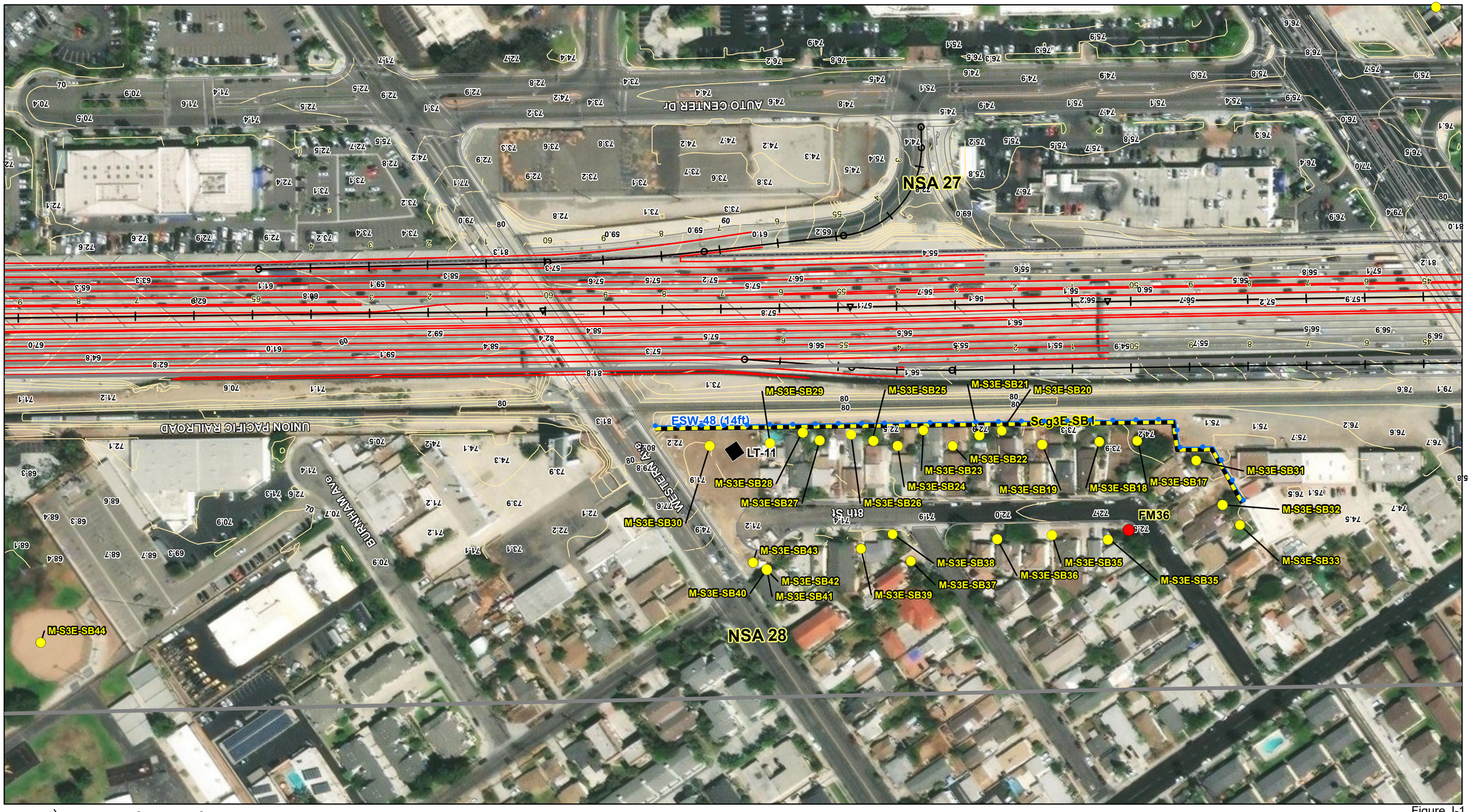


Figure J-1
Sheet 43 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



N

0 75 150

Feet

Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at the new location and at the existing height at a minimum.

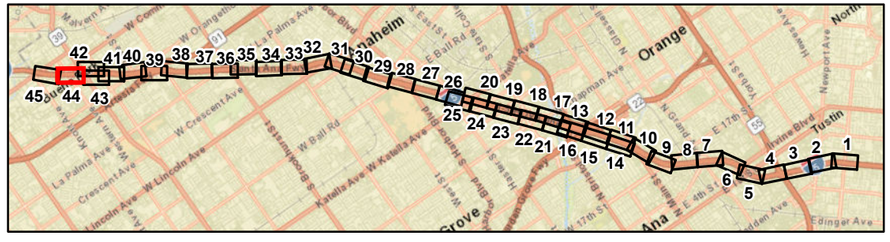
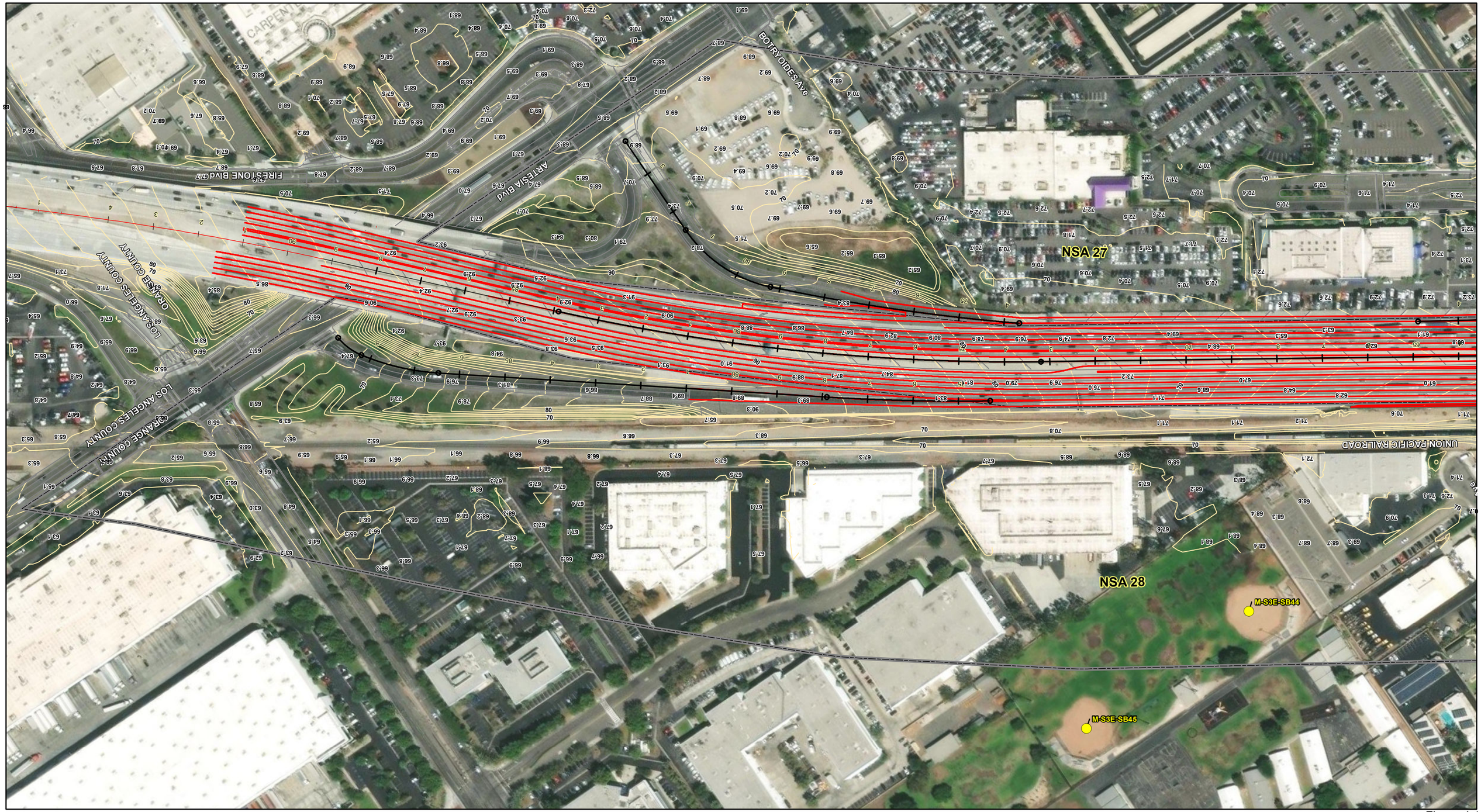


Figure J-1
Sheet 44 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006



Legend

- Modeled Receptor Locations
- Short Term Measurement Sites
- 24 Hour Measurements
- Noise Study Area (NSA)
- Existing Walls
- Existing Wall (Demolished)*
- Modeled Noise Barriers
- Alternative 3 & 4 Improvements

*Existing walls that would be demolished as part of the project would be reconstructed at the new location and at the existing height at a minimum.

0 75 150
Feet

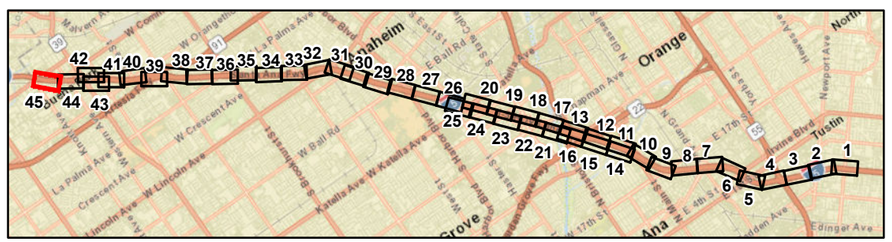


Figure J-1
Sheet 45 of 45

I-5 MANAGED LANES PROJECT
(RED HILL AVE TO ORANGE / LOS ANGELES COUNTY LINE)

Modeled Noise Barrier and Receptor Locations

EA 12-0Q950
EFIS No. 1218000006

This page intentionally left blank

Table B-1. Predicted Future Noise and Barrier Analysis (NSA 1) Seg1A-A – Alternative 3 & 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																										
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																				
														12 feet			14 feet			16 feet			18 feet			20 feet			22 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S1A-A-NB1	1	El Camino Real	–	–	Hotel Pool	1	48.4	48.4	48.1	0	-0.3	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB2	1	El Camino Real	–	–	Hotel Pool	1	69.1	69.1	69.0	0	-0.1	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB3	1	El Camino Real	ESW-1/ ESW-2	–	Apartment/ Condo	1	66.0	66.0	65.9	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB4	1	El Camino Real	ESW-1/ ESW-2	–	Apartment/ Condo	3	64.9	64.9	64.8	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB5	1	El Camino Real	ESW-2	–	Apartment/ Condo	2	64.4	64.4	64.4	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB6	1	El Camino Real	ESW-2	–	Apartment/ Condo	3	64.5	64.5	64.4	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB7	1	El Camino Real	ESW-2	–	Apartment/ Condo	2	64.7	64.7	64.7	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB8	1	El Camino Real	ESW-2	–	Apartment/ Condo	3	65.0	65.0	65.0	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB9	1	El Camino Real	ESW-2	–	Apartment/ Condo	2	64.3	64.3	64.2	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB10	1	El Camino Real	ESW-2	–	Apartment/ Condo	2	49.7	49.7	49.6	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB11	1	El Camino Real	ESW-1/ ESW-2	–	Apartment/ Condo	3	51.4	51.4	51.3	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB12	1	El Camino Real	ESW-2	–	Apartment/ Condo	2	60.4	60.4	60.2	0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB13	1	El Camino Real	ESW-2	–	Apartment/ Condo	2	58.2	58.2	58.0	0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB14	1	El Camino Real	ESW-2	–	Apartment/ Condo	2	58.8	58.8	58.8	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB15	1	El Camino Real	ESW-2	–	Apartment/ Condo	3	56.9	56.9	56.8	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB16	1	El Camino Real	ESW-1/ ESW-2	–	Apartment Pool	1	55.9	55.9	55.7	0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB17	1	El Camino Real	ESW-2	–	High School	1	64.4	64.4	64.3	0	-0.1	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB18	1	El Camino Real	ESW-2	–	High School	1	64.4	64.4	64.4	0	0.0	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB19	1	El Camino Real / Orange St	ESW-2	–	High School	1	63.2	63.2	63.3	0	0.1	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB20	1	El Camino Real	ESW-2	–	High School	1	53.9	53.9	53.8	0	-0.1	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB21	1	El Camino Real	–	–	Daycare	1	65.1	65.1	65.4	0	0.3	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-A-NB22	1	El Camino Real	–	–	Apartment Pool	1	59.6	59.6	60.1	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-2. Predicted Future Noise and Barrier Analysis (NSA 2) Seg1A-B – Alternative 3 & 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														12 feet			14 feet			16 feet			18 feet			20 feet			22 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S1A-B-SB1	2	Nisson Rd / Westchester Park Parking Lot	-	–	Apartment Playground	1	60.7	60.7	59.2	0.0	-1.5	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB2	2	Nisson Rd	-	–	Apartment Pool	1	58.0	58.0	57.9	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB3	2	Nisson Rd/Off-ramp	ESW-3	–	Apt/Condo	2	56.9	56.9	56.2	0.0	-0.7	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB4	2	Nisson Rd/Off-ramp	ESW-3	–	Apt/Condo	2	54.8	54.8	54.0	0.0	-0.8	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB5	2	Nisson Rd	ESW-3	–	Apt/Condo	2	59.9	59.9	59.8	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB6	2	Nisson Rd	ESW-3	–	Apartment Pool	1	52.9	52.9	52.4	0.0	-0.5	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB7	2	Nisson Rd /Off-ramp	ESW-3	–	Apt/Condo	2	65.6	65.6	65.0	0.0	-0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB8	2	Nisson Rd	ESW-3	–	Apt/Condo	2	60.8	60.8	60.0	0.0	-0.8	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB9	2	Nisson Rd	ESW-3	–	Apt/Condo	2	64.9	64.9	64.4	0.0	-0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB10	2	Nisson Rd	ESW-4	–	Apt/Condo - No Outdoor	4	57.1	57.1	56.5	0.0	-0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB11	2	Nisson Rd	ESW-4	–	Apartment Pool	1	60.1	60.1	59.9	0.0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB12	2	Utt Dr	ESW-4	–	Residential	1	63.1	63.1	63.0	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB13	2	Utt Dr	ESW-4	–	Residential	1	61.5	61.5	61.3	0.0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB14	2	Utt Dr	ESW-4	–	Residential	1	60.1	60.1	60.2	0.0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB15	2	Utt Dr	ESW-4	–	Residential	1	59.1	59.1	58.9	0.0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB16	2	Woodlawn Ave/Utt Dr	ESW-4	–	Residential	2	65.0	65.0	64.9	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB17	2	Woodlawn Ave/Utt Dr	ESW-4	–	Residential	2	61.2	61.2	61.3	0.0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB18	2	Woodlawn Ave/Utt Dr	ESW-4	–	Residential	2	59.6	59.6	59.4	0.0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB19	2	Woodlawn Ave/Utt Dr	ESW-4	–	Residential	2	57.8	57.8	57.6	0.0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB20	2	Charloma Dr/Woodlawn Ave	ESW-4	–	Residential	2	65.5	65.5	65.4	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB21	2	Charloma Dr/Woodlawn Ave	ESW-4	–	Residential	2	62.3	62.3	62.3	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB22	2	Charloma Dr/Woodlawn Ave	ESW-4	–	Residential	2	60.2	60.2	60.2	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB23	2	Charloma Dr/Woodlawn Ave	ESW-4	–	Residential	2	58.6	58.6	58.5	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB24	2	Carfax Ave/ Charloma Dr	ESW-4	–	Residential	2	64.3	64.3	64.0	0.0	-0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB25	2	Carfax Ave/ Charloma Dr	ESW-4	–	Residential	2	61.1	61.1	60.9	0.0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB26	2	Carfax Ave/ Charloma Dr	ESW-4	–	Residential	2	59.8	59.8	59.5	0.0	-0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																									
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														12 feet			14 feet			16 feet			18 feet			20 feet			22 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S1A-B-SB27	2	Carfax Ave/ Charloma Dr	ESW-4	–	Residential	2	58.9	58.9	58.8	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB28	2	Del Amo Ave/ Carfax Ave	ESW-4	–	Residential	2	62.5	62.5	62.2	0.0	-0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB29	2	Del Amo Ave/ Carfax Ave	ESW-4	–	Residential	2	58.9	58.9	58.8	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB30	2	Del Amo Ave/ Carfax Ave	ESW-4	–	Residential	2	57.3	57.3	57.0	0.0	-0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB31	2	Del Amo Ave/ Carfax Ave	ESW-4	–	Residential	2	56.2	56.2	56.0	0.0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB32	2	Del Amo Ave	ESW-4	–	Residential	1	62.0	62.0	61.9	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB33	2	Del Amo Ave	ESW-4	–	Residential	1	57.9	57.9	57.6	0.0	-0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB34	2	Del Amo Ave	ESW-4	–	Residential	1	57.0	57.0	56.6	0.0	-0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB35	2	Del Amo Ave	ESW-4	–	Pre-School	1	56.2	56.2	55.9	0.0	-0.3	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB36	2	Nisson Rd	ESW-4	–	Apt/Condo - No Outdoor	1	61.4	61.4	61.3	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB37	2	Nisson Rd	ESW-4	–	Apt/Condo - No Outdoor	1	63.5	63.5	63.5	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB38	2	Nisson Rd	ESW-4	–	Apt/Condo - No Outdoor	1	62.5	62.5	62.4	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB39	2	Nisson Rd	ESW-4	–	Residential	1	56.3	56.3	56.5	0.0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB40	2	Walter Ave	ESW-4	–	Residential	1	53.4	53.4	53.5	0.0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB41	2	Walter Ave	ESW-4	–	Residential	1	58.5	58.5	58.7	0.0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB42	2	Walter Ave	ESW-4	–	Residential	1	60.3	60.3	60.5	0.0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB43	2	Walter Ave	ESW-4	–	Residential	1	61.5	61.5	61.8	0.0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB44	2	Walter Ave	ESW-4	–	Residential	1	63.8	63.8	64.1	0.0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB45	2	Walter Ave	ESW-4	–	Residential	1	55.8	55.8	56.0	0.0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB46	2	Del Amo Ave/Debusk Ln	ESW-4	–	Residential	1	54.7	54.7	54.8	0.0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB47	2	Walter Ave/ Raleigh Pl	ESW-4	–	Apt/Condo - No Outdoor	3	65.2	65.2	65.4	0.0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB48	2	Raleigh Pl	ESW-4	–	Residential	1	54.4	54.4	54.5	0.0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-B-SB49	2	Raleigh Pl	ESW-4	–	Residential	1	54.2	54.2	54.4	0.0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-3. Predicted Future Noise and Barrier Analysis (NSA 3) Seg1A-C1 – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														6 feet			8 feet			10 feet			12 feet			14 feet			16 feet		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S1A-C-NB1	3	S B St/ Chelsea Way	EPW-1	Seg1A-C-NB1	Apt/Condo-2nd Floor	1	73.3	73.3	73.3	0	0.0	B (67)	A/E	71.6	1.7	0	69.8	3.5	0	68.5	4.8	0	67.6	5.7	1	67.6	5.7	1	67.0	6.3	1
M-S1A-C-NB2	3	Bellmont Ct/ Chelsea Way	EPW-1	Seg1A-C-NB1	Apt/Condo-2nd Floor	1	71.2	71.2	71.2	0	0.0	B (67)	A/E	70.1	1.1	0	69.1	2.1	0	67.9	3.3	0	66.8	4.4	0	66.8	4.4	0	66.8	4.4	0
M-S1A-C-NB3	3	Edgeton Ct/Chelsea Way	EPW-1	Seg1A-C-NB1	Apt/Condo-2nd Floor	1	70.7	70.7	70.7	0	0.0	B (67)	A/E	69.9	0.8	0	69.2	1.5	0	68.1	2.6	0	66.8	3.9	0	66.8	3.9	0	66.9	3.8	0
M-S1A-C-NB4	3	Edgeton Ct. /Chelsea Way	EPW-1	Seg1A-C-NB1	Apt/Condo-2nd Floor	1	69.9	69.9	69.9	0	0.0	B (67)	A/E	69.4	0.5	0	69	0.9	0	68.1	1.8	0	66.6	3.3	0	66.6	3.3	0	66.9	3.0	0
M-S1A-C-NB5	3	Overton Ct./ Chelsea Way	EPW-1	Seg1A-C-NB1	Apt/Condo-2nd Floor	1	69.8	69.8	69.9	0	0.1	B (67)	A/E	69.5	0.4	0	69.2	0.7	0	68.4	1.5	0	66.8	3.1	0	66.8	3.1	0	67.2	2.7	0
M-S1A-C-NB6	3	W 6th St/ Chelsea Way	EPW-1	Seg1A-C-NB1	Apt/Condo-2nd Floor	1	69.7	69.7	69.8	0	0.1	B (67)	A/E	69.5	0.3	0	69.3	0.5	0	68.7	1.1	0	67.4	2.4	0	67.4	2.4	0	67.3	2.5	0
M-S1A-C-NB7	3	Hoyt Ct/Chelsea Way	EPW-1	Seg1A-C-NB1	Apt/Condo-2nd Floor	1	69.9	69.9	70.0	0	0.1	B (67)	A/E	69.8	0.2	0	69.6	0.4	0	69.1	0.9	0	68	2.0	0	68	2.0	0	67.3	2.7	0
M-S1A-C-NB8	3	Hoyt Ct	EPW-1	Seg1A-C-NB1	Apt/Condo-2nd Floor	1	70.0	70.0	70.1	0	0.1	B (67)	A/E	69.9	0.2	0	69.6	0.5	0	69.1	1.0	0	68.3	1.8	0	68.3	1.8	0	67.1	3.0	0
M-S1A-C-NB9	3	Chelsea Way	EPW-1	Seg1A-C-NB1	Apt/Condo-2nd Floor	1	70.6	70.6	70.7	0	0.1	B (67)	A/E	70.3	0.4	0	70	0.7	0	69.4	1.3	0	68.7	2.0	0	68.7	2.0	0	67.1	3.6	0
M-S1A-C-NB10	3	Hillman Ct/ Chelsea Way	EPW-1	Seg1A-C-NB1	Apt/Condo-2nd Floor	1	71.1	71.1	71.2	0	0.1	B (67)	A/E	70.7	0.5	0	70.2	1.0	0	69.5	1.7	0	68.9	2.3	0	68.9	2.3	0	66.5	4.7	0
M-S1A-C-NB11	3	Westhaven Ct/ Chelsea Way	EPW-1	Seg1A-C-NB1	Apt/Condo-2nd Floor	1	72.0	72.0	72.0	0	0.0	B (67)	A/E	71.3	0.7	0	70.4	1.6	0	69.5	2.5	0	68.5	3.5	0	68.5	3.5	1	65.5	6.5	1
M-S1A-C-NB12	3	Westhaven Ct	EPW-1	Seg1A-C-NB1	Apt/Condo-2nd Floor	1	74.4	74.4	74.4	0	0.0	B (67)	A/E	73.5	0.9	0	72	2.4	0	70.7	3.7	0	69.3	5.1	1	69.3	5.1	1	65.4	9.0	1
M-S1A-C-NB13	3	Vintage Way	EPW-1	Seg1A-C-NB1	Apt/Condo-2nd Floor	1	62.2	62.2	62.2	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-C-NB14	3	Vintage Way/ Edgeton Ct.	EPW-1	–	Apt/Condo-2nd Floor	1	47.6	47.6	47.6	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-C-NB15	3	Vintage Way	EPW-1	–	Apt/Condo-2nd Floor	1	50.0	50.0	50.0	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-C-NB16	3	Essex Ct./ Vintage Way	EPW-1	–	Apt/Condo-2nd Floor	1	50.5	50.5	50.5	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-C-NB17	3	Essex Ct./ Chelsea Way	EPW-1	–	Apt/Condo-2nd Floor	1	53.0	53.0	52.9	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-C-NB18	3	Essex Ct.	EPW-1	–	Apt/Condo-2nd Floor	1	61.5	61.5	61.5	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-C-NB19	3	Parkland Ct	–	–	Apt/Condo-Pool	1	46.8	46.8	46.8	0	0.0	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-4. Predicted Future Noise and Barrier Analysis (NSA 3) - Seg1A-C2 – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														12 feet			14 feet			16 feet			18 feet			20 feet			22 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S1A-C-NB20	3	6th St	ESW-5	Seg1A-C-NB2A-NB2B	Place of Worship (outdoor play area)	1	67.9	67.9	67.9	0	0.0	C (67)	A/E	67.7	0.2	0	66.6	1.3	0	65.6	2.3	0	64.7	3.2	0	64.1	3.8	0	63.3	4.6	1
M-S1A-C-NB21	3	6th St/ Pacific St	-	Seg1A-C-NB2A-NB2B	SFR	1	58.4	58.4	58.4	0	0.0	B (67)	None	58.2	0.2	0	57.8	0.6	0	57.5	0.9	0	57.1	1.3	0	56.5	1.9	0	56.2	2.2	0
M-S1A-C-NB22	3	6th St/ Pacific St	-	Seg1A-C-NB2A-NB2B	SFR	1	60.3	60.3	60.3	0	0.0	B (67)	None	60.1	0.2	0	59.7	0.6	0	59.4	0.9	0	59.2	1.1	0	58.8	1.5	0	58.7	1.6	0
M-S1A-C-NB23	3	6th St	-	Seg1A-C-NB2A-NB2B	SFR	1	62.2	62.2	62.2	0	0.0	B (67)	None	62	0.2	0	61.1	1.1	0	60.5	1.7	0	60	2.2	0	59.5	2.7	0	59.1	3.1	0
M-S1A-C-NB24	3	W 6th St	ESW-5	Seg1A-C-NB2A-NB2B	SFR	1	64.1	64.1	64.1	0	0.0	B (67)	None	63.7	0.4	0	62.8	1.3	0	62.2	1.9	0	61.6	2.5	0	60.9	3.2	0	60.4	3.7	0
M-S1A-C-NB25	3	W 6th St	ESW-5	Seg1A-C-NB2A-NB2B	Apt/Condo-Pool	1	67.1	67.1	67.1	0	0.0	C (67)	A/E	66.3	0.8	0	65.3	1.8	0	64.5	2.6	0	63.6	3.5	0	62.7	4.4	0	61.9	5.2	1
M-S1A-C-NB26	3	W 6th St	ESW-6	Seg1A-C-NB2A-NB2B	Apt/Condo	2	63.0	63.0	63.0	0	0.0	B (67)	None	61.7	1.3	0	60.8	2.2	0	59.9	3.1	0	59.1	3.9	0	58.4	4.6	2	57.6	5.4	2
M-S1A-C-NB27	3	W 6th St	ESW-6	Seg1A-C-NB2A-NB2B	Apt/Condo	2	60.4	60.4	60.4	0	0.0	B (67)	None	59	1.4	0	58.1	2.3	0	57.1	3.3	0	56.3	4.1	0	55.5	4.9	0	54.7	5.7	2
M-S1A-C-NB28	3	W 6th St	ESW-6	Seg1A-C-NB2A-NB2B	Apt/Condo	2	64.9	64.9	64.9	0	0.0	B (67)	None	63.4	1.5	0	62.2	2.7	0	61.1	3.8	0	60.2	4.7	2	59.4	5.5	2	58.7	6.2	2
M-S1A-C-NB29	3	6th St	ESW-6	Seg1A-C-NB2A-NB2B	Apt/Condo	2	59.4	59.4	59.4	0	0.0	B (67)	None	57.9	1.5	0	56.7	2.7	0	55.8	3.6	0	54.8	4.6	0	54	5.4	2	53.3	6.1	2
M-S1A-C-NB30	3	6th St	ESW-6	Seg1A-C-NB2A-NB2B	Apt/Condo	2	61.7	61.7	61.7	0	0.0	B (67)	None	61.1	0.6	0	60	1.7	0	59.4	2.3	0	58.7	3.0	0	58.2	3.5	0	60.4	1.3	0
M-S1A-C-NB31	3	6th St	ESW-6	Seg1A-C-NB2A-NB2B	Apt/Condo	2	54.0	54.0	54.0	0	0.0	B (67)	None	53.8	0.2	0	53	1.0	0	52.1	1.9	0	51.3	2.7	0	50.6	3.4	0	49.6	4.4	0
M-S1A-C-NB32	3	6th St	ESW-6	Seg1A-C-NB2A-NB2B	Apt/Condo	2	54.3	54.3	54.3	0	0.0	B (67)	None	54.2	0.1	0	53.5	0.8	0	52.7	1.6	0	51.9	2.4	0	51.2	3.1	0	50.4	3.9	0
M-S1A-C-NB33	3	6th St	ESW-6	Seg1A-C-NB2A-NB2B	Apt/Condo	2	56.9	56.9	56.9	0	0.0	B (67)	None	56.5	0.4	0	55.7	1.2	0	55.3	1.6	0	54.7	2.2	0	53.9	3.0	0	53.2	3.7	0
M-S1A-C-NB34	3	6th St	ESW-6	Seg1A-C-NB2A-NB2B	Apt/Condo	2	52.8	52.8	52.8	0	0.0	B (67)	None	52.7	0.1	0	52.3	0.5	0	51.7	1.1	0	51.1	1.7	0	50.4	2.4	0	49.7	3.1	0
M-S1A-C-NB35	3	6th St	ESW-6	Seg1A-C-NB2A-NB2B	Apt/Condo	2	55.2	55.2	55.2	0	0.0	B (67)	None	55.2	0.0	0	55.1	0.1	0	54.6	0.6	0	54.2	1.0	0	53.8	1.4	0	53.5	1.7	0
M-S1A-C-NB36	3	6th St	ESW-6	Seg1A-C-NB2A-NB2B	Apt/Condo	2	58.3	58.3	58.3	0	0.0	B (67)	None	58.2	0.1	0	57.8	0.5	0	57.4	0.9	0	57	1.3	0	56.9	1.4	0	56.6	1.7	0
M-S1A-C-NB37	3	6th St	ESW-5	Seg1A-C-NB2A-NB2B	Apt/Condo	2	56.5	56.5	56.5	0	0.0	B (67)	None	56.3	0.2	0	56.1	0.4	0	55.3	1.2	0	54.7	1.8	0	54.2	2.3	0	53.7	2.8	0
M-S1A-C-NB38	3	6th St	ESW-5	Seg1A-C-NB2A-NB2B	Apt/Condo	2	54.6	54.6	54.6	0	0.0	B (67)	None	54.3	0.3	0	54.1	0.5	0	53.5	1.1	0	53	1.6	0	52.5	2.1	0	52.2	2.4	0
M-S1A-C-NB39	3	Pacific St	ESW-5	Seg1A-C-NB2A-NB2B	SFR	1	62.9	62.9	62.9	0	0.0	B (67)	None	62.6	0.3	0	61.6	1.3	0	61	1.9	0	60.5	2.4	0	59.7	3.2	0	59	3.9	0
M-S1A-C-NB40	3	Pacific St	ESW-5	Seg1A-C-NB2A-NB2B	SFR	1	61.1	61.1	61.1	0	0.0	B (67)	None	61	0.1	0	60	1.1	0	59.5	1.6	0	59	2.1	0	58.3	2.8	0	57.6	3.5	0
M-S1A-C-NB41	3	Pacific St	ESW-5	Seg1A-C-NB2A-NB2B	SFR	1	60.2	60.2	60.2	0	0.0	B (67)	None	60.1	0.1	0	59.2	1.0	0	58.7	1.5	0	58.1	2.1	0	57.7	2.5	0	57.1	3.1	0

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-5. Predicted Future Noise and Barrier Analysis (NSA 4) - Seg1A-D – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																									
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																			
														12 feet			14 feet			16 feet			18 feet			20 feet			22 feet		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S1A-D-SB1	4	S C St	–	–	SFR	1	54.4	54.4	54.7	0.0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB2	4	S C St	–	–	SFR	1	52.8	52.8	52.8	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB3	4	S C St	–	–	SFR	1	54.1	54.1	54.2	0.0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB4	4	S C St	–	–	SFR	1	53.9	53.9	53.9	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB5	4	S C St	–	–	SFR	1	56.6	56.6	56.6	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB6	4	S C St	–	–	SFR	1	55.9	55.9	55.9	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB7	4	S C St	–	–	SFR	1	55.8	55.8	55.8	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB8	4	S C St	–	–	SFR	1	55.7	55.7	55.6	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB9	4	S B St	–	–	SFR	1	58.1	58.1	58.0	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB10	4	S B St	–	–	SFR	1	58.9	58.9	58.9	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB11	4	S B St	–	–	SFR	1	51.3	51.3	51.2	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB12	4	Via Entrada	EPW-2 /ESW-7	–	Mobile Home	2	61.3	61.3	61.3	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB13	4	Via Entrada	EPW-2 /ESW-7	–	Mobile Home	2	62.6	62.6	62.6	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB14	4	Via Entrada	EPW-2 /ESW-7	–	Mobile Home	2	63.0	63.0	63.0	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB15	4	Via Entrada	EPW-2 /ESW-7	–	Mobile Home	2	63.3	63.3	63.2	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB16	4	Via Entrada	EPW-2 /ESW-7	–	Mobile Home	2	63.3	63.3	63.3	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB17	4	Via Entrada	EPW-2 /ESW-7	–	Mobile Home	2	63.7	63.7	63.6	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB18	4	Via Entrada	EPW-2 /ESW-7	–	Mobile Home	2	64.1	64.1	64.1	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB19	4	Via Entrada	EPW-2 /ESW-7	–	Mobile Home	2	63.9	63.9	63.9	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB20	4	S B St/Via Del Sud	EPW-2 /ESW-7	–	Mobile Home	1	56.9	56.9	56.9	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB21	4	B St/Via Media	EPW-2 /ESW-7	–	Mobile Home Pool	1	56.9	56.9	56.8	0.0	-0.1	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB22	4	Via Entrada	EPW-2 /ESW-7	–	Mobile Home	2	55.5	55.5	55.4	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB23	4	Via Entrada	EPW-2 /ESW-7	–	Mobile Home	2	55.9	55.9	55.9	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB24	4	Via Entrada	EPW-2 /ESW-7	–	Mobile Home	2	55.9	55.9	55.8	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB25	4	Via Entrada	EPW-2 /ESW-7	–	Mobile Home	2	56.6	56.6	56.6	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB26	4	Via Entrada	EPW-2 /ESW-7	–	Mobile Home	2	56.8	56.8	56.8	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB27	4	Via Media	EPW-2 /ESW-7	–	Mobile Home	2	53.6	53.6	53.5	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB28	4	Via Media	EPW-2 /ESW-7	–	Mobile Home	2	52.4	52.4	52.4	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB29	4	Via Media	EPW-2 /ESW-7	–	Mobile Home	2	53.1	53.1	53.1	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB30	4	Via Media	EPW-2 /ESW-7	–	Mobile Home	2	52.6	52.6	52.5	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB31	4	Via Media	EPW-2 /ESW-7	–	Mobile Home	1	55.8	55.8	55.8	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB32	4	Nisson Rd/Ebel Rd	ESW-7	–	Apartment/ Condo	2	61.3	61.3	61.3	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB33	4	Nisson Rd/Ebel Rd	ESW-7	–	Apartment/ Condo	2	57.4	57.4	57.3	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB34	4	Nisson Rd/Ebel Rd	ESW-7	–	Apartment/ Condo	2	58.3	58.3	58.3	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB35	4	Nisson Rd	ESW-7	–	Apartment/Condo	2	54.9	54.9	54.8	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB36	4	Nisson Rd	ESW-7	–	Apartment/ Condo Pool	1	52.9	52.9	52.9	0.0	0.0	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB37	4	Nisson Rd	ESW-7	–	Apartment/ Condo	2	52.7	52.7	52.6	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB38	4	Nisson Rd	ESW-7	–	Apartment/ Condo	2	53.0	53.0	53.0	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB39	4	Nisson Rd	ESW-7	–	Apartment/ Condo	2	53.2	53.2	53.1	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																											
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																			
														12 feet			14 feet			16 feet			18 feet			20 feet			22 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S1A-D-SB40	4	Nisson Rd	ESW-7	–	Apartment/ Condo	2	52.6	52.6	52.6	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB41	4	Nisson Rd	ESW-7	–	Apartment/ Condo	2	51.0	51.0	50.9	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB42	4	Nisson Rd	ESW-7	–	Apartment/ Condo	2	52.0	52.0	51.9	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB43	4	Nisson Rd	ESW-7	–	Apartment/ Condo	2	51.7	51.7	51.6	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB44	4	Nisson Rd	ESW-7	–	Apartment/ Condo	2	56.3	56.3	56.3	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB45	4	Nisson Rd	ESW-7 /ESW-8	–	Apartment/ Condo Pool	1	55.9	55.9	55.8	0.0	-0.1	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB46	4	Nisson Rd	ESW-7 /ESW-8	–	Apartment/ Condo	1	52.1	52.1	52.1	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB47	4	Nisson Rd	ESW-7 /ESW-8	–	Apartment/ Condo	1	52.7	52.7	52.7	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB48	4	Nisson Rd	ESW-7 /ESW-8	–	Apartment/ Condo	2	50.8	50.8	50.8	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB49	4	Nisson Rd	ESW-7 /ESW-8	–	Apartment/ Condo	2	51.1	51.1	51.1	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB50	4	Nisson Rd	ESW-7 /ESW-8	–	Apartment/ Condo	2	56.4	56.4	56.3	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB51	4	Nisson Rd	ESW-7 /ESW-8	–	Apartment/ Condo	2	50.1	50.1	50.1	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB52	4	Nisson Rd	ESW-7 /ESW-8	–	Apartment/ Condo	2	50.6	50.6	50.6	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB53	4	Nisson Rd	ESW-7 /ESW-8	–	Apartment/ Condo	2	50.7	50.7	50.7	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB54	4	Nisson Rd	EPW-4	–	Apartment/ Condo Pool	1	57.6	57.6	57.6	0.0	0.0	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB55	4	Nisson Rd	EPW-4	–	Apartment/ Condo	4	58.5	58.5	58.5	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB56	4	Nisson Rd	EPW-4	–	Apartment/ Condo	4	56.2	56.2	56.2	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1A-D-SB57	4	Nisson Rd	EPW-4	–	Apartment/ Condo	4	53.7	53.7	53.7	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-6. Predicted Future Noise and Barrier Analysis (NSA 5) - Seg1B-NB1 – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														12 feet			14 feet			16 feet			18 feet			20 feet			22 feet		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S1B-NB1	5	Stoneglass	–	Seg1B-NB1	Apt/Condo	1	72.1	72.1	72.0	0.0	-0.1	B (67)	A/E	71.9	0.1	0	71.9	0.1	0	71.9	0.1	0	71.9	0.1	0	71.9	0.1	0	71.9	0.1	0
M-S1B-NB2	5	Stoneglass	–	Seg1B-NB1	Apt/Condo	1	52.9	52.9	52.8	0.0	-0.1	B (67)	None	52.6	0.2	0	52.6	0.2	0	52.5	0.3	0	52.5	0.3	0	52.5	0.3	0	52.5	0.3	0
M-S1B-NB3	5	Stoneglass	–	Seg1B-NB1	Apt/Condo	1	55.0	55.0	55.3	0.0	0.3	B (67)	None	55.2	0.1	0	55.1	0.2	0	55.1	0.2	0	55.1	0.2	0	55.1	0.2	0	55.1	0.2	0
M-S1B-NB4	5	Stoneglass	ESW-9	Seg1B-NB1	Apt/Condo	1	68.5	68.5	68.5	0.0	0.0	B (67)	A/E	68.5	0.0	0	68.4	0.1	0	68.4	0.1	0	68.3	0.2	0	68.2	0.3	0	68.1	0.4	0
M-S1B-NB5	5	Stoneglass	ESW-9	Seg1B-NB1	Apt/Condo	1	68.4	68.4	68.4	0.0	0.0	B (67)	A/E	68.4	0.0	0	68.3	0.1	0	68.2	0.2	0	68.0	0.4	0	67.9	0.5	0	67.8	0.6	0
M-S1B-NB6	5	Stoneglass	ESW-9	Seg1B-NB1	Apt/Condo Pool	1	68.1	68.1	68.1	0.0	0.0	B (67)	A/E	68.0	0.1	0	67.8	0.3	0	67.5	0.6	0	67.3	0.8	0	67.0	1.1	0	66.7	1.4	0
M-S1B-NB7	5	Stoneglass	ESW-9	Seg1B-NB1	School	1	68.3	68.3	68.3	0.0	0.0	C (67)	A/E	67.6	0.7	0	66.8	1.5	0	66.0	2.3	0	65.4	2.9	0	65.0	3.3	0	64.8	3.5	0
M-S1B-NB8	5	Stoneglass	ESW-9	Seg1B-NB1	Apt/Condo	1	55.1	55.1	55.1	0.0	0.0	B (67)	None	54.9	0.2	0	54.7	0.4	0	54.6	0.5	0	54.6	0.5	0	54.5	0.6	0	54.4	0.7	0
M-S1B-NB9	5	Stoneglass	ESW-9	Seg1B-NB1	Apt/Condo	1	56.9	56.9	57.0	0.0	0.1	B (67)	None	57.0	0.0	0	57.0	0.0	0	57.0	0.0	0	57.0	0.0	0	56.9	0.1	0	56.9	0.1	0
M-S1B-NB10	5	Stoneglass	ESW-9	Seg1B-NB1	Apt/Condo	1	65.0	65.0	64.9	0.0	-0.1	B (67)	None	64.9	0.0	0	64.9	0.0	0	64.9	0.0	0	64.9	0.0	0	64.8	0.1	0	64.8	0.1	0
M-S1B-NB11	5	Stoneglass	ESW-9	Seg1B-NB1	Apt/Condo	1	65.4	65.4	65.3	0.0	-0.1	B (67)	None	65.4	-0.1	0	65.4	-0.1	0	65.4	-0.1	0	65.3	0.0	0	65.3	0.0	0	65.3	0.0	0
M-S1B-NB12	5	Stoneglass	ESW-9	Seg1B-NB1	Apt/Condo	2	60.9	60.9	60.9	0.0	0.0	B (67)	None	60.9	0.0	0	60.6	0.3	0	60.4	0.5	0	60.3	0.6	0	59.9	1.0	0	59.4	1.5	0
M-S1B-NB13	5	Stoneglass	ESW-9	Seg1B-NB1	School Pool	1	52.0	52.0	52.0	0.0	0.0	C (67)	None	51.9	0.1	0	51.9	0.1	0	51.8	0.2	0	51.7	0.3	0	51.7	0.3	0	51.7	0.3	0
M-S1B-NB14	5	Main St	ESW-9	Seg1B-NB1	School Outdoor Area	1	67.9	67.9	67.9	0.0	0.0	C (67)	A/E	67.1	0.8	0	66.3	1.6	0	65.7	2.2	0	65.1	2.8	0	64.6	3.3	0	64.2	3.7	0
M-S1B-NB16	5	Main St	ESW-9	Seg1B-NB1	School Outdoor Area	1	68.0	68.0	68.0	0.0	0.0	C (67)	A/E	67.2	0.8	0	66.6	1.4	0	66.1	1.9	0	65.4	2.6	0	65.0	3.0	0	64.6	3.4	0
M-S1B-NB17	5	Main St	ESW-9	Seg1B-NB1	School Outdoor Area	1	68.3	68.3	68.3	0.0	0.0	C (67)	A/E	67.8	0.5	0	67.1	1.2	0	66.5	1.8	0	66.1	2.2	0	65.5	2.8	0	65.0	3.3	0
M-S1B-NB20	5	Main St	ESW-9	Seg1B-NB1	School Outdoor Area	1	69.0	69.0	69.0	0.0	0.0	C (67)	A/E	69.1	-0.1	0	68.9	0.1	0	68.6	0.4	0	68.3	0.7	0	67.9	1.1	0	66.9	2.1	0
M-S1B-NB19	5	Main St	ESW-9	Seg1B-NB1	School Outdoor Area	1	69.6	69.6	69.6	0.0	0.0	C (67)	A/E	69.4	0.2	0	68.8	0.8	0	67.7	1.9	0	66.8	2.8	0	66.3	3.3	0	65.9	3.7	0
M-S1B-NB18	5	Main St	ESW-9	Seg1B-NB1	School Outdoor Area	1	69.1	69.1	69.1	0.0	0.0	C (67)	A/E	68.9	0.2	0	68.5	0.6	0	67.9	1.2	0	66.8	2.3	0	65.7	3.4	0	65.2	3.9	0
M-S1B-NB15	5	Main St	ESW-9	Seg1B-NB1	School Outdoor Area	1	68.8	68.8	68.8	0.0	0.0	C (67)	A/E	68.5	0.3	0	68.2	0.6	0	67.8	1.0	0	67.1	1.7	0	65.8	3.0	0	65.1	3.7	0

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-7. Predicted Future Noise and Barrier Analysis (NSA 5) - Seg1B-NB2 – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																									
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														6 feet			8 feet			10 feet			12 feet			14 feet			16 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S1B-NB21	5	Main St	–	Seg1B-NB2	School Sport Field	1	72.3	72.3	72.3	0.0	0.0	C (67)	A/E	70.5	1.8	0	69.5	2.8	0	69.1	3.2	0	68.4	3.9	0	67.9	4.4	0	67.5	4.8	0
M-S1B-NB22	5	Main St	–	Seg1B-NB2	School Sport Field	1	77.0	77.0	77.0	0.0	0.0	C (67)	A/E	74.9	2.1	0	73.0	4.0	0	72.0	5.0	1	70.8	6.2	1	70.0	7	0	69.5	7.5	1
M-S1B-NB23	5	Main St	–	Seg1B-NB2	School Sport Field	1	70.8	70.8	70.8	0.0	0.0	C (67)	A/E	69.3	1.5	0	68.1	2.7	0	67.5	3.3	0	67.1	3.7	0	66.3	4.5	0	65.9	4.9	1
M-S1B-NB24	5	Main St	–	Seg1B-NB2	School Sport Field	1	74.9	74.9	74.9	0.0	0.0	C (67)	A/E	73.2	1.7	0	71.9	3.0	0	70.7	4.2	0	70.0	4.9	1	69.0	5.9	0	68.2	6.7	1
M-S1B-NB25	5	Main St	–	–	Commercial Empty Lot	1	81.4	81.4	81.4	0.0	0.0	G	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-8. Predicted Future Noise and Barrier Analysis (NSA 5) - Seg1B-NB3-4 – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														12 feet			14 feet			16 feet			18 feet			20 feet			22 feet		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S1B-NB26	5	Mabury St	ESW-10	Seg1B-NB3-4	SFR	1	67.4	67.4	67.2	0	-0.2	B (67)	A/E	67.2	0.0	0	66.4	0.8	0	65.8	1.4	0	65.3	1.9	0	64.7	2.5	0	64.2	3.0	0
M-S1B-NB27	5	Mabury St	ESW-10	Seg1B-NB3-4	SFR	1	66.6	66.6	66.4	0	-0.2	B (67)	A/E	66.4	0.0	0	65.6	0.8	0	64.9	1.5	0	64.2	2.2	0	63.6	2.8	0	63.1	3.3	0
M-S1B-NB28	5	Mabury St	ESW-10	Seg1B-NB3-4	SFR	1	66.1	66.1	65.9	0	-0.2	B (67)	None	65.9	0.0	0	65.2	0.7	0	64.5	1.4	0	63.9	2.0	0	63.3	2.6	0	62.7	3.2	0
M-S1B-NB29	5	Mabury St/Fruit St	ESW-10	Seg1B-NB3-4	SFR	1	65.9	65.9	65.8	0	-0.1	B (67)	None	65.8	0.0	0	65.1	0.7	0	64.4	1.4	0	63.8	2.0	0	63.2	2.6	0	62.6	3.2	0
M-S1B-NB30	5	Mabury St/Fruit St	ESW-10	Seg1B-NB3-4	SFR	1	64.8	64.8	64.8	0	0	B (67)	None	64.7	0.1	0	64.0	0.8	0	63.4	1.4	0	62.8	2.0	0	62.2	2.6	0	61.7	3.1	0
M-S1B-NB31	5	Mabury St/Fruit St	ESW-10	Seg1B-NB3-4	SFR	1	65.8	65.8	65.7	0	-0.1	B (67)	None	65.7	0.0	0	65.0	0.7	0	64.4	1.3	0	63.7	2.0	0	63.2	2.5	0	62.6	3.1	0
M-S1B-NB32	5	Mabury St/Fruit St	ESW-10	Seg1B-NB3-4	SFR	1	65.5	65.5	65.5	0	0	B (67)	None	65.4	0.1	0	64.8	0.7	0	64.2	1.3	0	63.6	1.9	0	63.0	2.5	0	62.5	3.0	0
M-S1B-NB33	5	Mabury St/Fruit St	ESW-10	Seg1B-NB3-4	SFR	1	65.9	65.9	65.9	0	0	B (67)	None	65.5	0.4	0	64.8	1.1	0	64.1	1.8	0	63.5	2.4	0	63.0	2.9	0	62.4	3.5	0
M-S1B-NB34	5	Mabury St/Fruit St	ESW-10	Seg1B-NB3-4	SFR	1	66.3	66.3	66.3	0	0	B (67)	A/E	65.7	0.6	0	65.0	1.3	0	64.4	1.9	0	63.8	2.5	0	63.3	3.0	0	62.7	3.6	0
M-S1B-NB35	5	Fruit St/Wright St	ESW-10	Seg1B-NB3-4	SFR	1	63.5	63.5	63.6	0	0.1	B (67)	None	62.7	0.9	0	61.9	1.7	0	61.3	2.3	0	60.8	2.8	0	60.3	3.3	0	59.9	3.7	0
M-S1B-NB36	5	Wright St/ Strafford St	ESW-10	Seg1B-NB3-4	SFR	1	66.2	66.2	66.2	0	0	B (67)	A/E	65.5	0.7	0	64.9	1.3	0	64.2	2.0	0	63.7	2.5	0	63.1	3.1	0	62.7	3.5	0
M-S1B-NB37	5	Strafford St	ESW-10	Seg1B-NB3-4	SFR	1	65.3	65.3	65.3	0	0	B (67)	None	64.4	0.9	0	63.7	1.6	0	63.1	2.2	0	62.5	2.8	0	62.0	3.3	0	61.6	3.7	0
M-S1B-NB38	5	Strafford St	ESW-10	Seg1B-NB3-4	SFR	1	66.1	66.1	66.1	0	0	B (67)	A/E	65.3	0.8	0	64.6	1.5	0	64.0	2.1	0	63.4	2.7	0	62.8	3.3	0	62.4	3.7	0
M-S1B-NB39	5	Strafford St	ESW-10	Seg1B-NB3-4	SFR	1	65.8	65.8	65.8	0	0	B (67)	None	64.9	0.9	0	64.2	1.6	0	63.6	2.2	0	63.1	2.7	0	62.5	3.3	0	62.0	3.8	0
M-S1B-NB40	5	Strafford St	ESW-10	Seg1B-NB3-4	SFR	1	66.1	66.1	66.1	0	0	B (67)	A/E	65.2	0.9	0	64.5	1.6	0	63.9	2.2	0	63.4	2.7	0	62.8	3.3	0	62.3	3.8	0
M-S1B-NB41	5	Strafford St	ESW-10	Seg1B-NB3-4	SFR	1	66.1	66.1	66.1	0	0	B (67)	A/E	65.3	0.8	0	64.5	1.6	0	64.0	2.1	0	63.4	2.7	0	62.8	3.3	0	62.4	3.7	0
M-S1B-NB42	5	Strafford St/Eastside Ave	ESW-10	Seg1B-NB3-4	SFR	1	65.9	65.9	65.9	0	0	B (67)	None	65.0	0.9	0	64.3	1.6	0	63.7	2.2	0	63.2	2.7	0	62.6	3.3	0	62.1	3.8	0
M-S1B-NB43	5	Strafford St/Eastside Ave	ESW-10	Seg1B-NB3-4	SFR	1	65.7	65.7	65.7	0	0	B (67)	None	64.9	0.8	0	64.2	1.5	0	63.7	2.0	0	63.1	2.6	0	62.5	3.2	0	62.1	3.6	0
M-S1B-NB44	5	Strafford St/Eastside Ave	ESW-10	Seg1B-NB3-4	SFR	1	65.1	65.1	65.1	0	0	B (67)	None	64.4	0.7	0	63.8	1.3	0	63.2	1.9	0	62.7	2.4	0	62.2	2.9	0	61.8	3.3	0
M-S1B-NB45	5	Grace St	ESW-10	Seg1B-NB3-4	SFR	1	64.3	64.3	64.3	0	0	B (67)	None	63.7	0.6	0	63.2	1.1	0	62.8	1.5	0	62.3	2.0	0	61.8	2.5	0	61.4	2.9	0
M-S1B-NB47	5	Grace St	ESW-10	Seg1B-NB3-4	Apt/Condo	1	60.4	60.4	60.4	0	0	B (67)	None	59.9	0.5	0	59.4	1.0	0	59.0	1.4	0	58.7	1.7	0	58.3	2.1	0	57.9	2.5	0
M-S1B-NB48	5	Grace St	ESW-10	Seg1B-NB3-4	Apt/Condo	1	64.9	64.9	64.9	0	0	B (67)	None	64.0	0.9	0	63.3	1.6	0	62.7	2.2	0	61.8	3.1	0	61.2	3.7	0	60.9	4.0	0
M-S1B-NB49	5	Grace St	ESW-10	Seg1B-NB3-4	2nd Floor Apt	1	64.4	64.4	64.5	0	0.1	B (67)	None	63.6	0.9	0	62.9	1.6	0	62.4	2.1	0	61.8	2.7	0	61.3	3.2	0	60.7	3.8	0
M-S1B-NB50	5	Grace St	ESW-10	Seg1B-NB3-4	2nd Floor Apt	1	64.4	64.4	64.4	0	0	B (67)	None	63.5	0.9	0	62.8	1.6	0	62.3	2.1	0	61.7	2.7	0	61.2	3.2	0	60.7	3.7	0
M-S1B-NB51	5	Grace St	ESW-10	Seg1B-NB3-4	2nd Floor Apt	1	64.4	64.4	64.4	0	0	B (67)	None	63.6	0.8	0	62.9	1.5	0	62.5	1.9	0	62.0	2.4	0	61.6	2.8	0	61.0	3.4	0
M-S1B-NB68	5	Washington Pl	ESW-10	Seg1B-NB3-4	2nd Floor Apt	1	58.3	58.3	58.3	0	0	B (67)	None	57.8	0.5	0	57.3	1.0	0	56.8	1.5	0	56.3	2.0	0	55.9	2.4	0	55.5	2.8	0
M-S1B-NB52	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apartment	1	57.3	57.3	57.3	0	0	B (67)	None	57.0	0.3	0	56.3	1.0	0	56.0	1.3	0	55.6	1.7	0	55.4	1.9	0	55.4	1.9	0
M-S1B-NB53	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	58.3	58.3	58.2	0	-0.1	B (67)	None	57.7	0.5	0	57.3	0.9	0	56.9	1.3	0	56.5	1.7	0	56.2	2.0	0	55.9	2.3	0
M-S1B-NB54	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	58.3	58.3	58.3	0	0	B (67)	None	57.8	0.5	0	57.2	1.1	0	56.8	1.5	0	56.4	1.9	0	56.2	2.1	0	55.9	2.4	0
M-S1B-NB55	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	58.6	58.6	58.5	0	-0.1	B (67)	None	58.0	0.5	0	57.4	1.1	0	56.9	1.6	0	56.4	2.1	0	56.1	2.4	0	55.9	2.6	0
M-S1B-NB56	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	59.0	59.0	59.0	0	0	B (67)	None	58.3	0.7	0	57.8	1.2	0	57.2	1.8	0	56.8	2.2	0	56.4	2.6	0	56.0	3.0	0
M-S1B-NB57	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	59.3	59.3	59.3	0	0	B (67)	None	58.7	0.6	0	58.2	1.1	0	57.7	1.6	0	57.2	2.1	0	56.8	2.5	0	56.5	2.8	0
M-S1B-NB58	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	59.4	59.4	59.4	0	0	B (67)	None	58.8	0.6	0	58.3	1.1	0	57.9	1.5	0	57.4	2.0	0	57.0	2.4	0	56.6	2.8	0
M-S1B-NB59	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	58.2	58.2	58.2	0	0	B (67)	None	57.7	0.5	0	57.3	0.9	0	56.8	1.4	0	56.4	1.8	0	56.0	2.2	0	55.6	2.6	0
M-S1B-NB60	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	57.6	57.6	57.6	0	0	B (67)	None	57.1	0.5	0	56.7	0.9	0	56.4	1.2	0	56.0	1.6	0	56.0	1.6	0	55.6	2.0	0
M-S1B-NB61	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	50.7	50.7	50.7	0	0	B (67)	None	50.0	0.7	0	49.5	1.2	0	49.1	1.6	0	48.7	2.0	0	48.3	2.4	0	47.8	2.9	0
M-S1B-NB62	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	51.1	51.1	51.1	0	0	B (67)	None	50.5	0.6	0	50.1	1.0	0	49.6	1.5	0	49.2	1.9	0	48.8	2.3	0	48.3	2.8	0
M-S1B-NB63	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	51.4	51.4	51.4	0	0	B (67)	None	50.9	0.5	0	50.4	1.0	0	50.0	1.4	0	49.5	1.9	0	49.1	2.3	0	48.5	2.9	0
M-S1B-NB64	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	52.1	52.1	52.1	0	0	B (67)	None	51.5	0.6	0	51.1	1.0	0	50.6	1.5	0	50.2	1.9	0	49.8	2.3	0	49.2	2.9	0
M-S1B-NB65	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	53.9	53.9	53.9	0	0	B (67)	None	53.4	0.5	0	53.0	0.9	0	52.6	1.3	0	52.2	1.7	0	51.8	2.1	0	51.3	2.6	0
M-S1B-NB66	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	58.4	58.4	58.4	0	0	B (67)	None	57.9	0.5	0	57.5	0.9	0	57.1	1.3	0	56.7	1.7	0	56.2	2.2	0	55.8	2.6	0

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)															
														12 feet			14 feet			16 feet			18 feet			20 feet			22 feet		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S1B-NB67	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	58.6	58.6	58.6	0	0	B (67)	None	58.1	0.5	0	57.5	1.1	0	57.2	1.4	0	56.8	1.8	0	56.5	2.1	0	56.1	2.5	0
M-S1B-NB69	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	57.3	57.3	57.3	0	0	B (67)	None	56.9	0.4	0	56.6	0.7	0	56.2	1.1	0	56.1	1.2	0	55.7	1.6	0	55.5	1.8	0
M-S1B-NB70	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	56.8	56.8	56.8	0	0	B (67)	None	56.3	0.5	0	55.8	1.0	0	55.4	1.4	0	55.0	1.8	0	54.9	1.9	0	54.7	2.1	0
M-S1B-NB71	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	59.3	59.3	59.3	0	0	B (67)	None	58.6	0.7	0	58.1	1.2	0	57.8	1.5	0	57.5	1.8	0	57.1	2.2	0	56.8	2.5	0
M-S1B-NB72	5	Washington Pl	ESW-10	Seg1B-NB3-4	Apt/Condo	1	57.4	57.4	57.4	0	0	B (67)	None	56.8	0.6	0	56.2	1.2	0	55.7	1.7	0	55.3	2.1	0	54.9	2.5	0	54.5	2.9	0
M-S1B-NB73	5	Wright St	ESW-10	Seg1B-NB3-4	SFR	1	66.1	66.1	66.0	0	-0.1	B (67)	A/E	66.0	0.0	0	65.8	0.2	0	65.6	0.4	0	65.5	0.5	0	65.4	0.6	0	65.3	0.7	0
M-S1B-NB74	5	Wright St	ESW-10	Seg1B-NB3-4	SFR	1	59.5	59.5	59.3	0	-0.2	B (67)	None	59.3	0.0	0	58.4	0.9	0	57.7	1.6	0	57.1	2.2	0	56.6	2.7	0	56.2	3.1	0
M-S1B-NB75	5	Mabury St/Fruit St	ESW-10	Seg1B-NB3-4	SFR	1	53.9	53.9	53.6	0	-0.3	B (67)	None	53.2	0.4	0	52.1	1.5	0	51.2	2.4	0	50.5	3.1	0	49.8	3.8	0	49.3	4.3	0
M-S1B-NB76	5	Mabury St/Fruit St	ESW-10	Seg1B-NB3-4	SFR	3	57.6	57.6	57.5	0	-0.1	B (67)	None	57.3	0.2	0	56.4	1.1	0	55.9	1.6	0	55.3	2.2	0	55.3	2.2	0	55.4	2.1	0
M-S1B-NB77	5	Mabury St/Fruit St	ESW-10	Seg1B-NB3-4	SFR	1	60.9	60.9	60.8	0	-0.1	B (67)	None	60.8	0.0	0	60.0	0.8	0	59.3	1.5	0	58.8	2.0	0	58.2	2.6	0	57.8	3.0	0
M-S1B-NB78	5	Mabury St/Fruit St	ESW-10	Seg1B-NB3-4	SFR	1	60.0	60.0	59.9	0	-0.1	B (67)	None	59.8	0.1	0	59.0	0.9	0	58.4	1.5	0	57.8	2.1	0	57.3	2.6	0	57.0	2.9	0
M-S1B-NB79	5	Mabury St/Fruit St	ESW-10	Seg1B-NB3-4	SFR	2	58.7	58.7	58.4	0	-0.3	B (67)	None	58.3	0.1	0	57.6	0.8	0	57.1	1.3	0	56.7	1.7	0	56.8	1.6	0	56.7	1.7	0
M-S1B-NB80	5	Mabury St/Fruit St	ESW-10	Seg1B-NB3-4	SFR	1	61.5	61.5	61.5	0	0	B (67)	None	61.2	0.3	0	60.5	1.0	0	59.9	1.6	0	59.4	2.1	0	58.9	2.6	0	58.5	3.0	0
M-S1B-NB81	5	Mabury St/Fruit St	ESW-10	Seg1B-NB3-4	SFR	1	62.1	62.1	62.0	0	-0.1	B (67)	None	61.6	0.4	0	60.9	1.1	0	60.3	1.7	0	59.7	2.3	0	59.2	2.8	0	58.8	3.2	0
M-S1B-NB82	5	Mabury St/Fruit St	ESW-10	Seg1B-NB3-4	SFR	1	60.5	60.5	60.5	0	0	B (67)	None	60.2	0.3	0	59.7	0.8	0	59.3	1.2	0	59.0	1.5	0	58.8	1.7	0	58.6	1.9	0
M-S1B-NB83	5	Fruit St/ Concord St	ESW-10	Seg1B-NB3-4	SFR	1	61.0	61.0	61.0	0	0	B (67)	None	59.9	1.1	0	59.1	1.9	0	58.6	2.4	0	58.0	3.0	0	57.5	3.5	0	57.0	4.0	0
M-S1B-NB84	5	Fruit St/ Concord St	ESW-10	Seg1B-NB3-4	SFR	2	58.9	58.9	58.8	0	-0.1	B (67)	None	57.8	1.0	0	57.0	1.8	0	56.3	2.5	0	56.0	2.8	0	55.7	3.1	0	55.4	3.4	0
M-S1B-NB85	5	Wright St/Strafford St	ESW-10	Seg1B-NB3-4	SFR	1	62.5	62.5	62.5	0	0	B (67)	None	61.7	0.8	0	61.1	1.4	0	60.7	1.8	0	60.3	2.2	0	59.8	2.7	0	59.6	2.9	0
M-S1B-NB86	5	Strafford St	ESW-10	Seg1B-NB3-4	SFR	1	63.7	63.7	63.7	0	0	B (67)	None	62.7	1.0	0	61.9	1.8	0	61.4	2.3	0	60.8	2.9	0	60.3	3.4	0	59.8	3.9	0
M-S1B-NB87	5	Wright St	ESW-10	Seg1B-NB3-4	SFR	1	59.3	59.3	59.3	0	0	B (67)	None	58.0	1.3	0	57.1	2.2	0	56.4	2.9	0	55.9	3.4	0	55.4	3.9	0	55.0	4.3	0
M-S1B-NB93	5	Linwood Ave	ESW-10	Seg1B-NB3-4	SFR	1	64.4	64.4	64.4	0	0	B (67)	None	63.7	0.7	0	63.1	1.3	0	62.5	1.9	0	62.1	2.3	0	61.6	2.8	0	61.1	3.3	0
M-S1B-NB88	5	Vance Pl	ESW-10	Seg1B-NB3-4	SFR	1	58.6	58.6	58.5	0	-0.1	B (67)	None	57.0	1.5	0	56.0	2.5	0	55.1	3.4	0	54.3	4.2	0	53.7	4.8	0	53.2	5.3	1
M-S1B-NB89	5	Vance Pl	ESW-10	Seg1B-NB3-4	SFR	1	58.5	58.5	58.5	0	0	B (67)	None	57.1	1.4	0	56.1	2.4	0	55.3	3.2	0	54.7	3.8	0	54.2	4.3	0	53.7	4.8	0
M-S1B-NB90	5	Vance Pl	ESW-10	Seg1B-NB3-4	SFR	1	57.2	57.2	57.1	0	-0.1	B (67)	None	55.9	1.2	0	55.0	2.1	0	54.6	2.5	0	54.2	2.9	0	53.9	3.2	0	54.1	3.0	0
M-S1B-NB91	5	Eastside Ave	ESW-10	Seg1B-NB3-4	SFR	1	55.3	55.3	55.3	0	0	B (67)	None	54.1	1.2	0	53.0	2.3	0	52.2	3.1	0	51.3	4.0	0	50.7	4.6	0	50.1	5.2	1
M-S1B-NB92	5	Eastside Ave	ESW-10	Seg1B-NB3-4	SFR	1	54.6	54.6	54.6	0	0	B (67)	None	53.2	1.4	0	52.2	2.4	0	51.1	3.5	0	50.3	4.3	0	49.6	5.0	1	49.0	5.6	1
M-S1B-NB94	5	Grace St/ Linwood Ave	ESW-10	Seg1B-NB3-4	SFR	1	53.1	53.1	53.1	0	0	B (67)	None	52.4	0.7	0	51.6	1.5	0	50.8	2.3	0	50.1	3.0	0	49.3	3.8	0	48.6	4.5	0
M-S1B-NB95	5	Linwood Ave	ESW-10	Seg1B-NB3-4	SFR	1	57.0	57.0	57.0	0	0	B (67)	None	56.5	0.5	0	56.5	0.5	0	56.5	0.5	0	56.0	1.0	0	55.6	1.4	0	55.2	1.8	0

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-9. Predicted Future Noise and Barrier Analysis (NSA 6) - Seg1B-SB1 - Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														18 feet			20 feet			22 feet			-			-			-		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S1B-SB1	6	Colombo Ln	ESW-11	Seg1B-SB1	Mobile Home	1	64.3	64.3	64.3	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB2	6	Coronado Ln	ESW-11	Seg1B-SB1	Mobile Home	2	64.5	64.5	64.5	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB3	6	Coronado Ln	ESW-11	Seg1B-SB1	Mobile Home	2	63.6	63.6	63.5	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB4	6	Coronado Ln	ESW-11	Seg1B-SB1	Mobile Home	2	64.2	64.2	64.2	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB5	6	Portola Ln	ESW-11	Seg1B-SB1	Mobile Home	1	61.4	61.4	61.4	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB6	6	Lorelei Ln	ESW-11	Seg1B-SB1	SFR	1	54.1	54.1	54.1	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB7	6	Lorelei Ln	ESW-11	Seg1B-SB1	SFR	1	55.8	55.8	55.9	0.0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB8	6	Lorelei Ln	ESW-11	Seg1B-SB1	SFR	1	55.5	55.5	55.5	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB9	6	Lorelei Ln	ESW-11	Seg1B-SB1	SFR	1	60.9	60.9	60.9	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB10	6	Williams St	ESW-11	Seg1B-SB1	Mobile Home	1	60.9	60.9	60.9	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB11	6	La Ronda	ESW-11	Seg1B-SB1	Mobile Home	2	48.4	48.4	48.6	0.0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB12	6	Main St	ESW-11	Seg1B-SB1	Mobile Home	2	60.3	60.3	60.5	0.0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB13	6	Coronado Ln/De Anza Ln	ESW-11	Seg1B-SB1	Mobile Home	3	55.4	55.4	55.4	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB14	6	Coronado Ln/Serra Ln	ESW-11	Seg1B-SB1	Mobile Home	2	54.6	54.6	54.6	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB15	6	Colombo Ln	ESW-11	Seg1B-SB1	Mobile Home	2	60.1	60.1	60.0	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB16	6	Colombo Ln	ESW-11	Seg1B-SB1	Mobile Home	2	61.5	61.5	61.5	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB17	6	Portola Ln	ESW-11	Seg1B-SB1	Mobile Home	2	64.6	64.6	64.6	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB18	6	Lorelei Ln	ESW-11	Seg1B-SB1	SFR	1	59.2	59.2	59.2	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB19	6	Buena Vista	ESW-11	Seg1B-SB1	Mobile Home	2	58.5	58.5	58.6	0.0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB20	6	La Ronda	ESW-11	Seg1B-SB1	Mobile Home	2	59.4	59.4	59.5	0.0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB21	6	Coronado Ln/De Anza Ln	ESW-11	Seg1B-SB1	Mobile Home	1	62.9	62.9	62.9	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB22	6	Coronado Ln/De Anza Ln	ESW-11	Seg1B-SB1	Mobile Home	1	63.3	63.3	63.3	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB23	6	Coronado Ln	ESW-11	Seg1B-SB1	Mobile Home	1	63.2	63.2	63.2	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB24	6	Coronado Ln	ESW-11	Seg1B-SB1	Mobile Home	1	65.1	65.1	65.0	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB25	6	Coronado Ln	ESW-11	Seg1B-SB1	Mobile Home	1	63.8	63.8	63.7	0.0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB26	6	Coronado Ln	ESW-11	Seg1B-SB1	Mobile Home	1	63.4	63.4	63.4	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB27	6	Coronado Ln	ESW-11	Seg1B-SB1	Mobile Home	1	63.1	63.1	63.1	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB28	6	Coronado Ln	ESW-11	Seg1B-SB1	Mobile Home	1	62.2	62.2	62.2	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB29	6	Coronado Ln	ESW-11	Seg1B-SB1	Mobile Home	1	63.1	63.1	63.1	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB30	6	Coronado Ln	ESW-11	Seg1B-SB1	Mobile Home	1	63.3	63.3	63.3	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB31	6	Coronado Ln	ESW-11	Seg1B-SB1	Mobile Home	1	63.2	63.2	63.2	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB32	6	Coronado Ln	ESW-11	Seg1B-SB1	Mobile Home	1	63.1	63.1	63.1	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB33	6	Coronado Ln	ESW-11	Seg1B-SB1	Mobile Home	1	63.3	63.3	63.3	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB34	6	Portola Ln	ESW-11	Seg1B-SB1	Mobile Home	1	64.2	64.2	64.2	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB35	6	Lorelei Ln	ESW-11	Seg1B-SB1	SFR	1	63	63	63.1	0.0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB36	6	Lorelei Ln	ESW-11	Seg1B-SB1	SFR	1	59.2	59.2	59.2	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB37	6	Williams St	ESW-11	Seg1B-SB1	Mobile Home	1	61.9	61.9	61.9	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB38	6	Main St/ Williams St	ESW-11	Seg1B-SB1	Mobile Home	1	63.6	63.6	63.7	0.0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB39	6	Main St	ESW-11	Seg1B-SB1	Mobile Home	1	62.7	62.7	62.7	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB40	6	Coronado Ln/De Anza Ln	ESW-11	Seg1B-SB1	Mobile Home	1	63.3	63.3	63.1	0.0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB41	6	Coronado Ln	ESW-11	Seg1B-SB1	Mobile Home	1	64.6	64.6	64.4	0.0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB42	6	Coronado Ln	ESW-11	Seg1B-SB1	Mobile Home	1	65.8	65.8	65.6	0.0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																									
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														18 feet			20 feet			22 feet			-			-			-		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S1B-SB43	6	Coronado Ln/Serra Ln	ESW-11	Seg1B-SB1	Mobile Home	1	62.8	62.8	62.6	0.0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB44	6	Coronado Ln	ESW-11	Seg1B-SB1	Mobile Home	1	62.7	62.7	62.7	0.0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB45	6	1st St	ESW-11	–	Zoo	1	64.9	64.9	65.0	0.0	0.1	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB46	6	1st St	ESW-11	–	Zoo	1	65.5	65.5	65.5	0.0	0.0	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB47	6	1st St	ESW-11	—	Zoo	1	67.9	67.9	68.0	0.0	0.1	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB48	6	1st St	ESW-11	–	Zoo	1	63	63	63.2	0.0	0.2	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1B-SB49	6	1st St	ESW-11	–	Zoo	1	64.6	64.6	64.8	0.0	0.2	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-10. Predicted Future Noise and Barrier Analysis (NSA 6) - Seg1B-SB2 - Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																				
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)														
														14 feet			16 feet			18 feet			20 feet			22 feet			-		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S1B-SB54	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	1	59.8	59.8	59.9	0	0.1	B (67)	None	59.9	0.0	0	59.6	0.3	0	59.5	0.4	0	59.4	0.5	0	59.2	0.7	0	–	–	–
M-S1B-SB55	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	1	61.7	61.7	61.8	0	0.1	B (67)	None	61.8	0.0	0	61.4	0.4	0	61.1	0.7	0	60.5	1.3	0	59.8	2.0	0	–	–	–
M-S1B-SB56	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	1	64.6	64.6	64.6	0	0.0	B (67)	None	64.6	0.0	0	63.9	0.7	0	63.2	1.4	0	62.6	2.0	0	61.8	2.8	0	–	–	–
M-S1B-SB57	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	2	62.5	62.5	62.5	0	0.0	B (67)	None	62.5	0.0	0	61.8	0.7	0	61.2	1.3	0	60.6	1.9	0	60.0	2.5	0	–	–	–
M-S1B-SB58	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo Pool	1	65.4	65.4	64.9	0	-0.5	B (67)	None	64.9	0.0	0	64.0	0.9	0	63.2	1.7	0	62.5	2.4	0	61.9	3.0	0	–	–	–
M-S1B-SB59	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	1	63.7	63.7	63.7	0	0.0	B (67)	None	63.7	0.0	0	62.8	0.9	0	62.0	1.7	0	61.3	2.4	0	60.5	3.2	0	–	–	–
M-S1B-SB60	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	1	62.4	62.4	62.4	0	0.0	B (67)	None	62.4	0.0	0	61.5	0.9	0	60.6	1.8	0	59.9	2.5	0	59.2	3.2	0	–	–	–
M-S1B-SB61	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	1	55.8	55.8	55.8	0	0.0	B (67)	None	55.8	0.0	0	55.1	0.7	0	54.5	1.3	0	53.8	2.0	0	53.1	2.7	0	–	–	–
M-S1B-SB62	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	1	65.9	65.9	65.9	0	0.0	B (67)	None	65.9	0.0	0	64.7	1.2	0	64.0	1.9	0	63.3	2.6	0	62.5	3.4	0	–	–	–
M-S1B-SB63	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	1	65.1	65.1	65.1	0	0.0	B (67)	None	65.1	0.0	0	64.3	0.8	0	63.5	1.6	0	62.7	2.4	0	62.1	3.0	0	–	–	–
M-S1B-SB64	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	1	65.6	65.6	65.6	0	0.0	B (67)	None	65.6	0.0	0	64.3	1.3	0	63.6	2.0	0	63.0	2.6	0	62.2	3.4	0	–	–	–
M-S1B-SB65	6	6th St/Patricia Ln	ESW-12	Seg1B-NB1	SFR	1	57.6	57.6	57.7	0	0.1	B (67)	None	57.5	0.2	0	55.9	1.8	0	54.4	3.3	0	53.5	4.2	1	53.0	4.7	1	–	–	–
M-S1B-SB66	6	6th St/Patricia Ln	ESW-12	Seg1B-NB1	SFR	2	61.6	61.6	61.6	0	0.0	B (67)	None	61.5	0.1	0	60.4	1.2	0	59.5	2.1	0	58.8	2.8	0	58.2	3.4	0	–	–	–
M-S1B-SB67	6	1633 N Lyon St	ESW-12	Seg1B-NB1	SFR	1	66.1	66.1	66.1	0	0.0	B (67)	A/E	66.1	0.0	0	65.3	0.8	0	64.4	1.7	0	63.7	2.4	0	63.0	3.1	0	–	–	–
M-S1B-SB68	6	6th St	ESW-12	Seg1B-NB1	SFR	1	61.9	61.9	61.9	0	0.0	B (67)	None	61.9	0.0	0	61.1	0.8	0	60.3	1.6	0	59.7	2.2	0	59.1	2.8	0	–	–	–
M-S1B-SB69	6	Patricia Ln	ESW-12	Seg1B-NB1	SFR	1	64.8	64.8	64.8	0	0.0	B (67)	None	64.5	0.3	0	63.6	1.2	0	62.9	1.9	0	62.3	2.5	0	61.8	3.0	0	–	–	–
M-S1B-SB70	6	Patricia Ln	ESW-12	Seg1B-NB1	SFR	2	61.2	61.2	61.3	0	0.1	B (67)	None	60.7	0.6	0	59.9	1.4	0	59.3	2.0	0	58.7	2.6	0	58.1	3.2	0	–	–	–
M-S1B-SB71	6	Patricia Ln	ESW-12	Seg1B-NB1	SFR	1	64.3	64.3	64.3	0	0.0	B (67)	None	63.7	0.6	0	62.9	1.4	0	62.2	2.1	0	61.7	2.6	0	61.2	3.1	0	–	–	–
M-S1B-SB72	6	Patricia Ln	ESW-12	Seg1B-NB1	SFR	1	64.4	64.4	64.5	0	0.1	B (67)	None	63.8	0.7	0	63.0	1.5	0	62.3	2.2	0	61.8	2.7	0	61.2	3.3	0	–	–	–
M-S1B-SB73	6	Patricia Ln	ESW-12	Seg1B-NB1	SFR	1	64.4	64.4	64.4	0	0.0	B (67)	None	63.6	0.8	0	62.9	1.5	0	62.2	2.2	0	61.7	2.7	0	61.2	3.2	0	–	–	–
M-S1B-SB74	6	Patricia Ln	ESW-12	Seg1B-NB1	SFR	1	64.4	64.4	64.4	0	0.0	B (67)	None	63.6	0.8	0	62.8	1.6	0	62.2	2.2	0	61.6	2.8	0	61.1	3.3	0	–	–	–
M-S1B-SB75	6	Patricia Ln	ESW-12	Seg1B-NB1	SFR	1	64.2	64.2	64.3	0	0.1	B (67)	None	63.4	0.9	0	62.6	1.7	0	62.0	2.3	0	61.4	2.9	0	60.9	3.4	0	–	–	–
M-S1B-SB76	6	Patricia Ln	ESW-12	Seg1B-NB1	Park	1	66.5	66.5	66.6	0	0.1	B (67)	A/E	65.8	0.8	0	65.1	1.5	0	64.4	2.2	0	63.9	2.7	0	63.2	3.4	0	–	–	–
M-S1B-SB77	6	Eastside Ave/6th St	ESW-12	Seg1B-NB1	SFR	1	58.2	58.2	58.4	0	0.2	B (67)	None	57.7	0.7	0	57.2	1.2	0	57.1	1.3	0	56.9	1.5	0	56.6	1.8	0	–	–	–
M-S1B-SB78	6	Eastside Ave	ESW-12	Seg1B-NB1	SFR	1	66.7	66.7	66.8	0	0.1	B (67)	A/E	66.0	0.8	0	65.3	1.5	0	64.6	2.2	0	64.1	2.7	0	63.5	3.3	0	–	–	–
M-S1B-SB79	6	Fruit St	ESW-12	Seg1B-NB1	SFR	1	65.3	65.3	65.4	0	0.1	B (67)	None	64.5	0.9	0	63.8	1.6	0	63.1	2.3	0	62.4	3.0	0	61.9	3.5	0	–	–	–
M-S1B-SB80	6	Fruit St	ESW-12	Seg1B-NB1	SFR	1	63.7	63.7	63.8	0	0.1	B (67)	None	62.9	0.9	0	62.1	1.7	0	61.4	2.4	0	60.8	3.0	0	60.3	3.5	0	–	–	–
M-S1B-SB81	6	Fruit St	ESW-12	Seg1B-NB1	SFR	1	58.3	58.3	58.4	0	0.1	B (67)	None	57.5	0.9	0	56.7	1.7	0	56.1	2.3	0	55.5	2.9	0	55.2	3.2	0	–	–	–
M-S1B-SB82	6	N Linwood Ave	ESW-12	Seg1B-NB1	SFR	1	65.1	65.1	65.3	0	0.2	B (67)	None	64.6	0.7	0	64.0	1.3	0	63.4	1.9	0	62.9	2.4	0	62.4	2.9	0	–	–	–
M-S1B-SB83	6	N Linwood Ave	ESW-12	Seg1B-NB1	SFR	1	63.3	63.3	63.4	0	0.1	B (67)	None	62.8	0.6	0	62.2	1.2	0	61.7	1.7	0	61.3	2.1	0	60.9	2.5	0	–	–	–
M-S1B-SB84	6	N Linwood Ave	ESW-12	Seg1B-NB1	SFR	1	61.9	61.9	62.0	0	0.1	B (67)	None	61.5	0.5	0	61.0	1.0	0	60.6	1.4	0	60.3	1.7	0	60.0	2.0	0	–	–	–
M-S1B-SB85	6	6th St	ESW-12	Seg1B-NB1	SFR	2	56.6	56.6	56.7	0	0.1	B (67)	None	55.9	0.8	0	55.1	1.6	0	54.3	2.4	0	53.6	3.1	0	53.0	3.7	0	–	–	–
M-S1B-SB86	6	6th St	ESW-12	Seg1B-NB1	SFR	2	56.2	56.2	56.4	0	0.2	B (67)	None	55.4	1.0	0	54.5	1.9	0	53.6	2.8	0	53.1	3.3	0	52.6	3.8	0	–	–	–
M-S1B-SB87	6	6th St	ESW-12	Seg1B-NB1	SFR	2	60.3	60.3	60.3	0	0.0	B (67)	None	59.3	1.0	0	58.5	1.8	0	57.8	2.5	0	57.2	3.1	0	56.6	3.7	0	–	–	–
M-S1B-SB88	6	Patricia Ln	ESW-12	Seg1B-NB1	SFR	1	64.1	64.1	64.2	0	0.1	B (67)	None	63.3	0.9	0	62.6	1.6	0	61.9	2.3	0	61.3	2.9	0	60.7	3.5	0	–	–	–
M-S1B-SB89	6	Eastside Ave	ESW-12	Seg1B-NB1	SFR	1	58.6	58.6	58.7	0	0.1	B (67)	None	57.8	0.9	0	56.8	1.9	0	56.3	2.4	0	56.1	2.6	0	55.9	2.8	0	–	–	–
M-S1B-SB90	6	N Linwood Ave	ESW-12	Seg1B-NB1	SFR	1	59.2	59.2	59.3	0	0.1	B (67)	None	58.3	1.0	0	57.6	1.7	0	57.1	2.2	0	56.7	2.6	0	56.4	2.9	0	–	–	–
M-S1B-SB91	6	N Linwood Ave	ESW-12	Seg1B-NB1	SFR	1	60.7	60.7	60.8	0	0.1	B (67)	None	60.4	0.4	0	60.1	0.7	0	59.8	1.0	0	59.5	1.3	0	59.4	1.4	0	–	–	–
M-S1B-SB92	6	Eastside Ave	ESW-12	Seg1B-NB1	SFR	1	59.5	59.5	59.6	0	0.1	B (67)	None	58.7	0.9	0	57.9	1.7	0	57.3	2.3	0	57.0	2.6	0	56.7	2.9	0	–	–	–
M-S1B-SB93	6	Eastside Ave	ESW-12	Seg1B-NB1	SFR	1	59.1	59.1	59.2	0	0.1	B (67)	None	58.5	0.7	0	57.8	1.4	0	57.3	1.9	0	57.3	1.9	0	57.0	2.2	0	–	–	–
M-S1B-SB94	6	N Linwood Ave	ESW-12	Seg1B-NB1	SFR	1	56.7	56.7	56.8	0	0.1	B (67)	None	56.0	0.8	0	55.7	1.1	0	55.3	1.5	0	55.0	1.8	0	54.8	2.0	0	–	–	–
M-S1B-SB95	6	N Linwood Ave	ESW-12	Seg1B-NB1	SFR	1	56.1	56.1	56.2	0	0.1	B (67)	None	55.4	0.8	0	54.3	1.9	0	54.4	1.8	0	54.0	2.2	0	53.7	2.5	0	–	–	–
M-S1B-SB96	6	N Linwood Ave	ESW-12	Seg1B-NB1	SFR	1	57.1	57.1	57.2	0	0.1	B (67)	None	56.2	1.0	0	55.8	1.4	0	55.5	1.7	0	55.4	1.8	0	56.0	1.2	0	–	–	–
M-S1B-SB54	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	1	59.8	59.8	59.9	0	0.1	B (67)	None	59.9	0.0	0	59.6	0.3	0	59.5	0.4	0	59.4	0.5	0	59.2	0.7	0	–	–	–
M-S1B-SB55	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	1	61.7	61.7	61.8	0	0.1	B (67)	None	61.8	0.0	0	61.4	0.4	0	61.1	0.7	0	60.5	1.3	0	59.8	2.0	0	–	–	–
M-S1B-SB56	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	1	64.6	64.6	64.6	0	0.0	B (67)	None	64.6	0.0	0	63.9	0.7	0	63.2	1.4	0	62.6	2.0	0	61.8	2.8	0	–	–	–
M-S1B-SB57	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	2	62.5	62.5	62.5	0	0.0	B (67)	None	62.5	0.0	0	61.8	0.7	0	61.2	1.3	0	60.6	1.9	0	60.0	2.5	0	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)															
														14 feet			16 feet			18 feet			20 feet			22 feet			-		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S1B-SB58	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo Pool	1	65.4	65.4	64.9	0	-0.5	B (67)	None	64.9	0.0	0	64.0	0.9	0	63.2	1.7	0	62.5	2.4	0	61.9	3.0	0	–	–	–
M-S1B-SB59	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	1	63.7	63.7	63.7	0	0.0	B (67)	None	63.7	0.0	0	62.8	0.9	0	62.0	1.7	0	61.3	2.4	0	60.5	3.2	0	–	–	–
M-S1B-SB60	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	1	62.4	62.4	62.4	0	0.0	B (67)	None	62.4	0.0	0	61.5	0.9	0	60.6	1.8	0	59.9	2.5	0	59.2	3.2	0	–	–	–
M-S1B-SB61	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	1	55.8	55.8	55.8	0	0.0	B (67)	None	55.8	0.0	0	55.1	0.7	0	54.5	1.3	0	53.8	2.0	0	53.1	2.7	0	–	–	–
M-S1B-SB62	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	1	65.9	65.9	65.9	0	0.0	B (67)	None	65.9	0.0	0	64.7	1.2	0	64.0	1.9	0	63.3	2.6	0	62.5	3.4	0	–	–	–
M-S1B-SB63	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	1	65.1	65.1	65.1	0	0.0	B (67)	None	65.1	0.0	0	64.3	0.8	0	63.5	1.6	0	62.7	2.4	0	62.1	3.0	0	–	–	–
M-S1B-SB64	6	Lyon St	ESW-12	Seg1B-NB1	Apt/Condo	1	65.6	65.6	65.6	0	0.0	B (67)	None	65.6	0.0	0	64.3	1.3	0	63.6	2.0	0	63.0	2.6	0	62.2	3.4	0	–	–	–
M-S1B-SB65	6	6th St/Patricia Ln	ESW-12	Seg1B-NB1	SFR	1	57.6	57.6	57.7	0	0.1	B (67)	None	57.5	0.2	0	55.9	1.8	0	54.4	3.3	0	53.5	4.2	1	53.0	4.7	1	–	–	–
M-S1B-SB66	6	6th St/Patricia Ln	ESW-12	Seg1B-NB1	SFR	2	61.6	61.6	61.6	0	0.0	B (67)	None	61.5	0.1	0	60.4	1.2	0	59.5	2.1	0	58.8	2.8	0	58.2	3.4	0	–	–	–
M-S1B-SB67	6	1633 N Lyon St	ESW-12	Seg1B-NB1	SFR	1	66.1	66.1	66.1	0	0.0	B (67)	A/E	66.1	0.0	0	65.3	0.8	0	64.4	1.7	0	63.7	2.4	0	63.0	3.1	0	–	–	–
M-S1B-SB68	6	6th St	ESW-12	Seg1B-NB1	SFR	1	61.9	61.9	61.9	0	0.0	B (67)	None	61.9	0.0	0	61.1	0.8	0	60.3	1.6	0	59.7	2.2	0	59.1	2.8	0	–	–	–
M-S1B-SB69	6	Patricia Ln	ESW-12	Seg1B-NB1	SFR	1	64.8	64.8	64.8	0	0.0	B (67)	None	64.5	0.3	0	63.6	1.2	0	62.9	1.9	0	62.3	2.5	0	61.8	3.0	0	–	–	–
M-S1B-SB70	6	Patricia Ln	ESW-12	Seg1B-NB1	SFR	2	61.2	61.2	61.3	0	0.1	B (67)	None	60.7	0.6	0	59.9	1.4	0	59.3	2.0	0	58.7	2.6	0	58.1	3.2	0	–	–	–
M-S1B-SB71	6	Patricia Ln	ESW-12	Seg1B-NB1	SFR	1	64.3	64.3	64.3	0	0.0	B (67)	None	63.7	0.6	0	62.9	1.4	0	62.2	2.1	0	61.7	2.6	0	61.2	3.1	0	–	–	–
M-S1B-SB72	6	Patricia Ln	ESW-12	Seg1B-NB1	SFR	1	64.4	64.4	64.5	0	0.1	B (67)	None	63.8	0.7	0	63.0	1.5	0	62.3	2.2	0	61.8	2.7	0	61.2	3.3	0	–	–	–
M-S1B-SB73	6	Patricia Ln	ESW-12	Seg1B-NB1	SFR	1	64.4	64.4	64.4	0	0.0	B (67)	None	63.6	0.8	0	62.9	1.5	0	62.2	2.2	0	61.7	2.7	0	61.2	3.2	0	–	–	–
M-S1B-SB74	6	Patricia Ln	ESW-12	Seg1B-NB1	SFR	1	64.4	64.4	64.4	0	0.0	B (67)	None	63.6	0.8	0	62.8	1.6	0	62.2	2.2	0	61.6	2.8	0	61.1	3.3	0	–	–	–
M-S1B-SB75	6	Patricia Ln	ESW-12	Seg1B-NB1	SFR	1	64.2	64.2	64.3	0	0.1	B (67)	None	63.4	0.9	0	62.6	1.7	0	62.0	2.3	0	61.4	2.9	0	60.9	3.4	0	–	–	–
M-S1B-SB76	6	Patricia Ln	ESW-12	Seg1B-NB1	Park	1	66.5	66.5	66.6	0	0.1	B (67)	A/E	65.8	0.8	0	65.1	1.5	0	64.4	2.2	0	63.9	2.7	0	63.2	3.4	0	–	–	–
M-S1B-SB77	6	Eastside Ave/6th St	ESW-12	Seg1B-NB1	SFR	1	58.2	58.2	58.4	0	0.2	B (67)	None	57.7	0.7	0	57.2	1.2	0	57.1	1.3	0	56.9	1.5	0	56.6	1.8	0	–	–	–
M-S1B-SB78	6	Eastside Ave	ESW-12	Seg1B-NB1	SFR	1	66.7	66.7	66.8	0	0.1	B (67)	A/E	66.0	0.8	0	65.3	1.5	0	64.6	2.2	0	64.1	2.7	0	63.5	3.3	0	–	–	–
M-S1B-SB79	6	Fruit St	ESW-12	Seg1B-NB1	SFR	1	65.3	65.3	65.4	0	0.1	B (67)	None	64.5	0.9	0	63.8	1.6	0	63.1	2.3	0	62.4	3.0	0	61.9	3.5	0	–	–	–
M-S1B-SB80	6	Fruit St	ESW-12	Seg1B-NB1	SFR	1	63.7	63.7	63.8	0	0.1	B (67)	None	62.9	0.9	0	62.1	1.7	0	61.4	2.4	0	60.8	3.0	0	60.3	3.5	0	–	–	–
M-S1B-SB81	6	Fruit St	ESW-12	Seg1B-NB1	SFR	1	58.3	58.3	58.4	0	0.1	B (67)	None	57.5	0.9	0	56.7	1.7	0	56.1	2.3	0	55.5	2.9	0	55.2	3.2	0	–	–	–
M-S1B-SB82	6	N Linwood Ave	ESW-12	Seg1B-NB1	SFR	1	65.1	65.1	65.3	0	0.2	B (67)	None	64.6	0.7	0	64.0	1.3	0	63.4	1.9	0	62.9	2.4	0	62.4	2.9	0	–	–	–
M-S1B-SB83	6	N Linwood Ave	ESW-12	Seg1B-NB1	SFR	1	63.3	63.3	63.4	0	0.1	B (67)	None	62.8	0.6	0	62.2	1.2	0	61.7	1.7	0	61.3	2.1	0	60.9	2.5	0	–	–	–
M-S1B-SB84	6	N Linwood Ave	ESW-12	Seg1B-NB1	SFR	1	61.9	61.9	62.0	0	0.1	B (67)	None	61.5	0.5	0	61.0	1.0	0	60.6	1.4	0	60.3	1.7	0	60.0	2.0	0	–	–	–
M-S1B-SB85	6	6th St	ESW-12	Seg1B-NB1	SFR	2	56.6	56.6	56.7	0	0.1	B (67)	None	55.9	0.8	0	55.1	1.6	0	54.3	2.4	0	53.6	3.1	0	53.0	3.7	0	–	–	–
M-S1B-SB86	6	6th St	ESW-12	Seg1B-NB1	SFR	2	56.2	56.2	56.4	0	0.2	B (67)	None	55.4	1.0	0	54.5	1.9	0	53.6	2.8	0	53.1	3.3	0	52.6	3.8	0	–	–	–
M-S1B-SB87	6	6th St	ESW-12	Seg1B-NB1	SFR	2	60.3	60.3	60.3	0	0.0	B (67)	None	59.3	1.0	0	58.5	1.8	0	57.8	2.5	0	57.2	3.1	0	56.6	3.7	0	–	–	–
M-S1B-SB88	6	Patricia Ln	ESW-12	Seg1B-NB1	SFR	1	64.1	64.1	64.2	0	0.1	B (67)	None	63.3	0.9	0	62.6	1.6	0	61.9	2.3	0	61.3	2.9	0	60.7	3.5	0	–	–	–
M-S1B-SB89	6	Eastside Ave	ESW-12	Seg1B-NB1	SFR	1	58.6	58.6	58.7	0	0.1	B (67)	None	57.8	0.9	0	56.8	1.9	0	56.3	2.4	0	56.1	2.6	0	55.9	2.8	0	–	–	–
M-S1B-SB90	6	N Linwood Ave	ESW-12	Seg1B-NB1	SFR	1	59.2	59.2	59.3	0	0.1	B (67)	None	58.3	1.0	0	57.6	1.7	0	57.1	2.2	0	56.7	2.6	0	56.4	2.9	0	–	–	–
M-S1B-SB91	6	N Linwood Ave	ESW-12	Seg1B-NB1	SFR	1	60.7	60.7	60.8	0	0.1	B (67)	None	60.4	0.4	0	60.1	0.7	0	59.8	1.0	0	59.5	1.3	0	59.4	1.4	0	–	–	–
M-S1B-SB92	6	Eastside Ave	ESW-12	Seg1B-NB1	SFR	1	59.5	59.5	59.6	0	0.1	B (67)	None	58.7	0.9	0	57.9	1.7	0	57.3	2.3	0	57.0	2.6	0	56.7	2.9	0	–	–	–
M-S1B-SB93	6	Eastside Ave	ESW-12	Seg1B-NB1	SFR	1	59.1	59.1	59.2	0	0.1	B (67)	None	58.5	0.7	0	57.8	1.4	0	57.3	1.9	0	57.3	1.9	0	57.0	2.2	0	–	–	–
M-S1B-SB94	6	N Linwood Ave	ESW-12	Seg1B-NB1	SFR	1	56.7	56.7	56.8	0	0.1	B (67)	None	56.0	0.8	0	55.7	1.1	0	55.3	1.5	0	55.0	1.8	0	54.8	2.0	0	–	–	–
M-S1B-SB95	6	N Linwood Ave	ESW-12	Seg1B-NB1	SFR	1	56.1	56.1	56.2	0	0.1	B (67)	None	55.4	0.8	0	54.3	1.9	0	54.4	1.8	0	54.0	2.2	0	53.7	2.5	0	–	–	–
M-S1B-SB96	6	N Linwood Ave	ESW-12	Seg1B-NB1	SFR	1	57.1	57.1	57.2	0	0.1	B (67)	None	56.2	1.0	0	55.8	1.4	0	55.5	1.7	0	55.4	1.8	0	56.0	1.2	0	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-11. Predicted Future Noise and Barrier Analysis (NSA 7) - Seg1C-NB1 – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																
														14 feet			16 feet			18 feet			20 feet			22 feet			-		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S1C-NB1	7	N Eastwood Ave	ESW-13	Seg1C-NB1	SFR	1	66.1	66.1	66.3	0	0.2	B (67)	A/E	66.3	0.0	0	66.2	0.1	0	66.2	0.1	0	66.2	0.1	0	66.2	0.1	0	–	–	–
M-S1C-NB2	7	Martha Ln	ESW-13	Seg1C-NB1	SFR	1	68.7	68.7	68.8	0	0.1	B (67)	A/E	67.9	0.9	0	67.1	1.7	0	66	2.8	0	65.4	3.4	0	64.6	4.2	0	–	–	–
M-S1C-NB3	7	Martha Ln	ESW-13	Seg1C-NB1	SFR	1	66.5	66.5	66.5	0	0.0	B (67)	A/E	66.1	0.4	0	65.2	1.3	0	64.5	2.0	0	63.7	2.8	0	63.0	3.5	0	–	–	–
M-S1C-NB4	7	Martha Ln	ESW-13	Seg1C-NB1	SFR	1	68.1	68.1	68.2	0	0.1	B (67)	A/E	67.8	0.4	0	66.8	1.4	0	65.9	2.3	0	65.1	3.1	0	64.4	3.8	0	–	–	–
M-S1C-NB5	7	Martha Ln	ESW-13	Seg1C-NB1	SFR	1	68.8	68.8	68.9	0	0.1	B (67)	A/E	68.7	0.2	0	67.6	1.3	0	66.7	2.2	0	65.8	3.1	0	65.1	3.8	0	–	–	–
M-S1C-NB6	7	Martha Ln/Hathaway St	ESW-13	Seg1C-NB1	SFR	1	68.1	68.1	68.3	0	0.2	B (67)	A/E	68.2	0.1	0	67.1	1.2	0	66.2	2.1	0	65.4	2.9	0	64.6	3.7	0	–	–	–
M-S1C-NB7	7	Martha Ln/Hathaway St	ESW-13	Seg1C-NB1	SFR	1	68.7	68.7	68.8	0	0.1	B (67)	A/E	68.8	0.0	0	67.7	1.1	0	67.1	1.7	0	66.1	2.7	0	65.3	3.5	0	–	–	–
M-S1C-NB40	7	Grand Ave	ESW-13	Seg1C-NB1	Retail	1	73.1	73.1	73.2	0	0.1	F	None	73.2	0.0	0	73.2	0.0	0	73.2	0.0	0	73.2	0.0	0	73.2	0.0	0	–	–	–
M-S1C-NB19	7	N Eastwood Ave	ESW-13	Seg1C-NB1	SFR	1	68.7	68.7	68.8	0	0.1	B (67)	A/E	68.7	0.1	0	68.7	0.1	0	68.6	0.2	0	68.5	0.3	0	68.5	0.3	0	–	–	–
M-S1C-NB20	7	Martha Ln	ESW-13	Seg1C-NB1	SFR	1	62.8	62.8	62.9	0	0.1	B (67)	None	62.3	0.6	0	61.5	1.4	0	60.8	2.1	0	60.1	2.8	0	59.5	3.4	0	–	–	–
M-S1C-NB21	7	14th St/ Eastwood Ave	ESW-13	Seg1C-NB1	SFR	1	58.0	58.0	57.9	0	-0.1	B (67)	None	57.4	0.5	0	56.8	1.1	0	56.2	1.7	0	55.6	2.3	0	55.2	2.7	0	–	–	–
M-S1C-NB22	7	14th St	ESW-13	Seg1C-NB1	SFR	1	58.7	58.7	58.7	0	0.0	B (67)	None	58.6	0.1	0	58.2	0.5	0	57.8	0.9	0	57.4	1.3	0	56.8	1.9	0	–	–	–
M-S1C-NB23	7	14th St	ESW-13	Seg1C-NB1	SFR	1	60.5	60.5	60.6	0	0.1	B (67)	None	60.6	0.0	0	60.0	0.6	0	59.5	1.1	0	59.0	1.6	0	58.3	2.3	0	–	–	–
M-S1C-NB24	7	14th St	ESW-13	Seg1C-NB1	SFR	1	61.2	61.2	61.3	0	0.1	B (67)	None	61.2	0.1	0	60.6	0.7	0	60	1.3	0	59.3	2.0	0	58.7	2.6	0	–	–	–
M-S1C-NB25	7	14th St	ESW-13	Seg1C-NB1	SFR	1	62.2	62.2	62.2	0	0.0	B (67)	None	62.2	0.0	0	61.5	0.7	0	60.8	1.4	0	60.2	2.0	0	59.6	2.6	0	–	–	–
M-S1C-NB26	7	Hathaway St	ESW-13	Seg1C-NB1	SFR	1	63.9	63.9	64.0	0	0.1	B (67)	None	64.0	0.0	0	63.1	0.9	0	62.3	1.7	0	61.6	2.4	0	60.9	3.1	0	–	–	–
M-S1C-NB27	7	Hathaway St	ESW-13	Seg1C-NB1	SFR	1	66.1	66.1	66.0	0	-0.1	B (67)	A/E	66.2	-0.2	0	65.9	0.1	0	65.5	0.5	0	65.2	0.8	0	65.0	1.0	0	–	–	–
M-S1C-NB41	7	Eastwood Ave	ESW-13	Seg1C-NB1	SFR	1	64.5	64.5	64.7	0	0.2	B (67)	None	64.5	0.2	0	64.4	0.3	0	64.2	0.5	0	64.2	0.5	0	64.1	0.6	0	–	–	–
M-S1C-NB42	7	14th St/ Eastwood Ave	ESW-13	Seg1C-NB1	SFR	1	55.9	55.9	55.8	0	-0.1	B (67)	None	55.5	0.3	0	55.0	0.8	0	54.6	1.2	0	54.0	1.8	0	53.3	2.5	0	–	–	–
M-S1C-NB43	7	14th St	ESW-13	Seg1C-NB1	SFR	2	57.7	57.7	57.7	0	0.0	B (67)	None	57.5	0.2	0	57.1	0.6	0	57.1	0.6	0	56.8	0.9	0	56.3	1.4	0	–	–	–
M-S1C-NB44	7	14th St	ESW-13	Seg1C-NB1	SFR	2	58.7	58.7	58.8	0	0.1	B (67)	None	58.7	0.1	0	58.4	0.4	0	58.2	0.6	0	57.8	1.0	0	57.4	1.4	0	–	–	–
M-S1C-NB45	7	14th St	ESW-13	Seg1C-NB1	SFR	2	58.5	58.5	58.7	0	0.2	B (67)	None	58.9	-0.2	0	58.5	0.2	0	58.2	0.5	0	57.9	0.8	0	57.3	1.4	0	–	–	–
M-S1C-NB46	7	Hathaway St	ESW-13	Seg1C-NB1	SFR	1	65.2	65.2	65.3	0	0.1	B (67)	None	65.3	0.0	0	65.0	0.3	0	64.8	0.5	0	64.6	0.7	0	64.4	0.9	0	–	–	–
M-S1C-NB51	7	Fairmont St	ESW-13	Seg1C-NB1	SFR	1	59.2	59.2	59.2	0	0.0	B (67)	None	59.2	0.0	0	59.0	0.2	0	59	0.2	0	58.9	0.3	0	58.8	0.4	0	–	–	–
M-S1C-NB52	7	Oakmont Pl	ESW-13	Seg1C-NB1	SFR	2	56.3	56.3	56.4	0	0.1	B (67)	None	56.1	0.3	0	55.7	0.7	0	55.3	1.1	0	55.1	1.3	0	54.8	1.6	0	–	–	–
M-S1C-NB53	7	Oakmont Pl	ESW-13	Seg1C-NB1	SFR	1	59.7	59.7	59.8	0	0.1	B (67)	None	59.8	0.0	0	59.3	0.5	0	58.7	1.1	0	58.3	1.5	0	57.7	2.1	0	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-12. Predicted Future Noise and Barrier Analysis (NSA 7) - Seg1C-NB2 – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														16 feet			18 feet			20 feet			22 feet			-			-		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S1C-NB8	7	Fairmont St/Lincoln St	ESW-14	Seg1C-NB2	SFR	1	65.4	65.4	65.6	0	0.2	B (67)	None	66.2	-0.6	0	66.0	-0.4	0	65.7	-0.1	0	65.6	0.0	0	–	–	–	–	–	–
M-S1C-NB9	7	Fairmont St	ESW-14	Seg1C-NB2	SFR	1	65.2	65.2	65.4	0	0.2	B (67)	None	65.2	0.2	0	64.7	0.7	0	64.3	1.1	0	63.8	1.6	0	–	–	–	–	–	–
M-S1C-NB10	7	Fairmont St	ESW-14	Seg1C-NB2	SFR	1	65.6	65.6	65.9	0	0.3	B (67)	None	65.4	0.5	0	64.8	1.1	0	64.2	1.7	0	63.7	2.2	0	–	–	–	–	–	–
M-S1C-NB11	7	Fairmont St	ESW-14	Seg1C-NB2	SFR	1	66.1	66.1	66.5	0	0.4	B (67)	A/E	65.9	0.6	0	65.3	1.2	0	64.7	1.8	0	64.2	2.3	0	–	–	–	–	–	–
M-S1C-NB12	7	Fairmont St	ESW-14	Seg1C-NB2	SFR	1	66.2	66.2	66.6	0	0.4	B (67)	A/E	66.0	0.6	0	65.4	1.2	0	64.8	1.8	0	64.3	2.3	0	–	–	–	–	–	–
M-S1C-NB13	7	Fairmont St	ESW-14	Seg1C-NB2	SFR	1	65.9	65.9	66.2	0	0.3	B (67)	A/E	65.6	0.6	0	65.0	1.2	0	64.4	1.8	0	63.8	2.4	0	–	–	–	–	–	–
M-S1C-NB14	7	Fairmont St	ESW-14	Seg1C-NB2	SFR	1	66.0	66.0	66.3	0	0.3	B (67)	A/E	65.7	0.6	0	65.1	1.2	0	64.5	1.8	0	63.9	2.4	0	–	–	–	–	–	–
M-S1C-NB15	7	Fairmont St	ESW-14	Seg1C-NB2	SFR	1	66.0	66.0	66.6	0	0.6	B (67)	A/E	65.5	1.1	0	64.9	1.7	0	63.8	2.8	0	63.0	3.6	0	–	–	–	–	–	–
M-S1C-NB16	7	Dorman St	ESW-14	Seg1C-NB2	SFR	1	66.8	66.8	68.0	0	1.2	B (67)	A/E	67.3	0.7	0	67.0	1.0	0	66.6	1.4	0	66.1	1.9	0	–	–	–	–	–	–
M-S1C-NB17	7	Oakmont Pl	ESW-14	Seg1C-NB2	SFR	1	67.8	67.8	67.7	0	-0.1	B (67)	A/E	66.1	1.6	0	65.3	2.4	0	64.8	2.9	0	63.8	3.9	0	–	–	–	–	–	–
M-S1C-NB18	7	Oakmont Pl	ESW-14	Seg1C-NB2	SFR	1	67.2	67.2	67.0	0	-0.2	B (67)	A/E	66.3	0.7	0	65.9	1.1	0	65.6	1.4	0	65.4	1.6	0	–	–	–	–	–	–
M-S1C-NB28	7	Lincoln Ave	ESW-14	Seg1C-NB2	SFR	1	52.4	52.4	52.6	0	0.2	B (67)	None	52.2	0.4	0	51.6	1.0	0	51.1	1.5	0	50.7	1.9	0	–	–	–	–	–	–
M-S1C-NB29	7	Lincoln Ave	ESW-14	Seg1C-NB2	SFR	1	56.8	56.8	56.9	0	0.1	B (67)	None	56.6	0.3	0	56.2	0.7	0	55.6	1.3	0	55.1	1.8	0	–	–	–	–	–	–
M-S1C-NB30	7	Lincoln Ave	ESW-14	Seg1C-NB2	SFR	1	56.6	56.6	57.6	0	1.0	B (67)	None	57.2	0.4	0	56.7	0.9	0	56.3	1.3	0	55.8	1.8	0	–	–	–	–	–	–
M-S1C-NB31	7	Dorman St/Lincoln Ave	ESW-14	Seg1C-NB2	SFR	1	58.2	58.2	59.1	0	0.9	B (67)	None	58.7	0.4	0	58.3	0.8	0	57.8	1.3	0	57.2	1.9	0	–	–	–	–	–	–
M-S1C-NB32	7	Dorman St/Lincoln Ave	ESW-14	Seg1C-NB2	SFR	1	59.1	59.1	60.6	0	1.5	B (67)	None	60.1	0.5	0	59.7	0.9	0	59.1	1.5	0	58.5	2.1	0	–	–	–	–	–	–
M-S1C-NB33	7	Dorman St	ESW-14	Seg1C-NB2	SFR	1	60.6	60.6	61.4	0	0.8	B (67)	None	60.8	0.6	0	60.2	1.2	0	59.7	1.7	0	59.1	2.3	0	–	–	–	–	–	–
M-S1C-NB34	7	Dorman St	ESW-14	Seg1C-NB2	SFR	1	62.5	62.5	63.0	0	0.5	B (67)	None	62.3	0.7	0	61.7	1.3	0	61.2	1.8	0	60.6	2.4	0	–	–	–	–	–	–
M-S1C-NB35	7	Dorman St	ESW-14	Seg1C-NB2	SFR	1	63.2	63.2	63.6	0	0.4	B (67)	None	62.9	0.7	0	62.4	1.2	0	61.9	1.7	0	61.3	2.3	0	–	–	–	–	–	–
M-S1C-NB36	7	Dorman St	ESW-14	Seg1C-NB2	SFR	1	59.5	59.5	59.7	0	0.2	B (67)	None	59.0	0.7	0	58.4	1.3	0	57.9	1.8	0	57.4	2.3	0	–	–	–	–	–	–
M-S1C-NB37	7	Dorman St/Oakmont Pl	ESW-14	Seg1C-NB2	SFR	1	62.8	62.8	63.0	0	0.2	B (67)	None	62.3	0.7	0	61.7	1.3	0	61.0	2.0	0	60.4	2.6	0	–	–	–	–	–	–
M-S1C-NB39	7	Oakmont Pl	ESW-14	Seg1C-NB2	SFR	1	66.2	66.2	66.1	0	-0.1	B (67)	A/E	65.6	0.5	0	65.6	0.5	0	65.5	0.6	0	65.5	0.6	0	–	–	–	–	–	–
M-S1C-NB38	7	Dorman St/Oakmont Pl	ESW-14	Seg1C-NB2	SFR	1	55.5	55.5	55.5	0	0.0	B (67)	None	55.2	0.3	0	54.8	0.7	0	54.2	1.3	0	53.8	1.7	0	–	–	–	–	–	–
M-S1C-NB47	7	Fairmont St/Dorman St	ESW-14	Seg1C-NB2	SFR	1	60.7	60.7	60.7	0	0.0	B (67)	None	60.4	0.3	0	60.1	0.6	0	59.6	1.1	0	59.1	1.6	0	–	–	–	–	–	–
M-S1C-NB48	7	Oakmont Pl	ESW-14	Seg1C-NB2	SFR	1	56.6	56.6	56.5	0	-0.1	B (67)	None	56.3	0.2	0	56.2	0.3	0	55.6	0.9	0	55.3	1.2	0	–	–	–	–	–	–
M-S1C-NB49	7	Oakmont Pl	ESW-14	Seg1C-NB2	SFR	1	65.4	65.4	65.3	0	-0.1	B (67)	None	65.3	0.0	0	65.2	0.1	0	65.1	0.2	0	65.1	0.2	0	–	–	–	–	–	–
M-S1C-NB50	7	Oakmont Pl	ESW-14	Seg1C-NB2	SFR	1	63.6	63.6	63.6	0	0.0	B (67)	None	63.5	0.1	0	63.5	0.1	0	63.5	0.1	0	63.5	0.1	0	–	–	–	–	–	–
M-S1C-NB54	7	Fairmont St	ESW-14	Seg1C-NB2	SFR	1	59.5	59.5	59.4	0	-0.1	B (67)	None	59.1	0.3	0	58.9	0.5	0	58.5	0.9	0	58.1	1.3	0	–	–	–	–	–	–
M-S1C-NB55	7	Fairmont St	ESW-14	Seg1C-NB2	SFR	1	61.4	61.4	61.4	0	0.0	B (67)	None	61.1	0.3	0	60.8	0.6	0	60.3	1.1	0	60.0	1.4	0	–	–	–	–	–	–
M-S1C-NB56	7	Fairmont St	ESW-14	Seg1C-NB2	SFR	1	59.7	59.7	59.6	0	-0.1	B (67)	None	59.5	0.1	0	59.0	0.6	0	58.6	1.0	0	58.5	1.1	0	–	–	–	–	–	–
M-S1C-NB57	7	Oakmont Pl	ESW-14	Seg1C-NB2	SFR	1	62.0	62.0	61.9	0	-0.1	B (67)	None	61.3	0.6	0	60.8	1.1	0	60.4	1.5	0	59.7	2.2	0	–	–	–	–	–	–
M-S1C-NB58	7	Oakmont Pl	ESW-14	Seg1C-NB2	SFR	2	60.4	60.4	60.3	0	-0.1	B (67)	None	60.3	0.0	0	60.3	0.0	0	60.3	0.0	0	60.2	0.1	0	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-13. Predicted Future Noise and Barrier Analysis (NSA 8) - Seg1C-SB1 – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														6 feet			8 feet			10 feet			12 feet			14 feet			16 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S1C-SB1	8	Lincoln Ave	EPW-4	Seg1C-SB1	SFR	1	66.5	66.5	66.3	0	-0.2	66	A/E	64.4	1.9	0	63.9	2.4	0	62.9	3.4	0	62.3	4.0	0	61.4	4.9	0	60.7	5.6	1
M-S1C-SB2	8	Logan St/ Washington Ave	EPW-4	Seg1C-SB1	SFR	1	63.6	63.6	63.7	0	0.1	66	None	59.4	4.3	0	57.9	5.8	1	57.9	5.8	1	59.3	4.4	0	59.9	3.8	0	59.4	4.3	1
M-S1C-SB3	8	Logan St		Seg1C-SB1	SFR	1	66.5	66.5	66.8	0	0.3	66	A/E	62.5	4.3	0	61.8	5.0	1	61.1	5.7	1	60.5	6.3	1	59.9	6.9	1	59.4	7.4	1
M-S1C-SB4	8	Custer St		Seg1C-SB1	SFR	1	67.1	67.1	67.1	0	0	66	A/E	65.7	1.4	0	64.6	2.5	0	63.7	3.4	0	62.9	4.2	0	62.1	5.0	1	61.4	5.7	1
M-S1C-SB5	8	Custer St		Seg1C-SB1	SFR	1	71.3	71.3	71.4	0	0.1	66	A/E	70.8	0.6	0	68.6	2.8	0	67.0	4.4	0	65.8	5.6	1	64.8	6.6	1	63.8	7.6	1
M-S1C-SB6	8	Santiago St/Custer St		Seg1C-SB1	SFR	1	54.5	54.5	54.5	0	0	66	None	54.5	0.0	0	54.5	0.0	0	54.5	0.0	0	54.5	0.0	0	54.4	0.1	0	54.4	0.1	0
M-S1C-SB7	8	Lincoln Ave	EPW-4	Seg1C-SB1	SFR	1	60.5	60.5	60.6	0	0.1	66	None	57.4	3.2	0	56.8	3.8	0	58.6	2.0	0	58.0	2.6	0	57.3	3.3	0	56.6	4.0	0
M-S1C-SB8	8	Logan St		Seg1C-SB1	SFR	1	63.1	63.1	63.3	0	0.2	66	None	60.6	2.7	0	60.2	3.1	0	59.6	3.7	0	59.0	4.3	0	58.5	4.8	0	58.0	5.3	1
M-S1C-SB9	8	Custer St		Seg1C-SB1	SFR	1	63.5	63.5	63.6	0	0.1	66	None	62.1	1.5	0	61.5	2.1	0	60.9	2.7	0	60.3	3.3	0	59.7	3.9	0	59.2	4.4	0
M-S1C-SB10	8	Custer St		Seg1C-SB1	SFR	1	65.2	65.2	65.5	0	0.3	66	None	64.7	0.8	0	63.9	1.6	0	63.0	2.5	0	62.2	3.3	0	61.5	4.0	0	60.9	4.6	0
M-S1C-SB11	8	Lincoln Ave	EPW-4	Seg1C-SB1	SFR	1	57.1	57.1	57.2	0	0.1	66	None	54.3	2.9	0	54.8	2.4	0	56.0	1.2	0	55.6	1.6	0	55.1	2.1	0	54.7	2.5	0
M-S1C-SB12	8	Custer St		Seg1C-SB1	SFR	1	61.2	61.2	61.3	0	0.1	66	None	60.2	1.1	0	59.8	1.5	0	59.3	2.0	0	58.8	2.5	0	58.4	2.9	0	58.0	3.3	0
M-S1C-SB13	8	Custer St		Seg1C-SB1	SFR	1	62.6	62.6	62.8	0	0.2	66	None	62.3	0.5	0	61.7	1.1	0	61.0	1.8	0	60.3	2.5	0	59.6	3.2	0	59.0	3.8	0
M-S1C-SB14	8	Santiago St/ Custer St		Seg1C-SB1	SFR	1	61.6	61.6	61.3	0	-0.3	66	None	58.8	2.5	0	58.3	3.0	0	57.7	3.6	0	57.5	3.8	0	57.2	4.1	0	56.9	4.4	0
M-S1C-SB15	8	Custer St		Seg1C-SB1	SFR	1	58.8	58.8	58.9	0	0.1	66	None	58.2	0.7	0	58.0	0.9	0	57.8	1.1	0	57.5	1.4	0	57.2	1.7	0	56.9	2.0	0

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-14. Predicted Future Noise and Barrier Analysis (NSA 9) - Seg1D-NB1 – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														16 feet			18 feet			20 feet			22 feet			-			-		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S1D-NB1	9	Poinsettia St N	ESW-15/ESW16	Seg1D-NB1	SFR	1	67.5	67.5	67.1	0	-0.4	B (67)	A/E	67.0	0.1	0	67.0	0.1	0	67.0	0.1	0	66.9	0.2	0	–	–	–	–	–	–
M-S1D-NB2	9	Poinsettia St N	ESW-15/ESW16	Seg1D-NB1	SFR	1	65.6	65.6	65.3	0	-0.3	B (67)	None	65.2	0.1	0	65.2	0.1	0	65.1	0.2	0	65.1	0.2	0	–	–	–	–	–	–
M-S1D-NB3	9	Valencia St N	ESW-17	Seg1D-NB1	SFR	1	63.2	63.2	63.2	0	0.0	B (67)	None	62.7	0.5	0	62.3	0.9	0	61.9	1.3	0	61.5	1.7	0	–	–	–	–	–	–
M-S1D-NB4	9	Valencia St N	ESW-17	Seg1D-NB1	SFR	1	64.5	64.5	64.3	0	-0.2	B (67)	None	63.9	0.4	0	63.5	0.8	0	63.2	1.1	0	62.8	1.5	0	–	–	–	–	–	–
M-S1D-NB5	9	Valencia St N	ESW-17	Seg1D-NB1	SFR	1	64.0	64.0	63.9	0	-0.1	B (67)	None	63.3	0.6	0	62.8	1.1	0	62.3	1.6	0	61.8	2.1	0	–	–	–	–	–	–
M-S1D-NB6	9	Valencia St N	ESW-17	Seg1D-NB1	SFR	1	65.7	65.7	65.6	0	-0.1	B (67)	None	64.8	0.8	0	64.3	1.3	0	63.7	1.9	0	63.2	2.4	0	–	–	–	–	–	–
M-S1D-NB7	9	Valencia St N	ESW-17	Seg1D-NB1	SFR	1	64.0	64.0	63.9	0	-0.1	B (67)	None	63.2	0.7	0	62.5	1.4	0	62.0	1.9	0	61.5	2.4	0	–	–	–	–	–	–
M-S1D-NB8	9	E 20th St	ESW-17	Seg1D-NB1	SFR	1	65.8	65.8	65.7	0	-0.1	B (67)	None	64.9	0.8	0	64.2	1.5	0	63.7	2.0	0	63.1	2.6	0	–	–	–	–	–	–
M-S1D-NB9	9	E 20th St	ESW-17	Seg1D-NB1	SFR	1	66.7	66.7	66.6	0	-0.1	B (67)	A/E	65.8	0.8	0	65.2	1.4	0	64.5	2.1	0	63.9	2.7	0	–	–	–	–	–	–
M-S1D-NB10	9	French St	ESW-17	Seg1D-NB1	SFR	1	66.4	66.4	66.4	0	0.0	B (67)	A/E	65.5	0.9	0	64.6	1.8	0	63.9	2.5	0	63.3	3.1	0	–	–	–	–	–	–
M-S1D-NB11	9	French St	ESW-17	Seg1D-NB1	SFR	1	65.7	65.7	65.6	0	-0.1	B (67)	None	64.7	0.9	0	64.0	1.6	0	63.4	2.2	0	62.8	2.8	0	–	–	–	–	–	–
M-S1D-NB12	9	French St	ESW-17	Seg1D-NB1	SFR	1	64.9	64.9	64.8	0	-0.1	B (67)	None	64.0	0.8	0	63.3	1.5	0	62.9	1.9	0	62.5	2.3	0	–	–	–	–	–	–
M-S1D-NB13	9	French St	ESW-17	Seg1D-NB1	SFR	1	65.3	65.3	65.3	0	0.0	B (67)	None	64.4	0.9	0	63.8	1.5	0	63.4	1.9	0	63.1	2.2	0	–	–	–	–	–	–
M-S1D-NB14	9	French St	ESW-17	Seg1D-NB1	SFR	1	67.0	67.0	66.0	0	-1.0	B (67)	A/E	65.4	0.6	0	64.9	1.1	0	64.7	1.3	0	64.4	1.6	0	–	–	–	–	–	–
M-S1D-NB15	9	French St	ESW-17	Seg1D-NB1	SFR	1	64.9	64.9	64.9	0	0.0	B (67)	None	64.0	0.9	0	63.4	1.5	0	63.0	1.9	0	63.0	1.9	0	–	–	–	–	–	–
M-S1D-NB16	9	22nd St	ESW-17	Seg1D-NB1	SFR	1	62.2	62.2	62.2	0	0.0	B (67)	None	61.2	1.0	0	60.6	1.6	0	60.2	2.0	0	59.7	2.5	0	–	–	–	–	–	–
M-S1D-NB17	9	22nd St	ESW-17	Seg1D-NB1	SFR	1	63.2	63.2	63.2	0	0.0	B (67)	None	62.4	0.8	0	61.8	1.4	0	61.5	1.7	0	61.3	1.9	0	–	–	–	–	–	–
M-S1D-NB18	9	22nd St	ESW-17	Seg1D-NB1	SFR	1	63.9	63.9	63.9	0	0.0	B (67)	None	63.0	0.9	0	62.4	1.5	0	62.0	1.9	0	61.7	2.2	0	–	–	–	–	–	–
M-S1D-NB19	9	22nd St	ESW-17	Seg1D-NB1	SFR	1	63.7	63.7	63.6	0	-0.1	B (67)	None	62.8	0.8	0	62.1	1.5	0	61.4	2.2	0	60.8	2.8	0	–	–	–	–	–	–
M-S1D-NB20	9	22nd St	ESW-17	Seg1D-NB1	SFR	1	64.6	64.6	64.6	0	0.0	B (67)	None	63.9	0.7	0	63.3	1.3	0	62.8	1.8	0	62.4	2.2	0	–	–	–	–	–	–
M-S1D-NB21	9	Spurgeon St	ESW-17	Seg1D-NB1	SFR	1	62.5	62.5	62.4	0	-0.1	B (67)	None	61.9	0.5	0	61.3	1.1	0	60.9	1.5	0	60.4	2.0	0	–	–	–	–	–	–
M-S1D-NB22	9	Spurgeon St	ESW-17	Seg1D-NB1	SFR	2	63.6	63.6	63.6	0	0.0	B (67)	None	62.9	0.7	0	62.3	1.3	0	61.8	1.8	0	61.4	2.2	0	–	–	–	–	–	–
M-S1D-NB23	9	Spurgeon St/Buffalo Ave	ESW-17	Seg1D-NB1	SFR	1	66.7	66.7	66.6	0	-0.1	B (67)	A/E	65.5	1.1	0	64.9	1.7	0	64.1	2.5	0	63.2	3.4	0	–	–	–	–	–	–
M-S1D-NB24	9	Spurgeon St/Buffalo Ave	ESW-17	Seg1D-NB1	SFR	1	67.0	67.0	66.9	0	-0.1	B (67)	A/E	66.0	0.9	0	64.9	2.0	0	64.2	2.7	0	63.6	3.3	0	–	–	–	–	–	–
M-S1D-NB25	9	Spurgeon St	ESW-17	Seg1D-NB1	SFR	1	66.6	66.6	66.6	0	0.0	B (67)	A/E	65.8	0.8	0	64.9	1.7	0	64.3	2.3	0	63.7	2.9	0	–	–	–	–	–	–
M-S1D-NB26	9	Spurgeon St	ESW-17	Seg1D-NB1	SFR	2	61.8	61.8	61.8	0	0.0	B (67)	None	61.3	0.5	0	60.4	1.4	0	60.0	1.8	0	59.6	2.2	0	–	–	–	–	–	–
M-S1D-NB27	9	Santa Clara Ave/Spurgeon St	ESW-17	Seg1D-NB1	SFR	1	61.3	61.3	61.3	0	0.0	B (67)	None	60.7	0.6	0	59.9	1.4	0	59.4	1.9	0	59.0	2.3	0	–	–	–	–	–	–
M-S1D-NB28	9	Bush St	ESW-17	Seg1D-NB1	SFR	1	63.0	63.0	63.1	0	0.1	B (67)	None	62.4	0.7	0	61.6	1.5	0	61.0	2.1	0	60.4	2.7	0	–	–	–	–	–	–
M-S1D-NB29	9	Bush St	ESW-17	Seg1D-NB1	SFR	1	61.8	61.8	61.9	0	0.1	B (67)	None	61.0	0.9	0	60.3	1.6	0	59.7	2.2	0	59.1	2.8	0	–	–	–	–	–	–
M-S1D-NB30	9	Bush St	ESW-17	Seg1D-NB1	SFR	1	63.3	63.3	63.3	0	0.0	B (67)	None	62.6	0.7	0	61.9	1.4	0	61.2	2.1	0	60.5	2.8	0	–	–	–	–	–	–
M-S1D-NB31	9	Bush St	ESW-17	Seg1D-NB1	SFR	1	63.7	63.7	63.8	0	0.1	B (67)	None	63.0	0.8	0	62.3	1.5	0	61.5	2.3	0	60.9	2.9	0	–	–	–	–	–	–
M-S1D-NB32	9	Bush St	ESW-17	Seg1D-NB1	SFR	1	64.3	64.3	64.4	0	0.1	B (67)	None	63.5	0.9	0	62.7	1.7	0	61.9	2.5	0	61.3	3.1	0	–	–	–	–	–	–
M-S1D-NB33	9	Bush St	ESW-17	Seg1D-NB1	SFR	1	63.9	63.9	63.9	0	0.0	B (67)	None	63.0	0.9	0	62.2	1.7	0	61.4	2.5	0	60.7	3.2	0	–	–	–	–	–	–
M-S1D-NB34	9	Bush St	ESW-17	Seg1D-NB1	SFR	1	64.6	64.6	64.6	0	0.0	B (67)	None	63.8	0.8	0	63.0	1.6	0	62.3	2.3	0	61.8	2.8	0	–	–	–	–	–	–
M-S1D-NB35	9	Bush St	ESW-17	Seg1D-NB1	SFR	1	63.2	63.2	63.3	0	0.1	B (67)	None	62.5	0.8	0	61.7	1.6	0	61.0	2.3	0	60.4	2.9	0	–	–	–	–	–	–
M-S1D-NB36	9	Bush St	ESW-17	Seg1D-NB1	SFR	1	63.6	63.6	63.6	0	0.0	B (67)	None	62.8	0.8	0	62.1	1.5	0	61.6	2.0	0	61.1	2.5	0	–	–	–	–	–	–
M-S1D-NB37	9	Bush St	ESW-17	Seg1D-NB1	SFR	1	63.0	63.0	63.0	0	0.0	B (67)	None	62.3	0.7	0	61.7	1.3	0	61.2	1.8	0	60.7	2.3	0	–	–	–	–	–	–
M-S1D-NB38	9	Bush St	ESW-17	Seg1D-NB1	SFR	1	61.9	61.9	62.1	0	0.2	B (67)	None	61.5	0.6	0	60.9	1.2	0	60.2	1.9	0	59.7	2.4	0	–	–	–	–	–	–
M-S1D-NB39	9	Bush St	ESW-17	Seg1D-NB1	SFR	1	62.7	62.7	62.6	0	-0.1	B (67)	None	61.9	0.7	0	61.4	1.2	0	61.1	1.5	0	60.8	1.8	0	–	–	–	–	–	–
M-S1D-NB40	9	Bush St	ESW-17	Seg1D-NB1	SFR	1	61.2	61.2	61.3	0	0.1	B (67)	None	60.7	0.6	0	60.1	1.2	0	59.6	1.7	0	59.3	2.0	0	–	–	–	–	–	–
M-S1D-NB41	9	Bush St	ESW-17	Seg1D-NB1	SFR	1	59.7	59.7	59.8	0	0.1	B (67)	None	59.3	0.5	0	58.8	1.0	0	58.4	1.4	0	58.0	1.8	0	–	–	–	–	–	–
M-S1D-NB42	9	Bush St	ESW-17	Seg1D-NB1	SFR	1	60.1	60.1	60.2	0	0.1	B (67)	None	59.9	0.3	0	59.6	0.6	0	59.4	0.8	0	59.2	1.0	0	–	–	–	–	–	–
M-S1D-NB43	9	Bush St/Edgwood Rd	ESW-17	Seg1D-NB1	SFR	1	62.1	62.1	62.2	0	0.1	B (67)	None	62.1	0.1	0	61.9	0.3	0	61.7	0.5	0	61.6	0.6	0	–	–	–	–	–	–
M-S1D-NB44	9	Bush St	ESW-17	Seg1D-NB1	SFR	1	62.9	62.9	63.1	0	0.2	B (67)	None	62.2	0.9	0	61.5	1.6	0	61.0	2.1	0	60.2	2.9	0	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)															
														16 feet			18 feet			20 feet			22 feet			-			-		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S1D-NB45	9	Bush St/Edgwood Rd	ESW-17	Seg1D-NB1	SFR	1	61.5	61.5	61.5	0	0.0	B (67)	None	61.2	0.3	0	61.0	0.5	0	60.9	0.6	0	60.8	0.7	0	–	–	–	–	–	–
M-S1D-NB46	9	Bush St	ESW-17	Seg1D-NB1	SFR	1	59.6	59.6	58.8	0	-0.8	B (67)	None	59.3	-0.5	0	59.0	-0.2	0	58.7	0.1	0	58.3	0.5	0	–	–	–	–	–	–
M-S1D-NB47	9	Spurgeon St/Edgewood Rd	ESW-17	Seg1D-NB1	SFR	1	55.6	55.6	55.7	0	0.1	B (67)	None	54.7	1.0	0	54.1	1.6	0	53.9	1.8	0	53.8	1.9	0	–	–	–	–	–	–
M-S1D-NB48	9	Spurgeon St/Edgewood Rd	ESW-17	Seg1D-NB1	SFR	1	53.4	53.4	53.5	0	0.1	B (67)	None	53.2	0.3	0	53.0	0.5	0	52.8	0.7	0	52.5	1.0	0	–	–	–	–	–	–
M-S1D-NB49	9	Spurgeon St/Edgewood Rd	ESW-17	Seg1D-NB1	SFR	1	56.1	56.1	56.2	0	0.1	B (67)	None	55.3	0.9	0	55.2	1.0	0	55.0	1.2	0	54.9	1.3	0	–	–	–	–	–	–
M-S1D-NB50	9	Poinsettia St N	ESW-15/ESW16	Seg1D-NB1	SFR	1	68.1	68.1	67.2	0	-0.9	B (67)	A/E	67.1	0.1	0	67.1	0.1	0	67.1	0.1	0	67.1	0.1	0	–	–	–	–	–	–
M-S1D-NB51	9	Poinsettia St N	ESW-15/ESW16	Seg1D-NB1	SFR	1	67.0	67.0	66.3	0	-0.7	B (67)	A/E	66.2	0.1	0	66.1	0.2	0	66.1	0.2	0	66.1	0.2	0	–	–	–	–	–	–
M-S1D-NB52	9	Poinsettia St N	ESW-15/ESW16	Seg1D-NB1	SFR	1	65.8	65.8	65.1	0	-0.7	B (67)	None	65.1	0.0	0	65.0	0.1	0	65.0	0.1	0	65.0	0.1	0	–	–	–	–	–	–
M-S1D-NB53	9	Poinsettia St N	ESW-15/ESW16	Seg1D-NB1	SFR	1	64.3	64.3	64.1	0	-0.2	B (67)	None	63.9	0.2	0	63.8	0.3	0	63.7	0.4	0	63.7	0.4	0	–	–	–	–	–	–
M-S1D-NB54	9	Poinsettia St N	ESW-15/ESW16	Seg1D-NB1	SFR	1	62.2	62.2	62.1	0	-0.1	B (67)	None	61.5	0.6	0	61.2	0.9	0	61.0	1.1	0	61.0	1.1	0	–	–	–	–	–	–
M-S1D-NB55	9	Poinsettia St N	ESW-15/ESW16	Seg1D-NB1	SFR	1	61.1	61.1	61.0	0	-0.1	B (67)	None	60.4	0.6	0	60.0	1.0	0	59.8	1.2	0	59.7	1.3	0	–	–	–	–	–	–
M-S1D-NB56	9	Valencia St N	ESW-17	Seg1D-NB1	SFR	1	62.9	62.9	62.8	0	-0.1	B (67)	None	62.2	0.6	0	61.5	1.3	0	60.9	1.9	0	60.4	2.4	0	–	–	–	–	–	–
M-S1D-NB57	9	Valencia St N	ESW-17	Seg1D-NB1	SFR	1	62.9	62.9	62.8	0	-0.1	B (67)	None	62.1	0.7	0	61.5	1.3	0	61.0	1.8	0	60.5	2.3	0	–	–	–	–	–	–
M-S1D-NB58	9	Valencia St N	ESW-17	Seg1D-NB1	SFR	1	62.1	62.1	62.0	0	-0.1	B (67)	None	61.4	0.6	0	60.7	1.3	0	60.3	1.7	0	59.9	2.1	0	–	–	–	–	–	–
M-S1D-NB59	9	Valencia St N	ESW-17	Seg1D-NB1	SFR	1	61.4	61.4	61.3	0	-0.1	B (67)	None	60.7	0.6	0	60.3	1.0	0	60.1	1.2	0	59.7	1.6	0	–	–	–	–	–	–
M-S1D-NB60	9	Valencia St N/20th St	ESW-17	Seg1D-NB1	SFR	1	61.4	61.4	61.4	0	0.0	B (67)	None	61.0	0.4	0	60.7	0.7	0	60.5	0.9	0	60.2	1.2	0	–	–	–	–	–	–
M-S1D-NB61	9	Valencia St N/20th St	ESW-17	Seg1D-NB1	SFR	1	61.9	61.9	61.9	0	0.0	B (67)	None	61.1	0.8	0	60.4	1.5	0	60.0	1.9	0	59.6	2.3	0	–	–	–	–	–	–
M-S1D-NB62	9	Valencia St N/20th St	ESW-17	Seg1D-NB1	SFR	1	58.5	58.5	58.5	0	0.0	B (67)	None	58.0	0.5	0	56.9	1.6	0	56.3	2.2	0	55.9	2.6	0	–	–	–	–	–	–
M-S1D-NB63	9	20th St	ESW-17	Seg1D-NB1	SFR	1	65.1	65.1	65.0	0	-0.1	B (67)	None	64.1	0.9	0	63.4	1.6	0	62.8	2.2	0	62.2	2.8	0	–	–	–	–	–	–
M-S1D-NB64	9	20th St	ESW-17	Seg1D-NB1	SFR	1	63.7	63.7	63.6	0	-0.1	B (67)	None	62.8	0.8	0	62.1	1.5	0	61.4	2.2	0	60.8	2.8	0	–	–	–	–	–	–
M-S1D-NB65	9	20th St	ESW-17	Seg1D-NB1	SFR	1	63.9	63.9	63.7	0	-0.2	B (67)	None	63.1	0.6	0	62.6	1.1	0	62.3	1.4	0	61.9	1.8	0	–	–	–	–	–	–
M-S1D-NB66	9	20th St/Valencia St	ESW-17	Seg1D-NB1	SFR	1	61.5	61.5	61.4	0	-0.1	B (67)	None	60.9	0.5	0	60.3	1.1	0	60.3	1.1	0	60.2	1.2	0	–	–	–	–	–	–
M-S1D-NB67	9	Valencia St	ESW-17	Seg1D-NB1	SFR	1	57.5	57.5	57.4	0	-0.1	B (67)	None	56.6	0.8	0	56.0	1.4	0	55.4	2.0	0	54.9	2.5	0	–	–	–	–	–	–
M-S1D-NB68	9	Valencia St	ESW-17	Seg1D-NB1	SFR	1	59.4	59.4	59.4	0	0.0	B (67)	None	58.7	0.7	0	58.0	1.4	0	57.7	1.7	0	57.6	1.8	0	–	–	–	–	–	–
M-S1D-NB69	9	Valencia St	ESW-17	Seg1D-NB1	SFR	1	59.1	59.1	59.1	0	0.0	B (67)	None	57.9	1.2	0	57.4	1.7	0	57.3	1.8	0	56.8	2.3	0	–	–	–	–	–	–
M-S1D-NB70	9	Valencia St	ESW-17	Seg1D-NB1	SFR	1	58.7	58.7	58.6	0	-0.1	B (67)	None	57.8	0.8	0	57.5	1.1	0	57.1	1.5	0	56.7	1.9	0	–	–	–	–	–	–
M-S1D-NB71	9	French St	ESW-17	Seg1D-NB1	SFR	1	63.6	63.6	63.5	0	-0.1	B (67)	None	62.7	0.8	0	62.2	1.3	0	61.7	1.8	0	61.1	2.4	0	–	–	–	–	–	–
M-S1D-NB72	9	French St	ESW-17	Seg1D-NB1	SFR	1	63.6	63.6	63.6	0	0.0	B (67)	None	62.7	0.9	0	62.2	1.4	0	61.8	1.8	0	61.2	2.4	0	–	–	–	–	–	–
M-S1D-NB73	9	French St	ESW-17	Seg1D-NB1	SFR	1	63.2	63.2	63.1	0	-0.1	B (67)	None	62.2	0.9	0	61.8	1.3	0	61.3	1.8	0	61.1	2.0	0	–	–	–	–	–	–
M-S1D-NB74	9	French St	ESW-17	Seg1D-NB1	SFR	1	64.5	64.5	63.4	0	-1.1	B (67)	None	62.9	0.5	0	62.4	1.0	0	62.4	1.0	0	62.1	1.3	0	–	–	–	–	–	–
M-S1D-NB75	9	French St	ESW-17	Seg1D-NB1	SFR	1	61.6	61.6	61.5	0	-0.1	B (67)	None	60.7	0.8	0	60.5	1.0	0	60.1	1.4	0	59.7	1.8	0	–	–	–	–	–	–
M-S1D-NB76	9	French St	ESW-17	Seg1D-NB1	SFR	1	61.4	61.4	61.1	0	-0.3	B (67)	None	60.3	0.8	0	60.2	0.9	0	59.7	1.4	0	59.9	1.2	0	–	–	–	–	–	–
M-S1D-NB77	9	French St	ESW-17	Seg1D-NB1	SFR	1	61.2	61.2	60.8	0	-0.4	B (67)	None	60.0	0.8	0	59.8	1.0	0	59.4	1.4	0	59.6	1.2	0	–	–	–	–	–	–
M-S1D-NB78	9	French St	ESW-17	Seg1D-NB1	SFR	1	60.3	60.3	59.7	0	-0.6	B (67)	None	59.4	0.3	0	58.8	0.9	0	59.0	0.7	0	58.9	0.8	0	–	–	–	–	–	–
M-S1D-NB79	9	French St	ESW-17	Seg1D-NB1	SFR	1	60.2	60.2	59.9	0	-0.3	B (67)	None	59.0	0.9	0	58.4	1.5	0	58.4	1.5	0	58.3	1.6	0	–	–	–	–	–	–
M-S1D-NB80	9	French St	ESW-17	Seg1D-NB1	SFR	1	58.1	58.1	57.3	0	-0.8	B (67)	None	56.5	0.8	0	55.9	1.4	0	55.3	2.0	0	54.9	2.4	0	–	–	–	–	–	–
M-S1D-NB81	9	French St	ESW-17	Seg1D-NB1	SFR	1	58.3	58.3	57.7	0	-0.6	B (67)	None	56.4	1.3	0	55.7	2.0	0	55.0	2.7	0	54.5	3.2	0	–	–	–	–	–	–
M-S1D-NB82	9	22nd St	ESW-17	Seg1D-NB1	SFR	1	61.0	61.0	60.9	0	-0.1	B (67)	None	60.4	0.5	0	59.8	1.1	0	59.3	1.6	0	58.8	2.1	0	–	–	–	–	–	–
M-S1D-NB83	9	22nd St	ESW-17	Seg1D-NB1	SFR	1	59.7	59.7	59.6	0	-0.1	B (67)	None	58.8	0.8	0	58.3	1.3	0	57.8	1.8	0	57.8	1.8	0	–	–	–	–	–	–
M-S1D-NB84	9	22nd St	ESW-17	Seg1D-NB1	SFR	1	59.4	59.4	59.3	0	-0.1	B (67)	None	58.7	0.6	0	58.2	1.1	0	57.8	1.5	0	57.5	1.8	0	–	–	–	–	–	–
M-S1D-NB85	9	22nd St	ESW-17	Seg1D-NB1	SFR	1	58.9	58.9	58.9	0	0.0	B (67)	None	58.2	0.7	0	57.7	1.2	0	57.5	1.4	0	57.1	1.8	0	–	–	–	–	–	–
M-S1D-NB86	9	Buffalo Ave	ESW-17	Seg1D-NB1	SFR	1	60.0	60.0	60.0	0	0.0	B (67)	None	58.1	1.9	0	57.5	2.5	0	57.1	2.9	0	57.0	3.0	0	–	–	–	–	–	–
M-S1D-NB87	9	Buffalo Ave	ESW-17	Seg1D-NB1	SFR	1	59.0	59.0	58.9	0	-0.1	B (67)	None	57.5	1.4	0	57.0	1.9	0	56.5	2.4	0	56.0	2.9	0	–	–	–	–	–	–
M-S1D-NB88	9	Buffalo Ave	ESW-17	Seg1D-NB1	SFR	1	58.1	58.1	58.0	0	-0.1	B (67)	None	56.7	1.3	0	56.1	1.9	0	55.7	2.3	0	55.3	2.7	0	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																									
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														16 feet			18 feet			20 feet			22 feet			-			-		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S1D-NB89	9	Buffalo Ave	ESW-17	Seg1D-NB1	SFR	1	56.8	56.8	56.7	0	-0.1	B (67)	None	56.3	0.4	0	55.5	1.2	0	55.1	1.6	0	54.9	1.8	0	–	–	–	–	–	–
M-S1D-NB90	9	Buffalo Ave	ESW-17	Seg1D-NB1	SFR	1	57.3	57.3	57.3	0	0.0	B (67)	None	56.4	0.9	0	56.0	1.3	0	55.6	1.7	0	55.5	1.8	0	–	–	–	–	–	–
M-S1D-NB91	9	Buffalo Ave/Spurgeon St	ESW-17	Seg1D-NB1	SFR	1	58.5	58.5	58.4	0	-0.1	B (67)	None	57.8	0.6	0	57.3	1.1	0	57.0	1.4	0	56.8	1.6	0	–	–	–	–	–	–
M-S1D-NB92	9	Spurgeon St	ESW-17	Seg1D-NB1	SFR	1	60.8	60.8	60.8	0	0.0	B (67)	None	60.0	0.8	0	59.4	1.4	0	59.1	1.7	0	58.8	2.0	0	–	–	–	–	–	–
M-S1D-NB93	9	Spurgeon St	ESW-17	Seg1D-NB1	SFR	1	60.1	60.1	60.1	0	0.0	B (67)	None	59.5	0.6	0	58.9	1.2	0	58.6	1.5	0	58.5	1.6	0	–	–	–	–	–	–
M-S1D-NB94	9	Spurgeon St	ESW-17	Seg1D-NB1	SFR	1	57.4	57.4	57.3	0	-0.1	B (67)	None	56.9	0.4	0	56.6	0.7	0	56.6	0.7	0	56.5	0.8	0	–	–	–	–	–	–
M-S1D-NB95	9	Santa Clara Ave/Spurgeon St	ESW-17	Seg1D-NB1	SFR	1	58.0	58.0	57.9	0	-0.1	B (67)	None	57.7	0.2	0	57.0	0.9	0	56.7	1.2	0	56.3	1.6	0	–	–	–	–	–	–
M-S1D-NB96	9	Spurgeon St	ESW-17	Seg1D-NB1	SFR	1	59.6	59.6	59.6	0	0.0	B (67)	None	59.0	0.6	0	58.2	1.4	0	57.7	1.9	0	57.2	2.4	0	–	–	–	–	–	–
M-S1D-NB97	9	Spurgeon St	ESW-17	Seg1D-NB1	SFR	1	57.0	57.0	57.1	0	0.1	B (67)	None	56.0	1.1	0	55.2	1.9	0	54.8	2.3	0	54.7	2.4	0	–	–	–	–	–	–
M-S1D-NB98	9	Spurgeon St	ESW-17	Seg1D-NB1	SFR	1	55.8	55.8	55.9	0	0.1	B (67)	None	54.9	1.0	0	54.2	1.7	0	53.7	2.2	0	53.3	2.6	0	–	–	–	–	–	–
M-S1D-NB99	9	Spurgeon St	ESW-17	Seg1D-NB1	SFR	1	55.5	55.5	55.6	0	0.1	B (67)	None	54.8	0.8	0	54.2	1.4	0	53.8	1.8	0	53.4	2.2	0	–	–	–	–	–	–
M-S1D-NB100	9	Spurgeon St	ESW-17	Seg1D-NB1	SFR	1	57.3	57.3	57.3	0	0.0	B (67)	None	56.3	1.0	0	55.5	1.8	0	55.0	2.3	0	54.7	2.6	0	–	–	–	–	–	–
M-S1D-NB101	9	Spurgeon St	ESW-17	Seg1D-NB1	SFR	1	56.9	56.9	57.0	0	0.1	B (67)	None	55.8	1.2	0	55.3	1.7	0	55.0	2.0	0	54.9	2.1	0	–	–	–	–	–	–
M-S1D-NB102	9	Spurgeon St	ESW-17	Seg1D-NB1	SFR	1	55.7	55.7	55.8	0	0.1	B (67)	None	54.5	1.3	0	54.1	1.7	0	53.8	2.0	0	53.7	2.1	0	–	–	–	–	–	–
M-S1D-NB103	9	Spurgeon St	ESW-17	Seg1D-NB1	SFR	1	56.6	56.6	56.7	0	0.1	B (67)	None	55.2	1.5	0	54.8	1.9	0	54.6	2.1	0	54.6	2.1	0	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-15. Predicted Future Noise and Barrier Analysis (NSA 10) - Seg1D-SB1 – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																					
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)															
														6 feet			8 feet			10 feet			12 feet			14 feet			16 feet		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S1D-SB1	10	Penn Way/Off-ramp	EPW-5	Seg1D-SB1	SFR	1	61.7	61.7	61.6	0	-0.1	B (67)	None	61.5	0.1	0	61.4	0.2	0	61.3	0.3	0	61.2	0.4	0	61.1	0.5	0	61.1	0.5	0
M-S1D-SB2	10	E 15th St/Penn Way	EPW-5	Seg1D-SB1	SFR	1	54.8	54.8	54.8	0	0.0	B (67)	None	55.9	-1.1	0	55.8	-1.0	0	55.7	-0.9	0	55.6	-0.8	0	55.5	-0.7	0	55.5	-0.7	0
M-S1D-SB3	10	E 15th St	EPW-5	Seg1D-SB1	SFR	1	55.9	55.9	55.9	0	0.0	B (67)	None	56.5	-0.6	0	56.3	-0.4	0	56.2	-0.3	0	56.1	-0.2	0	56.0	-0.1	0	55.9	0.0	0
M-S1D-SB4	10	E 15th St	EPW-5	Seg1D-SB1	SFR	1	56.9	56.9	56.6	0	-0.3	B (67)	None	56.1	0.5	0	55.6	1.0	0	55.2	1.4	0	54.9	1.7	0	54.7	1.9	0	54.5	2.1	0
M-S1D-SB5	10	E 15th St	EPW-5	Seg1D-SB1	SFR	1	54.1	54.1	54.1	0	0.0	B (67)	None	54.0	0.1	0	53.9	0.2	0	53.9	0.2	0	53.8	0.3	0	53.8	0.3	0	53.8	0.3	0
M-S1D-SB6	10	Penn Way	EPW-5	Seg1D-SB1	SFR	1	60.1	60.1	60.0	0	-0.1	B (67)	None	59.9	0.1	0	59.8	0.2	0	59.8	0.2	0	59.7	0.3	0	59.7	0.3	0	59.6	0.4	0
M-S1D-SB7	10	Penn Way	EPW-5	Seg1D-SB1	SFR	1	56.9	56.9	57.0	0	0.1	B (67)	None	56.9	0.1	0	56.8	0.2	0	56.7	0.3	0	56.7	0.3	0	56.7	0.3	0	56.6	0.4	0
M-S1D-SB8	10	Penn Way	EPW-5	Seg1D-SB1	SFR	1	63.3	63.3	63.4	0	0.1	B (67)	None	63.3	0.1	0	63.2	0.2	0	63.2	0.2	0	63.1	0.3	0	63.1	0.3	0	63.0	0.4	0
M-S1D-SB9	10	Penn Way	EPW-5	Seg1D-SB1	SFR	1	53.1	53.1	53.4	0	0.3	B (67)	None	53.3	0.1	0	53.2	0.2	0	53.2	0.2	0	53.1	0.3	0	53.0	0.4	0	53.0	0.4	0
M-S1D-SB10	10	Penn Way/16th St	EPW-5	Seg1D-SB1	SFR	1	61.9	61.9	61.8	0	-0.1	B (67)	None	61.7	0.1	0	61.6	0.2	0	61.5	0.3	0	61.5	0.3	0	61.5	0.3	0	61.4	0.4	0
M-S1D-SB11	10	Penn Way/16th St	EPW-5	Seg1D-SB1	SFR	1	61.7	61.7	61.4	0	-0.3	B (67)	None	61.0	0.4	0	60.8	0.6	0	60.7	0.7	0	60.6	0.8	0	60.5	0.9	0	60.5	0.9	0
M-S1D-SB12	10	Penn Way/16th St	EPW-5	Seg1D-SB1	SFR	1	63.0	63.0	62.5	0	-0.5	B (67)	None	62.3	0.2	0	62.1	0.4	0	62.0	0.5	0	61.9	0.6	0	61.9	0.6	0	61.9	0.6	0
M-S1D-SB13	10	Penn Way/16th St	EPW-5	Seg1D-SB1	Apartment	1	69.1	69.1	70.1	0	1.0	B (67)	A/E	70.3	-0.2	0	70.3	-0.2	0	70.2	-0.1	0	70.2	-0.1	0	70.2	-0.1	0	70.1	0.0	0
M-S1D-SB14	10	Penn Way	EPW-5	Seg1D-SB1	Apartment	1	71.3	71.3	72.1	0	0.8	B (67)	A/E	72.1	0.0	0	71.9	0.2	0	71.9	0.2	0	71.8	0.3	0	71.7	0.4	0	71.7	0.4	0
M-S1D-SB15	10	Penn Way	EPW-5	Seg1D-SB1	Apartment	1	73.2	73.2	74.4	0	1.2	B (67)	A/E	73.6	0.8	0	73.2	1.2	0	73.0	1.4	0	72.8	1.6	0	72.7	1.7	0	72.7	1.7	0
M-S1D-SB16	10	Penn Way	EPW-5	Seg1D-SB1	Apartment	1	68.4	68.4	68.0	0	-0.4	B (67)	A/E	68.3	-0.3	0	68.3	-0.3	0	68.2	-0.2	0	68.2	-0.2	0	68.2	-0.2	0	68.2	-0.2	0
M-S1D-SB17	10	Penn Way	EPW-5	Seg1D-SB1	Apartment	1	72.4	72.4	71.2	0	-1.2	B (67)	A/E	71.5	-0.3	0	71.4	-0.2	0	71.4	-0.2	0	71.4	-0.2	0	71.4	-0.2	0	71.3	-0.1	0
M-S1D-SB18	10	Penn Way	EPW-5	Seg1D-SB1	Apartment	1	74.2	74.2	73.1	0	-1.1	B (67)	A/E	73.3	-0.2	0	73.3	-0.2	0	73.2	-0.1	0	73.2	-0.1	0	73.2	-0.1	0	73.2	-0.1	0
M-S1D-SB19	10	Penn Way	EPW-5	Seg1D-SB1	Apartment	1	76.1	76.1	75.0	0	-1.1	B (67)	A/E	74.7	0.3	0	74.5	0.5	0	74.4	0.6	0	74.4	0.6	0	74.3	0.7	0	74.3	0.7	0
M-S1D-SB20	10	15th St/Penn Way	EPW-5	Seg1D-SB1	SFR	1	60.5	60.5	60.5	0	0.0	B (67)	None	60.3	0.2	0	60.1	0.4	0	60.0	0.5	0	60.0	0.5	0	59.9	0.6	0	59.8	0.7	0
M-S1D-SB21	10	16th St	EPW-5	Seg1D-SB1	SFR	1	63.9	63.9	63.8	0	-0.1	B (67)	None	63.6	0.2	0	63.5	0.3	0	63.5	0.3	0	63.4	0.4	0	63.4	0.4	0	63.4	0.4	0
M-S1D-SB22	10	16th St	EPW-5	Seg1D-SB1	SFR	2	60.2	60.2	58.7	0	-1.5	B (67)	None	58.0	0.7	0	57.8	0.9	0	57.7	1.0	0	57.5	1.2	0	57.4	1.3	0	57.3	1.4	0
M-S1D-SB23	10	16th St	EPW-5	Seg1D-SB1	SFR	1	60.5	60.5	59.2	0	-1.3	B (67)	None	58.6	0.6	0	58.5	0.7	0	58.4	0.8	0	58.3	0.9	0	58.2	1.0	0	58.1	1.1	0
M-S1D-SB24	10	16th St	EPW-5	Seg1D-SB1	SFR	1	61.3	61.3	60.6	0	-0.7	B (67)	None	60.2	0.4	0	60.1	0.5	0	60.0	0.6	0	59.9	0.7	0	59.9	0.7	0	59.8	0.8	0
M-S1D-SB25	10	16th St	EPW-5	Seg1D-SB1	SFR	1	59.8	59.8	58.7	0	-1.1	B (67)	None	58.0	0.7	0	57.9	0.8	0	57.7	1.0	0	57.6	1.1	0	57.5	1.2	0	57.3	1.4	0
M-S1D-SB26	10	16th St	EPW-5	Seg1D-SB1	SFR	2	60.1	60.1	59.6	0	-0.5	B (67)	None	59.2	0.4	0	59.1	0.5	0	59.0	0.6	0	58.9	0.7	0	58.8	0.8	0	58.8	0.8	0

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-16. Predicted Future Noise and Barrier Analysis (NSA 10) - Seg1D-SB2-A - Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																					
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)															
														12 feet			14 feet			16 feet			18 feet			20 feet			22 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S1D-SB27	10	17th St	ESW-18	Seg1D-SB2-A	Apartment	2	57.0	57.0	54.2	0	-2.8	B (67)	None	53.9	0.3	0	53.8	0.4	0	53.8	0.4	0	53.7	0.5	0	53.6	0.6	0	53.5	0.7	0
M-S1D-SB28	10	17th St	ESW-18	Seg1D-SB2-A	Apartment	2	56.4	56.4	55.7	0	-0.7	B (67)	None	55	0.7	0	54.9	0.8	0	54.8	0.9	0	54.7	1.0	0	54.6	1.1	0	54.5	1.2	0
M-S1D-SB29	10	17th St	ESW-18	Seg1D-SB2-A	Apartment	5	50.4	50.4	50.5	0	0.1	B (67)	None	50.5	0.0	0	50.6	-0.1	0	50.5	0.0	0	50.4	0.1	0	50.3	0.2	0	50.1	0.4	0
M-S1D-SB30	10	17th St	ESW-18	Seg1D-SB2-A	Apartment	1	65.4	65.4	71.3	0	5.9	B (67)	A/E	66.1	5.2	1	65	6.3	1	64.2	7.1	1	63.6	7.7	1	63.1	8.2	1	62.6	8.7	1
M-S1D-SB31	10	17th St	ESW-18	Seg1D-SB2-A	Apartment	1	68.0	68.0	77.6	0	9.6	B (67)	A/E	68.8	8.8	1	67.1	10.5	1	65.6	12.0	1	64.5	13.1	1	63.6	14.0	1	63.1	14.5	1
M-S1D-SB32	10	N Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	64.3	64.3	70.0	0	5.7	B (67)	A/E	65.4	4.6	1	64	6.0	1	62.8	7.2	1	62	8.0	1	61.2	8.8	1	60.8	9.2	1
M-S1D-SB33	10	N Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	54.3	54.3	56.2	0	1.9	B (67)	None	54.7	1.5	0	53.7	2.5	0	53.8	2.4	0	52.6	3.6	0	51.7	4.5	0	51.1	5.1	1
M-S1D-SB34	10	N Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	2	60.2	60.2	63.9	0	3.7	B (67)	None	60.9	3.0	0	59.6	4.3	0	58.7	5.2	2	58.1	5.8	2	57.7	6.2	2	57.1	6.8	2
M-S1D-SB35	10	N Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	60.4	60.4	66.6	0	6.2	B (67)	A/E	61.2	5.4	1	59.8	6.8	1	58.8	7.8	1	57.7	8.9	1	57.2	9.4	1	56.5	10.1	1
M-S1D-SB36	10	N Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	67.3	67.3	75.7	0	8.4	B (67)	A/E	68.2	7.5	1	66.9	8.8	1	65.9	9.8	1	65	10.7	1	64.4	11.3	1	63.6	12.1	1
M-S1D-SB37	10	N Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	68.1	68.1	77.3	0	9.2	B (67)	A/E	68.9	8.4	1	67.6	9.7	1	66.7	10.6	1	65.7	11.6	1	64.9	12.4	1	64.3	13.0	1
M-S1D-SB38	10	20th St/Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	62.8	62.8	68.0	0	5.2	B (67)	A/E	63.1	4.9	1	61.8	6.2	1	60.6	7.4	1	59.8	8.2	1	59.1	8.9	1	58.6	9.4	1
M-S1D-SB39	10	20th St	ESW-18	Seg1D-SB2-A	Apartment	1	61.3	61.3	61.3	0	0.0	B (67)	None	61.3	0.0	0	61.3	0.0	0	61.3	0.0	0	61.2	0.1	0	61.1	0.2	0	61.1	0.2	0
M-S1D-SB40	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	66.6	66.6	66.6	0	0.0	B (67)	A/E	66.6	0.0	0	66.6	0.0	0	66.6	0.0	0	66.6	0.0	0	66.6	0.0	0	66.6	0.0	0
M-S1D-SB41	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	67.4	67.4	67.4	0	0.0	B (67)	A/E	67.4	0.0	0	67.4	0.0	0	67.4	0.0	0	67.4	0.0	0	67.4	0.0	0	67.4	0.0	0
M-S1D-SB42	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	66.8	66.8	66.9	0	0.1	B (67)	A/E	66.9	0.0	0	66.9	0.0	0	66.9	0.0	0	66.9	0.0	0	66.9	0.0	0	66.9	0.0	0
M-S1D-SB43	10	Bush St	ESW-18	Seg1D-SB2-B	Apartment	2	64.0	64.0	63.9	0	-0.1	B (67)	None	63.9	0.0	0	63.9	0.0	0	63.9	0.0	0	63.9	0.0	0	63.9	0.0	0	63.9	0.0	0
M-S1D-SB44	10	Bush St	ESW-18	Seg1D-SB2-B	Apartment	2	71.5	71.5	71.2	0	-0.3	B (67)	A/E	71.2	0.0	0	71.2	0.0	0	71.2	0.0	0	71.2	0.0	0	71.2	0.0	0	71.2	0.0	0
M-S1D-SB45	10	Bush St	ESW-18	Seg1D-SB2-B	Apartment	2	57.3	57.3	57.2	0	-0.1	B (67)	None	57.3	-0.1	0	57.3	-0.1	0	57.3	-0.1	0	57.3	-0.1	0	57.2	0.0	0	57.2	0.0	0
M-S1D-SB46	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	55.1	55.1	55.1	0	0.0	B (67)	None	55.1	0.0	0	55.1	0.0	0	55.1	0.0	0	55.1	0.0	0	55.1	0.0	0	55.1	0.0	0
M-S1D-SB47	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	54.2	54.2	54.1	0	-0.1	B (67)	None	54.2	-0.1	0	54.3	-0.2	0	54.4	-0.3	0	54.5	-0.4	0	54.6	-0.5	0	54.8	-0.7	0
M-S1D-SB48	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	52.6	52.6	52.6	0	0.0	B (67)	None	52.6	0.0	0	52.6	0.0	0	52.6	0.0	0	52.6	0.0	0	52.6	0.0	0	52.7	-0.1	0
M-S1D-SB49	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	51.7	51.7	51.7	0	0.0	B (67)	None	51.7	0.0	0	51.7	0.0	0	51.7	0.0	0	51.7	0.0	0	51.7	0.0	0	51.7	0.0	0
M-S1D-SB50	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	51.2	51.2	51.4	0	0.2	B (67)	None	51.3	0.1	0	51.4	0.0	0	51.5	-0.1	0	52	-0.6	0	52.6	-1.2	0	53.5	-2.1	0
M-S1D-SB51	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	50.3	50.3	50.3	0	0.0	B (67)	None	50.3	0.0	0	50.3	0.0	0	50.3	0.0	0	50.3	0.0	0	50.3	0.0	0	50.4	-0.1	0
M-S1D-SB52	10	Bush St/20th St	ESW-18	Seg1D-SB2-B	SFR	1	53.2	53.2	53.4	0	0.2	B (67)	None	53.2	0.2	0	53.1	0.3	0	53.2	0.2	0	53.1	0.3	0	53.4	0.0	0	53.3	0.1	0
M-S1D-SB53	10	20th St/Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	61.1	61.1	67.7	0	6.6	B (67)	A/E	61.3	6.4	1	60.2	7.5	1	59.3	8.4	1	58.7	9.0	1	58.1	9.6	1	57.7	10.0	1
M-S1D-SB54	10	Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	2	63.3	63.3	70.7	0	7.4	B (67)	A/E	63.3	7.4	2	62.2	8.5	2	61.2	9.5	2	60.1	10.6	2	59.9	10.8	2	60.2	10.5	2
M-S1D-SB55	10	Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	2	66.3	66.3	69.9	0	3.6	B (67)	A/E	66	3.9	0	64.8	5.1	2	64.5	5.4	2	63.2	6.7	2	62.4	7.5	2	61.4	8.5	2
M-S1D-SB56	10	Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	3	59.8	59.8	65.2	0	5.4	B (67)	None	59.8	5.4	3	59.1	6.1	3	58.4	6.8	3	57.6	7.6	3	57.6	7.6	3	57.4	7.8	3
M-S1D-SB57	10	Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	3	64.0	64.0	68.2	0	4.2	B (67)	A/E	63.7	4.5	0	62.4	5.8	3	62	6.2	3	61.5	6.7	3	60.6	7.6	3	59.9	8.3	3
M-S1D-SB58	10	Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	55.2	55.2	57.4	0	2.2	B (67)	None	55.3	2.1	0	54.6	2.8	0	54	3.4	0	53.3	4.1	0	52.9	4.5	0	52.7	4.7	0
M-S1D-SB59	10	Spurgeon St	ESW-18	Seg1D-SB2-A	SFR	1	54.9	54.9	57.2	0	2.3	B (67)	None	54.2	3.0	0	54	3.2	0	53.7	3.5	0	53.5	3.7	0	53.4	3.8	0	53.4	3.8	0
M-S1D-SB60	10	Spurgeon St	ESW-18	Seg1D-SB2-A	SFR	1	58.0	58.0	56.4	0	-1.6	B (67)	None	55.1	1.3	0	55	1.4	0	54.8	1.6	0	54.7	1.7	0	54.6	1.8	0	54.7	1.7	0
M-S1D-SB61	10	Spurgeon St	ESW-18	Seg1D-SB2-A	SFR	1	59.4	59.4	57.4	0	-2.0	B (67)	None	56	1.4	0	55.9	1.5	0	55.8	1.6	0	55.8	1.6	0	55.7	1.7	0	55.7	1.7	0
M-S1D-SB62	10	20th St	ESW-18	Seg1D-SB2-A	SFR	1	58.8	58.8	63.8	0	5.0	B (67)	None	58.8	5.0	1	58	5.8	1	57.2	6.6	1	56.6	7.2	1	56.2	7.6	1	55.9	7.9	1
M-S1D-SB63	10	20th St	ESW-18	Seg1D-SB2-A	SFR	1	56.6	56.6	61.1	0	4.5	B (67)	None	56.8	4.3	0	56	5.1	1	55.1	6.0	1	54.5	6.6	1	54	7.1	1	53.6	7.5	1

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-17. Predicted Future Noise and Barrier Analysis (NSA 10) - Seg1D-SB2-A and Seg1D-SB2-B - Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														12 feet			14 feet			16 feet			18 feet			20 feet			22 feet		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S1D-SB27	10	17th St	ESW-18	Seg1D-SB2-A	Apartment	2	57.0	57.0	54.2	0	-2.8	B (67)	None	53.9	0.3	0	53.8	0.4	0	53.8	0.4	0	53.7	0.5	0	53.6	0.6	0	53.5	0.7	0
M-S1D-SB28	10	17th St	ESW-18	Seg1D-SB2-A	Apartment	2	56.4	56.4	55.7	0	-0.7	B (67)	None	55.0	0.7	0	54.9	0.8	0	54.8	0.9	0	54.7	1.0	0	54.6	1.1	0	54.5	1.2	0
M-S1D-SB29	10	17th St	ESW-18	Seg1D-SB2-A	Apartment	5	50.4	50.4	50.5	0	0.1	B (67)	None	50.5	0.0	0	50.5	0.0	0	50.5	0.0	0	50.4	0.1	0	50.2	0.3	0	50.0	0.5	0
M-S1D-SB30	10	17th St	ESW-18	Seg1D-SB2-A	Apartment	1	65.4	65.4	71.3	0	5.9	B (67)	A/E	66.1	5.2	1	65.0	6.3	1	64.2	7.1	1	63.6	7.7	1	63.1	8.2	1	62.6	8.7	1
M-S1D-SB31	10	17th St	ESW-18	Seg1D-SB2-A	Apartment	1	68.0	68.0	77.6	0	9.6	B (67)	A/E	68.8	8.8	1	67.1	10.5	1	65.6	12.0	1	64.5	13.1	1	63.6	14.0	1	63.0	14.6	1
M-S1D-SB32	10	N Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	64.3	64.3	70.0	0	5.7	B (67)	A/E	65.4	4.6	0	64.1	5.9	1	62.8	7.2	1	62.0	8.0	1	61.2	8.8	1	60.8	9.2	1
M-S1D-SB33	10	N Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	54.3	54.3	56.2	0	1.9	B (67)	None	54.7	1.5	0	53.7	2.5	0	53.8	2.4	0	52.5	3.7	0	51.7	4.5	0	51.1	5.1	1
M-S1D-SB34	10	N Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	2	60.2	60.2	63.9	0	3.7	B (67)	None	60.9	3.0	0	59.6	4.3	0	58.6	5.3	2	58.0	5.9	2	57.7	6.2	2	57.0	6.9	2
M-S1D-SB35	10	N Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	60.4	60.4	66.6	0	6.2	B (67)	A/E	61.2	5.4	1	59.8	6.8	1	58.8	7.8	1	57.7	8.9	1	57.1	9.5	1	56.4	10.2	1
M-S1D-SB36	10	N Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	67.3	67.3	75.7	0	8.4	B (67)	A/E	68.2	7.5	1	66.9	8.8	1	65.9	9.8	1	65.0	10.7	1	64.4	11.3	1	63.6	12.1	1
M-S1D-SB37	10	N Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	68.1	68.1	77.3	0	9.2	B (67)	A/E	68.9	8.4	1	67.6	9.7	1	66.7	10.6	1	65.7	11.6	1	64.9	12.4	1	64.3	13.0	1
M-S1D-SB38	10	20th St/Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	62.8	62.8	68.0	0	5.2	B (67)	A/E	63.1	4.9	0	61.8	6.2	1	60.6	7.4	1	59.7	8.3	1	59.0	9.0	1	58.5	9.5	1
M-S1D-SB39	10	20th St	ESW-18	Seg1D-SB2-A	Apartment	1	61.3	61.3	61.3	0	0.0	B (67)	None	61.3	0.0	0	60.7	0.6	0	60.1	1.2	0	59.4	1.9	0	58.8	2.5	0	58.1	3.2	0
M-S1D-SB40	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	66.6	66.6	66.6	0	0.0	B (67)	A/E	66.6	0.0	0	65.6	1.0	0	64.7	1.9	0	63.9	2.7	0	63.0	3.6	0	62.5	4.1	0
M-S1D-SB41	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	67.4	67.4	67.4	0	0.0	B (67)	A/E	67.4	0.0	0	66.3	1.1	0	65.4	2.0	0	64.5	2.9	0	63.8	3.6	0	62.9	4.5	0
M-S1D-SB42	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	66.8	66.8	66.9	0	0.1	B (67)	A/E	66.9	0.0	0	65.6	1.3	0	64.8	2.1	0	64.0	2.9	0	63.0	3.9	0	62.1	4.8	0
M-S1D-SB43	10	Bush St	ESW-18	Seg1D-SB2-B	Apartment	2	64.0	64.0	63.9	0	-0.1	B (67)	None	63.9	0.0	0	62.8	1.1	0	62.0	1.9	0	61.2	2.7	0	60.6	3.3	0	60.2	3.7	0
M-S1D-SB44	10	Bush St	ESW-18	Seg1D-SB2-B	Apartment	2	71.5	71.5	71.2	0	-0.3	B (67)	A/E	71.2	0.0	0	70.2	1.0	0	68.1	3.1	0	66.6	4.6	0	65.8	5.4	2	64.5	6.7	2
M-S1D-SB45	10	Bush St	ESW-18	Seg1D-SB2-B	Apartment	2	57.3	57.3	57.2	0	-0.1	B (67)	None	57.3	-0.1	0	56.8	0.4	0	56.4	0.8	0	56.0	1.2	0	55.5	1.7	0	55.1	2.1	0
M-S1D-SB46	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	55.1	55.1	55.1	0	0.0	B (67)	None	55.1	0.0	0	55.2	-0.1	0	54.8	0.3	0	54.6	0.5	0	54.1	1.0	0	54.0	1.1	0
M-S1D-SB47	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	54.2	54.2	54.1	0	-0.1	B (67)	None	54.2	-0.1	0	54.2	-0.1	0	54.1	0.0	0	54.1	0.0	0	54.0	0.1	0	54.0	0.1	0
M-S1D-SB48	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	52.6	52.6	52.6	0	0.0	B (67)	None	52.6	0.0	0	52.5	0.1	0	52.3	0.3	0	52.1	0.5	0	51.9	0.7	0	51.8	0.8	0
M-S1D-SB49	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	51.7	51.7	51.7	0	0.0	B (67)	None	51.7	0.0	0	51.6	0.1	0	51.5	0.2	0	51.3	0.4	0	51.1	0.6	0	51.1	0.6	0
M-S1D-SB50	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	51.2	51.2	51.4	0	0.2	B (67)	None	51.3	0.1	0	51.3	0.1	0	51.3	0.1	0	51.8	-0.4	0	52.4	-1.0	0	53.3	-1.9	0
M-S1D-SB51	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	50.3	50.3	50.3	0	0.0	B (67)	None	50.3	0.0	0	50.3	0.0	0	50.2	0.1	0	50.1	0.2	0	49.9	0.4	0	49.7	0.6	0
M-S1D-SB52	10	Bush St/20th St	ESW-18	Seg1D-SB2-B	SFR	1	53.2	53.2	53.4	0	0.2	B (67)	None	53.2	0.2	0	53.1	0.3	0	53.1	0.3	0	53.1	0.3	0	53.4	0.0	0	53.1	0.3	0
M-S1D-SB53	10	20th St/Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	61.1	61.1	67.7	0	6.6	B (67)	A/E	61.3	6.4	1	60.1	7.6	1	59.2	8.5	1	58.5	9.2	1	57.9	9.8	1	57.4	10.3	1
M-S1D-SB54	10	Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	2	63.3	63.3	70.7	0	7.4	B (67)	A/E	63.3	7.4	2	62.2	8.5	2	61.1	9.6	2	60.0	10.7	2	59.9	10.8	2	60.2	10.5	2
M-S1D-SB55	10	Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	2	66.3	66.3	69.9	0	3.6	B (67)	A/E	66.0	3.9	0	64.7	5.2	2	64.4	5.5	2	62.9	7.0	2	62.0	7.9	2	60.9	9.0	2
M-S1D-SB56	10	Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	3	59.8	59.8	65.2	0	5.4	B (67)	None	59.8	5.4	3	59.0	6.2	3	58.2	7.0	3	57.4	7.8	3	57.3	7.9	3	57.0	8.2	3
M-S1D-SB57	10	Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	3	64.0	64.0	68.2	0	4.2	B (67)	A/E	63.7	4.5	0	62.2	6.0	3	61.8	6.4	3	61.1	7.1	3	60.2	8.0	3	59.4	8.8	3
M-S1D-SB58	10	Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	55.2	55.2	57.4	0	2.2	B (67)	None	55.3	2.1	0	54.6	2.8	0	53.9	3.5	0	53.3	4.1	0	52.8	4.6	0	52.6	4.8	0
M-S1D-SB59	10	Spurgeon St	ESW-18	Seg1D-SB2-A	SFR	1	54.9	54.9	57.2	0	2.3	B (67)	None	54.2	3.0	0	53.9	3.3	0	53.7	3.5	0	53.4	3.8	0	53.2	4.0	0	53.3	3.9	0
M-S1D-SB60	10	Spurgeon St	ESW-18	Seg1D-SB2-A	SFR	1	58.0	58.0	56.4	0	-1.6	B (67)	None	55.1	1.3	0	54.9	1.5	0	54.8	1.6	0	54.7	1.7	0	54.6	1.8	0	54.6	1.8	0
M-S1D-SB61	10	Spurgeon St	ESW-18	Seg1D-SB2-A	SFR	1	59.4	59.4	57.4	0	-2.0	B (67)	None	56.0	1.4	0	55.9	1.5	0	55.8	1.6	0	55.8	1.6	0	55.7	1.7	0	55.7	1.7	0
M-S1D-SB62	10	20th St	ESW-18	Seg1D-SB2-A	SFR	1	58.8	58.8	63.8	0	5.0	B (67)	None	58.8	5.0	1	57.9	5.9	1	56.9	6.9	1	56.1	7.7	1	55.5	8.3	1	54.9	8.9	1
M-S1D-SB63	10	20th St	ESW-18	Seg1D-SB2-A	SFR	1	56.6	56.6	61.1	0	4.5	B (67)	None	56.8	4.3	0	55.9	5.2	1	54.9	6.2	1	54.3	6.8	1	53.7	7.4	1	53.3	7.8	1

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-18. Predicted Future Noise and Barrier Analysis (NSA 10) – Seg1D-SB1, Seg1D-SB2-A and Seg1D-SB2-B - Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																					
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)															
														12 feet			14 feet			16 feet			18 feet			20 feet			22 feet		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S1D-SB1	10	Penn Way/Off-ramp	EPW-5	Seg1D-SB1	SFR	1	61.7	61.7	61.6	0	-0.1	66	None	61.1	0.5	0	61.0	0.6	0	60.9	0.7	0	60.9	0.7	0	60.9	0.7	0	60.8	0.8	0
M-S1D-SB2	10	E 15th St/Penn Way	EPW-5	Seg1D-SB1	SFR	1	54.8	54.8	54.8	0	0.0	66	None	55.3	-0.5	0	55.2	-0.4	0	55.2	-0.4	0	55.1	-0.3	0	55.0	-0.2	0	55.0	-0.2	0
M-S1D-SB3	10	E 15th St	EPW-5	Seg1D-SB1	SFR	1	55.9	55.9	55.9	0	0.0	66	None	55.8	0.1	0	55.7	0.2	0	55.5	0.4	0	55.4	0.5	0	55.3	0.6	0	55.3	0.6	0
M-S1D-SB4	10	E 15th St	EPW-5	Seg1D-SB1	SFR	1	56.9	56.9	56.6	0	-0.3	66	None	54.8	1.8	0	54.6	2.0	0	54.4	2.2	0	54.2	2.4	0	54.0	2.6	0	53.9	2.7	0
M-S1D-SB5	10	E 15th St	EPW-5	Seg1D-SB1	SFR	1	54.1	54.1	54.1	0	0.0	66	None	53.8	0.3	0	53.7	0.4	0	53.7	0.4	0	53.7	0.4	0	53.7	0.4	0	53.6	0.5	0
M-S1D-SB6	10	Penn Way	EPW-5	Seg1D-SB1	SFR	1	60.1	60.1	60.0	0	-0.1	66	None	59.7	0.3	0	59.6	0.4	0	59.6	0.4	0	59.5	0.5	0	59.5	0.5	0	59.5	0.5	0
M-S1D-SB7	10	Penn Way	EPW-5	Seg1D-SB1	SFR	1	56.9	56.9	57.0	0	0.1	66	None	56.7	0.3	0	56.6	0.4	0	56.6	0.4	0	56.6	0.4	0	56.5	0.5	0	56.5	0.5	0
M-S1D-SB8	10	Penn Way	EPW-5	Seg1D-SB1	SFR	1	63.3	63.3	63.4	0	0.1	66	None	63.1	0.3	0	63.0	0.4	0	63.0	0.4	0	63.0	0.4	0	63.0	0.4	0	62.9	0.5	0
M-S1D-SB9	10	Penn Way	EPW-5	Seg1D-SB1	SFR	1	53.1	53.1	53.4	0	0.3	66	None	53.1	0.3	0	53.0	0.4	0	52.9	0.5	0	52.9	0.5	0	52.8	0.6	0	52.8	0.6	0
M-S1D-SB10	10	Penn Way/16th St	EPW-5	Seg1D-SB1	SFR	1	61.9	61.9	61.8	0	-0.1	66	None	60.9	0.9	0	60.8	1.0	0	60.8	1.0	0	60.8	1.0	0	60.7	1.1	0	60.6	1.2	0
M-S1D-SB11	10	Penn Way/16th St	EPW-5	Seg1D-SB1	SFR	1	61.7	61.7	61.4	0	-0.3	66	None	60.2	1.2	0	60.1	1.3	0	60.0	1.4	0	59.9	1.5	0	59.9	1.5	0	59.8	1.6	0
M-S1D-SB12	10	Penn Way/16th St	EPW-5	Seg1D-SB1	SFR	1	63.0	63.0	62.5	0	-0.5	66	None	61.3	1.2	0	61.3	1.2	0	61.3	1.2	0	61.2	1.3	0	61.2	1.3	0	61.1	1.4	0
M-S1D-SB13	10	Penn Way/16th St	EPW-5	Seg1D-SB1	Apartment	1	69.1	69.1	70.1	0	1.0	66	A/E	67.3	2.8	0	67.3	2.8	0	67.2	2.9	0	67.2	2.9	0	67.1	3.0	0	67.1	3.0	0
M-S1D-SB14	10	Penn Way	EPW-5	Seg1D-SB1	Apartment	1	71.3	71.3	72.1	0	0.8	66	A/E	69.5	2.6	0	69.4	2.7	0	69.4	2.7	0	69.4	2.7	0	69.3	2.8	0	69.3	2.8	0
M-S1D-SB15	10	Penn Way	EPW-5	Seg1D-SB1	Apartment	1	73.2	73.2	74.4	0	1.2	66	A/E	71.3	3.1	0	71.2	3.2	0	71.2	3.2	0	71.1	3.3	0	71.1	3.3	0	71.1	3.3	0
M-S1D-SB16	10	Penn Way	EPW-5	Seg1D-SB1	Apartment	1	68.4	68.4	68.0	0	-0.4	66	A/E	67.0	1.0	0	66.9	1.1	0	66.9	1.1	0	66.8	1.2	0	66.8	1.2	0	66.8	1.2	0
M-S1D-SB17	10	Penn Way	EPW-5	Seg1D-SB1	Apartment	1	72.4	72.4	71.2	0	-1.2	66	A/E	70.4	0.8	0	70.3	0.9	0	70.3	0.9	0	70.3	0.9	0	70.2	1.0	0	70.2	1.0	0
M-S1D-SB18	10	Penn Way	EPW-5	Seg1D-SB1	Apartment	1	74.2	74.2	73.1	0	-1.1	66	A/E	72.2	0.9	0	72.1	1.0	0	72.1	1.0	0	72.1	1.0	0	72.0	1.1	0	72.0	1.1	0
M-S1D-SB19	10	Penn Way	EPW-5	Seg1D-SB1	Apartment	1	76.1	76.1	75.0	0	-1.1	66	A/E	73.6	1.4	0	73.5	1.5	0	73.5	1.5	0	73.4	1.6	0	73.4	1.6	0	73.4	1.6	0
M-S1D-SB20	10	15th St/Penn Way	EPW-5	Seg1D-SB1	SFR	1	60.5	60.5	60.5	0	0.0	66	None	60.0	0.5	0	59.9	0.6	0	59.8	0.7	0	59.7	0.8	0	59.7	0.8	0	59.6	0.9	0
M-S1D-SB21	10	16th St	EPW-5	Seg1D-SB1	SFR	1	63.9	63.9	63.8	0	-0.1	66	None	62.8	1.0	0	62.7	1.1	0	62.7	1.1	0	62.6	1.2	0	62.6	1.2	0	62.6	1.2	0
M-S1D-SB22	10	16th St	EPW-5	Seg1D-SB1	SFR	2	60.2	60.2	58.7	0	-1.5	66	None	56.9	1.8	0	56.8	1.9	0	56.7	2.0	0	56.6	2.1	0	56.5	2.2	0	56.5	2.2	0
M-S1D-SB23	10	16th St	EPW-5	Seg1D-SB1	SFR	1	60.5	60.5	59.2	0	-1.3	66	None	57.8	1.4	0	57.7	1.5	0	57.6	1.6	0	57.5	1.7	0	57.5	1.7	0	57.5	1.7	0
M-S1D-SB24	10	16th St	EPW-5	Seg1D-SB1	SFR	1	61.3	61.3	60.6	0	-0.7	66	None	59.5	1.1	0	59.4	1.2	0	59.4	1.2	0	59.3	1.3	0	59.3	1.3	0	59.2	1.4	0
M-S1D-SB25	10	16th St	EPW-5	Seg1D-SB1	SFR	1	59.8	59.8	58.7	0	-1.1	66	None	57.1	1.6	0	56.9	1.8	0	56.7	2.0	0	56.6	2.1	0	56.4	2.3	0	56.3	2.4	0
M-S1D-SB26	10	16th St	EPW-5	Seg1D-SB1	SFR	2	60.1	60.1	59.6	0	-0.5	66	None	58.4	1.2	0	58.3	1.3	0	58.2	1.4	0	58.2	1.4	0	58.2	1.4	0	58.1	1.5	0
M-S1D-SB27	10	17th St	ESW-18	Seg1D-SB2-A	Apartment	2	57.0	57.0	54.2	0	-2.8	66	None	53.9	0.3	0	53.7	0.5	0	53.6	0.6	0	53.4	0.8	0	53.3	0.9	0	53.1	1.1	0
M-S1D-SB28	10	17th St	ESW-18	Seg1D-SB2-A	Apartment	2	56.4	56.4	55.7	0	-0.7	66	None	53.8	1.9	0	53.5	2.2	0	53.1	2.6	0	52.8	2.9	0	52.5	3.2	0	52.3	3.4	0
M-S1D-SB29	10	17th St	ESW-18	Seg1D-SB2-A	Apartment	5	50.4	50.4	50.5	0	0.1	66	None	50.0	0.5	0	49.7	0.8	0	49.5	1.0	0	49.3	1.2	0	48.9	1.6	0	48.5	2.0	0
M-S1D-SB30	10	17th St	ESW-18	Seg1D-SB2-A	Apartment	1	65.4	65.4	71.3	0	5.9	66	A/E	66.1	5.2	1	65.0	6.3	1	64.2	7.1	1	63.6	7.7	1	63.1	8.2	1	62.5	8.8	1
M-S1D-SB31	10	17th St	ESW-18	Seg1D-SB2-A	Apartment	1	68.0	68.0	77.6	0	9.6	66	A/E	68.8	8.8	1	67.0	10.6	1	65.5	12.1	1	64.4	13.2	1	63.5	14.1	1	62.9	14.7	1
M-S1D-SB32	10	N Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	64.3	64.3	70.0	0	5.7	66	None	65.4	4.6	0	64.1	5.9	1	62.8	7.2	1	62.0	8.0	1	61.2	8.8	1	60.8	9.2	1
M-S1D-SB33	10	N Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	54.3	54.3	56.2	0	1.9	66	None	54.7	1.5	0	53.7	2.5	0	53.7	2.5	0	52.4	3.8	0	51.5	4.7	0	50.9	5.3	1
M-S1D-SB34	10	N Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	2	60.2	60.2	63.9	0	3.7	66	None	60.9	3.0	0	59.6	4.3	0	58.6	5.3	2	58.0	5.9	2	57.7	6.2	2	57.0	6.9	2
M-S1D-SB35	10	N Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	60.4	60.4	66.6	0	6.2	66	A/E	61.2	5.4	1	59.8	6.8	1	58.8	7.8	1	57.7	8.9	1	57.1	9.5	1	56.4	10.2	1
M-S1D-SB36	10	N Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	67.3	67.3	75.7	0	8.4	66	A/E	68.2	7.5	1	66.9	8.8	1	65.9	9.8	1	65.0	10.7	1	64.4	11.3	1	63.6	12.1	1
M-S1D-SB37	10	N Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	68.1	68.1	77.3	0	9.2	66	A/E	68.9	8.4	1	67.6	9.7	1	66.7	10.6	1	65.7	11.6	1	64.9	12.4	1	64.3	13.0	1
M-S1D-SB38	10	20th St/Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	62.8	62.8	68.0	0	5.2	66	A/E	63.1	4.9	0	61.8	6.2	1	60.6	7.4	1	59.7	8.3	1	59.0	9.0	1	58.5	9.5	1
M-S1D-SB39	10	20th St	ESW-18	Seg1D-SB2-A	Apartment	1	61.3	61.3	61.3	0	0.0	66	None	61.3	0.0	0	60.7	0.6	0	60.1	1.2	0	59.4	1.9	0	58.8	2.5	0	58.1	3.2	0
M-S1D-SB40	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	66.6	66.6	66.6	0	0.0	66	A/E	66.6	0.0	0	65.6	1.0	0	64.7	1.9	0	63.9	2.7	0	63.0	3.6	0	62.5	4.1	0
M-S1D-SB41	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	67.4	67.4	67.4	0	0.0	66	A/E	67.4	0.0	0	66.3	1.1	0	65.4	2.0	0	64.5	2.9	0	63.8	3.6	0	62.9	4.5	0
M-S1D-SB42	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	66.8	66.8	66.9	0	0.1	66	A/E	66.9	0.0	0	65.6	1.3	0	64.8	2.1	0	64.0	2.9	0	63.0	3.9	0	62.1	4.8	0
M-S1D-SB43	10	Bush St	ESW-18	Seg1D-SB2-B	Apartment	2	64.0	64.0	63.9	0	-0.1	66	A/E	63.9	0.0	0	62.8	1.1	0	62.0	1.9	0	61.2	2.7	0	60.6	3.3	0	60.2	3.7	0
M-S1D-SB44	10	Bush St	ESW-18	Seg1D-SB2-B	Apartment	2	71.5	71.5	71.2	0	-0.3	66	A/E	71.2	0.0	0	70.2	1.0	0	68.1	3.1	0	66.6	4.6	0	65.8	5.4	2	64.5	6.7	2
M-S1D-SB45	10	Bush St	ESW-18	Seg1D-SB2-B	Apartment	2	57.3	57.3	57.2	0	-0.1	66	None	57.3	-0.1	0	56.8	0.4	0	56.4	0.8	0	56.0	1.2	0	55.5	1.7	0	55.1	2.1	0
M-S1D-SB46	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	55.1	55.1	55.1	0	0.0	66	None	55.1	0.0	0	55.2	-0.1	0	54.8	0.3	0	54.6	0.5	0	54.1	1.0	0	54.0	1.1	0

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																									
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														12 feet			14 feet			16 feet			18 feet			20 feet			22 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S1D-SB47	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	54.2	54.2	54.1	0	-0.1	66	None	54.2	-0.1	0	54.2	-0.1	0	54.1	0.0	0	54.1	0.0	0	54.0	0.1	0	54.0	0.1	0
M-S1D-SB48	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	52.6	52.6	52.6	0	0.0	66	None	52.6	0.0	0	52.5	0.1	0	52.3	0.3	0	52.1	0.5	0	51.9	0.7	0	51.8	0.8	0
M-S1D-SB49	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	51.7	51.7	51.7	0	0.0	66	None	51.7	0.0	0	51.6	0.1	0	51.5	0.2	0	51.3	0.4	0	51.1	0.6	0	51.1	0.6	0
M-S1D-SB50	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	51.2	51.2	51.4	0	0.2	66	None	51.2	0.2	0	51.3	0.1	0	51.5	-0.1	0	52.0	-0.6	0	52.6	-1.2	0	53.4	-2.0	0
M-S1D-SB51	10	Bush St	ESW-18	Seg1D-SB2-B	SFR	1	50.3	50.3	50.3	0	0.0	66	None	50.3	0.0	0	50.3	0.0	0	50.2	0.1	0	50.1	0.2	0	49.9	0.4	0	49.8	0.5	0
M-S1D-SB52	10	Bush St/20th St	ESW-18	Seg1D-SB2-B	SFR	1	53.2	53.2	53.4	0	0.2	66	None	53.2	0.2	0	53.2	0.2	0	53.2	0.2	0	53.1	0.3	0	53.4	0.0	0	53.1	0.3	0
M-S1D-SB53	10	20th St/Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	61.1	61.1	67.7	0	6.6	66	A/E	61.3	6.4	1	60.1	7.6	1	59.2	8.5	1	58.5	9.2	1	57.9	9.8	1	57.4	10.3	1
M-S1D-SB54	10	Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	2	63.3	63.3	70.7	0	7.4	66	A/E	63.3	7.4	2	62.2	8.5	2	61.1	9.6	2	60.0	10.7	2	59.9	10.8	2	60.1	10.6	2
M-S1D-SB55	10	Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	2	66.3	66.3	69.9	0	3.6	66	A/E	66.0	3.9	0	64.7	5.2	2	64.4	5.5	2	62.9	7.0	2	62.0	7.9	2	60.8	9.1	2
M-S1D-SB56	10	Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	3	59.8	59.8	65.2	0	5.4	66	None	59.8	5.4	3	59.0	6.2	3	58.2	7.0	3	57.3	7.9	3	57.2	8.0	3	57.0	8.2	3
M-S1D-SB57	10	Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	3	64.0	64.0	68.2	0	4.2	66	A/E	63.7	4.5	0	62.2	6.0	3	61.8	6.4	3	61.1	7.1	3	60.1	8.1	3	59.2	9.0	3
M-S1D-SB58	10	Spurgeon St	ESW-18	Seg1D-SB2-A	Apartment	1	55.2	55.2	57.4	0	2.2	66	None	55.3	2.1	0	54.6	2.8	0	53.9	3.5	0	53.2	4.2	0	52.7	4.7	0	52.4	5.0	1
M-S1D-SB59	10	Spurgeon St	ESW-18	Seg1D-SB2-A	SFR	1	54.9	54.9	57.2	0	2.3	66	None	54.1	3.1	0	53.8	3.4	0	53.4	3.8	0	53.1	4.1	0	52.9	4.3	0	52.9	4.3	0
M-S1D-SB60	10	Spurgeon St	ESW-18	Seg1D-SB2-A	SFR	1	58.0	58.0	56.4	0	-1.6	66	None	55.1	1.3	0	54.9	1.5	0	54.8	1.6	0	54.6	1.8	0	54.5	1.9	0	54.5	1.9	0
M-S1D-SB61	10	Spurgeon St	ESW-18	Seg1D-SB2-A	SFR	1	59.4	59.4	57.4	0	-2.0	66	None	56.0	1.4	0	55.9	1.5	0	55.8	1.6	0	55.7	1.7	0	55.6	1.8	0	55.5	1.9	0
M-S1D-SB62	10	20th St	ESW-18	Seg1D-SB2-A	SFR	1	58.8	58.8	63.8	0	5.0	66	None	58.8	5.0	1	57.9	5.9	1	56.9	6.9	1	56.1	7.7	1	55.5	8.3	1	54.9	8.9	1
M-S1D-SB63	10	20th St	ESW-18	Seg1D-SB2-A	SFR	1	56.6	56.6	61.1	0	4.5	66	None	56.8	4.3	0	55.9	5.2	1	54.9	6.2	1	54.3	6.8	1	53.7	7.4	1	53.3	7.8	1

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-19. Predicted Future Noise and Barrier Analysis (NSA 11) - Seg1E-NB1 – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)									–			–			–		
														18 feet			20 feet			22 feet										
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S1E-NB1	11	Main St/Main Place Dr	EWS-19		Hotel Pool	1	64.4	64.4	64.4	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1E-NB2	11	Flower St	ESW-20	Seg1E-NB1	Apartment	2	69.1	69.1	70.1	0	1.0	B (67)	A/E	68.4	1.7	0	66.9	3.2	0	65.8	4.3	0	–	–	–	–	–	–	–	–	–
M-S1E-NB3	11	Flower St	ESW-20	Seg1E-NB1	Apartment	2	68.7	68.7	69.8	0	1.1	B (67)	A/E	67.8	2	0	66.4	3.4	0	65.1	4.7	0	–	–	–	–	–	–	–	–	–
M-S1E-NB4	11	Flower St	ESW-20	Seg1E-NB1	Apartment	2	67.8	67.8	68.9	0	1.1	B (67)	A/E	67	1.9	0	65.6	3.3	0	64.4	4.5	0	–	–	–	–	–	–	–	–	–
M-S1E-NB5	11	Flower St	ESW-20	Seg1E-NB1	Apartment	2	67.7	67.7	68.6	0	0.9	B (67)	A/E	66.9	1.7	0	65.6	3	0	64.4	4.2	0	–	–	–	–	–	–	–	–	–
M-S1E-NB6	11	Flower St	ESW-20	Seg1E-NB1	Apartment	2	67.3	67.3	68.2	0	0.9	B (67)	A/E	66.8	1.4	0	65.8	2.4	0	65	3.2	0	–	–	–	–	–	–	–	–	–
M-S1E-NB7	11	Flower St	ESW-20	Seg1E-NB1	Apartment	2	67.9	67.9	68.4	0	0.5	B (67)	A/E	67.6	0.8	0	66.9	1.5	0	66.5	1.9	0	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-20. Predicted Future Noise and Barrier Analysis (NSA 12) - Seg1E-SB1 – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																
														14 feet			16 feet			18 feet			20 feet			22 feet			–		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S1E-SB1	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	1	63.3	63.3	63.4	0	0.1	B (67)	None	62.7	0.7	0	62.4	1.0	0	62.3	1.1	0	62.1	1.3	0	62.0	1.4	0	–	–	–
M-S1E-SB2	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	1	63.2	63.2	63.2	0	0.0	B (67)	None	62.5	0.7	0	62.0	1.2	0	61.5	1.7	0	61.1	2.1	0	60.9	2.3	0	–	–	–
M-S1E-SB3	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	1	62.9	62.9	63.0	0	0.1	B (67)	None	62.8	0.2	0	62.0	1.0	0	61.2	1.8	0	60.7	2.3	0	60.3	2.7	0	–	–	–
M-S1E-SB4	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	1	62.9	62.9	63.0	0	0.1	B (67)	None	63.0	0.0	0	62.0	1.0	0	61.3	1.7	0	60.8	2.2	0	60.5	2.5	0	–	–	–
M-S1E-SB5	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	1	62.9	62.9	63.1	0	0.2	B (67)	None	63.1	0.0	0	62.3	0.8	0	61.8	1.3	0	61.3	1.8	0	60.8	2.3	0	–	–	–
M-S1E-SB6	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	1	64.2	64.2	64.5	0	0.3	B (67)	None	64.5	0.0	0	63.7	0.8	0	62.9	1.6	0	62.3	2.2	0	61.9	2.6	0	–	–	–
M-S1E-SB7	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	1	64.9	64.9	65.2	0	0.3	B (67)	None	65.2	0.0	0	64.4	0.8	0	63.6	1.6	0	63.1	2.1	0	62.4	2.8	0	–	–	–
M-S1E-SB8	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	1	65.0	65.0	65.3	0	0.3	B (67)	None	65.3	0.0	0	64.4	0.9	0	63.8	1.5	0	63.2	2.1	0	62.6	2.7	0	–	–	–
M-S1E-SB9	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	1	64.8	64.8	65.2	0	0.4	B (67)	None	65.2	0.0	0	64.5	0.7	0	63.9	1.3	0	63.2	2.0	0	62.7	2.5	0	–	–	–
M-S1E-SB10	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	1	64.7	64.7	65.1	0	0.4	B (67)	None	65.1	0.0	0	64.3	0.8	0	63.8	1.3	0	63.1	2.0	0	62.5	2.6	0	–	–	–
M-S1E-SB11	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	1	64.9	64.9	65.3	0	0.4	B (67)	None	65.5	-0.2	0	64.8	0.5	0	64.4	0.9	0	63.8	1.5	0	63.3	2.0	0	–	–	–
M-S1E-SB12	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	1	65.5	65.5	65.9	0	0.4	B (67)	None	66.0	-0.1	0	65.5	0.4	0	65.0	0.9	0	64.5	1.4	0	64.2	1.7	0	–	–	–
M-S1E-SB13	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	1	65.8	65.8	66.2	0	0.4	B (67)	A/E	66.5	-0.3	0	65.9	0.3	0	65.4	0.8	0	65.0	1.2	0	64.4	1.8	0	–	–	–
M-S1E-SB14	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	1	64.2	64.2	64.4	0	0.2	B (67)	None	64.3	0.1	0	63.9	0.5	0	63.4	1.0	0	63.0	1.4	0	62.7	1.7	0	–	–	–
M-S1E-SB15	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	1	63.4	63.4	63.7	0	0.3	B (67)	None	63.8	-0.1	0	63.4	0.3	0	63.0	0.7	0	62.6	1.1	0	62.3	1.4	0	–	–	–
M-S1E-SB16	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	2	58.2	58.2	58.3	0	0.1	B (67)	None	58.2	0.1	0	58.6	-0.3	0	58.6	-0.3	0	58.5	-0.2	0	58.5	-0.2	0	–	–	–
M-S1E-SB17	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	2	58.9	58.9	59.0	0	0.1	B (67)	None	58.9	0.1	0	58.7	0.3	0	59.4	-0.4	0	59.3	-0.3	0	59.3	-0.3	0	–	–	–
M-S1E-SB18	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	2	59.7	59.7	59.8	0	0.1	B (67)	None	59.9	-0.1	0	59.7	0.1	0	59.6	0.2	0	60.3	-0.5	0	60.3	-0.5	0	–	–	–
M-S1E-SB19	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	2	60.8	60.8	60.8	0	0.0	B (67)	None	60.9	-0.1	0	60.6	0.2	0	60.3	0.5	0	60.2	0.6	0	61.1	-0.3	0	–	–	–
M-S1E-SB20	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	2	60.5	60.5	60.6	0	0.1	B (67)	None	60.6	0.0	0	60.2	0.4	0	59.9	0.7	0	59.8	0.8	0	60.3	0.3	0	–	–	–
M-S1E-SB21	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	2	58.7	58.7	58.8	0	0.1	B (67)	None	58.8	0.0	0	58.4	0.4	0	58.3	0.5	0	59.2	-0.4	0	59.0	-0.2	0	–	–	–
M-S1E-SB22	12	Benton Way	ESW-21	Seg1E-SB1	SFR	2	55.8	55.8	55.9	0	0.1	B (67)	None	56.0	-0.1	0	55.6	0.3	0	55.2	0.7	0	54.7	1.2	0	54.4	1.5	0	–	–	–
M-S1E-SB23	12	Benton Way	ESW-21	Seg1E-SB1	SFR	2	57.6	57.6	57.7	0	0.1	B (67)	None	57.7	0.0	0	57.7	0.0	0	57.4	0.3	0	57.1	0.6	0	56.7	1.0	0	–	–	–
M-S1E-SB24	12	Benton Way	ESW-21	Seg1E-SB1	SFR	2	58.2	58.2	58.3	0	0.1	B (67)	None	58.3	0.0	0	58.2	0.1	0	57.8	0.5	0	57.3	1.0	0	57.1	1.2	0	–	–	–
M-S1E-SB25	12	Benton Way	ESW-21	Seg1E-SB1	SFR	2	58.0	58.0	58.1	0	0.1	B (67)	None	58.0	0.1	0	58.2	-0.1	0	57.8	0.3	0	57.4	0.7	0	57.0	1.1	0	–	–	–
M-S1E-SB26	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	2	57.9	57.9	57.9	0	0.0	B (67)	None	58.0	-0.1	0	58.1	-0.2	0	58.1	-0.2	0	58.1	-0.2	0	57.8	0.1	0	–	–	–
M-S1E-SB27	12	Riverside Dr/ Beton Way	ESW-21	Seg1E-SB1	SFR	2	57.8	57.8	57.9	0	0.1	B (67)	None	58.1	-0.2	0	58.1	-0.2	0	58.0	-0.1	0	57.8	0.1	0	57.6	0.3	0	–	–	–
M-S1E-SB28	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	2	61.1	61.1	61.3	0	0.2	B (67)	None	61.7	-0.4	0	61.3	0.0	0	61.0	0.3	0	60.7	0.6	0	60.4	0.9	0	–	–	–
M-S1E-SB29	12	Riverside Dr	ESW-21	Seg1E-SB1	SFR	2	59.3	59.3	59.4	0	0.1	B (67)	None	59.7	-0.3	0	59.3	0.1	0	59.0	0.4	0	58.8	0.6	0	58.6	0.8	0	–	–	–
M-S1E-SB30	12	Benton Way/ Heliotrope Dr	ESW-21	Seg1E-SB1	SFR	2	57.4	57.4	57.4	0	0.0	B (67)	None	57.4	0.0	0	57.2	0.2	0	57.2	0.2	0	57.2	0.2	0	57.4	0.0	0	–	–	–
M-S1E-SB31	12	Benton Way/ Heliotrope Dr	ESW-21	Seg1E-SB1	SFR	2	57.5	57.5	57.5	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-21. Predicted Future Noise and Barrier Analysis (NSA 12) - Seg1E-SB2 – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														16 feet			18 feet			20 feet			22 feet			–			–		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S1E-SB32	12	W Park Ln	ESW-21	Seg1E-SB2	SFR	1	63.7	63.7	64.0	0	0.3	B (67)	None	63.6	0.0	0	63.2	0.8	0	62.7	1.3	0	62.3	1.7	0	–	–	–	–	–	–
M-S1E-SB33	12	W Park Ln/Jonquil Rd	ESW-21	Seg1E-SB2	SFR	1	66.2	66.2	66.5	0	0.3	B (67)	A/E	65.9	1.0	0	65.2	1.3	0	64.7	1.8	0	64.1	2.4	0	–	–	–	–	–	–
M-S1E-SB34	12	Jonquil Rd	ESW-21	Seg1E-SB2	SFR	1	66.6	66.6	67.0	0	0.4	B (67)	A/E	66.1	1.0	0	65.5	1.5	0	64.8	2.2	0	64.2	2.8	0	–	–	–	–	–	–
M-S1E-SB35	12	Jonquil Rd	ESW-21	Seg1E-SB2	SFR	1	66.6	66.6	67.0	0	0.4	B (67)	A/E	66.2	1.0	0	65.5	1.5	0	64.8	2.2	0	64.3	2.7	0	–	–	–	–	–	–
M-S1E-SB36	12	Jonquil Rd	ESW-21	Seg1E-SB2	SFR	1	66.6	66.6	67.0	0	0.4	B (67)	A/E	66.2	1.0	0	65.5	1.5	0	64.6	2.4	0	64.0	3.0	0	–	–	–	–	–	–
M-S1E-SB37	12	Jonquil Rd	ESW-21	Seg1E-SB2	SFR	1	66.8	66.8	67.2	0	0.4	B (67)	A/E	66.2	1.0	0	65.6	1.6	0	65.0	2.2	0	64.1	3.1	0	–	–	–	–	–	–
M-S1E-SB38	12	Jonquil Rd	ESW-21	Seg1E-SB2	SFR	1	66.6	66.6	67.0	0	0.4	B (67)	A/E	66.2	1.0	0	65.5	1.5	0	64.9	2.1	0	64.0	3.0	0	–	–	–	–	–	–
M-S1E-SB39	12	Jonquil Rd	ESW-21	Seg1E-SB2	SFR	1	66.4	66.4	66.7	0	0.3	B (67)	A/E	66.3	1.0	0	65.7	1.0	0	65.0	1.7	0	64.5	2.2	0	–	–	–	–	–	–
M-S1E-SB40	12	Jonquil Rd	ESW-21	Seg1E-SB2	SFR	1	65.7	65.7	65.9	0	0.2	B (67)	None	65.6	0.0	0	65.0	0.9	0	64.3	1.6	0	63.7	2.2	0	–	–	–	–	–	–
M-S1E-SB41	12	W Park Ln	ESW-21	Seg1E-SB2	SFR	1	60.2	60.2	60.4	0	0.2	B (67)	None	59.8	0.0	0	59.5	0.9	0	59.1	1.3	0	58.8	1.6	0	–	–	–	–	–	–
M-S1E-SB42	12	W Park Ln	ESW-21	Seg1E-SB2	SFR	1	58.3	58.3	58.4	0	0.1	B (67)	None	58.2	0.0	0	57.8	0.6	0	57.4	1.0	0	57.1	1.3	0	–	–	–	–	–	–
M-S1E-SB43	12	W Park Ln/Jonquil Rd	ESW-21	Seg1E-SB2	SFR	2	59.2	59.2	59.3	0	0.1	B (67)	None	59.0	0.0	0	58.4	0.9	0	57.5	1.8	0	57.1	2.2	0	–	–	–	–	–	–
M-S1E-SB44	12	W Park Ln	ESW-21	Seg1E-SB2	SFR	1	59.4	59.4	59.5	0	0.1	B (67)	None	59.3	1.0	0	58.7	0.8	0	58.4	1.1	0	57.8	1.7	0	–	–	–	–	–	–
M-S1E-SB45	12	Jonquil Rd	ESW-21	Seg1E-SB2	SFR	2	60.2	60.2	60.3	0	0.1	B (67)	None	60.1	0.0	0	59.5	0.8	0	58.8	1.5	0	58.1	2.2	0	–	–	–	–	–	–
M-S1E-SB46	12	W Park Ln	ESW-21	Seg1E-SB2	SFR	3	55.2	55.2	55.3	0	0.1	B (67)	None	55.1	0.0	0	54.4	0.9	0	53.6	1.7	0	52.9	2.4	0	–	–	–	–	–	–
M-S1E-SB47	12	W Park Ln	ESW-21	Seg1E-SB2	SFR	2	56.3	56.3	56.4	0	0.1	B (67)	None	56.3	0.0	0	55.8	0.6	0	54.8	1.6	0	54.2	2.2	0	–	–	–	–	–	–
M-S1E-SB48	12	W Park Ln	ESW-21	Seg1E-SB2	SFR	1	59.1	59.1	59.2	0	0.1	B (67)	None	59.1	0.0	0	58.5	0.7	0	57.9	1.3	0	57.4	1.8	0	–	–	–	–	–	–
M-S1E-SB49	12	Jonquil Rd	ESW-21	Seg1E-SB2	SFR	1	58.4	58.4	58.5	0	0.1	B (67)	None	58.3	1.0	0	57.8	0.7	0	57.2	1.3	0	56.9	1.6	0	–	–	–	–	–	–
M-S1E-SB50	12	Jonquil Rd	ESW-21	Seg1E-SB2	SFR	2	54.1	54.1	54.1	0	0.0	B (67)	None	54.0	0.0	0	53.5	0.6	0	53.1	1.0	0	52.5	1.6	0	–	–	–	–	–	–
M-S1E-SB51	12	Memory Ln	ESW-21	Seg1E-SB2	SFR	1	64.6	64.6	64.9	0	0.3	B (67)	None	64.8	0.0	0	64.1	0.8	0	63.5	1.4	0	62.8	2.1	0	–	–	–	–	–	–
M-S1E-SB52	12	Memory Ln/ Aster Pl	ESW-21/EPW-8	Seg1E-SB2	SFR	2	62.5	62.5	62.4	0	-0.1	B (67)	None	62.4	0.0	0	61.4	1.0	0	59.6	2.8	0	58.6	3.8	0	–	–	–	–	–	–
M-S1E-SB53	12	Aster Pl	ESW-21/EPW-8	Seg1E-SB2	SFR	2	61.9	61.9	62.0	0	0.1	B (67)	None	62.0	0.0	0	61.6	0.4	0	60.4	1.6	0	57.0	5.0	2	–	–	–	–	–	–
M-S1E-SB54	12	Pepper Tree Ln	ESW-21/EPW-8	Seg1E-SB2	SFR	3	61.5	61.5	61.5	0	0.0	B (67)	None	61.5	0.0	0	61.1	0.4	0	60.6	0.9	0	57.3	4.2	0	–	–	–	–	–	–
M-S1E-SB55	12	Stone Pine Glen	ESW-21/EPW-8	Seg1E-SB2	SFR	1	64.9	64.9	64.9	0	0.0	B (67)	None	64.3	1.0	0	63.2	1.7	0	61.1	3.8	0	60.9	4.0	0	–	–	–	–	–	–
M-S1E-SB56	12	Stone Pine Glen	ESW-21/EPW-8	Seg1E-SB2	SFR	1	66.1	66.1	66.2	0	0.1	B (67)	A/E	65.4	1.0	0	64.1	2.1	0	62.8	3.4	0	62.0	4.2	0	–	–	–	–	–	–
M-S1E-SB57	12	Flower St/ Fallbrook Dr	ESW-21	Seg1E-SB2	SFR	1	66.2	66.2	66.2	0	0.0	B (67)	A/E	65.2	1.0	0	64.2	2.0	0	63.1	3.1	0	62.5	3.7	0	–	–	–	–	–	–
M-S1E-SB58	12	Memory Ln	ESW-21	Seg1E-SB2	SFR	1	57.9	57.9	58.0	0	0.1	B (67)	None	57.7	0.0	0	57.2	0.8	0	56.6	1.4	0	56.0	2.0	0	–	–	–	–	–	–
M-S1E-SB59	12	Memory Ln	ESW-21	Seg1E-SB2	SFR	1	57.2	57.2	57.3	0	0.1	B (67)	None	57.3	0.0	0	56.8	0.5	0	56.8	0.5	0	56.3	1.0	0	–	–	–	–	–	–
M-S1E-SB60	12	Memory Ln	ESW-21	Seg1E-SB2	SFR	1	54.2	54.2	54.3	0	0.1	B (67)	None	54.1	0.0	0	53.5	0.8	0	53.2	1.1	0	52.3	2.0	0	–	–	–	–	–	–
M-S1E-SB61	12	Memory Ln	ESW-21	Seg1E-SB2	SFR	1	55.2	55.2	55.3	0	0.1	B (67)	None	54.9	0.0	0	54.5	0.8	0	53.8	1.5	0	53.3	2.0	0	–	–	–	–	–	–
M-S1E-SB62	12	Memory Ln	ESW-21/EPW-8	Seg1E-SB2	SFR	1	60.2	60.2	60.1	0	-0.1	B (67)	None	60.1	0.0	0	59.2	0.9	0	57.5	2.6	0	56.8	3.3	0	–	–	–	–	–	–
M-S1E-SB63	12	Memory Ln	ESW-21/EPW-8	Seg1E-SB2	SFR	2	57.8	57.8	57.7	0	-0.1	B (67)	None	57.7	0.0	0	57.2	0.5	0	56.3	1.4	0	55.5	2.2	0	–	–	–	–	–	–
M-S1E-SB64	12	Memory Ln	ESW-21/EPW-8	Seg1E-SB2	SFR	2	56.4	56.4	56.3	0	-0.1	B (67)	None	56.3	0.0	0	56.0	0.3	0	55.1	1.2	0	54.7	1.6	0	–	–	–	–	–	–
M-S1E-SB65	12	Memory Ln	ESW-21/EPW-8	Seg1E-SB2	SFR	2	56.0	56.0	56.0	0	0.0	B (67)	None	55.9	0.0	0	55.7	0.3	0	55.1	0.9	0	55.0	1.0	0	–	–	–	–	–	–
M-S1E-SB66	12	Memory Ln	ESW-21/EPW-8	Seg1E-SB2	SFR	2	54.2	54.2	54.1	0	-0.1	B (67)	None	54.1	0.0	0	53.9	0.2	0	53.3	0.8	0	52.9	1.2	0	–	–	–	–	–	–
M-S1E-SB67	12	Aster Pl	ESW-21/EPW-8	Seg1E-SB2	SFR	1	59.8	59.8	59.8	0	0.0	B (67)	None	59.8	0.0	0	59.7	0.1	0	58.8	1.0	0	56.6	3.2	0	–	–	–	–	–	–
M-S1E-SB68	12	Aster Pl	ESW-21/EPW-8	Seg1E-SB2	SFR	1	59.5	59.5	59.5	0	0.0	B (67)	None	59.5	0.0	0	59.4	0.1	0	58.8	0.7	0	56.7	2.8	0	–	–	–	–	–	–
M-S1E-SB69	12	Aster Pl	ESW-21/EPW-8	Seg1E-SB2	SFR	2	56.9	56.9	56.9	0	0.0	B (67)	None	56.9	0.0	0	56.9	0.0	0	56.3	0.6	0	55.1	1.8	0	–	–	–	–	–	–
M-S1E-SB70	12	Aster Pl	ESW-21/EPW-8	Seg1E-SB2	SFR	2	56.2	56.2	56.1	0	-0.1	B (67)	None	56.1	0.0	0	56.1	0.0	0	55.7	0.4	0	54.7	1.4	0	–	–	–	–	–	–
M-S1E-SB71	12	Aster Pl	ESW-21/EPW-8	Seg1E-SB2	SFR	2	55.7	55.7	55.7	0	0.0	B (67)	None	55.7	0.0	0	55.7	0.0	0	55.4	0.3	0	54.6	1.1	0	–	–	–	–	–	–
M-S1E-SB72	12	Pepper Tree Ln/Stone Pine Glen	ESW-21/EPW-8	Seg1E-SB2	SFR	1	57.7	57.7	57.7	0	0.0	B (67)	None	57.7	0.0	0	57.6	0.1	0	57.2	0.5	0	56.3	1.4	0	–	–	–	–	–	–
M-S1E-SB73	12	Stone Pine Glen	ESW-21/EPW-8	Seg1E-SB2	SFR	2	62.1	62.1	62.1	0	0.0	B (67)	None	61.9	0.0	0	61.7	0.4	0	59.5	2.6	0	58.5	3.6	0	–	–	–	–	–	–
M-S1E-SB74	12	Stone Pine Glen	ESW-21/EPW-8	Seg1E-SB2	SFR	2	60.8	60.8	60.7	0	-0.1	B (67)	None	60.6	0.0	0	60.5	0.2	0	59.2	1.5	0	59.9	0.8	0	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)															
														16 feet			18 feet			20 feet			22 feet			–			–		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S1E-SB75	12	Stone Pine Glen/ Pepper Tree Ln	ESW-21/EPW-8	Seg1E-SB2	SFR	2	59.8	59.8	59.9	0	0.1	B (67)	None	59.8	0.0	0	59.7	0.2	0	59.1	0.8	0	59.4	0.5	0	–	–	–	–	–	–
M-S1E-SB76	12	Stone Pine Glen	ESW-21/EPW-8	Seg1E-SB2	SFR	2	58.2	58.2	58.2	0	0.0	B (67)	None	58.1	0.0	0	58.1	0.1	0	57.4	0.8	0	58.0	0.2	0	–	–	–	–	–	–
M-S1E-SB77	12	Flower St	ESW-21/EPW-8	Seg1E-SB2	SFR	2	61.8	61.8	61.8	0	0.0	B (67)	None	61.5	1.0	0	60.7	1.1	0	58.8	3.0	0	60.8	1.0	0	–	–	–	–	–	–
M-S1E-SB78	12	Flower St	ESW-21/EPW-8	Seg1E-SB2	SFR	2	59.0	59.0	59.1	0	0.1	B (67)	None	58.7	1.0	0	58.4	0.7	0	57.7	1.4	0	57.9	1.2	0	–	–	–	–	–	–
M-S1E-SB79	12	Flower St	ESW-21/EPW-8	Seg1E-SB2	SFR	2	57.2	57.2	57.2	0	0.0	B (67)	None	57.1	0.0	0	56.8	0.4	0	56.7	0.5	0	56.3	0.9	0	–	–	–	–	–	–
M-S1E-SB80	12	Flower St	ESW-21/EPW-8	Seg1E-SB2	SFR	2	57.7	57.7	57.7	0	0.0	B (67)	None	57.7	0.0	0	57.5	0.2	0	57.3	0.4	0	55.6	2.1	0	–	–	–	–	–	–
M-S1E-SB81	12	Flower St/Orange Rd	ESW-21	Seg1E-SB2	SFR	1	64.8	64.8	64.8	0	0.0	B (67)	None	64.1	1.0	0	63.4	1.4	0	62.8	2.0	0	62.1	2.7	0	–	–	–	–	–	–
M-S1E-SB82	12	Flower St	ESW-21	Seg1E-SB2	SFR	2	62.2	62.2	62.2	0	0.0	B (67)	None	61.9	0.0	0	61.3	0.9	0	60.7	1.5	0	59.8	2.4	0	–	–	–	–	–	–
M-S1E-SB83	12	Flower St	ESW-21	Seg1E-SB2	SFR	2	60.7	60.7	60.8	0	0.1	B (67)	None	60.7	1.0	0	60.5	0.3	0	60.0	0.8	0	59.2	1.6	0	–	–	–	–	–	–
M-S1E-SB84	12	Flower St	ESW-21	Seg1E-SB2	SFR	2	60.5	60.5	60.6	0	0.1	B (67)	None	60.5	0.0	0	60.4	0.2	0	60.3	0.3	0	59.4	1.2	0	–	–	–	–	–	–
M-S1E-SB85	12	Flower St	ESW-21	Seg1E-SB2	SFR	2	59.9	59.9	59.9	0	0.0	B (67)	None	59.9	0.0	0	59.8	0.1	0	59.8	0.1	0	59.3	0.6	0	–	–	–	–	–	–
M-S1E-SB86	12	Orange Rd	ESW-21	Seg1E-SB2	SFR	1	64.4	64.4	64.5	0	0.1	B (67)	None	64.4	0.0	0	63.8	0.7	0	63.3	1.2	0	63.0	1.5	0	–	–	–	–	–	–
M-S1E-SB87	12	Orange Rd/Olive Ln	ESW-21	Seg1E-SB2	SFR	2	55.1	55.1	55.1	0	0.0	B (67)	None	55.0	0.0	0	54.8	0.3	0	54.5	0.6	0	54.1	1.0	0	–	–	–	–	–	–
M-S1E-SB88	12	Olive Ln	ESW-21	Seg1E-SB2	SFR	2	59.6	59.6	59.7	0	0.1	B (67)	None	59.5	0.0	0	59.2	0.5	0	58.7	1.0	0	58.3	1.4	0	–	–	–	–	–	–
M-S1E-SB89	12	Olive Ln/Corrigan Ave	ESW-21	Seg1E-SB2	SFR	2	56.4	56.4	56.4	0	0.0	B (67)	None	56.4	0.0	0	56.3	0.1	0	55.9	0.5	0	55.6	0.8	0	–	–	–	–	–	–
M-S1E-SB90	12	Olive Ln	ESW-21	Seg1E-SB2	SFR	2	57.6	57.6	57.6	0	0.0	B (67)	None	57.5	0.0	0	57.4	0.2	0	57.3	0.3	0	57.1	0.5	0	–	–	–	–	–	–
M-S1E-SB91	12	Olive Ln	ESW-21	Seg1E-SB2	SFR	2	58.7	58.7	58.7	0	0.0	B (67)	None	58.6	0.0	0	58.5	0.2	0	58.5	0.2	0	58.1	0.6	0	–	–	–	–	–	–
M-S1E-SB92	12	Fallbrook Dr/ Fairbook Ln	ESW-21	Seg1E-SB2	SFR	2	67.1	67.1	67.2	0	0.1	B (67)	A/E	67.1	0.0	0	66.5	0.7	0	66.1	1.1	0	65.5	1.7	0	–	–	–	–	–	–
M-S1E-SB93	12	Fallbrook Dr	ESW-21	Seg1E-SB2	SFR	1	63.2	63.2	63.3	0	0.1	B (67)	None	62.8	0.0	0	62.1	1.2	0	61.3	2.0	0	60.6	2.7	0	–	–	–	–	–	–
M-S1E-SB94	12	Olive Ln/Orange Rd	ESW-21	Seg1E-SB2	SFR	1	60.9	60.9	61.0	0	0.1	B (67)	None	60.7	1.0	0	60.4	0.6	0	60.0	1.0	0	59.5	1.5	0	–	–	–	–	–	–
M-S1E-SB95	12	Olive Ln	ESW-21	Seg1E-SB2	SFR	2	60.7	60.7	60.7	0	0.0	B (67)	None	60.7	0.0	0	60.6	0.1	0	60.4	0.3	0	59.6	1.1	0	–	–	–	–	–	–
M-S1E-SB96	12	Orange Rd	ESW-21	Seg1E-SB2	SFR	1	59.5	59.5	59.6	0	0.1	B (67)	None	59.5	0.0	0	59.3	0.3	0	59.0	0.6	0	58.7	0.9	0	–	–	–	–	–	–
M-S1E-SB97	12	Orange Rd	ESW-21	Seg1E-SB2	SFR	2	55.2	55.2	55.2	0	0.0	B (67)	None	55.2	0.0	0	55.0	0.2	0	54.7	0.5	0	54.3	0.9	0	–	–	–	–	–	–
M-S1E-SB98	12	Orange Rd	ESW-21	Seg1E-SB2	SFR	2	55.7	55.7	55.8	0	0.1	B (67)	None	55.7	1.0	0	55.6	0.2	0	55.3	0.5	0	54.9	0.9	0	–	–	–	–	–	–
M-S1E-SB99	12	Orange Rd	ESW-21	Seg1E-SB2	SFR	2	56.1	56.1	56.2	0	0.1	B (67)	None	56.1	0.0	0	56.0	0.2	0	55.7	0.5	0	55.3	0.9	0	–	–	–	–	–	–
M-S1E-SB100	12	Fallbrook Dr/ Fairbook Ln	ESW-21	Seg1E-SB2	SFR	1	67.9	67.9	68.0	0	0.1	B (67)	A/E	67.9	0.0	0	67.1	0.9	0	66.2	1.8	0	65.4	2.6	0	–	–	–	–	–	–
M-S1E-SB101	12	Fallbrook Dr	ESW-21/ESW-22	Seg1E-SB2	SFR	2	68.5	68.5	68.5	0	0.0	B (67)	A/E	68.5	0.0	0	67.2	1.3	0	66.2	2.3	0	65.5	3.0	0	–	–	–	–	–	–
M-S1E-SB102	12	Sherwood Ln/Fallbrook Dr	ESW-21/ESW-22	Seg1E-SB2	SFR	1	66.2	66.2	66.2	0	0.0	B (67)	A/E	66.1	0.0	0	65.6	0.6	0	65.1	1.1	0	63.9	2.3	0	–	–	–	–	–	–
M-S1E-SB103	12	Sherwood Ln/Fairbrook Ln	ESW-21/ESW-22	Seg1E-SB2	SFR	2	57.2	57.2	57.2	0	0.0	B (67)	None	57.1	0.0	0	57.0	0.2	0	56.8	0.4	0	56.6	0.6	0	–	–	–	–	–	–
M-S1E-SB104	12	Sherwood Ln/Fairbrook Ln	ESW-21/ESW-22	Seg1E-SB2	SFR	2	57.9	57.9	57.9	0	0.0	B (67)	None	57.8	0.0	0	57.5	0.4	0	57.3	0.6	0	57.1	0.8	0	–	–	–	–	–	–
M-S1E-SB105	12	Sherwood Ln/Fairbrook Ln	ESW-21/ESW-22	Seg1E-SB2	SFR	2	57.1	57.1	57.1	0	0.0	B (67)	None	57.1	0.0	0	56.7	0.4	0	56.2	0.9	0	55.9	1.2	0	–	–	–	–	–	–
M-S1E-SB106	12	Sherwood Ln/Fairbrook Ln	ESW-21/ESW-22	Seg1E-SB2	SFR	2	60.0	60.0	60.0	0	0.0	B (67)	None	59.7	1.0	0	59.6	0.4	0	59.5	0.5	0	59.4	0.6	0	–	–	–	–	–	–
M-S1E-SB107	12	Sherwood Ln	ESW-21/ESW-22	–	SFR	1	64.1	64.1	64.3	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1E-SB108	12	Sherwood Ln	ESW-21/ESW-22	–	SFR	1	61.9	61.9	62.0	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1E-SB109	12	Sherwood Ln	ESW-21/ESW-22	–	SFR	1	61	61	61	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1E-SB110	12	Sherwood Ln	ESW-21/ESW-22	–	SFR	1	60	60	60	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S1E-SB111	12	Sherwood Ln	ESW-21/ESW-22	–	SFR	1	61	61	61	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-22. Predicted Future Noise and Barrier Analysis (NSA 13) - Seg2A-NB1 – Alternative 3

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														6 feet			8 feet			10 feet			12 feet			14 feet			16 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2A-NB-1	13	Rampart St/Dumaine St	–	Seg2A-NB1	Apt/Condo Pool	1	67.2	67.2	67.6	0	0.4	B (67)	A/E	67.5	0.1	0	67.5	0.1	0	67.5	0.1	0	67.4	0.2	0	67.4	0.2	0	67.4	0.2	0
M-S2A-NB-2	13	Rampart St/Dumaine St	–	Seg2A-NB1	Apt/Condo Outdoor	1	70.9	70.9	71.7	0	0.8	B (67)	A/E	71.4	0.3	0	71.3	0.4	0	71.3	0.4	0	71.2	0.5	0	71.2	0.5	0	71.2	0.5	0
M-S2A-NB-3	13	State College Blvd/Off-Ramp	–	Seg2A-NB1	Apt/Condo Outdoor	1	65.7	65.7	65.6	0	-0.1	C (67)	None	63.8	1.8	0	63.2	2.4	0	62.7	2.9	0	62.2	3.4	0	61.8	3.8	0	61.5	4.1	0
M-S2A-NB-4	13	The City Dr N/ Orange Center Dr	–	Seg2A-NB1	Apt/Condo Pool	1	62.2	62.2	62.5	0	0.3	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-NB-5	13	Orange Center Dr	–	Seg2A-NB1	Hotel Pool	1	62.3	62.3	63.1	0	0.8	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-23. Predicted Future Noise and Barrier Analysis (NSA 14) - Seg2A-SB1 – Alternative 3

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																									
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														16 feet			18 feet			20 feet			22 feet			–			–		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2A-SB1	14	The City Dr N/Chapman Ave	–		Hotel Pool	1	68.0	68.0	68.2	0	0.2	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB2	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	69.9	69.9	69.9	0	0.0	B (67)	A/E	69.9	0.0	0	69.8	0.1	0	69.8	0.1	0	69.8	0.1	0	–	–	–	–	–	–
M-S2A-SB3	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	68.8	68.8	68.8	0	0.0	B (67)	A/E	68.7	0.1	0	68.7	0.1	0	68.6	0.2	0	68.6	0.2	0	–	–	–	–	–	–
M-S2A-SB4	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	69.0	69.0	69.0	0	0.0	B (67)	A/E	68.9	0.1	0	68.9	0.1	0	68.8	0.2	0	68.8	0.2	0	–	–	–	–	–	–
M-S2A-SB5	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	70.3	70.3	70.3	0	0.0	B (67)	A/E	70.3	0.0	0	70.2	0.1	0	70.2	0.1	0	70.2	0.1	0	–	–	–	–	–	–
M-S2A-SB6	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	70.8	70.8	70.8	0	0.0	B (67)	A/E	70.8	0.0	0	70.7	0.1	0	70.7	0.1	0	70.7	0.1	0	–	–	–	–	–	–
M-S2A-SB7	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	69.0	69.0	69.0	0	0.0	B (67)	A/E	69.0	0.0	0	68.9	0.1	0	68.9	0.1	0	68.8	0.2	0	–	–	–	–	–	–
M-S2A-SB8	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	67.8	67.8	67.8	0	0.0	B (67)	A/E	67.7	0.1	0	67.7	0.1	0	67.6	0.2	0	67.6	0.2	0	–	–	–	–	–	–
M-S2A-SB9	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	66.5	66.5	66.6	0	0.1	B (67)	A/E	66.5	0.1	0	66.4	0.2	0	66.4	0.2	0	66.3	0.3	0	–	–	–	–	–	–
M-S2A-SB10	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	68.8	68.8	68.9	0	0.1	B (67)	A/E	68.8	0.1	0	68.8	0.1	0	68.7	0.2	0	68.7	0.2	0	–	–	–	–	–	–
M-S2A-SB11	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	69.2	69.2	69.2	0	0.0	B (67)	A/E	69.2	0.0	0	69.1	0.1	0	69.1	0.1	0	69.1	0.1	0	–	–	–	–	–	–
M-S2A-SB12	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	69.6	69.6	69.6	0	0.0	B (67)	A/E	69.6	0.0	0	69.5	0.1	0	69.5	0.1	0	69.5	0.1	0	–	–	–	–	–	–
M-S2A-SB13	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	72.2	72.2	72.2	0	0.0	B (67)	A/E	72.1	0.1	0	72.1	0.1	0	72.1	0.1	0	72.1	0.1	0	–	–	–	–	–	–
M-S2A-SB14	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	72.4	72.4	72.4	0	0.0	B (67)	A/E	72.4	0.0	0	72.3	0.1	0	72.3	0.1	0	72.3	0.1	0	–	–	–	–	–	–
M-S2A-SB15	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	72.6	72.6	72.7	0	0.1	B (67)	A/E	72.6	0.1	0	72.6	0.1	0	72.6	0.1	0	72.6	0.1	0	–	–	–	–	–	–
M-S2A-SB16	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	73.1	73.1	73.1	0	0.0	B (67)	A/E	73.1	0.0	0	73.1	0.0	0	73.1	0.0	0	73.0	0.1	0	–	–	–	–	–	–
M-S2A-SB17	14	Tapestry Ln/Weaver Ln	ESW-26	–	Apartment/ Condo-Pool	2	59.1	59.1	59.3	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB18	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	60.4	60.4	60.6	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB19	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	58.8	58.8	59.0	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB20	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	52.2	52.2	52.4	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB21	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	52.4	52.4	52.7	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB22	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	59.5	59.5	59.6	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB23	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	59.1	59.1	59.2	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB24	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	58.7	58.7	58.8	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB25	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	58.5	58.5	58.6	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																		
														16 feet			18 feet			20 feet			22 feet			–			–		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2A-SB26	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	58.2	58.2	58.4	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB27	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	56.3	56.3	56.5	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB28	14	Manchester Ave	ESW-26	–	Cemetery	1	57.8	57.8	58.0	0	0.2	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB29	14	Manchester Ave	ESW-26	–	Cemetery	1	59.9	59.9	60.1	0	0.2	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB30	14	Manchester Ave	ESW-26	–	Cemetery	1	61.1	61.1	61.3	0	0.2	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB31	14	Manchester Ave	ESW-26	–	Cemetery	1	61.9	61.9	62.0	0	0.1	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB32	14	Manchester Ave	ESW-26	–	Cemetery	1	63.5	63.5	63.6	0	0.1	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB52	14	Manchester Ave	ESW-26	Seg2A-SB1	Condo-Sport Court	1	69.7	69.7	69.9	0	0.2	C (67)	A/E	69.8	0.1	0	69.8	0.1	0	69.8	0.1	0	69.8	0.1	0	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-24. Predicted Future Noise and Barrier Analysis (NSA 14) - Seg2A-SB2 – Alternative 3

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														16 feet			18 feet			20 feet			22 feet			-			-		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2A-SB33	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	70.2	70.2	70.2	0	0.0	B (66)	A/E	70.2	0.0	0	70.1	0.1	0	70.0	0.2	0	70.0	0.2	0	–	–	–	–	–	–
M-S2A-SB33A	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	72.0	72.0	72.1	0	0.1	B (66)	A/E	72.0	0.1	0	71.9	0.2	0	71.9	0.2	0	71.8	0.3	0	–	–	–	–	–	–
M-S2A-SB34	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	68.3	68.3	68.4	0	0.1	B (66)	A/E	68.3	0.1	0	68.2	0.2	0	68.1	0.3	0	68.1	0.3	0	–	–	–	–	–	–
M-S2A-SB34A	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	70.6	70.6	70.8	0	0.2	B (66)	A/E	70.6	0.2	0	70.5	0.3	0	70.5	0.3	0	70.4	0.4	0	–	–	–	–	–	–
M-S2A-SB35	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	69.6	69.6	69.8	0	0.2	B (66)	A/E	69.7	0.1	0	69.5	0.3	0	69.4	0.4	0	69.3	0.5	0	–	–	–	–	–	–
M-S2A-SB35A	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	71.0	71.0	71.3	0	0.3	B (66)	A/E	71.1	0.2	0	70.9	0.4	0	70.8	0.5	0	70.6	0.7	0	–	–	–	–	–	–
M-S2A-SB36	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	67.8	67.8	68.1	0	0.3	B (66)	A/E	67.9	0.2	0	67.7	0.4	0	67.6	0.5	0	67.5	0.6	0	–	–	–	–	–	–
M-S2A-SB36A	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	70.0	70.0	70.3	0	0.3	B (66)	A/E	70.1	0.2	0	69.9	0.4	0	69.8	0.5	0	69.7	0.6	0	–	–	–	–	–	–
M-S2A-SB37	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	66.2	66.2	66.5	0	0.3	B (66)	A/E	66.3	0.2	-1	66.1	0.4	0	65.9	0.6	0	65.7	0.8	0	–	–	–	–	–	–
M-S2A-SB37A	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	68.8	68.8	69.1	0	0.3	B (66)	A/E	68.9	0.2	0	68.8	0.3	0	68.7	0.4	0	68.5	0.6	0	–	–	–	–	–	–
M-S2A-SB37	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	66.2	66.2	66.5	0	0.3	B (66)	A/E	66.3	0.2	-1	66.1	0.4	0	65.9	0.6	0	65.7	0.8	0	–	–	–	–	–	–
M-S2A-SB37A	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	68.8	68.8	69.1	0	0.3	B (66)	A/E	68.9	0.2	0	68.8	0.3	0	68.7	0.4	0	68.5	0.6	0	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-25. Predicted Future Noise and Barrier Analysis (NSA 14) - Seg2A-SB3 – Alternative 3

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																										
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																				
														6 feet			8 feet			10 feet			12 feet			14 feet			16 feet		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2A-SB38	14	Gene Autry Way/Del Ray Dr	–	–	Mobile Home - Pool	1	63.0	63.0	61.4	0	-1.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB39	14	Gene Autry Way/Del Ray Dr	–	–	Mobile Home	1	62.1	62.1	61.8	0	-0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB40	14	Gene Autry Way/Del Ray Dr	–	–	Mobile Home	2	62.7	62.7	61.2	0	-1.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB41	14	Via Kona Dr/ Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	62.0	62.0	62.2	0	0.2	B (67)	None	62.3	-0.1	0	62.1	0.1	0	62.0	0.2	0	61.7	0.5	0	61.5	0.7	0	61.3	0.9	0
M-S2A-SB42	14	Via Kona Dr/ Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	61.4	61.4	61.7	0	0.3	B (67)	None	62.2	-0.5	0	62.3	-0.6	0	62.2	-0.5	0	62.1	-0.4	0	62.0	-0.3	0	61.9	-0.2	0
M-S2A-SB43	14	Via Kona Dr/ Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	62.2	62.2	62.5	0	0.3	B (67)	None	62.8	-0.3	0	62.7	-0.2	0	62.6	-0.1	0	62.5	0.0	0	62.5	0.0	0	62.5	0.0	0
M-S2A-SB44	14	Via Kona Dr/ Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	66.2	66.2	66.4	0	0.2	B (67)	A/E	66.3	0.1	0	66.2	0.2	0	66.1	0.3	0	66.0	0.4	0	65.9	0.5	0	65.8	0.6	0
M-S2A-SB45	14	Via Hilo Dr/Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	64.7	64.7	64.9	0	0.2	B (67)	None	64.6	0.3	0	64.6	0.3	0	64.5	0.4	0	64.4	0.5	0	64.3	0.6	0	64.3	0.6	0
M-S2A-SB46	14	Via Kona Dr/ Manchester Ave	ESW27	Seg2A-SB3	Mobile Home	1	60.3	60.3	60.6	0	0.3	B (67)	None	59.6	1.0	0	59.3	1.3	0	59.1	1.5	0	58.9	1.7	0	58.7	1.9	0	58.5	2.1	0
M-S2A-SB47	14	Via Kona Dr/ Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	2	57.9	57.9	58.1	0	0.2	B (67)	None	57.8	0.3	0	57.7	0.4	0	57.6	0.5	0	57.4	0.7	0	57.4	0.7	0	57.3	0.8	0
M-S2A-SB48	14	Via Hilo Dr/Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	57.3	57.3	57.5	0	0.2	B (67)	None	57.3	0.2	0	57.2	0.3	0	57.1	0.4	0	57.0	0.5	0	57.0	0.5	0	56.9	0.6	0
M-S2A-SB49	14	Via Kona Dr/ Manchester Ave	ESW27	Seg2A-SB3	Mobile Home	2	56.8	56.8	56.8	0	0.0	B (67)	None	56.7	0.1	0	56.6	0.2	0	56.5	0.3	0	56.4	0.4	0	56.4	0.4	0	56.3	0.5	0
M-S2A-SB50	14	Via Kona Dr/ Manchester Ave	ESW27	Seg2A-SB3	Mobile Home	2	56.9	56.9	57.1	0	0.2	B (67)	None	56.6	0.5	0	56.4	0.7	0	56.4	0.7	0	56.2	0.9	0	56.1	1.0	0	56.0	1.1	0
M-S2A-SB51	14	Via Kona Dr/ Manchester Ave	ESW27	Seg2A-SB3	Hotel Pool	1	60.7	60.7	61.0	0	0.3	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-26. Predicted Future Noise and Barrier Analysis (NSA 15) - Seg2B-NB1 – Alternative 3

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														16 feet			18 feet			20 feet			22 feet			-			-		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2B-NB24	15	Anaheim Blvd	–		Hotel Pool	1	63.5	63.5	63.9	0	0.4	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB25	15	Harvest Way/Cara Dr	ESW-28	Seg2B-NB1	Apt/Condo	2	66.8	66.8	67.3	0	0.5	B (67)	A/E	66.2	1.1	0	65.5	1.8	0	65.0	2.3	0	65.0	2.3	0	–	–	–	–	–	–
M-S2B-NB26	15	Harvest Way/Cara Dr	ESW-28	Seg2B-NB1	Apt/Condo	2	66.0	66.0	66.5	0	0.5	B (67)	A/E	65.9	0.6	0	65.1	1.4	0	64.2	2.3	0	64.2	2.3	0	–	–	–	–	–	–
M-S2B-NB27	15	Bushell St	ESW-28	Seg2B-NB1	Apt/Condo	2	66.6	66.6	67.1	0	0.5	B (67)	A/E	66.3	0.8	0	65.6	1.5	0	64.7	2.4	0	64.6	2.5	0	–	–	–	–	–	–
M-S2B-NB28	15	Bushell St	ESW-28	Seg2B-NB1	Apt/Condo	2	66.9	66.9	67.5	0	0.6	B (67)	A/E	66.6	0.9	0	65.9	1.6	0	65.1	2.4	0	64.9	2.6	0	–	–	–	–	–	–
M-S2B-NB29	15	Bushell St	ESW-28	Seg2B-NB1	Apt/Condo	2	66.2	66.2	66.8	0	0.6	B (67)	A/E	65.9	0.9	0	65.2	1.6	0	64.5	2.3	0	64.2	2.6	0	–	–	–	–	–	–
M-S2B-NB30	15	Cara Dr	ESW-28	Seg2B-NB1	Apt/Condo	2	69.2	69.2	69.0	0	-0.2	B (67)	A/E	68.7	0.3	0	68.5	0.5	0	68.3	0.7	0	68.3	0.7	0	–	–	–	–	–	–
M-S2B-NB31	15	Harvest Way/Cara Dr	ESW-28	Seg2B-NB1	Apt/Condo	2	66.1	66.1	66.5	0	0.4	B (67)	A/E	65.8	0.7	0	65.3	1.2	0	64.7	1.8	0	64.6	1.9	0	–	–	–	–	–	–
M-S2B-NB32	15	Harvest Way/Cara Dr	ESW-28	Seg2B-NB1	Apt/Condo	2	65.5	65.5	66.0	0	0.5	B (67)	A/E	65.4	0.6	0	64.8	1.2	0	64.2	1.8	0	64.1	1.9	0	–	–	–	–	–	–
M-S2B-NB33	15	E St/F St	ESW-28	Seg2B-NB1	Apt/Condo	2	64.7	64.7	65.1	0	0.4	B (67)	None	64.6	0.5	0	64.0	1.1	0	63.4	1.7	0	63.3	1.8	0	–	–	–	–	–	–
M-S2B-NB34	15	D St	ESW-28	Seg2B-NB1	Mobile Home	2	65.1	65.1	65.7	0	0.6	B (67)	None	64.8	0.9	0	64.1	1.6	0	63.5	2.2	0	62.7	3.0	0	–	–	–	–	–	–
M-S2B-NB35	15	D St/E St	ESW-28	Seg2B-NB1	Mobile Home	2	65.4	65.4	66.0	0	0.6	B (67)	A/E	65.2	0.8	0	64.4	1.6	0	63.7	2.3	0	62.9	3.1	0	–	–	–	–	–	–
M-S2B-NB36	15	D St	ESW-28	Seg2B-NB1	Mobile Home	1	65.7	65.7	66.4	0	0.7	B (67)	A/E	65.6	0.8	0	64.9	1.5	0	64.1	2.3	0	63.6	2.8	0	–	–	–	–	–	–
M-S2B-NB37	15	E St	ESW-28	Seg2B-NB1	Mobile Home	2	60.6	60.6	61.3	0	0.7	B (67)	None	60.5	0.8	0	59.8	1.5	0	59.1	2.2	0	58.5	2.8	0	–	–	–	–	–	–
M-S2B-NB38	15	D St	ESW-28	Seg2B-NB1	Mobile Home	2	62.1	62.1	62.7	0	0.6	B (67)	None	62.0	0.7	0	61.3	1.4	0	60.5	2.2	0	59.9	2.8	0	–	–	–	–	–	–
M-S2B-NB39	15	E St	ESW-28	Seg2B-NB1	Mobile Home	3	61.4	61.4	61.9	0	0.5	B (67)	None	61.4	0.5	0	60.8	1.1	0	60.3	1.6	0	60.0	1.9	0	–	–	–	–	–	–
M-S2B-NB40	15	D St	ESW-28	Seg2B-NB1	Mobile Home	4	59.3	59.3	59.9	0	0.6	B (67)	None	59.4	0.5	0	58.8	1.1	0	58.2	1.7	0	57.7	2.2	0	–	–	–	–	–	–
M-S2B-NB41	15	D St	ESW-28	Seg2B-NB1	Mobile Home - Pool	10	66.4	66.4	67.0	0	0.6	B (67)	A/E	66.1	0.9	0	65.2	1.8	0	64.4	2.6	0	63.9	3.1	0	–	–	–	–	–	–
M-S2B-NB42	15	Yucca St/Midway Dr	ESW-28	Seg2B-NB1	Mobile Home	2	63.6	63.6	64.3	0	0.7	B (67)	None	63.7	0.6	0	63.0	1.3	0	61.6	2.7	0	61.0	3.3	0	–	–	–	–	–	–
M-S2B-NB43	15	Midway Dr	ESW-28	Seg2B-NB1	Mobile Home	2	63.2	63.2	63.9	0	0.7	B (67)	None	63.0	0.9	0	62.4	1.5	0	61.6	2.3	0	60.9	3.0	0	–	–	–	–	–	–
M-S2B-NB44	15	Yucca St	ESW-28	Seg2B-NB1	Mobile Home	3	61.4	61.4	62.2	0	0.8	B (67)	None	61.5	0.7	0	60.8	1.4	0	60.2	2.0	0	59.5	2.7	0	–	–	–	–	–	–
M-S2B-NB45	15	Midway Dr	ESW-28	Seg2B-NB1	Mobile Home	2	62.9	62.9	63.6	0	0.7	B (67)	None	63.1	0.5	0	62.7	0.9	0	62.2	1.4	0	61.8	1.8	0	–	–	–	–	–	–
M-S2B-NB46	15	Yucca St/Willow St	ESW-28	Seg2B-NB1	Mobile Home	2	63.1	63.1	63.8	0	0.7	B (67)	None	63.1	0.7	0	62.6	1.2	0	61.8	2.0	0	61.3	2.5	0	–	–	–	–	–	–
M-S2B-NB47	15	Midway Dr	ESW-28	Seg2B-NB1	Mobile Home	3	60.5	60.5	61.2	0	0.7	B (67)	None	60.8	0.4	0	60.9	0.3	0	60.3	0.9	0	60.0	1.2	0	–	–	–	–	–	–
M-S2B-NB48	15	Palm St/Palais Rd	ESW-28	Seg2B-NB1	Apt/Condo	10	66.0	66.0	66.7	0	0.7	B (67)	A/E	65.7	1.0	0	64.8	1.9	0	64.0	2.7	0	63.3	3.4	0	–	–	–	–	–	–
M-S2B-NB49	15	Palais Rd	ESW-28	Seg2B-NB1	Apt/Condo	10	60.8	60.8	61.5	0	0.7	B (67)	None	60.7	0.8	0	59.9	1.6	0	59.1	2.4	0	58.4	3.1	0	–	–	–	–	–	–
M-S2B-NB50	15	Palais Rd/ Palm St	ESW-28	Seg2B-NB1	Apt/Condo	10	65.2	65.2	65.8	0	0.6	B (67)	None	64.7	1.1	0	63.9	1.9	0	63.1	2.7	0	62.3	3.5	0	–	–	–	–	–	–
M-S2B-NB51	15	Guinida Ln/Palm St	ESW-28	Seg2B-NB1	Apt/Condo	10	65.0	65.0	65.5	0	0.5	B (67)	None	64.5	1.0	0	63.7	1.8	0	63.0	2.5	0	62.2	3.3	0	–	–	–	–	–	–
M-S2B-NB52	15	Guinida Ln/Palais Rd	ESW-28	Seg2B-NB1	Apt/Condo	10	59.7	59.7	60.3	0	0.6	B (67)	None	59.3	1.0	0	58.4	1.9	0	57.6	2.7	0	56.8	3.5	0	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																									
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																			
														16 feet			18 feet			20 feet			22 feet			-			-		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2B-NB53	15	Palm St	ESW-28	Seg2B-NB1	Apt/Condo	5	64.5	64.5	65.0	0	0.5	B (67)	None	64.2	0.8	0	63.4	1.6	0	62.7	2.3	0	62.1	2.9	0	–	–	–	–	–	–
M-S2B-NB54	15	Palm St	ESW-28	–	Apt/Condo	5	59.3	59.3	59.9	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB55	15	Palm St	ESW-28	–	Apt/Condo	1	64.4	64.4	64.8	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB56	15	Palm St/Winston Rd	ESW-28	–	Apt/Condo	1	63.9	63.9	64.3	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB57	15	Palm St/Winston Rd	ESW-28	–	Apt/Condo	1	64.7	64.7	65.2	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB58	15	Palm St	ESW-28	–	Apt/Condo	1	64.3	64.3	64.8	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB59	15	Palm St	ESW-28	–	Apt/Condo	1	63.5	63.5	64.0	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB60	15	Palm St	ESW-28	–	Apt/Condo	1	62.2	62.2	62.7	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB61	15	Palm St	ESW-28	–	Apt/Condo	1	61.3	61.3	61.7	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB62	15	Palm St	ESW-28	–	Apt/Condo	1	61.3	61.3	61.7	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB63	15	Palm St	ESW-28	–	Apt/Condo	1	61.7	61.7	62.0	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB64	15	Palm St	ESW-28	–	Apt/Condo	1	62.9	62.9	63.1	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB65	15	Palm St	ESW-28	–	Apt/Condo	1	60.6	60.6	60.8	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB66	15	Palm St	ESW-28	–	Apt/Condo	1	60.2	60.2	60.3	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB67	15	Palm St	ESW-28	–	Apt/Condo	1	60.6	60.6	60.8	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB68	15	Palm St	ESW-28	–	Apt/Condo	1	61.0	61.0	61.4	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB69	15	Palm St	ESW-28	–	Apt/Condo	1	60.5	60.5	61.2	0	0.7	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB70	15	Palm St	ESW-28	–	Apt/Condo	1	62.5	62.5	63.6	0	1.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB71	15	Palm St/Boysen Ave	ESW-28	–	Apt/Condo	1	62.5	62.5	64.3	0	1.8	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB72	15	Palm St/Winston Rd	ESW-28	–	Apt/Condo	1	62.7	62.7	63.2	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB73	15	Palm St	ESW-28	–	Apt/Condo	3	60.1	60.1	60.6	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB74	15	Palm St	ESW-28	–	Apt/Condo	3	58.9	58.9	59.3	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB75	15	Palm St/Boysen Ave	ESW-28	–	Apt/Condo	3	57.7	57.7	58.1	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB76	15	Palm St/Berry Ave	ESW-28	–	Apt/Condo	3	59.1	59.1	59.7	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-27. Predicted Future Noise and Barrier Analysis (NSA 16) - Seg2B-SB1 – Alternative 3

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														6 feet			8 feet			10 feet			12 feet			14 feet			16 feet		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2B-SB52	16	Manchester Ave/ Anaheim Blvd	ESW-29	Seg2A-SB1	Hotel Sport Area	1	58.5	58.5	58.6	0	0.1	E (72)	None	58.5	0.1	0	58.5	0.1	0	58.3	0.3	0	58.3	0.3	0	58.3	0.3	0	58.3	0.3	0
M-S2B-SB53	16	Manchester Ave/ Anaheim Blvd	ESW-29	Seg2A-SB1	Hotel Pool Deck	1	69.3	69.3	69.6	0	0.3	E (72)	None	69.5	0.1	0	69.5	0.1	0	69.4	0.2	0	69.4	0.2	0	69.4	0.2	0	69.4	0.2	0
M-S2B-SB54	16	Disney Way/ Anaheim Blvd	ESW-29	Seg2A-SB1	Hotel Pool	1	61.2	61.2	61.4	0	0.2	E (72)	None	61.1	0.3	0	61.0	0.4	0	60.7	0.7	0	60.6	0.8	0	60.5	0.9	0	60.5	0.9	0
M-S2B-SB55	16	Disney Way/Zeyn St	ESW-29	Seg2A-SB1	Park	1	69.3	69.3	69.4	0	0.1	C (67)	A/E	69.2	0.2	0	69.2	0.2	0	69.1	0.3	0	69.1	0.3	0	69.1	0.3	0	69.0	0.4	0
M-S2B-SB56	16	Clementine St/ Disney Way	ESW-29	Seg2A-SB1	Condo	1	67.4	67.4	67.6	0	0.2	B (67)	A/E	67.3	0.3	0	67.2	0.4	0	67.1	0.5	0	67.0	0.6	0	67.0	0.6	0	67.0	0.6	0
M-S2B-SB57	16	Disney Way/Zeyn St	ESW-29	–	Hotel Pool	1	63.9	63.9	64.4	0	0.5	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-28. Predicted Future Noise and Barrier Analysis (NSA 17) - Seg2C-NB1 – Alternative 3

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																		
														18 feet			20 feet			22 feet			–			–			–		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2C-NB76	17	Ball Rd/Harbor Blvd	ESW-30	–	Hotel Pool	1	66.9	66.9	67.3	0	0.4	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB77	17	Citron St	ESW-31	–	Apartment Pool	1	58.7	58.7	59.2	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB78	17	Citron St	ESW-31	–	Apt/Condo	1	64.0	64.0	64.5	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB79	17	Citron St	ESW-31	–	Apt/Condo	1	63.1	63.1	63.6	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB80	17	Citron St	EPW-12	–	Apt/Condo	2	65.0	65.0	64.6	0	-0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB81	17	Citron St	EPW-12	–	Apt/Condo	6	61.7	61.7	62.2	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB82	17	Citron St	EPW-12	–	Apt/Condo	6	62.2	62.2	62.4	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB83	17	Cottonwood Cir	ESW-32	Seg2C-NB1	Park	1	66.0	66.0	66.5	0	0.5	C (67)	A/E	65.8	0.7	0	65.3	1.2	0	64.8	1.7	0	–	–	–	–	–	–	–	–	–
M-S2C-NB84	17	Cottonwood Cir/Vermont Ave	ESW-32	Seg2C-NB1	SFR	1	70.4	70.4	70.8	0	0.4	B (67)	A/E	70.7	0.1	0	70.6	0.2	0	70.6	0.2	0	–	–	–	–	–	–	–	–	–
M-S2C-NB85	17	Cottonwood Cir	ESW-32	Seg2C-NB1	SFR	1	67.6	67.6	68.1	0	0.5	B (67)	A/E	68.0	0.1	0	67.9	0.2	0	67.8	0.3	0	–	–	–	–	–	–	–	–	–
M-S2C-NB86	17	Cottonwood Cir	ESW-32	Seg2C-NB1	SFR	1	65.8	65.8	66.3	0	0.5	B (67)	A/E	66.1	0.2	0	65.9	0.4	0	65.7	0.6	0	–	–	–	–	–	–	–	–	–
M-S2C-NB87	17	Cottonwood Cir	ESW-32	Seg2C-NB1	SFR	1	63.3	63.3	63.8	0	0.5	B (67)	None	63.3	0.5	0	62.9	0.9	0	62.5	1.3	0	–	–	–	–	–	–	–	–	–
M-S2C-NB88	17	Cottonwood Cir	ESW-32	Seg2C-NB1	SFR	1	65.1	65.1	65.7	0	0.6	B (67)	None	65.1	0.6	0	64.2	1.5	0	63.5	2.2	0	–	–	–	–	–	–	–	–	–
M-S2C-NB89	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	1	64.8	64.8	65.4	0	0.6	B (67)	None	64.7	0.7	0	64.2	1.2	0	63.5	1.9	0	–	–	–	–	–	–	–	–	–
M-S2C-NB90	17	Cottonwood Cir	ESW-32	Seg2C-NB1	SFR	1	58.2	58.2	58.8	0	0.6	B (67)	None	58.6	0.2	0	58.5	0.3	0	58.3	0.5	0	–	–	–	–	–	–	–	–	–
M-S2C-NB91	17	Cottonwood Cir	ESW-32	Seg2C-NB1	SFR	2	61.0	61.0	61.6	0	0.6	B (67)	None	61.3	0.3	0	61.1	0.5	0	60.9	0.7	0	–	–	–	–	–	–	–	–	–
M-S2C-NB92	17	Cottonwood Cir	ESW-32	Seg2C-NB1	SFR	3	60.3	60.3	60.9	0	0.6	B (67)	None	60.7	0.2	0	60.5	0.4	0	60.3	0.6	0	–	–	–	–	–	–	–	–	–
M-S2C-NB93	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	2	63.3	63.3	63.9	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB94	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	2	61.2	61.2	62.0	0	0.8	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB95	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	1	62.6	62.6	63.2	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB96	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	1	63.2	63.2	63.8	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB97	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	2	63.2	63.2	63.7	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB98	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	1	63.4	63.4	63.9	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB99	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	1	62.4	62.4	62.9	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB100	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	1	61.2	61.2	61.7	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB101	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	2	57.9	57.9	58.6	0	0.7	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB102	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	2	56.9	56.9	57.4	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB103	17	Irving Pl	ESW-32	Seg2C-NB1	SFR	1	59.5	59.5	59.5	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB104	17	South St	ESW-32	Seg2C-NB1	SFR	1	59.0	59.0	59.5	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB105	17	Illinois St	ESW-32	Seg2C-NB1	SFR	1	62.3	62.3	62.8	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB106	17	Illinois St	ESW-32	Seg2C-NB1	SFR	1	61.5	61.5	62.1	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB107	17	Illinois St	ESW-32	Seg2C-NB1	SFR	2	61.2	61.2	61.8	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB108	17	Illinois St	ESW-32	Seg2C-NB1	SFR	2	59.9	59.9	60.4	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB109	17	Illinois St	ESW-32	Seg2C-NB1	SFR	1	63.1	63.1	63.5	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB110	17	Illinois St	ESW-32	Seg2C-NB1	SFR	1	62.9	62.9	63.4	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB111	17	Illinois St	ESW-32	Seg2C-NB1	SFR	1	62.2	62.2	62.6	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB112	17	Illinois St	ESW-32	Seg2C-NB1	SFR	1	63.1	63.1	63.5	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB113	17	West St/Water St	ESW-32	Seg2C-NB1	SFR	1	62.3	62.3	62.7	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB114	17	West St	ESW-32	Seg2C-NB1	SFR	1	60.9	60.9	61.4	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB115	17	West St	ESW-32	Seg2C-NB1	SFR	1	62.4	62.4	62.8	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB116	17	West St	ESW-32	Seg2C-NB1	SFR	1	62.9	62.9	63.3	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB117	17	West St	ESW-32	Seg2C-NB1	SFR	1	63.3	63.3	63.7	0	0.4	B (67)	None	63.0	0.7	0	62.2	1.5	0	61.4	2.3	0	–	–	–	–	–	–	–	–	–
M-S2C-NB118	17	West St	ESW-32	Seg2C-NB1	SFR	1	63.8	63.8	64.2	0	0.4	B (67)	None	63.5	0.7	0	63.1	1.1	0	62.5	1.7	0	–	–	–	–	–	–	–	–	–
M-S2C-NB119	17	West St	ESW-32	Seg2C-NB1	SFR	1	64.4	64.4	64.8	0	0.4	B (67)	None	64.3	0.5	0	63.9	0.9	0	63.5	1.3	0	–	–	–	–	–	–	–	–	–
M-S2C-NB120	17	West St/Santa Ana St	ESW-32	Seg2C-NB1	SFR	1	66.0	66.0	66.3	0	0.3	B (67)	A/E	66.0	0.3	0	65.7	0.6	0	65.5	0.8	0	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																		
														18 feet			20 feet			22 feet			–			–			–		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2C-NB121	17	South St/ Indiana St	ESW-32	Seg2C-NB1	SFR	1	71.4	71.4	71.6	0	0.2	B (67)	A/E	71.5	0.1	0	71.5	0.1	0	71.4	0.2	0	–	–	–	–	–	–	–	–	–
M-S2C-NB122	17	Indiana St	ESW-32	Seg2C-NB1	SFR	2	59.4	59.4	59.9	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB123	17	Indiana St	ESW-32	Seg2C-NB1	SFR	2	58.3	58.3	58.8	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB124	17	Indiana St	ESW-32	Seg2C-NB1	SFR	2	58.3	58.3	58.7	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB125	17	Indiana St	ESW-32	Seg2C-NB1	SFR	2	58.4	58.4	59.0	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB126	17	Illinois St	ESW-32	Seg2C-NB1	SFR	2	59.2	59.2	59.7	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB127	17	Illinois St/Water St	ESW-32	Seg2C-NB1	SFR	2	59.5	59.5	60.0	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB128	17	Illinois St/Water St	ESW-32	Seg2C-NB1	SFR	2	58.2	58.2	58.7	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB129	17	West St	ESW-32	Seg2C-NB1	SFR	2	57.7	57.7	58.2	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB130	17	West St	ESW-32	Seg2C-NB1	SFR	2	55.1	55.1	55.6	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB131	17	West St	ESW-32	Seg2C-NB1	SFR	2	62.0	62.0	62.3	0	0.3	B (67)	None	62.0	0.3	0	61.7	0.6	0	61.5	0.8	0	–	–	–	–	–	–	–	–	–
M-S2C-NB132	17	West St	ESW-32	Seg2C-NB1	SFR	2	56.5	56.5	56.7	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-29. Predicted Future Noise and Barrier Analysis (NSA 17) - Seg2C-NB2 – Alternative 3

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)									–			–			–		
														18 feet			20 feet			22 feet											
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2C-NB133	17	Fay Ln	ESW-33	Seg2C-NB2	Apartment	6	60.8	60.8	61.3	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB134	17	Fay Ln	ESW-33	Seg2C-NB2	Apartment	6	61.1	61.1	61.5	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB135	17	Fay Ln	ESW-33	Seg2C-NB2	Apartment	6	61.5	61.5	61.9	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB136	17	Fay Ln	ESW-33	Seg2C-NB2	Apartment	6	59.3	59.3	59.7	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB137	17	Fay Ln	ESW-33	Seg2C-NB2	Apartment Pool	1	62.8	62.8	63.8	0	1.0	B (67)	None	63.0	0.8	0	62.4	1.4	0	62.0	1.8	–	–	–	–	–	–	–	–	–	–
M-S2C-NB138	17	Fay Ln	ESW-33	Seg2C-NB2	Apartment Pool	1	51.3	51.3	51.7	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB139	17	Fay Ln /West St	ESW-33	Seg2C-NB2	Apartment	2	57.9	57.9	58.0	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB140	17	Fay Ln	ESW-33	Seg2C-NB2	Apartment	12	55.5	55.5	55.9	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB141	17	Broadway	ESW-33	Seg2C-NB2	Apartment	8	69.4	69.4	70.0	0	0.6	B (67)	A/E	70.0	0.0	0	69.9	0.1	0	69.9	0.1	0	–	–	–	–	–	–	–	–	–
M-S2C-NB142	17	Broadway	ESW-33	Seg2C-NB2	Apartment	8	63.7	63.7	64.4	0	0.7	B (67)	None	64.4	0.0	0	64.3	0.1	0	64.3	0.1	0	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-30. Predicted Future Noise and Barrier Analysis (NSA 17) - Seg2C-NB3 – Alternative 3

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																				
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)														
														18 feet			20 feet			22 feet			–			–			–		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2C-NB143	17	Walnut St/Broadway	ESW-34	Seg2C-NB3	SFR	1	69.6	69.6	71.0	0	1.4	B (67)	A/E	70.4	0.6	0	70.0	1.0	0	69.7	1.3	0	–	–	–	–	–	–	–	–	–
M-S2C-NB144	17	Walnut St	ESW-34	Seg2C-NB3	SFR	1	69.6	69.6	70.6	0	1.0	B (67)	A/E	69.1	1.5	0	68.0	2.6	0	67.0	3.6	0	–	–	–	–	–	–	–	–	–
M-S2C-NB145	17	Walnut St	ESW-34	Seg2C-NB3	SFR	1	66.9	66.9	67.5	0	0.6	B (67)	A/E	66.1	1.4	0	65.0	2.5	0	64.0	3.5	0	–	–	–	–	–	–	–	–	–
M-S2C-NB146	17	Walnut St	ESW-34	Seg2C-NB3	SFR	1	65.3	65.3	65.7	0	0.4	B (67)	None	64.7	1.0	0	63.5	2.2	0	62.7	3.0	0	–	–	–	–	–	–	–	–	–
M-S2C-NB147	17	Walnut St	ESW-34	Seg2C-NB3	SFR	1	57.4	57.4	58.0	0	0.6	B (67)	None	57.3	0.7	0	56.4	1.6	0	55.8	2.2	0	–	–	–	–	–	–	–	–	–
M-S2C-NB148	17	Walnut St/Cherry St	ESW-34	Seg2C-NB3	Apartment	2	68.2	68.2	68.8	0	0.6	B (67)	A/E	67.3	1.5	0	65.9	2.9	0	64.8	4.0	0	–	–	–	–	–	–	–	–	–
M-S2C-NB149	17	Walnut St/Cherry St	ESW-34	Seg2C-NB3	Apartment	6	66.4	66.4	67.1	0	0.7	B (67)	A/E	65.8	1.3	0	64.4	2.7	0	63.5	3.6	0	–	–	–	–	–	–	–	–	–
M-S2C-NB150	17	Cherry St	ESW-34	Seg2C-NB3	SFR	1	62.0	62.0	62.6	0	0.6	B (67)	None	61.2	1.4	0	59.9	2.7	0	58.9	3.7	0	–	–	–	–	–	–	–	–	–
M-S2C-NB151	17	Walnut St/Broadway	ESW-34	Seg2C-NB3	Apartment	2	64.4	64.4	65.7	0	1.3	B (67)	None	65.6	0.1	0	65.6	0.1	0	65.6	0.1	0	–	–	–	–	–	–	–	–	–
M-S2C-NB152	17	Walnut St	ESW-34	Seg2C-NB3	Apartment	2	59.2	59.2	60.3	0	1.1	B (67)	None	60.2	0.1	0	60.1	0.2	0	60.0	0.3	0	–	–	–	–	–	–	–	–	–
M-S2C-NB153	17	Walnut St	ESW-34	Seg2C-NB3	Apartment	5	55.9	55.9	56.7	0	0.8	B (67)	None	56.7	0.0	0	56.1	0.6	0	55.7	1.0	0	–	–	–	–	–	–	–	–	–
M-S2C-NB154	17	Center St	ESW-34	Seg2C-NB3	Apartment	6	55.8	55.8	56.6	0	0.8	B (67)	None	56.1	0.5	0	55.8	0.8	0	55.4	1.2	0	–	–	–	–	–	–	–	–	–
M-S2C-NB155	17	Center St	ESW-34	Seg2C-NB3	Apartment	1	59.1	59.1	59.5	0	0.4	B (67)	None	58.8	0.7	0	58.1	1.4	0	57.6	1.9	0	–	–	–	–	–	–	–	–	–
M-S2C-NB156	17	Walnut St	ESW-34	Seg2C-NB3	Apartment	8	56.2	56.2	57.2	0	1.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB157	17	Center St	ESW-34	Seg2C-NB3	SFR	1	54.7	54.7	55.8	0	1.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB158	17	Center St	ESW-34	Seg2C-NB3	SFR	1	55.4	55.4	56.1	0	0.7	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB159	17	Center St	ESW-34	Seg2C-NB3	SFR	1	56.0	56.0	56.7	0	0.7	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-31. Predicted Future Noise and Barrier Analysis (NSA 18) - Seg2C-SB1 – Alternative 3

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														12 feet			14 feet			16 feet			18 feet			20 feet			22 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2C-SB58	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	65.1	65.1	65.2	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB59	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	64.2	64.2	64.2	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB60	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	63.7	63.7	63.8	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB61	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	60.5	60.5	60.7	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB62	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	62.3	62.3	62.5	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB63	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	61.1	61.1	61.2	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB64	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	61.0	61.0	61.2	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB65	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	61.7	61.7	61.8	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB66	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	62.2	62.2	62.4	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB67	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	62.7	62.7	62.9	0	0.2	B (67)	None	62.8	0.1	0	62.8	0.1	0	62.7	0.2	0	62.7	0.2	0	62.6	0.3	0	62.6	0.3	0
M-S2C-SB68	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	64.7	64.7	64.8	0	0.1	B (67)	None	64.8	0.0	0	64.8	0.0	0	64.8	0.0	0	64.8	0.0	0	64.7	0.1	0	64.7	0.1	0
M-S2C-SB69	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	67.8	67.8	68.0	0	0.2	B (67)	A/E	67.9	0.1	0	67.9	0.1	0	67.8	0.2	0	67.8	0.2	0	67.7	0.3	0	67.7	0.3	0
M-S2C-SB70	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	67.1	67.1	67.4	0	0.3	B (67)	A/E	67.4	0.0	0	67.3	0.1	0	67.3	0.1	0	67.2	0.2	0	67.1	0.3	0	67.0	0.4	0
M-S2C-SB71	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	67.1	67.1	67.4	0	0.3	B (67)	A/E	67.2	0.2	0	67.1	0.3	0	67.0	0.4	0	66.9	0.5	0	66.8	0.6	0	66.8	0.6	0
M-S2C-SB72	18	Aspen St/Beacon Ave	ESW-35	Seg2C-SB1	SFR	2	56.7	56.7	56.9	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB73	18	Chateau Ave/ Aspen St	ESW-35	Seg2C-SB1	SFR	2	61.2	61.2	61.5	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB74	18	Aspen St/Locust Ave	ESW-35	Seg2C-SB1	SFR	2	57.6	57.6	58.0	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB75	18	Disneyland Dr/South St	ESW-35	Seg2C-SB1	SFR	2	60.4	60.4	60.9	0	0.5	B (67)	None	60.7	0.2	0	60.4	0.5	0	60.2	0.7	0	60.0	0.9	0	59.9	1.0	0	59.7	1.2	0
M-S2C-SB76	18	Disneyland Dr/South St	ESW-35	Seg2C-SB1	SFR	2	60.1	60.1	60.4	0	0.3	B (67)	None	60.3	0.1	0	60.1	0.3	0	59.9	0.5	0	59.8	0.6	0	59.6	0.8	0	59.4	1.0	0
M-S2C-SB77	18	South St/ Hazelwood St	ESW-35	Seg2C-SB1	SFR	1	54.3	54.3	54.7	0	0.4	B (67)	None	54.6	0.1	0	54.4	0.3	0	54.2	0.5	0	53.9	0.8	0	51.9	2.8	0	51.6	3.1	0
M-S2C-SB78	18	Hazelwood St	ESW-35	Seg2C-SB1	SFR	1	62.1	62.1	62.3	0	0.2	B (67)	None	62.1	0.2	0	61.9	0.4	0	61.7	0.6	0	61.6	0.7	0	61.2	1.1	0	61	1.3	0
M-S2C-SB79	18	Hazelwood St	ESW-35	Seg2C-SB1	SFR	1	62.0	62.0	62.3	0	0.3	B (67)	None	62.2	0.1	0	62	0.3	0	61.9	0.4	0	61.7	0.6	0	61.3	1.0	0	61.1	1.2	0
M-S2C-SB80	18	Hazelwood St	ESW-35	Seg2C-SB1	SFR	1	55.1	55.1	55.5	0	0.4	B (67)	None	55.3	0.2	0	55.1	0.4	0	55.0	0.5	0	55.0	0.5	0	53.9	1.6	0	53.7	1.8	0
M-S2C-SB81	18	Hazelwood St/ Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	58.0	58.0	58.3	0	0.3	B (67)	None	57.9	0.4	0	57.6	0.7	0	57.3	1.0	0	57.0	1.3	0	56.8	1.5	0	56.6	1.7	0
M-S2C-SB82	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	68.2	68.2	68.4	0	0.2	B (67)	A/E	68.5	-0.1	0	68.3	0.1	0	68.1	0.3	0	68.0	0.4	0	67.9	0.5	0	67.7	0.7	0
M-S2C-SB83	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	68.4	68.4	68.6	0	0.2	B (67)	A/E	68.6	0.0	0	68.4	0.2	0	68.2	0.4	0	68.0	0.6	0	67.9	0.7	0	67.8	0.8	0
M-S2C-SB84	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	68.0	68.0	68.2	0	0.2	B (67)	A/E	68.4	-0.2	0	68.2	0.0	0	68.1	0.1	0	67.9	0.3	0	67.8	0.4	0	67.7	0.5	0
M-S2C-SB85	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	68.2	68.2	68.4	0	0.2	B (67)	A/E	68.7	-0.3	0	68.7	-0.3	0	68.6	-0.2	0	68.5	-0.1	0	68.4	0.0	0	68.2	0.2	0
M-S2C-SB86	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	67.3	67.3	67.4	0	0.1	B (67)	A/E	67.3	0.1	0	67.3	0.1	0	67.8	-0.4	0	67.7	-0.3	0	67.6	-0.2	0	67.4	0.0	0
M-S2C-SB87	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	66.5	66.5	66.6	0	0.1	B (67)	A/E	66.5	0.1	0	66.7	-0.1	0	67.1	-0.5	0	67.0	-0.4	0	66.9	-0.3	0	66.7	-0.1	0
M-S2C-SB88	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	67.3	67.3	67.5	0	0.2	B (67)	A/E	67.4	0.1	0	68	-0.5	0	67.9	-0.4	0	67.7	-0.2	0	67.6	-0.1	0	67.5	0.0	0
M-S2C-SB89	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	69.2	69.2	69.4	0	0.2	B (67)	A/E	69.1	0.3	0	68.9	0.5	0	68.8	0.6	0	68.6	0.8	0	68.5	0.9	0	68.4	1.0	0
M-S2C-SB90	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	66.9	66.9	67.0	0	0.1	B (67)	A/E	66.9	0.1	0	66.8	0.2	0	66.8	0.2	0	66.8	0.2	0	66.8	0.2	0	67	0.0	0
M-S2C-SB91	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	67.2	67.2	67.3	0	0.1	B (67)	A/E	67.2	0.1	0	67.2	0.1	0	67.2	0.1	0	67.4	-0.1	0	67.4	-0.1	0	67.4	-0.1	0
M-S2C-SB92	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	65.9	65.9	66.0	0	0.1	B (67)	A/E	66.0	0.0	0	66.1	-0.1	0	66.3	-0.3	0	66.3	-0.3	0	66.1	-0.1	0	66	0.0	0
M-S2C-SB93	18	Hazelwood St	ESW-35	Seg2C-SB1	SFR	2	56.9	56.9	57.2	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB94	18	Hazelwood St	ESW-35	Seg2C-SB1	SFR	3	57.2	57.2	57.6	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB95	18	Hazelwood St	ESW-35	Seg2C-SB1	SFR	3	56.4	56.4	56.8	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB96	18	Pepper St/ Elderwood Ave	ESW-35	Seg2C-SB1	SFR	1	54.9	54.9	55.4	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB97	18	Hazelwood St	ESW-35	Seg2C-SB1	SFR	2	56.0	56.0	56.4	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB98	18	Hazelwood St	ESW-35	Seg2C-SB1	SFR	1	62.0	62.0	62.2	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB99	18	Hazelwood St	ESW-35	Seg2C-SB1	SFR	2	56.9	56.9	57.1	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-32. Predicted Future Noise and Barrier Analysis (NSA 18) - Seg2C-SB2 – Alternative 3

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														6 feet			8 feet			10 feet			12 feet			14 feet			16 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2C-SB100	18	Manchester Ave/Santa Ana St	–	Seg2C-SB2	Park	1	70.7	70.7	70.8	0	0.1	C (67)	A/E	70.8	0.0	0	70.7	0.1	0	70.6	0.2	0	70.6	0.2	0	70.6	0.2	0	70.5	0.3	0
M-S2C-SB101	18	Manchester Ave/Santa Ana St	–	Seg2C-SB2	Park	1	67.3	67.3	67.4	0	0.1	C (67)	A/E	67.3	0.1	0	67.2	0.2	0	67.2	0.2	0	67.2	0.2	0	67.1	0.3	0	67.1	0.3	0
M-S2C-SB102	18	Manchester Ave/Santa Ana St	–	Seg2C-SB2	Park	1	64.8	64.8	65.0	0	0.2	C (67)	None	64.8	0.2	0	64.7	0.3	0	64.7	0.3	0	64.7	0.3	0	64.7	0.3	0	64.6	0.4	0

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-33. Predicted Future Noise and Barrier Analysis (NSA 19) - Seg2D-NB1 – Alternative 3

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)									–			–			–		
														18 feet			20 feet			22 feet										
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2D-NB161	19	Pearl St	ESW-36	Seg2D-NB1	Apartment-Outdoor Area	1	44.0	44.0	45.2	0	1.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB162	19	Pearl St	ESW-36	Seg2D-NB1	Apartment Pool	1	44.8	44.8	46.0	0	1.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB163	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	55.7	55.7	56.2	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB164	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	53.0	53.0	53.6	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB165	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	65.8	65.8	66.4	0	0.6	B (67)	A/E	66.1	0.3	0	65.8	0.6	0	65.5	0.9	0	–	–	–	–	–	–	–	–
M-S2D-NB166	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	64.5	64.5	65.3	0	0.8	B (67)	None	64.8	0.5	0	64.4	0.9	0	64.0	1.3	0	–	–	–	–	–	–	–	–
M-S2D-NB167	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	61.8	61.8	62.6	0	0.8	B (67)	None	62.2	0.4	0	61.7	0.9	0	61.3	1.3	0	–	–	–	–	–	–	–	–
M-S2D-NB168	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	59.3	59.3	60.2	0	0.9	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB169	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	56.5	56.5	57.5	0	1.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB170	19	Wilshire Ave	ESW-36	Seg2D-NB1	SFR	1	64.7	64.7	65.2	0	0.5	B (67)	None	64.8	0.4	0	64.5	0.7	0	64.2	1.0	0	–	–	–	–	–	–	–	–
M-S2D-NB171	19	Wilshire Ave/ Birchmont Dr	ESW-36	Seg2D-NB1	SFR	1	62.9	62.9	63.3	0	0.4	B (67)	None	62.9	0.4	0	62.5	0.8	0	62.2	1.1	0	–	–	–	–	–	–	–	–
M-S2D-NB172	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo Pool	1	64.0	64.0	64.5	0	0.5	B (67)	None	64.2	0.3	0	63.9	0.6	0	63.6	0.9	0	–	–	–	–	–	–	–	–
M-S2D-NB173	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	68.0	68.0	68.3	0	0.3	B (67)	A/E	68.1	0.2	0	68.0	0.3	0	67.9	0.4	0	–	–	–	–	–	–	–	–
M-S2D-NB174	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	67.9	67.9	68.1	0	0.2	B (67)	A/E	68.0	0.1	0	67.9	0.2	0	67.8	0.3	0	–	–	–	–	–	–	–	–
M-S2D-NB175	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	67.7	67.7	68.0	0	0.3	B (67)	A/E	67.8	0.2	0	67.7	0.3	0	67.6	0.4	0	–	–	–	–	–	–	–	–
M-S2D-NB176	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	67.3	67.3	67.5	0	0.2	B (67)	A/E	67.4	0.1	0	67.3	0.2	0	67.2	0.3	0	–	–	–	–	–	–	–	–
M-S2D-NB177	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	66.7	66.7	67.0	0	0.3	B (67)	A/E	66.8	0.2	0	66.7	0.3	0	66.6	0.4	0	–	–	–	–	–	–	–	–
M-S2D-NB178	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	67.2	67.2	67.5	0	0.3	B (67)	A/E	67.3	0.2	0	67.2	0.3	0	67.1	0.4	0	–	–	–	–	–	–	–	–
M-S2D-NB179	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	67.5	67.5	67.8	0	0.3	B (67)	A/E	67.7	0.1	0	67.6	0.2	0	67.5	0.3	0	–	–	–	–	–	–	–	–
M-S2D-NB180	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	68.2	68.2	68.5	0	0.3	B (67)	A/E	68.3	0.2	0	68.2	0.3	0	68.2	0.3	0	–	–	–	–	–	–	–	–
M-S2D-NB181	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	60.2	60.2	61.0	0	0.8	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB182	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	2	54.8	54.8	55.7	0	0.9	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB183	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	2	49.7	49.7	50.7	0	1.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB184	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	2	55.8	55.8	56.9	0	1.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB185	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	2	57.9	57.9	58.7	0	0.8	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB186	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	2	56.0	56.0	56.9	0	0.9	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB161	19	Pearl St	ESW-36	Seg2D-NB1	Apartment-Outdoor Area	1	44.0	44.0	45.2	0	1.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB162	19	Pearl St	ESW-36	Seg2D-NB1	Apartment Pool	1	44.8	44.8	46.0	0	1.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)									–			–			–		
														18 feet			20 feet			22 feet											
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2D-NB163	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	55.7	55.7	56.2	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB164	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	53.0	53.0	53.6	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB165	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	65.8	65.8	66.4	0	0.6	B (67)	A/E	66.1	0.3	0	65.8	0.6	0	65.5	0.9	0	–	–	–	–	–	–	–	–	–
M-S2D-NB166	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	64.5	64.5	65.3	0	0.8	B (67)	None	64.8	0.5	0	64.4	0.9	0	64.0	1.3	0	–	–	–	–	–	–	–	–	–
M-S2D-NB167	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	61.8	61.8	62.6	0	0.8	B (67)	None	62.2	0.4	0	61.7	0.9	0	61.3	1.3	0	–	–	–	–	–	–	–	–	–
M-S2D-NB168	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	59.3	59.3	60.2	0	0.9	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB169	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	56.5	56.5	57.5	0	1.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB170	19	Wilshire Ave	ESW-36	Seg2D-NB1	SFR	1	64.7	64.7	65.2	0	0.5	B (67)	None	64.8	0.4	0	64.5	0.7	0	64.2	1.0	0	–	–	–	–	–	–	–	–	–
M-S2D-NB171	19	Wilshire Ave/ Birchmont Dr	ESW-36	Seg2D-NB1	SFR	1	62.9	62.9	63.3	0	0.4	B (67)	None	62.9	0.4	0	62.5	0.8	0	62.2	1.1	0	–	–	–	–	–	–	–	–	–
M-S2D-NB172	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo Pool	1	64.0	64.0	64.5	0	0.5	B (67)	None	64.2	0.3	0	63.9	0.6	0	63.6	0.9	0	–	–	–	–	–	–	–	–	–
M-S2D-NB173	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	68.0	68.0	68.3	0	0.3	B (67)	A/E	68.1	0.2	0	68.0	0.3	0	67.9	0.4	0	–	–	–	–	–	–	–	–	–
M-S2D-NB174	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	67.9	67.9	68.1	0	0.2	B (67)	A/E	68.0	0.1	0	67.9	0.2	0	67.8	0.3	0	–	–	–	–	–	–	–	–	–
M-S2D-NB175	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	67.7	67.7	68.0	0	0.3	B (67)	A/E	67.8	0.2	0	67.7	0.3	0	67.6	0.4	0	–	–	–	–	–	–	–	–	–
M-S2D-NB176	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	67.3	67.3	67.5	0	0.2	B (67)	A/E	67.4	0.1	0	67.3	0.2	0	67.2	0.3	0	–	–	–	–	–	–	–	–	–
M-S2D-NB177	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	66.7	66.7	67.0	0	0.3	B (67)	A/E	66.8	0.2	0	66.7	0.3	0	66.6	0.4	0	–	–	–	–	–	–	–	–	–
M-S2D-NB178	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	67.2	67.2	67.5	0	0.3	B (67)	A/E	67.3	0.2	0	67.2	0.3	0	67.1	0.4	0	–	–	–	–	–	–	–	–	–
M-S2D-NB179	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	67.5	67.5	67.8	0	0.3	B (67)	A/E	67.7	0.1	0	67.6	0.2	0	67.5	0.3	0	–	–	–	–	–	–	–	–	–
M-S2D-NB180	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	68.2	68.2	68.5	0	0.3	B (67)	A/E	68.3	0.2	0	68.2	0.3	0	68.2	0.3	0	–	–	–	–	–	–	–	–	–
M-S2D-NB181	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	60.2	60.2	61.0	0	0.8	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB182	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	2	54.8	54.8	55.7	0	0.9	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB183	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	2	49.7	49.7	50.7	0	1.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB184	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	2	55.8	55.8	56.9	0	1.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB185	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	2	57.9	57.9	58.7	0	0.8	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB186	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	2	56.0	56.0	56.9	0	0.9	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-34. Predicted Future Noise and Barrier Analysis (NSA 19) - Seg2D-NB2 – Alternative 3

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																						
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)														
														18 feet			20 feet			22 feet			–			–			–		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2D-NB187	19	Linden Pl/Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	65.0	65.0	65.4	0	0.4	B (67)	None	64.1	1.3	0	63.6	1.8	0	63.1	2.3	0	–	–	–	–	–	–	–	–	–
M-S2D-NB188	19	Linden Pl/Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	66.6	66.6	67.0	0	0.4	B (67)	A/E	65.7	1.3	0	64.9	2.1	0	64.2	2.8	0	–	–	–	–	–	–	–	–	–
M-S2D-NB189	19	Linden Pl/Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	61.7	61.7	62.1	0	0.4	B (67)	None	61.1	1.0	0	60.5	1.6	0	59.9	2.2	0	–	–	–	–	–	–	–	–	–
M-S2D-NB190	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	2	60.3	60.3	60.7	0	0.4	B (67)	None	–	–	0	–	–	0	–	–	0	–	–	–	–	–	–	–	–	–
M-S2D-NB191	19	Parkwood St/Manor St	ESW-37	Seg2D-NB2	SFR	2	63.7	63.7	64.1	0	0.4	B (67)	None	62.8	1.3	0	62.0	2.1	0	61.3	2.8	0	–	–	–	–	–	–	–	–	–
M-S2D-NB192	19	Parkwood St/Manor St	ESW-37	Seg2D-NB2	SFR	1	59.7	59.7	60.1	0	0.4	B (67)	None	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB193	19	Parkwood St/Manor St	ESW-37	Seg2D-NB2	SFR	1	59.4	59.4	60.0	0	0.6	B (67)	None	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB194	19	Westmont Dr/Manor St	ESW-37	Seg2D-NB2	SFR	1	65.4	65.4	65.9	0	0.5	B (67)	None	64.9	1.0	0	64.1	1.8	0	63.5	2.4	0	–	–	–	–	–	–	–	–	–
M-S2D-NB195	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	65.0	65.0	65.5	0	0.5	B (67)	None	64.8	0.7	0	64.1	1.4	0	63.5	2.0	0	–	–	–	–	–	–	–	–	–
M-S2D-NB196	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	63.8	63.8	64.3	0	0.5	B (67)	None	62.9	1.4	0	62.0	2.3	0	61.2	3.1	0	–	–	–	–	–	–	–	–	–
M-S2D-NB197	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	64.6	64.6	65.2	0	0.6	B (67)	None	65.0	0.2	0	64.4	0.8	0	63.8	1.4	0	–	–	–	–	–	–	–	–	–
M-S2D-NB198	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	64.6	64.6	65.2	0	0.6	B (67)	None	65.1	0.1	0	64.5	0.7	0	63.9	1.3	0	–	–	–	–	–	–	–	–	–
M-S2D-NB199	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	64.5	64.5	65.0	0	0.5	B (67)	None	65.2	-0.2	0	64.6	0.4	0	64.0	1.0	0	–	–	–	–	–	–	–	–	–
M-S2D-NB200	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	61.2	61.2	61.7	0	0.5	B (67)	None	62	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB201	19	Manor St	ESW-37	Seg2D-NB2	SFR	2	55.5	55.5	56.3	0	0.8	B (67)	None	56	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB202	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	3	53.7	53.7	54.6	0	0.9	B (67)	None	55	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB203	19	Manor St	ESW-37	Seg2D-NB2	SFR	3	56.2	56.2	56.6	0	0.4	B (67)	None	57	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB187	19	Linden Pl/Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	65.0	65.0	65.4	0	0.4	B (67)	None	64.1	1.3	0	63.6	1.8	0	63.1	2.3	0	–	–	–	–	–	–	–	–	–
M-S2D-NB188	19	Linden Pl/Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	66.6	66.6	67.0	0	0.4	B (67)	A/E	65.7	1.3	0	64.9	2.1	0	64.2	2.8	0	–	–	–	–	–	–	–	–	–
M-S2D-NB189	19	Linden Pl/Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	61.7	61.7	62.1	0	0.4	B (67)	None	61.1	1.0	0	60.5	1.6	0	59.9	2.2	0	–	–	–	–	–	–	–	–	–
M-S2D-NB190	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	2	60.3	60.3	60.7	0	0.4	B (67)	None	–	–	0	–	–	0	–	–	0	–	–	–	–	–	–	–	–	–
M-S2D-NB191	19	Parkwood St/Manor St	ESW-37	Seg2D-NB2	SFR	2	63.7	63.7	64.1	0	0.4	B (67)	None	62.8	1.3	0	62.0	2.1	0	61.3	2.8	0	–	–	–	–	–	–	–	–	–
M-S2D-NB192	19	Parkwood St/Manor St	ESW-37	Seg2D-NB2	SFR	1	59.7	59.7	60.1	0	0.4	B (67)	None	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB193	19	Parkwood St/Manor St	ESW-37	Seg2D-NB2	SFR	1	59.4	59.4	60.0	0	0.6	B (67)	None	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB194	19	Westmont Dr/Manor St	ESW-37	Seg2D-NB2	SFR	1	65.4	65.4	65.9	0	0.5	B (67)	None	64.9	1.0	0	64.1	1.8	0	63.5	2.4	0	–	–	–	–	–	–	–	–	–
M-S2D-NB195	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	65.0	65.0	65.5	0	0.5	B (67)	None	64.8	0.7	0	64.1	1.4	0	63.5	2.0	0	–	–	–	–	–	–	–	–	–
M-S2D-NB196	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	63.8	63.8	64.3	0	0.5	B (67)	None	62.9	1.4	0	62.0	2.3	0	61.2	3.1	0	–	–	–	–	–	–	–	–	–
M-S2D-NB197	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	64.6	64.6	65.2	0	0.6	B (67)	None	65.0	0.2	0	64.4	0.8	0	63.8	1.4	0	–	–	–	–	–	–	–	–	–
M-S2D-NB198	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	64.6	64.6	65.2	0	0.6	B (67)	None	65.1	0.1	0	64.5	0.7	0	63.9	1.3	0	–	–	–	–	–	–	–	–	–
M-S2D-NB199	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	64.5	64.5	65.0	0	0.5	B (67)	None	65.2	-0.2	0	64.6	0.4	0	64.0	1.0	0	–	–	–	–	–	–	–	–	–
M-S2D-NB200	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	61.2	61.2	61.7	0	0.5	B (67)	None	62	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB201	19	Manor St	ESW-37	Seg2D-NB2	SFR	2	55.5	55.5	56.3	0	0.8	B (67)	None	56	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB202	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	3	53.7	53.7	54.6	0	0.9	B (67)	None	55	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB203	19	Manor St	ESW-37	Seg2D-NB2	SFR	3	56.2	56.2	56.6	0	0.4	B (67)	None	57	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-35. Predicted Future Noise and Barrier Analysis (NSA 19) - Seg2D-NB3 and NB4 – Alternative 3

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														18 feet			20 feet			22 feet			–			–			–		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2D-NB204	19	Chippewa Ave/ Westmont Dr	ESW-38	Seg2D-NB3-4	Apartment/ Condo Pool	1	65.6	65.6	66.0	0	0.4	B (67)	A/E	64.4	1.6	0	63.7	2.3	0	63.2	2.8	0	–	–	–	–	–	–	–	–	–
M-S2D-NB205	19	Westmont Dr	ESW-38	Seg2D-NB3-4	SFR	1	62.9	62.9	63.3	0	0.4	B (67)	None	62.3	1.0	0	61.6	1.7	0	61.0	2.3	0	–	–	–	–	–	–	–	–	–
M-S2D-NB208	19	Chippewa Ave	ESW-38	Seg2D-NB3-4	SFR	1	59.8	59.8	60.4	0	0.6	B (67)	None	59.2	1.2	0	58.7	1.7	0	58.3	2.1	0	–	–	–	–	–	–	–	–	–
M-S2D-NB209	19	Chippewa Ave/ Glencrest Ave	ESW-38	Seg2D-NB3-4	Apartment-Outdoor Area	1	63.0	63.0	63.4	0	0.4	B (67)	None	62.3	1.1	0	61.5	1.9	0	60.8	2.6	0	–	–	–	–	–	–	–	–	–
M-S2D-NB210	19	Chippewa Ave/ Glencrest Ave	ESW-38	Seg2D-NB3-4	Apartment/ Condo	1	66.0	66.0	66.3	0	0.3	B (67)	A/E	65.1	1.2	0	64.4	1.9	0	63.5	2.8	0	–	–	–	–	–	–	–	–	–
M-S2D-NB211	19	Chippewa Ave/ Glencrest Ave	ESW-38	Seg2D-NB3-4	Apartment/ Condo	4	62.4	62.4	62.8	0	0.4	B (67)	None	61.6	1.2	0	60.9	1.9	0	60.3	2.5	0	–	–	–	–	–	–	–	–	–
M-S2D-NB212	19	Chippewa Ave	ESW-38	Seg2D-NB3-4	Apartment/ Condo	4	61.4	61.4	61.9	0	0.5	B (67)	None	60.7	1.2	0	60.0	1.9	0	59.4	2.5	0	–	–	–	–	–	–	–	–	–
M-S2D-NB213	19	Chippewa Ave	ESW-38	Seg2D-NB3-4	Apartment/ Condo	4	60.0	60.0	60.5	0	0.5	B (67)	None	59.3	1.2	0	58.6	1.9	0	58.0	2.5	0	–	–	–	–	–	–	–	–	–
M-S2D-NB214	19	Greenleaf Ave/ Nutwood St	ESW-39	Seg2D-NB3-4	Apartment/ Condo Pool	1	65.5	65.5	66.0	0	0.5	C (67)	A/E	64.7	1.3	0	63.6	2.4	0	63.1	2.9	0	–	–	–	–	–	–	–	–	–
M-S2D-NB215	19	Greenleaf Ave	ESW-39	Seg2D-NB3-4	Apartment-Outdoor Area	1	65.8	65.8	66.2	0	0.4	C (67)	A/E	64.8	1.4	0	64.0	2.2	0	63.5	2.7	0	–	–	–	–	–	–	–	–	–
M-S2D-NB216	19	Greenleaf Ave	ESW-39	Seg2D-NB3-4	Apartment/ Condo	2	64.8	64.8	65.3	0	0.5	B (67)	None	64.1	1.2	0	63.3	2.0	0	62.6	2.7	0	–	–	–	–	–	–	–	–	–
M-S2D-NB217	19	Greenleaf Ave	ESW-39	Seg2D-NB3-4	Apartment/ Condo	2	65.6	65.6	66.0	0	0.4	B (67)	A/E	64.8	1.2	0	64.0	2.0	0	63.3	2.7	0	–	–	–	–	–	–	–	–	–
M-S2D-NB218	19	Greenleaf Ave	ESW-39	Seg2D-NB3-4	Apartment/ Condo	2	65.8	65.8	66.5	0	0.7	B (67)	A/E	65.4	1.1	0	65.0	1.5	0	64.7	1.8	0	–	–	–	–	–	–	–	–	–
M-S2D-NB206	19	Westmont Dr	ESW-39	Seg2D-NB3-4	Apartment/ Condo	2	64.7	64.7	65.1	0	0.4	B (67)	None	63.9	1.2	0	63.0	2.1	0	62.3	2.8	0	–	–	–	–	–	–	–	–	–
M-S2D-NB207	19	Chippewa Ave	ESW-39	Seg2D-NB3-4	Apartment/ Condo	2	64.6	64.6	65.0	0	0.4	B (67)	None	64.0	1.0	0	63.3	1.7	0	62.8	2.2	0	–	–	–	–	–	–	–	–	–
M-S2D-NB219	19	Greenleaf Ave/ Nutwood St	ESW-39	Seg2D-NB3-4	Apartment/ Condo	2	55.6	55.6	56.1	0	0.5	B (67)	None	54.9	1.2	0	54.1	2.0	0	53.5	2.6	0	–	–	–	–	–	–	–	–	–
M-S2D-NB220	19	Greenleaf Ave	ESW-39	Seg2D-NB3-4	Apartment/ Condo	2	61.6	61.6	62.1	0	0.5	B (67)	None	60.7	1.4	0	59.8	2.3	0	59.0	3.1	0	–	–	–	–	–	–	–	–	–
M-S2D-NB221	19	Greenleaf Ave	ESW-39	Seg2D-NB3-4	Apartment/ Condo	2	59.7	59.7	60.1	0	0.4	B (67)	None	59.1	1.0	0	58.6	1.5	0	58.0	2.1	0	–	–	–	–	–	–	–	–	–
M-S2D-NB222	19	Greenleaf Ave	ESW-39	–	Apartment-Outdoor Area	1	64.2	64.2	64.6	0	0.4	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB223	19	Glenoaks Ave/ Greenleaf Ave	ESW-39	–	SFR	1	63.6	63.6	64.1	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB224	19	Holly St/ Catalpa Ave	ESW-39	–	SFR	1	60.5	60.5	60.9	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB225	19	Holly St/ Catalpa Ave	ESW-40	–	SFR	1	62.6	62.6	63.0	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB226	19	Maple St	ESW-40	–	SFR	1	62.2	62.2	62.6	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB227	19	Glenoaks Ave/ Greenleaf Ave	ESW-39	–	SFR	1	61.0	61.0	61.5	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																		
														18 feet			20 feet			22 feet			–			–			–		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2D-NB228	19	Glenoaks Ave/ Greenleaf Ave	ESW-39	–	SFR	1	59.5	59.5	60.1	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB229	19	Holly St/ Catalpa Ave	ESW-39	–	SFR	1	57.8	57.8	58.3	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB230	19	Maple St	ESW-40	–	SFR	1	61.2	61.2	61.6	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB231	19	Maple St	ESW-40	–	SFR	1	61.9	61.9	62.4	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB232	19	Ivy Ln	ESW-40	–	SFR	1	60.9	60.9	61.3	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB233	19	Ivy Ln	ESW-41	–	SFR	1	64.4	64.4	64.8	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB234	19	Fir Ave	ESW-41	–	SFR	1	63.4	63.4	63.8	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB235	19	Fir Ave	ESW-41	–	SFR	1	62.3	62.3	62.7	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB236	19	Dogwood Ave	ESW-41	–	SFR	1	60.8	60.8	61.1	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB237	19	Dogwood Ave	ESW-41	–	SFR	1	59.1	59.1	59.4	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB238	19	Dogwood Ave	ESW-41	–	SFR	1	58.0	58.0	58.3	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB239	19	Maple St	ESW-40	–	SFR	2	54.6	54.6	55.0	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB240	19	Maple St	ESW-40	–	SFR	2	58.2	58.2	58.7	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB241	19	Fir Ave	ESW-41	–	SFR	2	60.1	60.1	60.5	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB242	19	Dogwood Ave	ESW-41	–	SFR	2	57.9	57.9	58.2	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB243	19	Dogwood Ave	ESW-41	–	SFR	2	56.7	56.7	56.9	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-36. Predicted Future Noise and Barrier Analysis (NSA 20) - Seg2D-SB – Alternative 3

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																		
														6 feet			8 feet			10 feet			12 feet			14 feet			16 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2D-SB104	20	Sequoia Ave	–	–	School	1	62.1	62.1	62.2	0	0.1	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB105	20	Sequoia Ave/Siesta St	–	–	SFR	1	62.3	62.3	62.6	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB106	20	Sequoia Ave/Siesta St	–	–	SFR	1	63.3	63.3	63.6	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB107	20	Sequoia Ave	–	–	SFR	1	63.9	63.9	64.2	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB108	20	Sequoia Ave/Monterey St	–	–	SFR	1	64.1	64.1	64.4	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB109	20	Sequoia Ave/Monterey St	–	–	SFR	1	63.8	63.8	64.0	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB110	20	Sequoia Ave	–	–	SFR	1	63.3	63.3	63.4	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB111	20	Siesta St	–	–	SFR	1	59.6	59.6	60.0	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB112	20	Monterey St	–	–	SFR	2	56.6	56.6	57.0	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB113	20	Ventura St	–	–	SFR	2	57.5	57.5	57.8	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB114	20	Alamo St	–	–	SFR	2	61.3	61.3	61.4	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB115	20	Siesta St	–	–	SFR	2	58.9	58.9	59.2	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB116	20	Monterey St	–	–	SFR	2	58.1	58.1	58.4	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB117	20	Ventura St	–	–	SFR	2	58.3	58.3	58.5	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB118	20	Alamo St	–	–	SFR	2	59.9	59.9	60.1	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-37. Predicted Future Noise and Barrier Analysis (NSA 21) - Seg2E-NB1 – Alternative 3

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																						
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)														
														18 feet			20 feet			22 feet			–			–			–		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2E-NB244	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	63.6	63.6	63.9	0	0.3	B (67)	None	63.0	0.9	0	62.3	1.6	0	61.6	2.3	0	–	–	–	–	–	–	–	–	–
M-S2E-NB245	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	64.9	64.9	65.2	0	0.3	B (67)	None	64.3	0.9	0	63.4	1.8	0	62.5	2.7	0	–	–	–	–	–	–	–	–	–
M-S2E-NB246	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	66.4	66.4	66.7	0	0.3	B (67)	A/E	65.7	1.0	0	64.8	1.9	0	64.2	2.5	0	–	–	–	–	–	–	–	–	–
M-S2E-NB247	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	67.2	67.2	67.6	0	0.4	B (67)	A/E	66.7	0.9	0	65.9	1.7	0	65.3	2.3	0	–	–	–	–	–	–	–	–	–
M-S2E-NB248	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	67.6	67.6	68.0	0	0.4	B (67)	A/E	67.2	0.8	0	66.3	1.7	0	65.6	2.4	0	–	–	–	–	–	–	–	–	–
M-S2E-NB249	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	67.6	67.6	67.9	0	0.3	B (67)	A/E	67.1	0.8	0	66.2	1.7	0	65.6	2.3	0	–	–	–	–	–	–	–	–	–
M-S2E-NB250	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	67.5	67.5	67.9	0	0.4	B (67)	A/E	66.9	1.0	0	66.2	1.7	0	65.5	2.4	0	–	–	–	–	–	–	–	–	–
M-S2E-NB251	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	67.5	67.5	67.9	0	0.4	B (67)	A/E	66.9	1.0	0	66.2	1.7	0	65.5	2.4	0	–	–	–	–	–	–	–	–	–
M-S2E-NB252	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	67.6	67.6	67.9	0	0.3	B (67)	A/E	67.0	0.9	0	66.2	1.7	0	65.6	2.3	0	–	–	–	–	–	–	–	–	–
M-S2E-NB253	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	67.3	67.3	67.7	0	0.4	B (67)	A/E	66.9	0.8	0	66.1	1.6	0	65.4	2.3	0	–	–	–	–	–	–	–	–	–
M-S2E-NB254	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	67.6	67.6	67.9	0	0.3	B (67)	A/E	66.9	1.0	0	66.3	1.6	0	65.5	2.4	0	–	–	–	–	–	–	–	–	–
M-S2E-NB255	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	67.6	67.6	68.0	0	0.4	B (67)	A/E	67.0	1.0	0	66.3	1.7	0	65.5	2.5	0	–	–	–	–	–	–	–	–	–
M-S2E-NB256	21	Ventura St/Minot St	ESW-43	Seg2E-NB1	SFR	1	67.2	67.2	67.5	0	0.3	B (67)	A/E	66.6	0.9	0	66.0	1.5	0	65.2	2.3	0	–	–	–	–	–	–	–	–	–
M-S2E-NB257	21	Ventura St/Minot St	ESW-43	Seg2E-NB1	SFR	1	66.3	66.3	66.7	0	0.4	B (67)	A/E	65.8	0.9	0	65.2	1.5	0	64.5	2.2	0	–	–	–	–	–	–	–	–	–
M-S2E-NB258	21	Minot St	ESW-43	Seg2E-NB1	SFR	1	65.4	65.4	65.8	0	0.4	B (67)	None	65.0	0.8	0	64.4	1.4	0	63.8	2.0	0	–	–	–	–	–	–	–	–	–
M-S2E-NB259	21	Aetna St/Rhodes Ave	ESW-43	Seg2E-NB1	SFR	1	66.6	66.6	67.0	0	0.4	B (67)	A/E	66.2	0.8	0	65.6	1.4	0	64.9	2.1	0	–	–	–	–	–	–	–	–	–
M-S2E-NB260	21	Aetna St/Rhodes Ave	ESW-43	Seg2E-NB1	SFR	1	65.8	65.8	66.2	0	0.4	B (67)	A/E	65.3	0.9	0	64.6	1.6	0	64.0	2.2	0	–	–	–	–	–	–	–	–	–
M-S2E-NB261	21	Gilbert St	ESW-43	Seg2E-NB1	SFR	1	66.5	66.5	66.9	0	0.4	B (67)	A/E	66.5	0.4	0	66.2	0.7	0	65.8	1.1	0	–	–	–	–	–	–	–	–	–
M-S2E-NB262	21	Gilbert St	ESW-43	Seg2E-NB1	SFR	1	63.9	63.9	64.3	0	0.4	B (67)	None	63.7	0.6	0	63.0	1.3	0	62.4	1.9	0	–	–	–	–	–	–	–	–	–
M-S2E-NB263	21	Ferndale St	ESW-43	Seg2E-NB1	SFR	1	65.9	65.9	66.3	0	0.4	B (67)	A/E	65.5	0.8	0	64.8	1.5	0	64.2	2.1	0	–	–	–	–	–	–	–	–	–
M-S2E-NB264	21	Ferndale St	ESW-43	Seg2E-NB1	SFR	1	64.0	64.0	64.4	0	0.4	B (67)	None	63.6	0.8	0	62.9	1.5	0	62.3	2.1	0	–	–	–	–	–	–	–	–	–
M-S2E-NB265	21	Devonshire St	ESW-43	Seg2E-NB1	SFR	1	65.3	65.3	65.6	0	0.3	B (67)	None	64.7	0.9	0	63.9	1.7	0	63.1	2.5	0	–	–	–	–	–	–	–	–	–
M-S2E-NB266	21	Devonshire St	ESW-43	Seg2E-NB1	SFR	1	65.3	65.3	65.6	0	0.3	B (67)	None	64.6	1.0	0	64.0	1.6	0	63.1	2.5	0	–	–	–	–	–	–	–	–	–
M-S2E-NB267	21	Braeburn St/Avondale Ave	ESW-43	Seg2E-NB1	SFR	1	66.5	66.5	66.7	0	0.2	B (67)	A/E	65.9	0.8	0	65.3	1.4	0	64.6	2.1	0	–	–	–	–	–	–	–	–	–
M-S2E-NB268	21	Avondale Ave	ESW-43	Seg2E-NB1	SFR	1	66.4	66.4	66.6	0	0.2	B (67)	A/E	65.8	0.8	0	65.1	1.5	0	64.5	2.1	0	–	–	–	–	–	–	–	–	–
M-S2E-NB269	21	Avondale Ave/Elmira St	ESW-43	Seg2E-NB1	SFR	1	65.4	65.4	65.5	0	0.1	B (67)	None	64.7	0.8	0	63.9	1.6	0	63.2	2.3	0	–	–	–	–	–	–	–	–	–
M-S2E-NB270	21	Avondale Ave	ESW-43	Seg2E-NB1	SFR	1	64.5	64.5	64.5	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB271	21	Avondale Ave	ESW-43	Seg2E-NB1	SFR	1	63.9	63.9	64.0	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB272	21	Avondale Ave	ESW-43	Seg2E-NB1	SFR	1	63.6	63.6	63.5	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB273	21	Houston Ave	ESW-43	Seg2E-NB1	SFR	1	64.3	64.3	64.3	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB282	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	2	62.5	62.5	62.8	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																		
														18 feet			20 feet			22 feet			–			–			–		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2E-NB283	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	2	61.9	61.9	62.2	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB284	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	2	61.8	61.8	62.2	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB285	21	Ventura St	ESW-43	Seg2E-NB1	SFR	2	58.9	58.9	59.4	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB286	21	Ventura St	ESW-43	Seg2E-NB1	SFR	2	58.3	58.3	58.9	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB287	21	Ventura St	ESW-43	Seg2E-NB1	SFR	2	59.3	59.3	59.8	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB288	21	Ventura St	ESW-43	Seg2E-NB1	SFR	2	61.9	61.9	62.4	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB289	21	Ventura St/Minot St	ESW-43	Seg2E-NB1	SFR	2	59.2	59.2	59.6	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB290	21	Aetna St/Gilbert St	ESW-43	Seg2E-NB1	SFR	2	58.9	58.9	59.5	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB291	21	Ferndale St	ESW-43	Seg2E-NB1	SFR	2	60.4	60.4	60.9	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB292	21	Devonshire St	ESW-43	Seg2E-NB1	SFR	2	59.7	59.7	60.1	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB293	21	Braeburn St/Avondale Ave	ESW-43	Seg2E-NB1	SFR	2	61.0	61.0	61.5	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB294	21	Avondale Ave/Elmira St	ESW-43	Seg2E-NB1	SFR	2	58.6	58.6	58.8	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB295	21	Avondale Ave/Elmira St	ESW-43	Seg2E-NB1	SFR	2	60.6	60.6	60.7	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB296	21	Avondale Ave	ESW-43	Seg2E-NB1	SFR	2	62.1	62.1	62.1	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB297	21	Avondale Pl	ESW-43	Seg2E-NB1	SFR	2	62.5	62.5	62.5	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB302	21	Ventura St/Minot St	ESW-43	Seg2E-NB1	SFR	2	56.0	56.0	56.4	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB303	21	Aetna St/Gilbert St	ESW-43	Seg2E-NB1	SFR	2	59.7	59.7	60.1	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB304	21	Gilbert St/Ferndale St	ESW-43	Seg2E-NB1	SFR	2	61.6	61.6	62.0	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB305	21	Devonshire St/Ferndale St	ESW-43	Seg2E-NB1	SFR	2	57.7	57.7	58.0	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB306	21	Braeburn St/Avondale Ave	ESW-43	Seg2E-NB1	SFR	2	57.1	57.1	57.4	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB307	21	Braeburn St/Elmira St	ESW-43	Seg2E-NB1	SFR	2	58.8	58.8	59.0	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB308	21	Avondale Ave/Elmira St	ESW-43	Seg2E-NB1	SFR	2	58.4	58.4	58.5	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB309	21	Avondale Pl	ESW-43	Seg2E-NB1	SFR	2	61.6	61.6	61.6	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-38. Predicted Future Noise and Barrier Analysis (NSA 21) - Seg2E-NB2 – Alternative 3

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																		
														14 feet			16 feet			18 feet			20 feet			22 feet			–		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2E-NB274	21	Houston Ave/ Buckingham St	ESW-44	Seg2E-NB2	SFR	1	64.4	64.4	64.4	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB275	21	Houston Ave/ Buckingham St	ESW-44	Seg2E-NB2	SFR	1	63.9	63.9	63.8	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB276	21	Houston Ave/ Buckingham St	ESW-44	Seg2E-NB2	SFR	1	64.7	64.7	64.8	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB277	21	Picadilly Way	ESW-44	Seg2E-NB2	SFR	1	65.4	65.4	65.4	0	0.0	B (67)	None	65.3	0.1	0	65.2	0.2	0	65.1	0.3	0	65.1	0.3	0	65.0	0.4	0	–	–	–
M-S2E-NB278	21	Picadilly Way	ESW-44	Seg2E-NB2	Apartment/ Condo	3	67.2	67.2	67.2	0	0.0	B (67)	A/E	67.2	0.0	0	67.1	0.1	0	67.1	0.1	0	67.1	0.1	0	67.1	0.1	0	–	–	–
M-S2E-NB279	21	Picadilly Way	ESW-44	Seg2E-NB2	Apartment/ Condo	3	69.4	69.4	69.5	0	0.1	B (67)	A/E	69.4	0.1	0	69.4	0.1	0	69.4	0.1	0	69.4	0.1	0	69.4	0.1	0	–	–	–
M-S2E-NB280	21	Picadilly Way	ESW-44	Seg2E-NB2	Apartment/ Condo	6	71.4	71.4	71.4	0	0.0	B (67)	A/E	71.4	0.0	0	71.4	0.0	0	71.4	0.0	0	71.4	0.0	0	71.4	0.0	0	–	–	–
M-S2E-NB281	21	Picadilly Way	ESW-44	Seg2E-NB2	Apartment/ Condo	3	65.0	65.0	65.0	0	0.0	B (67)	None	65.0	0.0	0	65.0	0.0	0	65.0	0.0	0	65.0	0.0	0	65.0	0.0	0	–	–	–
M-S2E-NB298	21	Houston Ave/ Buckingham St	ESW-44	Seg2E-NB2	SFR	2	61.8	61.8	61.8	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB299	21	Picadilly Way	ESW-44	Seg2E-NB2	SFR	2	64.1	64.1	64.1	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB300	21	Picadilly Way	ESW-44	Seg2E-NB2	Apartment/ Condo	3	64.5	64.5	64.5	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB301	21	Picadilly Way	ESW-44	Seg2E-NB2	Apartment/ Condo	6	61.2	61.2	61.2	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB310	21	Houston Ave/ Buckingham St	ESW-44	Seg2E-NB2	SFR	2	62.2	62.2	62.1	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB311	21	Picadilly Way	ESW-44	Seg2E-NB2	SFR	2	64.4	64.4	64.4	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–			

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-39. Predicted Future Noise and Barrier Analysis (NSA 22) – Alternative 3

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																		
														–			–			–			–			–			–		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2E-SB117	22	Stoneyhaven Ln	–	–	Apartment/ Condo	3	64.8	64.8	64.8	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-SB118	22	Weeping Willow Ln	–	–	Apartment/ Condo	4	64.2	64.2	64.2	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-SB119	22	Weeping Willow Ln	–	–	Apartment/ Condo	3	64.4	64.4	64.4	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-SB120	22	Stoneyhaven Ln	–	–	Apartment/ Condo	3	63.1	63.1	63.1	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-SB121	22	Weeping Willow Ln	–	–	Apartment/ Condo	3	57.2	57.2	57.2	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-SB122	22	Weeping Willow Ln	–	–	Apartment/ Condo	3	59.7	59.7	59.7	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-40. Predicted Future Noise and Barrier Analysis (NSA 23) Seg3A – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														6 feet			8 feet			10feet			12 feet			14 feet			16 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S3A-NB1	23	Auto Center Dr/Maxwell Ave	–	Seg3A-NB1	Pool	1	59.7	59.7	59.6	0	-0.1	C (67)	None	59.5	0.1	0	59.5	0.1	0	59.4	0.2	0	59.3	0.3	0	59.3	0.3	0	59.2	0.4	0
M-S3A-NB2	23	Auto Center Dr/Maxwell Ave	–	Seg3A-NB1	Courtyard	1	59.6	59.6	59.5	0	-0.1	C (67)	None	59.4	0.1	0	59.3	0.2	0	59.2	0.3	0	59.2	0.3	0	59.1	0.4	0	59.0	0.5	0
M-S3A-NB3	23	Auto Center Dr/Maxwell Ave	–	Seg3A-NB1	Apt/Condo	1	57.8	57.8	57.7	0	-0.1	B (67)	None	57.6	0.1	0	57.5	0.2	0	57.4	0.3	0	57.1	0.6	0	56.9	0.8	0	56.7	1.0	0
M-S3A-NB4	23	Auto Center Dr/Maxwell Ave	–	Seg3A-NB1	Apt/Condo	1	66.6	66.6	66.5	0	-0.1	B (67)	A/E	65.5	1.0	0	65.1	1.4	0	64.5	2.0	0	63.8	2.7	0	63.2	3.3	0	62.6	3.9	0
M-S3A-NB5	23	Auto Center Dr/Maxwell Ave	–	Seg3A-NB1	Apt/Condo	1	61.0	61.0	60.9	0	-0.1	B (67)	None	60.3	0.6	0	59.6	1.3	0	59.2	1.7	0	58.8	2.1	0	58.4	2.5	0	58.2	2.7	0
M-S3A-NB6	23	Auto Center Dr	–	Seg3A-NB1	Apt/Condo	1	58.8	58.8	58.7	0	-0.1	B (67)	None	59.6	-0.9	0	59.4	-0.7	0	58.8	-0.1	0	58.2	0.5	0	58.0	0.7	0	57.8	0.9	0
M-S3A-NB7	23	Auto Center Dr	–	Seg3A-NB1	Apt/Condo	1	58.8	58.8	58.8	0	0	B (67)	None	59.7	-0.9	0	59.5	-0.7	0	58.7	0.1	0	58.4	0.4	0	58.2	0.6	0	57.9	0.9	0
M-S3A-NB8	23	Auto Center Dr	–	Seg3A-NB1	Apt/Condo	2	69.5	69.5	69.7	0	0.2	B (67)	A/E	67.4	2.3	0	66.3	3.4	0	65.6	4.1	0	65.0	4.7	0	64.4	5.3	2	64.0	5.7	2
M-S3A-NB9	23	Auto Center Dr	–	Seg3A-NB1	Apt/Condo	1	58.1	58.1	58.1	0	0	B (67)	None	58.2	-0.1	0	58.0	0.1	0	57.7	0.4	0	57.5	0.6	0	57.1	1.0	0	56.8	1.3	0
M-S3A-NB10	23	Auto Center Dr	–	Seg3A-NB1	Apt/Condo	2	68.9	68.9	69.1	0	0.2	B (67)	A/E	66.8	2.3	0	65.7	3.4	0	65.1	4.0	0	64.5	4.6	0	64.0	5.1	2	63.6	5.5	2
M-S3A-NB11	23	Auto Center Dr	–	Seg3A-NB1	Apt/Condo	1	57.7	57.7	57.6	0	-0.1	B (67)	None	57.6	0.0	0	57.4	0.2	0	57.2	0.4	0	57.1	0.5	0	56.7	0.9	0	56.4	1.2	0
M-S3A-NB12	23	Auto Center Dr	–	Seg3A-NB1	Apt/Condo	1	64.8	64.8	65.1	0	0.3	B (67)	None	62.7	2.4	0	62.3	2.8	0	62.0	3.1	0	61.4	3.7	0	61.0	4.1	0	60.9	4.2	0
M-S3A-NB13	23	Auto Center Dr	–	Seg3A-NB1	Apt/Condo	1	63.8	63.8	63.4	0	-0.4	B (67)	None	62.0	1.4	0	61.8	1.6	0	61.5	1.9	0	61.0	2.4	0	60.6	2.8	0	60.3	3.1	0
M-S3A-NB14	23	Auto Center Dr	–	Seg3A-NB1	Apt/Condo	1	59.9	59.9	59.4	0	-0.5	B (67)	None	58.4	1.0	0	58.1	1.3	0	57.9	1.5	0	57.8	1.6	0	57.5	1.9	0	57.4	2.0	0
M-S3A-NB15	23	Auto Center Dr	–	Seg3A-NB1	Apt/Condo	1	57.7	57.7	57.4	0	-0.3	B (67)	None	56.9	0.5	0	56.8	0.6	0	56.7	0.7	0	56.6	0.8	0	56.5	0.9	0	56.5	0.9	0
M-S3A-NB16	23	Auto Center Dr	–	Seg3A-NB1	Apt/Condo	1	64.1	64.1	64.2	0	0.1	B (67)	None	63.2	1.0	0	62.7	1.5	0	62.5	1.7	0	62.2	2.0	0	62.1	2.1	0	61.8	2.4	0
M-S3A-NB17	23	Auto Center Dr	–	Seg3A-NB1	Apt/Condo	1	62.2	62.2	62.5	0	0.3	B (67)	None	62.9	-0.4	0	63.2	-0.7	0	62.7	-0.2	0	61.4	1.1	0	60.7	1.8	0	60.3	2.2	0
M-S3A-NB18	23	Auto Center Dr	–	Seg3A-NB1	Apt/Condo	1	60.6	60.6	60.6	0	0	B (67)	None	61.2	-0.6	0	61.1	-0.5	0	60.5	0.1	0	59.8	0.8	0	59.3	1.3	0	58.9	1.7	0
M-S3A-NB19	23	Auto Center Dr	–	Seg3A-NB1	Apt/Condo	2	74.2	74.2	74.4	0	0.2	B (67)	A/E	73.6	0.8	0	72.0	2.4	0	70.0	4.4	0	68.5	5.9	2	67.4	7.0	2	66.5	7.9	2
M-S3A-NB20	23	Auto Center Dr	–	Seg3A-NB1	Apt/Condo	1	61.0	61.0	61.0	0	0	B (67)	None	61.6	-0.6	0	61.6	-0.6	0	61.0	0.0	0	60.5	0.5	0	60.2	0.8	0	59.9	1.1	0
M-S3A-NB20A	23	Auto Center Dr	–	Seg3A-NB1	Apt/Condo	2	74.7	74.7	75.0	0	0.3	B (67)	A/E	74.4	0.6		73.0	2.0	0	70.8	4.2	0	69.2	5.8	2	68.0	7.0	2	67.1	7.9	2
M-S3A-NB921	23	Auto Center Dr	–	Seg3A-NB1	Apt/Condo	1	61.3	61.3	61.4	0	0.1	B (67)	None	61.8	-0.4	0	61.8	-0.4	0	61.2	0.2	0	60.5	0.9	0	59.9	1.5	0	59.4	2.0	0
M-S3A-NB22	23	Auto Center Dr/Dale St	–	Seg3A-NB1	Apt/Condo	1	66.8	66.8	66.9	0	0.1	B (67)	A/E	65.8	1.1	0	65.1	1.8	0	64.4	2.5	0	63.7	3.2	0	63.3	3.6	0	62.9	4.0	0
M-S3A-NB23	23	Auto Center Dr/Dale St	–	Seg3A-NB1	Apt/Condo	1	76.6	76.6	76.8	0	0.2	B (67)	A/E	76.5	0.3	0	75.5	1.3	0	74.1	2.7	0	72.0	4.8	0	70.6	6.2	1	69.5	7.3	1
M-S3A-NB24	23	Auto Center Dr/Dale St	–	Seg3A-NB1	Apt/Condo	1	66.9	66.9	66.9	0	0	B (67)	A/E	66.0	0.9	0	65.1	1.8	0	64.5	2.4	0	63.9	3.0	0	63.4	3.5	0	63.1	3.8	0
M-S3A-NB25	23	Auto Center Dr/Dale St	–	Seg3A-NB1	Apt/Condo	1	75.7	75.7	75.9	0	0.2	B (67)	A/E	75.5	0.4	0	74.3	1.6	0	72.6	3.3	0	70.9	5.0	1	69.8	6.1	1	68.9	7.0	1
M-S3A-NB26	23	Dale St	–	Seg3A-NB1	Apt/Condo	1	66.3	66.3	66.3	0	0	B (67)	A/E	65.1	1.2	0	64.3	2.0	0	63.9	2.4	0	63.3	3.0	0	62.8	3.5	0	62.4	3.9	0
M-S3A-NB27	23	Dale St	–	Seg3A-NB1	Apt/Condo	1	65.3	65.3	65.3	0	0	B (67)	None	64.2	1.1	0	63.5	1.8	0	63.0	2.3	0	62.5	2.8	0	62.2	3.1	0	61.9	3.4	0
M-S3A-NB28	23	Dale St	–	Seg3A-NB1	Apt/Condo	1	73.4	73.4	73.5	0	0.1	B (67)	A/E	72.5	1.0	0	71.2	2.3	0	69.8	3.7	0	68.7	4.8	0	68.0	5.5	1	67.3	6.2	1
M-S3A-NB29	23	Dale St	–	Seg3A-NB1	Apt/Condo	1	65.2	65.2	65.2	0	0	B (67)	None	64.1	1.1	0	63.4	1.8	0	62.9	2.3	0	62.4	2.8	0	62.2	3.0	0	61.9	3.3	0
M-S3A-NB30	23	Dale St	–	Seg3A-NB1	Apt/Condo	1	72.9	72.9	73.0	0	0.1	B (67)	A/E	71.9	1.1	0	70.7	2.3	0	69.3	3.7	0	68.3	4.7	0	67.5	5.5	1	66.9	6.1	1
M-S3A-NB31	23	Auto Center Dr	–	Seg3A-NB1	Apt/Condo	1	62.8	62.8	62.4	0	-0.4	B (67)	None	61.2	1.2	0	61.2	1.2	0	61.2	1.2	0	61.0	1.4	0	60.9	1.5	0	60.7	1.7	0
M-S3A-NB32	23	Porter Ave	–	Seg3A-NB1	Apt/Condo	1	55.2	55.2	55.0	0	-0.2	B (67)	None	55.0	0.0	0	55.1	-0.1	0	55.3	-0.3	0	55.4	-0.4	0	55.4	-0.4	0	55.4	-0.4	0
M-S3A-NB33	23	Porter Ave	–	Seg3A-NB1	Apt/Condo	1	57.3	57.3	57.1	0	-0.2	B (67)	None	57.1	0.0	0	57.2	-0.1	0	57.2	-0.1	0	57.2	-0.1	0	57.2	-0.1	0	57.1	0.0	0
M-S3A-NB34	23	Porter Ave	–	Seg3A-NB1	Apt/Condo	1	60.3	60.3	60.1	0	-0.2	B (67)	None	58.8	1.3	0	58.5	1.6	0	58.3	1.8	0	58.0	2.1	0	58.3	1.8	0	58.1	2.0	0
M-S3A-NB35	23	Porter Ave	–	Seg3A-NB1	Apt/Condo	1	64.3	64.3	64.3	0	0	B (67)	None	62.9	1.4	0	62.4	1.9	0	62.1	2.2	0	61.8	2.5	0	61.6	2.7	0	61.3	3.0	0
M-S3A-NB36	23	Porter Ave	–	Seg3A-NB1	Apt/Condo	1	61.2	61.2	61.2	0	0	B (67)	None	60.8	1.4	0	60.5	1.7	0	60.1	2.1	0	59.8	2.4	0	59.4	2.8	0	59.2	3.0	0
M-S3A-NB37	23	Porter Ave	–	Seg3A-NB1	Apt/Condo	1	60.3	60.3	60.3	0	0	B (67)	None	60.1	1.2	0	59.8	1.5	0	59.5	1.8	0	59.3	2.0	0	59.1	2.2	0	58.9	2.4	0
M-S3A-NB38	23	Porter Ave	–	Seg3A-NB1	Apt/Condo	1	58.5	58.5	58.4	0	-0.1	B (67)	None	58.2	1.2	0	57.9	1.5	0	57.6	1.8	0	57.3	2.1	0	57.0	2.4	0	56.9	2.5	0

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-41. Predicted Future Noise and Barrier Analysis (NSA 24) Seg3B – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																		
														12 feet			14 feet			16 feet			18 feet			20 feet			22 feet		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S3B-SB1	24	Indiana St	ESW-46/ ESW-47	-	Residential	1	62.9	62.9	62.6	0	-0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B-SB2	24	Indiana St/Utah Ave	ESW-46/ ESW-47	-	Residential	1	64.4	64.4	64.3	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB3	24	Utah Ave	ESW-46/ ESW-47	-	Residential	1	64.0	64.0	63.8	0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB4	24	Utah Ave	ESW-46/ ESW-47	-	Residential	1	64.6	64.6	64.4	0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB5	24	Utah Ave	ESW-46/ ESW-47	-	Residential	1	64.2	64.2	64.0	0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB6	24	Utah Ave	ESW-46/ ESW-47	-	Residential	1	64.7	64.7	64.5	0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB7	24	Utah Ave	ESW-46/ ESW-47	-	Residential	1	63.9	63.9	63.7	0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB8	24	Utah Ave	ESW-46/ ESW-47	-	Residential	1	64.1	64.1	64.0	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB9	24	Utah Ave	ESW-46/ ESW-47	-	Residential	1	64.0	64.0	63.7	0	-0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB10	24	Utah Ave	ESW-46/ ESW-47	-	Residential	1	64.0	64.0	63.9	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB11	24	Utah Ave	ESW-46/ ESW-47	-	Residential	1	62.9	62.9	62.7	0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB12	24	Utah Ave	ESW-46/ ESW-47	-	Residential	1	62.1	62.1	61.8	0	-0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB13	24	Utah Ave/Oregon St	ESW-46/ ESW-47	-	Residential	1	59.4	59.4	59.0	0	-0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB14	24	Indiana St	ESW-46/ ESW-47	-	Residential	1	63.7	63.7	63.7	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB15	24	Indiana St	ESW-46/ ESW-47	-	Residential	1	63.2	63.2	63.2	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB16	24	Indiana St	ESW-46/ ESW-47	-	Residential	1	61.6	61.6	62.6	0	1.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB17	24	Utah Ave	ESW-46/ ESW-47	-	Residential	1	60.2	60.2	60.1	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB18	24	Indiana St	ESW-46/ ESW-47	-	Residential	1	59.4	59.4	59.5	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB19	24	Indiana St	ESW-46/ ESW-47	-	Residential	1	58.6	58.6	58.9	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB20	24	Utah Ave	ESW-46/ ESW-47	-	Residential	1	57.8	57.8	57.8	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB21	24	Oregon St	ESW-46/ ESW-47	-	Residential	1	56.6	56.6	56.6	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB22	24	Oregon St	ESW-46/ ESW-47	-	Residential	1	56.2	56.2	56.7	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB23	24	Utah Ave/Oregon St	ESW-46/ ESW-47	-	Residential	1	56.6	56.6	56.8	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB24	24	Utah Ave/Oregon St	ESW-46/ ESW-47	-	Residential	1	57	57	57.1	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB25	24	Oregon St	ESW-46/ ESW-47	-	Residential	1	57.8	57.8	57.9	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3B--SB26	24	Oregon St	ESW-46/ ESW-47	-	Residential	1	57.1	57.1	57.7	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-42. Predicted Future Noise and Barrier Analysis (NSA 25) Seg3D – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																									
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																			
														12 feet			14 feet			16 feet			18 feet			20 feet			22 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S3D-NB1	25	8th St/Darlington Ave	–	–	Residential	1	57.5	57.5	57.1	0	-0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3D-NB2	25	8th St/Darlington Ave	–	–	Residential	1	59.1	59.1	58.7	0	-0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3D--NB3	25	Darlington Ave	–	–	Residential	1	60.0	60.0	59.6	0	-0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3D--NB4	25	Darlington Ave	–	–	Residential	1	61.1	61.1	60.6	0	-0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3D--NB5	25	Darlington Ave/Homewood Ave	–	–	Residential	1	60.6	60.6	60.3	0	-0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3D--NB6	25	Homewood Ave	–	–	Residential	1	62.8	62.8	62.6	0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3D--NB7	25	Darlington Ave	–	–	Residential	1	55.7	55.7	55.3	0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3D--NB8	25	Darlington Ave	–	–	Residential	1	55.5	55.5	55.2	0	-0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3D--NB9	25	Darlington Ave	–	–	Residential	1	54.7	54.7	54.8	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3D--NB10	25	Darlington Ave	–	–	Residential	1	53.0	53.0	52.9	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3D--NB11	25	Darlington Ave	–	–	Residential	1	53.2	53.2	53.2	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3D--NB12	25	Homewood Ave	–	–	Residential	1	58.3	58.3	58.2	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3D--NB13	25	Homewood Ave	–	–	Residential	1	56.0	56.0	55.9	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3D--NB14	25	Homewood Ave	–	–	Residential	1	55.9	55.9	55.8	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3D--NB15	25	Homewood Ave	–	–	Residential	1	63.5	63.5	63.5	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3D--NB16	25	Homewood Ave	–	–	Residential	1	63.1	63.1	63.1	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3D--NB17	25	Homewood Ave	–	–	Residential	1	61.9	61.9	61.9	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-43. Predicted Future Noise and Barrier Analysis (NSA 26) Seg3C – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														12 feet			14 feet			16 feet			18 feet			20 feet			22 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S3C-SB1	26	Pinchot Ct	–	–	Residential	1	48.5	48.5	48.3	0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3C-SB2	26	Pinchot Ct	–	–	Residential	1	54.8	54.8	54.6	0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3C--SB3	26	Pinchot Ct	–	–	Residential	1	58.4	58.4	58.8	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3C--SB4	26	Pinchot Ct	–	–	Residential	1	56.9	56.9	57.2	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3C--SB5	26	Pinchot Ct	–	–	Residential	1	52.1	52.1	51.8	0	-0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3C--SB6	26	Pinchot Ct	–	–	Residential	1	51.1	51.1	50.9	0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3C--SB7	26	Pinchot Ct	–	–	Residential	1	53.7	53.7	53.5	0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3C--SB8	26	Pinchot Ct	–	–	Residential	1	52.9	52.9	52.7	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3C--SB9	26	Pinchot Ct	–	–	Residential	1	52.1	52.1	52.0	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3C--SB10	26	Pinchot Ct	–	–	Residential	1	52.1	52.1	51.9	0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3C--SB11	26	Pinchot Ct	–	–	Residential	1	51.9	51.9	51.7	0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3C--SB12	26	11th St	–	–	Residential	1	51.3	51.3	51.2	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3C--SB13	26	Pinchot Ct	–	–	Residential	1	50.2	50.2	50.1	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3C--SB14	26	Pinchot Ct	–	–	Residential	1	47.9	47.9	47.8	0	-0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3C--SB15	26	Pinchot Ct	–	–	Residential	1	50.5	50.5	50.3	0	-0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3C--SB16	26	Pinchot Ct	–	–	Residential	1	56.4	56.4	56.4	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-44. Predicted Future Noise and Barrier Analysis (NSA 28) Seg3E – Alternative 3 and 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														–			14 feet			16 feet			18 feet			20 feet			22 feet		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S3E-SB17	28	8th St	ESW-48	Seg3E-SB1	Residential	1	61.2	61.2	61.6	0	0.4	B (67)	None	–	–		61.6	0	0	60.8	0.8	0	60.2	1.4	0	59.9	1.7	0	59.4	2.2	0
M-S3E-SB18	28	8th St	ESW-48	Seg3E-SB1	Residential	1	60.3	60.3	60.5	0	0.2	B (67)	None	–	–	–	60.5	0	0	60	0.5	0	59.1	1.4	0	58.7	1.8	0	58.4	2.1	0
M-S3E-SB19	28	8th St	ESW-48	Seg3E-SB1	Residential	1	61.1	61.1	61.8	0	0.7	B (67)	None	–	–	–	61.8	0	0	61.1	0.7	0	60.7	1.1	0	60.2	1.6	0	59.6	2.2	0
M-S3E-SB20	28	8th St	ESW-48	Seg3E-SB1	Residential	1	60.5	60.5	61.4	0	0.9	B (67)	None	–	–	–	61.4	0	0	60.8	0.6	0	60	1.4	0	59.4	2	0	59	2.4	0
M-S3E-SB21	28	8th St	ESW-48	Seg3E-SB1	Residential	1	60.5	60.5	61.3	0	0.8	B (67)	None	–	–	–	61.3	0	0	60.4	0.9	0	59.7	1.6	0	59.5	1.8	0	59.4	1.9	0
M-S3E-SB22	28	8th St	ESW-48	Seg3E-SB1	Residential	1	56.2	56.2	56.5	0	0.3	B (67)	None	–	–	–	56.5	0	0	55.9	0.6	0	54.8	1.7	0	54.2	2.3	0	53.6	2.9	0
M-S3E-SB23	28	8th St	ESW-48	Seg3E-SB1	Residential	1	58.1	58.1	59.2	0	1.2	B (67)	None	–	–	–	59.2	0	0	58.7	0.6	0	57.8	1.5	0	57.1	2.2	0	56.7	2.6	0
M-S3E-SB24	28	8th St	ESW-48	Seg3E-SB1	Residential	1	59.7	59.7	60.5	0	0.8	B (67)	None	–	–	–	60.5	0	0	59.7	0.8	0	59.5	1	0	59	1.5	0	58.7	1.8	0
M-S3E-SB25	28	8th St	ESW-48	Seg3E-SB1	Residential	1	60.5	60.5	61.8	0	1.3	B (67)	None	–	–	–	61.8	0	0	61	0.8	0	60.8	1	0	60.2	1.6	0	59.6	2.2	0
M-S3E-SB26	28	8th St	ESW-48	Seg3E-SB1	Residential	1	58.7	58.7	60.0	0	1.3	B (67)	None	–	–	–	60.0	0	0	59.9	0.1	0	59.2	0.8	0	58.6	1.4	0	58.1	1.9	0
M-S3E-SB27	28	8th St	ESW-48	Seg3E-SB1	Residential	1	58.9	58.9	59.9	0	1.0	B (67)	None	–	–	–	59.9	0	0	59.3	0.6	0	59.2	0.7	0	58.4	1.5	0	57.9	2	0
M-S3E-SB28	28	8th St	ESW-48	Seg3E-SB1	Residential	1	58.4	58.4	59.4	0	1.0	B (67)	None	–	–	–	59.4	0	0	58.9	0.5	0	58.9	0.5	0	59	0.4	0	58.8	0.6	0
M-S3E-SB29	28	8th St	ESW-48	Seg3E-SB1	Residential	1	59.7	59.7	60.4	0	0.7	B (67)	None	–	–	–	60.4	0	0	59.6	0.8	0	59.5	0.9	0	58.8	1.6	0	58.3	2.1	0
M-S3E-SB30	28	8th St/Western Ave	ESW-48	Seg3E-SB1	Residential	1	64.4	64.4	64.8	0	0.4	B (67)	None	–	–	–	64.8	0	0	64.7	0.1	0	64.5	0.3	0	64.5	0.3	0	64.4	0.4	0
M-S3E-SB31	28	8th St/Fullerton Ave	ESW-48	Seg3E-SB1	Residential	1	58.8	58.8	59.1	0	0.3	B (67)	None	–	–	–	59.1	0	0	58.5	0.6	0	57.8	1.3	0	57.5	1.6	0	57.2	1.9	0
M-S3E-SB32	28	8th St/Fullerton Ave	ESW-48	Seg3E-SB1	Residential	1	55.6	55.6	55.7	0	0.1	B (67)	None	–	–	–	55.7	0	0	55.4	0.3	0	55.2	0.5	0	54.9	0.8	0	54.7	1	0
M-S3E-SB33	28	8th St/Fullerton Ave	ESW-48	Seg3E-SB1	Residential	1	55.4	55.4	55.5	0	0.1	B (67)	None	–	–	–	55.5	0	0	55.2	0.3	0	55.1	0.4	0	54.9	0.6	0	54.8	0.7	0
M-S3E-SB34	28	8th St/Fullerton Ave	ESW-48	Seg3E-SB1	Residential	1	56.5	56.5	56.8	0	0.3	B (67)	None	–	–	–	56.8	0	0	56.1	0.7	0	56	0.8	0	55.9	0.9	0	56.2	0.6	0
M-S3E-SB35	28	8th St	ESW-48	Seg3E-SB1	Residential	1	56.5	56.5	56.8	0	0.3	B (67)	None	–	–	–	56.8	0	0	56.1	0.7	0	55.9	0.9	0	56.1	0.7	0	56.4	0.4	0
M-S3E-SB36	28	8th St	ESW-48	Seg3E-SB1	Residential	1	56.9	56.9	57.3	0	0.4	B (67)	None	–	–	–	57.3	0	0	56.7	0.6	0	56.6	0.7	0	56.7	0.6	0	56.9	0.4	0
M-S3E-SB37	28	8th St	ESW-48	Seg3E-SB1	Residential	1	55.1	55.1	55.5	0	0.4	B (67)	None	–	–	–	55.5	0	0	54.9	0.6	0	54.9	0.6	0	55.2	0.3	0	56.7	-1.2	0
M-S3E-SB38	28	8th St/Kingman Ave	ESW-48	Seg3E-SB1	Residential	1	58.7	58.7	59.2	0	0.5	B (67)	None	–	–	–	59.2	0	0	58.6	0.6	0	58.5	0.7	0	58.5	0.7	0	58.5	0.7	0
M-S3E-SB39	28	8th St	ESW-48	Seg3E-SB1	Residential	1	56.2	56.2	56.5	0	0.3	B (67)	None	–	–	–	56.5	0	0	59.0	-2.5	0	58.7	-2.2	0	58.3	-1.8	0	58.1	-1.6	0
M-S3E-SB40	28	8th St/Western Ave	ESW-48	Seg3E-SB1	Residential	1	61.8	61.8	62.1	0	0.3	B (67)	None	–	–	–	62.1	0	0	62.0	0.1	0	62.1	0	0	62.2	-0.1	0	62.6	-0.5	0
M-S3E-SB41	28	8th St/Western Ave	ESW-48	Seg3E-SB1	Residential	1	64.1	64.1	64.4	0	0.3	B (67)	None	–	–	–	64.4	0	0	64.8	-0.4	0	64.7	-0.3	0	64.7	-0.3	0	64.6	-0.2	0
M-S3E-SB42	28	8th St/Western Ave	ESW-48	Seg3E-SB1	Residential	1	66.1	66.1	66.3	0	0.2	B (67)	A/E	–	–	–	66.3	0	0	66.3	0	0	66.1	0.2	0	66.1	0.2	0	66	0.3	0
M-S3E-SB43	28	8th St/Western Ave	ESW-48	Seg3E-SB1	Residential	1	63.5	63.5	63.7	0	0.2	B (67)	None	–	–	–	63.7	0	0	63.6	0.1	0	63.6	0.1	0	63.7	0	0	64	-0.3	0
M-S3E-SB44	28	8th St/Gramercy St	-	-	Park	1	60.5	60.5	61.9	0	1.4	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3E-SB45	28	8th St/Gramercy St	-	-	Park	1	55.1	55.1	55.9	0	0.8	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3E-SB17	28	8th St	ESW-48	Seg3E-SB1	Residential	1	61.2	61.2	61.6	0	0.4	B (67)	None	–	–		61.6	0	0	60.8	0.8	0	60.2	1.4	0	59.9	1.7	0	59.4	2.2	0
M-S3E-SB18	28	8th St	ESW-48	Seg3E-SB1	Residential	1	60.3	60.3	60.5	0	0.2	B (67)	None	–	–	–	60.5	0	0	60	0.5	0	59.1	1.4	0	58.7	1.8	0	58.4	2.1	0
M-S3E-SB19	28	8th St	ESW-48	Seg3E-SB1	Residential	1	61.1	61.1	61.8	0	0.7	B (67)	None	–	–	–	61.8	0	0	61.1	0.7	0	60.7	1.1	0	60.2	1.6	0	59.6	2.2	0
M-S3E-SB20	28	8th St	ESW-48	Seg3E-SB1	Residential	1	60.5	60.5	61.4	0	0.9	B (67)	None	–	–	–	61.4	0	0	60.8	0.6	0	60	1.4	0	59.4	2	0	59	2.4	0
M-S3E-SB21	28	8th St	ESW-48	Seg3E-SB1	Residential	1	60.5	60.5	61.3	0	0.8	B (67)	None	–	–	–	61.3	0	0	60.4	0.9	0	59.7	1.6	0	59.5	1.8	0	59.4	1.9	0
M-S3E-SB22	28	8th St	ESW-48	Seg3E-SB1	Residential	1	56.2	56.2	56.5	0	0.3	B (67)	None	–	–	–	56.5	0	0	55.9	0.6	0	54.8	1.7	0	54.2	2.3	0	53.6	2.9	0
M-S3E-SB23	28	8th St	ESW-48	Seg3E-SB1	Residential	1	58.1	58.1	59.2	0	1.2	B (67)	None	–	–	–	59.2	0	0	58.7	0.6	0	57.8	1.5	0	57.1	2.2	0	56.7	2.6	0
M-S3E-SB24	28	8th St	ESW-48	Seg3E-SB1	Residential	1	59.7	59.7	60.5	0	0.8	B (67)	None	–	–	–	60.5	0	0	59.7	0.8	0	59.5	1	0	59	1.5	0	58.7	1.8	0
M-S3E-SB25	28	8th St	ESW-48	Seg3E-SB1	Residential	1	60.5	60.5	61.8	0	1.3	B (67)	None	–	–	–	61.8	0	0	61	0.8	0	60.8	1	0	60.2	1.6	0	59.6	2.2	0
M-S3E-SB26	28	8th St	ESW-48	Seg3E-SB1	Residential	1	58.7	58.7	60.0	0	1.3	B (67)	None	–	–	–	60.0	0	0	59.9	0.1	0	59.2	0.8	0	58.6	1.4	0	58.1	1.9	0
M-S3E-SB27	28	8th St	ESW-48	Seg3E-SB1	Residential	1	58.9	58.9	59.9	0	1.0	B (67)	None	–	–	–	59.9	0	0	59.3	0.6	0	59.2	0.7	0	58.4	1.5	0	57.9	2	0
M-S3E-SB28	28	8th St	ESW-48	Seg3E-SB1	Residential	1	58.4	58.4	59.4	0	1.0	B (67)	None	–	–	–	59.4	0	0	58.9	0.5	0	58.9	0.5	0	59	0.4	0	58.8	0.6	0
M-S3E-SB29	28	8th St	ESW-48	Seg3E-SB1	Residential	1	59.7	59.7	60.4	0	0.7	B (67)	None	–	–	–	60.4	0	0	59.6	0.8	0	59.5	0.9	0	58.8	1.6	0	58.3	2.1	0
M-S3E-SB30	28	8th St/Western Ave	ESW-48	Seg3E-SB1	Residential	1	64.4	64.4	64.8	0	0.4	B (67)	None	–	–	–	64.8	0	0	64.7	0.1	0	64.5	0.3	0	64.5	0.3	0	64.4	0.4	0
M-S3E-SB31	28	8th St/Fullerton Ave	ESW-48	Seg3E-SB1	Residential	1	58.8	58.8	59.1	0	0.3	B (67)	None	–	–	–	59.1	0	0	58.5	0.6	0	57.8	1.3	0	57.5	1.6	0	57.2	1.9	0
M-S3E-SB32	28	8th St/Fullerton Ave	ESW-48	Seg3E-SB1	Residential	1	55.6	55.6	55.7	0	0.1	B (67)	None	–	–	–	55.7	0	0	55.4	0.3	0	55.2	0.5	0	54.9	0.8	0	54.7	1	0
M-S3E-SB33	28	8th St/Fullerton Ave	ESW-48	Seg3E-SB1	Residential	1	55.4	55.4	55.5	0	0.1	B (67)	None	–	–	–	55.5	0	0	55.2	0.3	0	55.1	0.4	0	54.9	0.6	0	54.8	0.7	0
M-S3E-SB34	28	8th St/Fullerton Ave	ESW-48	Seg3E-SB1	Residential	1	56.5	56.5	56.8	0	0.3	B (67)	None	–	–	–	56.8	0	0	56.1	0.7	0	56	0.8	0	55.9	0.9	0	56.2	0.6	0
M-S3E-SB35	28	8th St	ESW-48	Seg3E-SB1	Residential	1	56.5	56.5	56.8	0	0.3	B (67)	None	–	–	–	56.8	0	0	56.1	0.7	0	55.9	0.9	0	56.1	0.7	0	56.4	0.4	0
M-S3E-SB36	28	8th St	ESW-48	Seg3E-SB1	Residential	1	56.9	56.9	57.3	0	0.4	B (67)	None	–	–	–	57.3	0	0	56.7	0.6	0	56.6	0.7	0	56.7	0.6	0	56.9	0.4	0

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 3 and 4) Future Worst Hour Noise Levels - Leq(h), dBA																									
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
								–			14 feet			16 feet			18 feet			20 feet			22 feet					
								L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S3E-SB37	28	8th St	ESW-48	Seg3E-SB1	Residential	1	55.1	55.1	55.5	0	0.4	B (67)	None	–	–	–	55.5	0	0	54.9	0.6	0	54.9	0.6	0	55.2	0.3	0	56.7	-1.2	0
M-S3E-SB38	28	8th St/Kingman Ave	ESW-48	Seg3E-SB1	Residential	1	58.7	58.7	59.2	0	0.5	B (67)	None	–	–	–	59.2	0	0	58.6	0.6	0	58.5	0.7	0	58.5	0.7	0	58.5	0.7	0
M-S3E-SB39	28	8th St	ESW-48	Seg3E-SB1	Residential	1	56.2	56.2	56.5	0	0.3	B (67)	None	–	–	–	56.5	0	0	59.0	-2.5	0	58.7	-2.2	0	58.3	-1.8	0	58.1	-1.6	0
M-S3E-SB40	28	8th St/Western Ave	ESW-48	Seg3E-SB1	Residential	1	61.8	61.8	62.1	0	0.3	B (67)	None	–	–	–	62.1	0	0	62.0	0.1	0	62.1	0	0	62.2	-0.1	0	62.6	-0.5	0
M-S3E-SB41	28	8th St/Western Ave	ESW-48	Seg3E-SB1	Residential	1	64.1	64.1	64.4	0	0.3	B (67)	None	–	–	–	64.4	0	0	64.8	-0.4	0	64.7	-0.3	0	64.7	-0.3	0	64.6	-0.2	0
M-S3E-SB42	28	8th St/Western Ave	ESW-48	Seg3E-SB1	Residential	1	66.1	66.1	66.3	0	0.2	B (67)	A/E	–	–	–	66.3	0	0	66.3	0	0	66.1	0.2	0	66.1	0.2	0	66	0.3	0
M-S3E-SB43	28	8th St/Western Ave	ESW-48	Seg3E-SB1	Residential	1	63.5	63.5	63.7	0	0.2	B (67)	None	–	–	–	63.7	0	0	63.6	0.1	0	63.6	0.1	0	63.7	0	0	64	-0.3	0
M-S3E-SB44	28	8th St/Gramercy St	-	-	Park	1	60.5	60.5	61.9	0	1.4	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S3E-SB45	28	8th St/Gramercy St	-	-	Park	1	55.1	55.1	55.9	0	0.8	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-45. Predicted Future Noise and Barrier Analysis (NSA 13) Seg2A-NB1 – Alternative 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																									
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														6 feet			8 feet			10 feet			12 feet			14 feet			16 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2A-NB-1	13	Rampart St/Dumaine St	–	Seg2A-NB1	Apt/Condo Pool	1	67.2	67.2	67.6	0	0.4	B (67)	A/E	67.5	0.1	0	67.4	0.2	0	67.4	0.2	0	67.4	0.2	0	67.3	0.3	0	67.3	0.3	0
M-S2A-NB-2	13	Rampart St/Dumaine St	–	Seg2A-NB1	Apt/Condo Outdoor	1	70.9	70.9	71.6	0	0.7	B (67)	A/E	71.2	0.4	0	71.2	0.4	0	71.1	0.5	0	71.1	0.5	0	71.1	0.5	0	71.0	0.6	0
M-S2A-NB-3	13	State College Blvd/Off-Ramp	–	Seg2A-NB1	Apt/Condo Outdoor	1	65.7	65.7	65.5	0	-0.2	C (67)	None	63.7	1.8	0	63.2	2.3	0	62.7	2.8	0	62.1	3.4	0	61.7	3.8	0	61.4	4.1	0
M-S2A-NB-4	13	The City Dr N/ Orange Center Dr	–	Seg2A-NB1	Apt/Condo Pool	1	62.2	62.2	62.4	0	0.2	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-NB-5	13	Orange Center Dr	–	Seg2A-NB1	Hotel Pool	1	62.3	62.3	63.0	0	0.7	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-46. Predicted Future Noise and Barrier Analysis (NSA 14) - Seg2A-SB1 – Alternative 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														16 feet			18 feet			20 feet			22 feet			–			–		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2A-SB1	14	The City Dr N/Chapman Ave	–		Hotel Pool	1	68.0	68.0	68.1	0	0.1	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB2	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	69.9	69.9	69.9	0	0.0	B (67)	A/E	69.8	0.1	0	69.8	0.1	0	69.8	0.1	0	69.8	0.1	0	–	–	–	–	–	–
M-S2A-SB3	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	68.8	68.8	68.8	0	0.0	B (67)	A/E	68.7	0.1	0	68.6	0.2	0	68.6	0.2	0	68.6	0.2	0	–	–	–	–	–	–
M-S2A-SB4	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	69.0	69.0	69.0	0	0.0	B (67)	A/E	68.9	0.1	0	68.9	0.1	0	68.8	0.2	0	68.8	0.2	0	–	–	–	–	–	–
M-S2A-SB5	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	70.3	70.3	70.3	0	0.0	B (67)	A/E	70.2	0.1	0	70.2	0.1	0	70.2	0.1	0	70.2	0.1	0	–	–	–	–	–	–
M-S2A-SB6	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	70.8	70.8	70.8	0	0.0	B (67)	A/E	70.8	0.0	0	70.7	0.1	0	70.7	0.1	0	70.7	0.1	0	–	–	–	–	–	–
M-S2A-SB7	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	69.0	69.0	69.0	0	0.0	B (67)	A/E	68.9	0.1	0	68.9	0.1	0	68.9	0.1	0	68.8	0.2	0	–	–	–	–	–	–
M-S2A-SB8	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	67.8	67.8	67.8	0	0.0	B (67)	A/E	67.7	0.1	0	67.7	0.1	0	67.6	0.2	0	67.6	0.2	0	–	–	–	–	–	–
M-S2A-SB9	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	66.5	66.5	66.6	0	0.1	B (67)	A/E	66.5	0.1	0	66.4	0.2	0	66.3	0.3	0	66.3	0.3	0	–	–	–	–	–	–
M-S2A-SB10	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	68.8	68.8	68.9	0	0.1	B (67)	A/E	68.8	0.1	0	68.7	0.2	0	68.7	0.2	0	68.7	0.2	0	–	–	–	–	–	–
M-S2A-SB11	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	69.2	69.2	69.2	0	0.0	B (67)	A/E	69.1	0.1	0	69.1	0.1	0	69.1	0.1	0	69.0	0.2	0	–	–	–	–	–	–
M-S2A-SB12	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	69.6	69.6	69.6	0	0.0	B (67)	A/E	69.5	0.1	0	69.5	0.1	0	69.4	0.2	0	69.4	0.2	0	–	–	–	–	–	–
M-S2A-SB13	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	72.2	72.2	72.2	0	0.0	B (67)	A/E	72.1	0.1	0	72.1	0.1	0	72.1	0.1	0	72.1	0.1	0	–	–	–	–	–	–
M-S2A-SB14	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	72.4	72.4	72.4	0	0.0	B (67)	A/E	72.3	0.1	0	72.3	0.1	0	72.3	0.1	0	72.3	0.1	0	–	–	–	–	–	–
M-S2A-SB15	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	72.6	72.6	72.7	0	0.1	B (67)	A/E	72.6	0.1	0	72.6	0.1	0	72.6	0.1	0	72.6	0.1	0	–	–	–	–	–	–
M-S2A-SB16	14	Manchester Ave	ESW-26	Seg2A-SB1	Apartment/ Condo	1	73.1	73.1	73.1	0	0.0	B (67)	A/E	73.1	0.0	0	73.0	0.1	0	73.0	0.1	0	73.0	0.1	0	–	–	–	–	–	–
M-S2A-SB17	14	Tapestry Ln/ Weaver Ln	ESW-26	–	Apartment/ Condo-Pool	2	59.1	59.1	59.3	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB18	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	60.4	60.4	60.5	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB19	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	58.8	58.8	58.9	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB20	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	52.2	52.2	52.4	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB21	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	52.4	52.4	52.6	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB22	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	59.5	59.5	59.6	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB23	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	59.1	59.1	59.1	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB24	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	58.7	58.7	58.8	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB25	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	58.5	58.5	58.6	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														16 feet			18 feet			20 feet			22 feet			–			–		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2A-SB26	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	58.2	58.2	58.3	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB27	14	Tapestry Ln	ESW-26	–	Apartment/ Condo	2	56.3	56.3	56.4	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB28	14	Manchester Ave	ESW-26	–	Cemetery	1	57.8	57.8	58.0	0	0.2	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB29	14	Manchester Ave	ESW-26	–	Cemetery	1	59.9	59.9	60.1	0	0.2	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB30	14	Manchester Ave	ESW-26	–	Cemetery	1	61.1	61.1	61.3	0	0.2	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB31	14	Manchester Ave	ESW-26	–	Cemetery	1	61.9	61.9	62.0	0	0.1	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB32	14	Manchester Ave	ESW-26	–	Cemetery	1	63.5	63.5	63.6	0	0.1	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB52	14	Manchester Ave	ESW-26	Seg2A-SB1	Condo-Sport Court	1	69.7	69.7	69.8	0	0.1	C (67)	A/E	70	-0.2	0	70	0.1	0	69.9	0.1	0	69.9	0.1	0	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-47. Predicted Future Noise and Barrier Analysis (NSA 14) - Seg2A-SB2 – Alternative 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														16 feet			18 feet			20 feet			22 feet			-			-		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2A-SB33	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	70.2	70.2	70.2	0	0.0	B (66)	A/E	70.1	0.1	0	70.0	0.2	0	69.9	0.3	0	69.9	0.3	0	–	–	–	–	–	–
M-S2A-SB33A	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	72.0	72.0	72.1	0	0.1	B (66)	A/E	71.9	0.2	0	71.8	0.3	0	71.7	0.4	0	71.6	0.5	0	–	–	–	–	–	–
M-S2A-SB34	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	68.3	68.3	68.4	0	0.1	B (66)	A/E	68.2	0.2	0	68.1	0.3	0	68.0	0.4	0	67.9	0.5	0	–	–	–	–	–	–
M-S2A-SB34A	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	70.6	70.6	70.7	0	0.1	B (66)	A/E	70.5	0.2	0	70.4	0.3	0	70.3	0.4	0	70.2	0.5	0	–	–	–	–	–	–
M-S2A-SB35	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	69.6	69.6	69.7	0	0.1	B (66)	A/E	69.5	0.2	0	69.4	0.3	0	69.2	0.5	0	69.1	0.6	0	–	–	–	–	–	–
M-S2A-SB35A	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	71.0	71.0	71.2	0	0.2	B (66)	A/E	70.8	0.4	0	70.6	0.6	0	70.4	0.8	0	70.3	0.9	0	–	–	–	–	–	–
M-S2A-SB36	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	67.8	67.8	68.1	0	0.3	B (66)	A/E	67.9	0.2	0	67.7	0.4	0	67.5	0.6	0	67.4	0.7	0	–	–	–	–	–	–
M-S2A-SB36A	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	70.0	70.0	70.2	0	0.2	B (66)	A/E	69.8	0.4	0	69.6	0.6	0	69.4	0.8	0	69.3	0.9	0	–	–	–	–	–	–
M-S2A-SB37	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	66.2	66.2	66.4	0	0.2	B (66)	A/E	66.2	0.2	-1	65.9	0.5	0	65.7	0.7	0	65.5	0.9	0	–	–	–	–	–	–
M-S2A-SB37A	14	Orangewood Ave/ Manchester Ave	ESW-26	Seg2A-SB2	Apartment/ Condo	1	68.8	68.8	69	0	0.2	B (66)	A/E	69.7	-0.7	0	69.5	-0.5	0	69.3	-0.3	0	69.2	-0.2	0	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-48. Predicted Future Noise and Barrier Analysis (NSA 14) - Seg2A-SB3 – Alternative 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														6 feet			8 feet			10 feet			12 feet			14 feet			16 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2A-SB38	14	Gene Autry Way/Del Ray Dr	–	–	Mobile Home - Pool	1	63.0	63.0	61.1	0	-1.9	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB39	14	Gene Autry Way/Del Ray Dr	–	–	Mobile Home	1	62.1	62.1	61.6	0	-0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB40	14	Gene Autry Way/Del Ray Dr	–	–	Mobile Home	2	62.7	62.7	60.8	0	-1.9	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB41	14	Via Kona Dr/ Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	62.0	62.0	61.7	0	-0.3	B (67)	None	61.7	0.0	0	61.5	0.2	0	61.3	0.4	0	60.9	0.8	0	60.7	1.0	0	60.6	1.1	0
M-S2A-SB42	14	Via Kona Dr/ Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	61.4	61.4	61.0	0	-0.4	B (67)	None	61.5	-0.5	0	61.5	-0.5	0	61.5	-0.5	0	61.3	-0.3	0	61.2	-0.2	0	61.1	-0.1	0
M-S2A-SB43	14	Via Kona Dr/ Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	62.2	62.2	61.9	0	-0.3	B (67)	None	62.2	-0.3	0	62.1	-0.2	0	62.0	-0.1	0	61.9	0.0	0	61.9	0.0	0	61.9	0.0	0
M-S2A-SB44	14	Via Kona Dr/ Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	66.2	66.2	65.5	0	-0.7	B (67)	None	65.4	0.1	0	65.2	0.3	0	65.1	0.4	0	65.0	0.5	0	64.9	0.6	0	64.9	0.6	0
M-S2A-SB45	14	Via Hilo Dr/Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	64.7	64.7	64.4	0	-0.3	B (67)	None	64.1	0.3	0	64.1	0.3	0	64.0	0.4	0	63.8	0.6	0	63.8	0.6	0	63.7	0.7	0
M-S2A-SB46	14	Via Kona Dr/ Manchester Ave	ESW27	Seg2A-SB3	Mobile Home	1	60.3	60.3	59.7	0	-0.6	B (67)	None	58.7	1.0	0	58.3	1.4	0	58.0	1.7	0	57.7	2.0	0	57.5	2.2	0	57.3	2.4	0
M-S2A-SB47	14	Via Kona Dr/ Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	2	57.9	57.9	56.9	0	-1.0	B (67)	None	56.4	0.5	0	56.2	0.7	0	56.1	0.8	0	55.9	1.0	0	55.8	1.1	0	55.7	1.2	0
M-S2A-SB48	14	Via Hilo Dr/Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	57.3	57.3	57.2	0	-0.1	B (67)	None	57.0	0.2	0	56.9	0.3	0	56.8	0.4	0	56.6	0.6	0	56.6	0.6	0	56.5	0.7	0
M-S2A-SB49	14	Via Kona Dr/ Manchester Ave	ESW27	Seg2A-SB3	Mobile Home	2	56.8	56.8	56.5	0	-0.3	B (67)	None	56.3	0.2	0	56.2	0.3	0	56.1	0.4	0	56.0	0.5	0	56.0	0.5	0	55.9	0.6	0
M-S2A-SB50	14	Via Kona Dr/ Manchester Ave	ESW27	Seg2A-SB3	Mobile Home	2	56.9	56.9	56.2	0	-0.7	B (67)	None	55.9	0.3	0	55.7	0.5	0	55.5	0.7	0	55.4	0.8	0	55.2	1.0	0	55.1	1.1	0
M-S2A-SB51	14	Via Kona Dr/ Manchester Ave	ESW27	–	Hotel Pool	1	60.7	60.7	59.0	0	-1.7	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB38	14	Gene Autry Way/Del Ray Dr	–	–	Mobile Home - Pool	1	63.0	63.0	61.1	0	-1.9	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB39	14	Gene Autry Way/Del Ray Dr	–	–	Mobile Home	1	62.1	62.1	61.6	0	-0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB40	14	Gene Autry Way/Del Ray Dr	–	–	Mobile Home	2	62.7	62.7	60.8	0	-1.9	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB41	14	Via Kona Dr/ Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	62.0	62.0	61.7	0	-0.3	B (67)	None	61.7	0.0	0	61.5	0.2	0	61.3	0.4	0	60.9	0.8	0	60.7	1.0	0	60.6	1.1	0
M-S2A-SB42	14	Via Kona Dr/ Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	61.4	61.4	61.0	0	-0.4	B (67)	None	61.5	-0.5	0	61.5	-0.5	0	61.5	-0.5	0	61.3	-0.3	0	61.2	-0.2	0	61.1	-0.1	0
M-S2A-SB43	14	Via Kona Dr/ Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	62.2	62.2	61.9	0	-0.3	B (67)	None	62.2	-0.3	0	62.1	-0.2	0	62.0	-0.1	0	61.9	0.0	0	61.9	0.0	0	61.9	0.0	0
M-S2A-SB44	14	Via Kona Dr/ Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	66.2	66.2	65.5	0	-0.7	B (67)	None	65.4	0.1	0	65.2	0.3	0	65.1	0.4	0	65.0	0.5	0	64.9	0.6	0	64.9	0.6	0
M-S2A-SB45	14	Via Hilo Dr/Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	64.7	64.7	64.4	0	-0.3	B (67)	None	64.1	0.3	0	64.1	0.3	0	64.0	0.4	0	63.8	0.6	0	63.8	0.6	0	63.7	0.7	0
M-S2A-SB46	14	Via Kona Dr/ Manchester Ave	ESW27	Seg2A-SB3	Mobile Home	1	60.3	60.3	59.7	0	-0.6	B (67)	None	58.7	1.0	0	58.3	1.4	0	58.0	1.7	0	57.7	2.0	0	57.5	2.2	0	57.3	2.4	0
M-S2A-SB47	14	Via Kona Dr/ Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	2	57.9	57.9	56.9	0	-1.0	B (67)	None	56.4	0.5	0	56.2	0.7	0	56.1	0.8	0	55.9	1.0	0	55.8	1.1	0	55.7	1.2	0
M-S2A-SB48	14	Via Hilo Dr/Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	57.3	57.3	57.2	0	-0.1	B (67)	None	57.0	0.2	0	56.9	0.3	0	56.8	0.4	0	56.6	0.6	0	56.6	0.6	0	56.5	0.7	0

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														6 feet			8 feet			10 feet			12 feet			14 feet			16 feet		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2A-SB49	14	Via Kona Dr/ Manchester Ave	ESW27	Seg2A-SB3	Mobile Home	2	56.8	56.8	56.5	0	-0.3	B (67)	None	56.3	0.2	0	56.2	0.3	0	56.1	0.4	0	56.0	0.5	0	56.0	0.5	0	55.9	0.6	0
M-S2A-SB50	14	Via Kona Dr/ Manchester Ave	ESW27	Seg2A-SB3	Mobile Home	2	56.9	56.9	56.2	0	-0.7	B (67)	None	55.9	0.3	0	55.7	0.5	0	55.5	0.7	0	55.4	0.8	0	55.2	1.0	0	55.1	1.1	0
M-S2A-SB51	14	Via Kona Dr/ Manchester Ave	ESW27	–	Hotel Pool	1	60.7	60.7	59.0	0	-1.7	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2A-SB48	14	Via Hilo Dr/Gene Autry Way	ESW27	Seg2A-SB3	Mobile Home	1	57.3	57.3	57.2	0	-0.1	B (67)	None	57.0	0.2	0	56.9	0.3	0	56.8	0.4	0	56.6	0.6	0	56.6	0.6	0	56.5	0.7	0
M-S2A-SB49	14	Via Kona Dr/ Manchester Ave	ESW27	Seg2A-SB3	Mobile Home	2	56.8	56.8	56.5	0	-0.3	B (67)	None	56.3	0.2	0	56.2	0.3	0	56.1	0.4	0	56.0	0.5	0	56.0	0.5	0	55.9	0.6	0
M-S2A-SB50	14	Via Kona Dr/ Manchester Ave	ESW27	Seg2A-SB3	Mobile Home	2	56.9	56.9	56.2	0	-0.7	B (67)	None	55.9	0.3	0	55.7	0.5	0	55.5	0.7	0	55.4	0.8	0	55.2	1.0	0	55.1	1.1	0
M-S2A-SB51	14	Via Kona Dr/ Manchester Ave	ESW27	–	Hotel Pool	1	60.7	60.7	59.0	0	-1.7	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-49. Predicted Future Noise and Barrier Analysis (NSA 15) - Seg2B-NB1 – Alternative 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														16 feet			18 feet			20 feet			22 feet			-			-		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2B-NB24	15	Anaheim Blvd	–	–	Hotel Pool	1	63.5	63.5	63.8	0	0.3	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB25	15	Harvest Way/Cara Dr	ESW-28	Seg2B-NB1	Apt/Condo	2	66.8	66.8	67.4	0	0.6	B (67)	A/E	67.4	0.0	0	66.3	1.1	0	65.6	1.8	0	65.1	2.3	0	–	–	–	–	–	–
M-S2B-NB26	15	Harvest Way/Cara Dr	ESW-28	Seg2B-NB1	Apt/Condo	2	66.0	66.0	66.5	0	0.5	B (67)	A/E	66.5	0.0	0	65.9	0.6	0	65.2	1.3	0	64.2	2.3	0	–	–	–	–	–	–
M-S2B-NB27	15	Bushell St	ESW-28	Seg2B-NB1	Apt/Condo	2	66.6	66.6	67.2	0	0.6	B (67)	A/E	67.1	0.1	0	66.3	0.9	0	65.6	1.6	0	64.7	2.5	0	–	–	–	–	–	–
M-S2B-NB28	15	Bushell St	ESW-28	Seg2B-NB1	Apt/Condo	2	66.9	66.9	67.5	0	0.6	B (67)	A/E	67.4	0.1	0	66.5	1.0	0	65.8	1.7	0	65.0	2.5	0	–	–	–	–	–	–
M-S2B-NB29	15	Bushell St	ESW-28	Seg2B-NB1	Apt/Condo	2	66.2	66.2	66.8	0	0.6	B (67)	A/E	66.5	0.3	0	65.7	1.1	0	65.0	1.8	0	64.3	2.5	0	–	–	–	–	–	–
M-S2B-NB30	15	Cara Dr	ESW-28	Seg2B-NB1	Apt/Condo	2	69.2	69.2	69.2	0	0.0	B (67)	A/E	69.2	0.0	0	68.9	0.3	0	68.7	0.5	0	68.5	0.7	0	–	–	–	–	–	–
M-S2B-NB31	15	Harvest Way/Cara Dr	ESW-28	Seg2B-NB1	Apt/Condo	2	66.1	66.1	66.6	0	0.5	B (67)	A/E	66.5	0.1	0	65.9	0.7	0	65.3	1.3	0	64.7	1.9	0	–	–	–	–	–	–
M-S2B-NB32	15	Harvest Way/Cara Dr	ESW-28	Seg2B-NB1	Apt/Condo	2	65.5	65.5	66.1	0	0.6	B (67)	A/E	66.0	0.1	0	65.3	0.8	0	64.8	1.3	0	64.2	1.9	0	–	–	–	–	–	–
M-S2B-NB33	15	E St/F St	ESW-28	Seg2B-NB1	Apt/Condo	2	64.7	64.7	65.2	0	0.5	B (67)	None	65.1	0.1	0	64.5	0.7	0	63.9	1.3	0	63.4	1.8	0	–	–	–	–	–	–
M-S2B-NB34	15	D St	ESW-28	Seg2B-NB1	Mobile Home	2	65.1	65.1	65.7	0	0.6	B (67)	None	64.8	0.9	0	64.2	1.5	0	63.6	2.1	0	62.7	3.0	0	–	–	–	–	–	–
M-S2B-NB35	15	D St/E St	ESW-28	Seg2B-NB1	Mobile Home	2	65.4	65.4	66.0	0	0.6	B (67)	A/E	65.2	0.8	0	64.4	1.6	0	63.7	2.3	0	62.9	3.1	0	–	–	–	–	–	–
M-S2B-NB36	15	D St	ESW-28	Seg2B-NB1	Mobile Home	1	65.7	65.7	66.4	0	0.7	B (67)	A/E	65.6	0.8	0	64.9	1.5	0	64.1	2.3	0	63.6	2.8	0	–	–	–	–	–	–
M-S2B-NB37	15	E St	ESW-28	Seg2B-NB1	Mobile Home	2	60.6	60.6	61.3	0	0.7	B (67)	None	60.6	0.7	0	59.9	1.4	0	59.2	2.1	0	58.5	2.8	0	–	–	–	–	–	–
M-S2B-NB38	15	D St	ESW-28	Seg2B-NB1	Mobile Home	2	62.1	62.1	62.7	0	0.6	B (67)	None	62.0	0.7	0	61.3	1.4	0	60.6	2.1	0	59.9	2.8	0	–	–	–	–	–	–
M-S2B-NB39	15	E St	ESW-28	Seg2B-NB1	Mobile Home	3	61.4	61.4	62.0	0	0.6	B (67)	None	61.7	0.3	0	61.2	0.8	0	60.7	1.3	0	60.2	1.8	0	–	–	–	–	–	–
M-S2B-NB40	15	D St	ESW-28	Seg2B-NB1	Mobile Home	4	59.3	59.3	60.0	0	0.7	B (67)	None	59.5	0.5	0	58.9	1.1	0	58.3	1.7	0	57.8	2.2	0	–	–	–	–	–	–
M-S2B-NB41	15	D St	ESW-28	Seg2B-NB1	Mobile Home - Pool	10	66.4	66.4	67.0	0	0.6	B (67)	A/E	66.1	0.9	0	65.2	1.8	0	64.4	2.6	0	63.9	3.1	0	–	–	–	–	–	–
M-S2B-NB42	15	Yucca St/Midway Dr	ESW-28	Seg2B-NB1	Mobile Home	2	63.6	63.6	64.3	0	0.7	B (67)	None	63.6	0.7	0	62.9	1.4	0	61.6	2.7	0	61.0	3.3	0	–	–	–	–	–	–
M-S2B-NB43	15	Midway Dr	ESW-28	Seg2B-NB1	Mobile Home	2	63.2	63.2	63.9	0	0.7	B (67)	None	63.0	0.9	0	62.3	1.6	0	61.6	2.3	0	60.9	3.0	0	–	–	–	–	–	–
M-S2B-NB44	15	Yucca St	ESW-28	Seg2B-NB1	Mobile Home	3	61.4	61.4	62.1	0	0.7	B (67)	None	61.5	0.6	0	60.8	1.3	0	60.2	1.9	0	59.5	2.6	0	–	–	–	–	–	–
M-S2B-NB45	15	Midway Dr	ESW-28	Seg2B-NB1	Mobile Home	2	62.9	62.9	63.6	0	0.7	B (67)	None	63.1	0.5	0	62.7	0.9	0	62.2	1.4	0	61.8	1.8	0	–	–	–	–	–	–
M-S2B-NB46	15	Yucca St/Willow St	ESW-28	Seg2B-NB1	Mobile Home	2	63.1	63.1	63.8	0	0.7	B (67)	None	63.1	0.7	0	62.5	1.3	0	61.9	1.9	0	61.3	2.5	0	–	–	–	–	–	–
M-S2B-NB47	15	Midway Dr	ESW-28	Seg2B-NB1	Mobile Home	3	60.5	60.5	61.2	0	0.7	B (67)	None	60.8	0.4	0	60.7	0.5	0	60.7	0.5	0	60.1	1.1	0	–	–	–	–	–	–
M-S2B-NB48	15	Palm St/Palais Rd	ESW-28	Seg2B-NB1	Apt/Condo	10	66.0	66.0	66.7	0	0.7	B (67)	A/E	65.7	1.0	0	64.8	1.9	0	64.0	2.7	0	63.3	3.4	0	–	–	–	–	–	–
M-S2B-NB49	15	Palais Rd	ESW-28	Seg2B-NB1	Apt/Condo	10	60.8	60.8	61.5	0	0.7	B (67)	None	60.7	0.8	0	59.9	1.6	0	59.1	2.4	0	58.3	3.2	0	–	–	–	–	–	–
M-S2B-NB50	15	Palais Rd/ Palm St	ESW-28	Seg2B-NB1	Apt/Condo	10	65.2	65.2	65.8	0	0.6	B (67)	None	64.7	1.1	0	63.9	1.9	0	63.1	2.7	0	62.3	3.5	0	–	–	–	–	–	–
M-S2B-NB51	15	Guinida Ln/Palm St	ESW-28	Seg2B-NB1	Apt/Condo	10	65.0	65.0	65.5	0	0.5	B (67)	None	64.5	1.0	0	63.7	1.8	0	63.0	2.5	0	62.2	3.3	0	–	–	–	–	–	–
M-S2B-NB52	15	Guinida Ln/Palais Rd	ESW-28	Seg2B-NB1	Apt/Condo	10	59.7	59.7	60.3	0	0.6	B (67)	None	59.3	1.0	0	58.4	1.9	0	57.6	2.7	0	56.8	3.5	0	–	–	–	–	–	–
M-S2B-NB53	15	Palm St	ESW-28	Seg2B-NB1	Apt/Condo	5	64.5	64.5	65.0	0	0.5	B (67)	None	64.2	0.8	0	63.4	1.6	0	62.7	2.3	0	62.1	2.9	0	–	–	–	–	–	–
M-S2B-NB54	15	Palm St	ESW-28	–	Apt/Condo	5	59.3	59.3	59.9	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB55	15	Palm St	ESW-28	–	Apt/Condo	1	64.4	64.4	64.8	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB56	15	Palm St/Winston Rd	ESW-28	–	Apt/Condo	1	63.9	63.9	64.3	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB57	15	Palm St/Winston Rd	ESW-28	–	Apt/Condo	1	64.7	64.7	65.2	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB58	15	Palm St	ESW-28	–	Apt/Condo	1	64.3	64.3	64.8	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB59	15	Palm St	ESW-28	–	Apt/Condo	1	63.5	63.5	64.0	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB60	15	Palm St	ESW-28	–	Apt/Condo	1	62.2	62.2	62.7	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														16 feet			18 feet			20 feet			22 feet			-			-		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2B-NB61	15	Palm St	ESW-28	–	Apt/Condo	1	61.3	61.3	61.7	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB62	15	Palm St	ESW-28	–	Apt/Condo	1	61.3	61.3	61.7	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB63	15	Palm St	ESW-28	–	Apt/Condo	1	61.7	61.7	62.0	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB64	15	Palm St	ESW-28	–	Apt/Condo	1	62.9	62.9	63.1	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB65	15	Palm St	ESW-28	–	Apt/Condo	1	60.6	60.6	60.8	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB66	15	Palm St	ESW-28	–	Apt/Condo	1	60.2	60.2	60.3	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB67	15	Palm St	ESW-28	–	Apt/Condo	1	60.6	60.6	60.8	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB68	15	Palm St	ESW-28	–	Apt/Condo	1	61.0	61.0	61.4	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB69	15	Palm St	ESW-28	–	Apt/Condo	1	60.5	60.5	61.2	0	0.7	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB70	15	Palm St	ESW-28	–	Apt/Condo	1	62.5	62.5	63.6	0	1.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB76	15	Palm St/Berry Ave	ESW-28	–	Apt/Condo	3	59.1	59.1	59.6	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB72	15	Palm St/Winston Rd	ESW-28	–	Apt/Condo	1	62.7	62.7	63.2	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB73	15	Palm St	ESW-28	–	Apt/Condo	3	60.1	60.1	60.6	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB74	15	Palm St	ESW-28	–	Apt/Condo	3	58.9	58.9	59.3	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB75	15	Palm St/Boysen Ave	ESW-28	–	Apt/Condo	3	57.7	57.7	58.1	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2B-NB76	15	Palm St/Berry Ave	ESW-28	–	Apt/Condo	3	59.1	59.1	59.6	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-50. Predicted Future Noise and Barrier Analysis (NSA 16) - Seg2B-SB1 – Alternative 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																									
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														6 feet			8 feet			10 feet			12 feet			14 feet			16 Feet		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2B-SB52	16	Manchester Ave/ Anaheim Blvd		Seg2A-SB1	Hotel Sport Area	1	58.5	58.5	58.8	0	0.3	E (72)	None	58.7	0.1	0	58.6	0.2	0	58.5	0.3	0	58.5	0.3	0	58.4	0.4	0	58.4	0.4	0
M-S2B-SB53	16	Manchester Ave/ Anaheim Blvd		Seg2A-SB1	Hotel Pool Deck	1	69.3	69.3	69.8	0	0.5	E (72)	None	69.7	0.1	0	69.7	0.1	0	69.7	0.1	0	69.7	0.1	0	69.7	0.1	0	69.6	0.2	0
M-S2B-SB54	16	Disney Way/ Anaheim Blvd		Seg2A-SB1	Hotel Pool	1	61.2	61.2	61.4	0	0.2	E (72)	None	61.1	0.3	0	61.0	0.4	0	60.8	0.6	0	60.7	0.7	0	60.6	0.8	0	60.5	0.9	0
M-S2B-SB55	16	Disney Way/Zeyn St		Seg2A-SB1	Park	1	69.3	69.3	69.5	0	0.2	C (67)	A/E	69.3	0.2	0	69.2	0.3	0	69.2	0.3	0	69.1	0.4	0	69.1	0.4	0	69.1	0.4	0
M-S2B-SB56	16	Clementine St/ Disney Way		Seg2A-SB1	Condo	1	67.4	67.4	67.6	0	0.2	B (67)	A/E	67.3	0.3	0	67.2	0.4	0	67.2	0.4	0	67.1	0.5	0	67.1	0.5	0	67.0	0.6	0
M-S2B-SB57	16	Disney Way/Zeyn St		–	Hotel Pool	1	63.9	63.9	64.4	0	0.5	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-51. Predicted Future Noise and Barrier Analysis (NSA 17) - Seg2C-NB1 – Alternative 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																						
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																
														18 feet			20 feet			22 feet			–			–			–		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2C-NB76	17	Ball Rd/Harbor Blvd	ESW-30	–	Hotel Pool	1	66.9	66.9	67.3	0	0.4	E (72)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB77	17	Citron St	ESW-31	–	Apartment Pool	1	58.7	58.7	59.2	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB78	17	Citron St	ESW-31	–	Apt/Condo	1	64.0	64.0	64.5	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB79	17	Citron St	ESW-31	–	Apt/Condo	1	63.1	63.1	63.6	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB80	17	Citron St	EPW-12	–	Apt/Condo	2	65.0	65.0	64.6	0	-0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB81	17	Citron St	EPW-12	–	Apt/Condo	6	61.7	61.7	62.2	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB82	17	Citron St	EPW-12	–	Apt/Condo	6	62.2	62.2	62.4	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB83	17	Cottonwood Cir	ESW-32	Seg2C-NB1	Park	1	66.0	66.0	66.5	0	0.5	C (67)	A/E	65.8	0.7	0	65.3	1.2	0	64.8	1.7	0	–	–	–	–	–	–	–	–	–
M-S2C-NB84	17	Cottonwood Cir/Vermont Ave	ESW-32	Seg2C-NB1	SFR	1	70.4	70.4	70.8	0	0.4	B (67)	A/E	70.7	0.1	0	70.6	0.2	0	70.6	0.2	0	–	–	–	–	–	–	–	–	–
M-S2C-NB85	17	Cottonwood Cir	ESW-32	Seg2C-NB1	SFR	1	67.6	67.6	68.1	0	0.5	B (67)	A/E	68.0	0.1	0	67.9	0.2	0	67.8	0.3	0	–	–	–	–	–	–	–	–	–
M-S2C-NB86	17	Cottonwood Cir	ESW-32	Seg2C-NB1	SFR	1	65.8	65.8	66.3	0	0.5	B (67)	A/E	66.1	0.2	0	65.9	0.4	0	65.7	0.6	0	–	–	–	–	–	–	–	–	–
M-S2C-NB87	17	Cottonwood Cir	ESW-32	Seg2C-NB1	SFR	1	63.3	63.3	63.8	0	0.5	B (67)	None	63.3	0.5	0	62.9	0.9	0	62.5	1.3	0	–	–	–	–	–	–	–	–	–
M-S2C-NB88	17	Cottonwood Cir	ESW-32	Seg2C-NB1	SFR	1	65.1	65.1	65.7	0	0.6	B (67)	None	65.1	0.6	0	64.2	1.5	0	63.5	2.2	0	–	–	–	–	–	–	–	–	–
M-S2C-NB89	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	1	64.8	64.8	65.4	0	0.6	B (67)	None	64.7	0.7	0	64.2	1.2	0	63.5	1.9	0	–	–	–	–	–	–	–	–	–
M-S2C-NB90	17	Cottonwood Cir	ESW-32	Seg2C-NB1	SFR	1	58.2	58.2	58.8	0	0.6	B (67)	None	58.6	0.2	0	58.5	0.3	0	58.3	0.5	0	–	–	–	–	–	–	–	–	–
M-S2C-NB91	17	Cottonwood Cir	ESW-32	Seg2C-NB1	SFR	2	61.0	61.0	61.6	0	0.6	B (67)	None	61.3	0.3	0	61.1	0.5	0	60.9	0.7	0	–	–	–	–	–	–	–	–	–
M-S2C-NB92	17	Cottonwood Cir	ESW-32	Seg2C-NB1	SFR	3	60.3	60.3	60.9	0	0.6	B (67)	None	60.7	0.2	0	60.5	0.4	0	60.3	0.6	0	–	–	–	–	–	–	–	–	–
M-S2C-NB93	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	2	63.3	63.3	63.9	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB94	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	2	61.2	61.2	62.0	0	0.8	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB95	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	1	62.6	62.6	63.2	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB96	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	1	63.2	63.2	63.8	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB97	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	2	63.2	63.2	63.7	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB98	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	1	63.4	63.4	63.9	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB99	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	1	62.4	62.4	62.9	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB100	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	1	61.2	61.2	61.7	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB101	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	2	57.9	57.9	58.6	0	0.7	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB102	17	Bellevue Dr	ESW-32	Seg2C-NB1	SFR	2	56.9	56.9	57.4	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB103	17	Irving Pl	ESW-32	Seg2C-NB1	SFR	1	59.5	59.5	60.0	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB104	17	South St	ESW-32	Seg2C-NB1	SFR	1	59.0	59.0	59.5	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB105	17	Illinois St	ESW-32	Seg2C-NB1	SFR	1	62.3	62.3	62.8	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB106	17	Illinois St	ESW-32	Seg2C-NB1	SFR	1	61.5	61.5	62.1	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB107	17	Illinois St	ESW-32	Seg2C-NB1	SFR	2	61.2	61.2	61.8	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB108	17	Illinois St	ESW-32	Seg2C-NB1	SFR	2	59.9	59.9	60.4	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB109	17	Illinois St	ESW-32	Seg2C-NB1	SFR	1	63.1	63.1	63.5	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB110	17	Illinois St	ESW-32	Seg2C-NB1	SFR	1	62.9	62.9	63.4	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB111	17	Illinois St	ESW-32	Seg2C-NB1	SFR	1	62.2	62.2	62.6	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB112	17	Illinois St	ESW-32	Seg2C-NB1	SFR	1	63.1	63.1	63.5	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB113	17	West St/Water St	ESW-32	Seg2C-NB1	SFR	1	62.3	62.3	62.7	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB114	17	West St	ESW-32	Seg2C-NB1	SFR	1	60.9	60.9	61.4	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB115	17	West St	ESW-32	Seg2C-NB1	SFR	1	62.4	62.4	62.8	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB116	17	West St	ESW-32	Seg2C-NB1	SFR	1	62.9	62.9	63.3	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB117	17	West St	ESW-32	Seg2C-NB1	SFR	1	63.3	63.3	63.7	0	0.4	B (67)	None	63.0	0.7	0	62.2	1.5	0	61.4	2.3	0	–	–	–	–	–	–	–	–	–
M-S2C-NB118	17	West St	ESW-32	Seg2C-NB1	SFR	1	63.8	63.8	64.2	0	0.4	B (67)	None	63.5	0.7	0	63.1	1.1	0	62.5	1.7	0	–	–	–	–	–	–	–	–	–
M-S2C-NB119	17	West St	ESW-32	Seg2C-NB1	SFR	1	64.4	64.4	64.8	0	0.4	B (67)	None	64.3	0.5	0	63.9	0.9	0	63.5	1.3	0	–	–	–	–	–	–	–	–	–
M-S2C-NB120	17	West St/Santa Ana St	ESW-32	Seg2C-NB1	SFR	1	66.0	66.0	66.3	0	0.3	B (67)	A/E	66.0	0.3	0	65.7	0.6	0	65.5	0.8	0	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)									–			–			–		
														18 feet			20 feet			22 feet										
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2C-NB121	17	South St/ Indiana St	ESW-32	Seg2C-NB1	SFR	1	71.4	71.4	71.6	0	0.2	B (67)	A/E	71.5	0.1	0	71.5	0.1	0	71.4	0.2	0	–	–	–	–	–	–	–	–	–
M-S2C-NB122	17	Indiana St	ESW-32	Seg2C-NB1	SFR	2	59.4	59.4	59.9	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB123	17	Indiana St	ESW-32	Seg2C-NB1	SFR	2	58.3	58.3	58.8	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB124	17	Indiana St	ESW-32	Seg2C-NB1	SFR	2	58.3	58.3	58.7	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB125	17	Indiana St	ESW-32	Seg2C-NB1	SFR	2	58.4	58.4	59.0	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB126	17	Illinois St	ESW-32	Seg2C-NB1	SFR	2	59.2	59.2	59.7	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB127	17	Illinois St/Water St	ESW-32	Seg2C-NB1	SFR	2	59.5	59.5	60.0	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB128	17	Illinois St/Water St	ESW-32	Seg2C-NB1	SFR	2	58.2	58.2	58.7	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB129	17	West St	ESW-32	Seg2C-NB1	SFR	2	57.7	57.7	58.2	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB130	17	West St	ESW-32	Seg2C-NB1	SFR	2	55.1	55.1	55.6	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB131	17	West St	ESW-32	Seg2C-NB1	SFR	2	62.0	62.0	62.3	0	0.3	B (67)	None	62.0	0.3	0	61.7	0.6	0	61.5	0.8	0	–	–	–	–	–	–	–	–	–
M-S2C-NB132	17	West St	ESW-32	Seg2C-NB1	SFR	2	56.5	56.5	56.7	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-52. Predicted Future Noise and Barrier Analysis (NSA 17) - Seg2C-NB2 – Alternative 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)									–			–			–		
														18 feet			20 feet			22 feet			–			–			–		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2C-NB133	17	Fay Ln	ESW-33	Seg2C-NB2	Apartment	6	60.8	60.8	61.3	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB134	17	Fay Ln	ESW-33	Seg2C-NB2	Apartment	6	61.1	61.1	61.5	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB135	17	Fay Ln	ESW-33	Seg2C-NB2	Apartment	6	61.5	61.5	61.9	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB136	17	Fay Ln	ESW-33	Seg2C-NB2	Apartment	6	59.3	59.3	59.7	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB137	17	Fay Ln	ESW-33	Seg2C-NB2	Apartment Pool	1	62.8	62.8	63.8	0	1.0	B (67)	None	63.0	0.8	0	62.4	1.4	0	62.0	1.8	–	–	–	–	–	–	–	–	–	–
M-S2C-NB138	17	Fay Ln	ESW-33	Seg2C-NB2	Apartment Pool	1	51.3	51.3	51.7	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB139	17	Fay Ln /West St	ESW-33	Seg2C-NB2	Apartment	2	57.9	57.9	58.0	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB140	17	Fay Ln	ESW-33	Seg2C-NB2	Apartment	12	55.5	55.5	55.9	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB141	17	Broadway	ESW-33	Seg2C-NB2	Apartment	8	69.4	69.4	70.0	0	0.6	B (67)	A/E	70.0	0	0	69.9	0.1	0	69.9	0.1	0	–	–	–	–	–	–	–	–	–	–
M-S2C-NB142	17	Broadway	ESW-33	Seg2C-NB2	Apartment	8	63.7	63.7	64.4	0	0.7	B (67)	None	64.4	0	0	64.3	0.1	0	64.3	0.1	0	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-53. Predicted Future Noise and Barrier Analysis (NSA 17) - Seg2C-NB3 – Alternative 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																						
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)									–			–			–		
														18 feet			20 feet			22 feet										
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2C-NB143	17	Walnut St/Broadway	ESW-34	Seg2C-NB3	SFR	1	69.6	69.6	71.0	0	1.4	B (67)	A/E	70.4	0.6	0	70.0	1.0	0	69.7	1.3	0	–	–	–	–	–	–	–	–	–
M-S2C-NB144	17	Walnut St	ESW-34	Seg2C-NB3	SFR	1	69.6	69.6	70.6	0	1.0	B (67)	A/E	69.1	1.5	0	68.0	2.6	0	67.0	3.6	0	–	–	–	–	–	–	–	–	–
M-S2C-NB145	17	Walnut St	ESW-34	Seg2C-NB3	SFR	1	66.9	66.9	67.5	0	0.6	B (67)	A/E	66.1	1.4	0	65.0	2.5	0	64.0	3.5	0	–	–	–	–	–	–	–	–	–
M-S2C-NB146	17	Walnut St	ESW-34	Seg2C-NB3	SFR	1	65.3	65.3	65.7	0	0.4	B (67)	None	64.7	1.0	0	63.5	2.2	0	62.7	3.0	0	–	–	–	–	–	–	–	–	–
M-S2C-NB147	17	Walnut St	ESW-34	Seg2C-NB3	SFR	1	57.4	57.4	58.0	0	0.6	B (67)	None	57.3	0.7	0	56.4	1.6	0	55.8	2.2	0	–	–	–	–	–	–	–	–	–
M-S2C-NB148	17	Walnut St/Cherry St	ESW-34	Seg2C-NB3	Apartment	2	68.2	68.2	68.8	0	0.6	B (67)	A/E	67.3	1.5	0	65.9	2.9	0	64.8	4.0	0	–	–	–	–	–	–	–	–	–
M-S2C-NB149	17	Walnut St/Cherry St	ESW-34	Seg2C-NB3	Apartment	6	66.4	66.4	67.1	0	0.7	B (67)	A/E	65.8	1.3	0	64.4	2.7	0	63.5	3.6	0	–	–	–	–	–	–	–	–	–
M-S2C-NB150	17	Cherry St	ESW-34	Seg2C-NB3	SFR	1	62.0	62.0	62.6	0	0.6	B (67)	None	61.2	1.4	0	59.9	2.7	0	58.9	3.7	0	–	–	–	–	–	–	–	–	–
M-S2C-NB151	17	Walnut St/Broadway	ESW-34	Seg2C-NB3	Apartment	2	64.4	64.4	65.7	0	1.3	B (67)	None	65.6	0.1	0	65.6	0.1	0	65.6	0.1	0	–	–	–	–	–	–	–	–	–
M-S2C-NB152	17	Walnut St	ESW-34	Seg2C-NB3	Apartment	2	59.2	59.2	60.3	0	1.1	B (67)	None	60.2	0.1	0	60.1	0.2	0	60.0	0.3	0	–	–	–	–	–	–	–	–	–
M-S2C-NB153	17	Walnut St	ESW-34	Seg2C-NB3	Apartment	5	55.9	55.9	56.7	0	0.8	B (67)	None	56.7	0	0	56.1	0.6	0	55.7	1.0	0	–	–	–	–	–	–	–	–	–
M-S2C-NB154	17	Center St	ESW-34	Seg2C-NB3	Apartment	6	55.8	55.8	56.6	0	0.8	B (67)	None	56.1	0.5	0	55.8	0.8	0	55.4	1.2	0	–	–	–	–	–	–	–	–	–
M-S2C-NB155	17	Center St	ESW-34	Seg2C-NB3	Apartment	1	59.1	59.1	59.5	0	0.4	B (67)	None	58.8	0.7	0	58.1	1.4	0	57.6	1.9	0	–	–	–	–	–	–	–	–	–
M-S2C-NB156	17	Walnut St	ESW-34	Seg2C-NB3	Apartment	8	56.2	56.2	57.2	0	1.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB157	17	Center St	ESW-34	Seg2C-NB3	SFR	1	54.7	54.7	55.8	0	1.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB158	17	Center St	ESW-34	Seg2C-NB3	SFR	1	55.4	55.4	56.1	0	0.7	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-NB159	17	Center St	ESW-34	Seg2C-NB3	SFR	1	56.0	56.0	56.7	0	0.7	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-54. Predicted Future Noise and Barrier Analysis (NSA 18) Seg2C-SB1 – Alternative 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														12 feet			14 feet			16 feet			18 feet			20 feet			22 feet		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2C-SB58	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	65.1	65.1	65.2	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB59	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	64.2	64.2	64.2	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB60	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	63.7	63.7	63.8	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB61	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	60.5	60.5	60.7	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB62	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	62.3	62.3	62.5	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB63	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	61.1	61.1	61.2	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB64	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	61.0	61.0	61.2	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB65	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	61.7	61.7	61.8	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB66	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	62.2	62.2	62.3	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB67	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	62.7	62.7	62.8	0	0.1	B (67)	None	62.7	0.1	0	62.7	0.1	0	62.7	0.1	0	62.6	0.2	0	62.6	0.2	0	62.6	0.2	0
M-S2C-SB68	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	64.7	64.7	64.8	0	0.1	B (67)	None	64.8	0.0	0	64.8	0.0	0	64.8	0.0	0	64.7	0.1	0	64.7	0.1	0	64.6	0.2	0
M-S2C-SB69	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	67.8	67.8	68.0	0	0.2	B (67)	A/E	67.9	0.1	0	67.8	0.2	0	67.8	0.2	0	67.7	0.3	0	67.7	0.3	0	67.6	0.4	0
M-S2C-SB70	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	67.1	67.1	67.4	0	0.3	B (67)	A/E	67.4	0.0	0	67.3	0.1	0	67.2	0.2	0	67.1	0.3	0	67.1	0.3	0	67.0	0.4	0
M-S2C-SB71	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	67.1	67.1	67.4	0	0.3	B (67)	A/E	67.1	0.3	0	67	0.4	0	67.0	0.4	0	66.9	0.5	0	66.8	0.6	0	66.7	0.7	0
M-S2C-SB72	18	Aspen St/Beacon Ave	ESW-35	Seg2C-SB1	SFR	2	56.7	56.7	56.9	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB73	18	Chateau Ave/Aspen St	ESW-35	Seg2C-SB1	SFR	2	61.2	61.2	61.5	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB74	18	Aspen St/Locust Ave	ESW-35	Seg2C-SB1	SFR	2	57.6	57.6	58.0	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB75	18	Disneyland Dr/South St	ESW-35	Seg2C-SB1	SFR	2	60.4	60.4	60.9	0	0.5	B (67)	None	60.7	0.2	0	60.3	0.6	0	60.3	0.6	0	60.0	0.9	0	59.8	1.1	0	59.7	1.2	0
M-S2C-SB76	18	Disneyland Dr/South St	ESW-35	Seg2C-SB1	SFR	2	60.1	60.1	60.4	0	0.3	B (67)	None	60.2	0.2	0	60	0.4	0	60.0	0.4	0	59.7	0.7	0	59.5	0.9	0	59.3	1.1	0
M-S2C-SB77	18	South St/ Hazelwood St	ESW-35	Seg2C-SB1	SFR	1	54.3	54.3	54.7	0	0.4	B (67)	None	54.4	0.3	0	54.1	0.6	0	54.1	0.6	0	53.5	1.2	0	51.6	3.1	0	51.3	3.4	0
M-S2C-SB78	18	Hazelwood St	ESW-35	Seg2C-SB1	SFR	1	62.1	62.1	62.3	0	0.2	B (67)	None	62.0	0.3	0	61.8	0.5	0	61.8	0.5	0	61.5	0.8	0	61.1	1.2	0	61	1.3	0
M-S2C-SB79	18	Hazelwood St	ESW-35	Seg2C-SB1	SFR	1	62.0	62.0	62.3	0	0.3	B (67)	None	62.2	0.1	0	61.9	0.4	0	61.9	0.4	0	61.6	0.7	0	61.2	1.1	0	61.1	1.2	0
M-S2C-SB80	18	Hazelwood St	ESW-35	Seg2C-SB1	SFR	1	55.1	55.1	55.5	0	0.4	B (67)	None	55.0	0.5	0	54.7	0.8	0	54.7	0.8	0	54.7	0.8	0	53.7	1.8	0	53.5	2.0	0
M-S2C-SB81	18	Hazelwood St/ Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	58.0	58.0	58.3	0	0.3	B (67)	None	57.9	0.4	0	57.5	0.8	0	57.5	0.8	0	57.0	1.3	0	56.7	1.6	0	56.5	1.8	0
M-S2C-SB82	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	68.2	68.2	68.4	0	0.2	B (67)	A/E	68.5	-0.1	0	68.3	0.1	0	68.3	0.1	0	68.0	0.4	0	67.8	0.6	0	67.7	0.7	0
M-S2C-SB83	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	68.4	68.4	68.6	0	0.2	B (67)	A/E	68.5	0.1	0	68.4	0.2	0	68.4	0.2	0	68.0	0.6	0	67.9	0.7	0	67.8	0.8	0
M-S2C-SB84	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	68.0	68.0	68.2	0	0.2	B (67)	A/E	68.4	-0.2	0	68.2	0.0	0	68.2	0.0	0	67.9	0.3	0	67.7	0.5	0	67.6	0.6	0
M-S2C-SB85	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	68.2	68.2	68.4	0	0.2	B (67)	A/E	68.6	-0.2	0	68.7	-0.3	0	68.7	-0.3	0	68.5	-0.1	0	68.3	0.1	0	68.2	0.2	0
M-S2C-SB86	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	67.3	67.3	67.4	0	0.1	B (67)	A/E	67.2	0.2	0	67.2	0.2	0	67.2	0.2	0	67.6	-0.2	0	67.5	-0.1	0	67.4	0.0	0
M-S2C-SB87	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	66.5	66.5	66.6	0	0.1	B (67)	A/E	66.5	0.1	0	66.6	0.0	0	66.6	0.0	0	67.0	-0.4	0	66.8	-0.2	0	66.7	-0.1	0
M-S2C-SB88	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	67.3	67.3	67.5	0	0.2	B (67)	A/E	67.3	0.2	0	68	-0.5	0	68.0	-0.5	0	67.7	-0.2	0	67.6	-0.1	0	67.4	0.1	0
M-S2C-SB89	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	69.2	69.2	69.4	0	0.2	B (67)	A/E	69.1	0.3	0	68.9	0.5	0	68.9	0.5	0	68.6	0.8	0	68.5	0.9	0	68.4	1.0	0
M-S2C-SB90	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	66.9	66.9	67.0	0	0.1	B (67)	A/E	66.8	0.2	0	66.8	0.2	0	66.8	0.2	0	66.7	0.3	0	66.8	0.2	0	66.9	0.1	0
M-S2C-SB91	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	67.2	67.2	67.3	0	0.1	B (67)	A/E	67.2	0.1	0	67.1	0.2	0	67.1	0.2	0	67.4	-0.1	0	67.4	-0.1	0	67.3	0.0	0
M-S2C-SB92	18	Disneyland Dr	ESW-35	Seg2C-SB1	SFR	1	65.9	65.9	66.0	0	0.1	B (67)	A/E	65.9	0.1	0	66.1	-0.1	0	66.1	-0.1	0	66.2	-0.2	0	66.1	-0.1	0	66	0.0	0
M-S2C-SB93	18	Hazelwood St	ESW-35	Seg2C-SB1	SFR	2	56.9	56.9	57.2	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB94	18	Hazelwood St	ESW-35	Seg2C-SB1	SFR	3	57.2	57.2	57.6	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB95	18	Hazelwood St	ESW-35	Seg2C-SB1	SFR	3	56.4	56.4	56.8	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB96	18	Pepper St/ Elderwood Ave	ESW-35	Seg2C-SB1	SFR	1	54.9	54.9	55.4	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB97	18	Hazelwood St	ESW-35	Seg2C-SB1	SFR	2	56.0	56.0	56.5	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB98	18	Hazelwood St	ESW-35	Seg2C-SB1	SFR	1	62.0	62.0	62.2	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2C-SB99	18	Hazelwood St	ESW-35	Seg2C-SB1	SFR	2	56.9	56.9	57.2	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-55. Predicted Future Noise and Barrier Analysis (NSA 18) - Seg2C-SB2 – Alternative 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														6 feet			8 feet			10 feet			12 feet			14 feet			16 feet		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2C-SB100	18	Manchester Ave/Santa Ana St	–	Seg2C-SB2	Park	1	70.7	70.7	70.7	0	0.0	C (67)	A/E	70.7	0.0	0	70.7	0.0	0	70.7	0.0	0	70.6	0.1	0	70.6	0.1	0	70.5	0.2	0
M-S2C-SB101	18	Manchester Ave/Santa Ana St	–	Seg2C-SB2	Park	1	67.3	67.3	67.3	0	0.0	C (67)	A/E	67.3	0.0	0	67.2	0.1	0	67.2	0.1	0	67.1	0.2	0	67.1	0.2	0	67.0	0.3	0
M-S2C-SB102	18	Manchester Ave/Santa Ana St	–	Seg2C-SB2	Park	1	64.8	64.8	64.9	0	0.1	C (67)	None	64.7	0.2	0	64.6	0.3	0	64.6	0.3	0	64.6	0.3	0	64.5	0.4	0	64.5	0.4	0

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-56. Predicted Future Noise and Barrier Analysis (NSA 19) - Seg2D-NB1 – Alternative 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														18 feet			20 feet			22 feet			–			–			–		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2D-NB161	19	Pearl St	ESW-36	Seg2D-NB1	Apartment-Outdoor Area	1	44.0	44.0	45.1	0	1.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB162	19	Pearl St	ESW-36	Seg2D-NB1	Apartment Pool	1	44.8	44.8	46.0	0	1.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB163	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	55.7	55.7	56.2	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB164	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	53.0	53.0	53.6	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB165	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	65.8	65.8	66.6	0	0.8	B (67)	A/E	66.3	0.3	0	66.0	0.6	0	65.8	0.8	0	–	–	–	–	–	–	–	–
M-S2D-NB166	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	64.5	64.5	65.3	0	0.8	B (67)	None	64.8	0.5	0	64.4	0.9	0	64.1	1.2	0	–	–	–	–	–	–	–	–
M-S2D-NB167	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	61.8	61.8	62.7	0	0.9	B (67)	None	62.2	0.5	0	61.7	1.0	0	61.3	1.4	0	–	–	–	–	–	–	–	–
M-S2D-NB168	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	59.3	59.3	60.2	0	0.9	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB169	19	Pearl St	ESW-36	Seg2D-NB1	SFR	1	56.5	56.5	57.5	0	1.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB170	19	Wilshire Ave	ESW-36	Seg2D-NB1	SFR	1	64.7	64.7	65.3	0	0.6	B (67)	None	64.9	0.4	0	64.5	0.8	0	64.2	1.1	0	–	–	–	–	–	–	–	–
M-S2D-NB171	19	Wilshire Ave/ Birchmont Dr	ESW-36	Seg2D-NB1	SFR	1	62.9	62.9	63.4	0	0.5	B (67)	None	63.0	0.4	0	62.6	0.8	0	62.3	1.1	0	–	–	–	–	–	–	–	–
M-S2D-NB172	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo Pool	1	64.0	64.0	64.6	0	0.6	B (67)	None	64.2	0.4	0	63.9	0.7	0	63.7	0.9	0	–	–	–	–	–	–	–	–
M-S2D-NB173	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	68.0	68.0	68.3	0	0.3	B (67)	A/E	68.2	0.1	0	68.0	0.3	0	68.0	0.3	0	–	–	–	–	–	–	–	–
M-S2D-NB174	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	67.9	67.9	68.2	0	0.3	B (67)	A/E	68.0	0.2	0	67.9	0.3	0	67.8	0.4	0	–	–	–	–	–	–	–	–
M-S2D-NB175	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	67.7	67.7	68.0	0	0.3	B (67)	A/E	67.9	0.1	0	67.8	0.2	0	67.7	0.3	0	–	–	–	–	–	–	–	–
M-S2D-NB176	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	67.3	67.3	67.6	0	0.3	B (67)	A/E	67.4	0.2	0	67.3	0.3	0	67.2	0.4	0	–	–	–	–	–	–	–	–
M-S2D-NB177	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	66.7	66.7	67.1	0	0.4	B (67)	A/E	66.9	0.2	0	66.8	0.3	0	66.7	0.4	0	–	–	–	–	–	–	–	–
M-S2D-NB178	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	67.2	67.2	67.5	0	0.3	B (67)	A/E	67.4	0.1	0	67.3	0.2	0	67.2	0.3	0	–	–	–	–	–	–	–	–
M-S2D-NB179	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	67.5	67.5	67.9	0	0.4	B (67)	A/E	67.7	0.2	0	67.6	0.3	0	67.5	0.4	0	–	–	–	–	–	–	–	–
M-S2D-NB180	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	68.2	68.2	68.5	0	0.3	B (67)	A/E	68.4	0.1	0	68.3	0.2	0	68.2	0.3	0	–	–	–	–	–	–	–	–
M-S2D-NB181	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	1	60.2	60.2	61.2	0	1.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB182	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	2	54.8	54.8	55.8	0	1.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB183	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	2	49.7	49.7	50.9	0	1.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB184	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	2	55.8	55.8	57.3	0	1.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB185	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	2	57.9	57.9	58.9	0	1.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB186	19	Wilshire Ave	ESW-36	Seg2D-NB1	Apartment/ Condo	2	56.0	56.0	57.1	0	1.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-57. Predicted Future Noise and Barrier Analysis (NSA 19) - Seg2D-NB2 – Alternative 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														18 feet			20 feet			22 feet			–			–			–		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2D-NB187	19	Linden Pl/ Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	65.0	65.0	65.3	0	0.3	B (67)	None	64.4	0.9	0	63.8	1.5	0	63.3	2.0	0	–	–	–	–	–	–	–	–	–
M-S2D-NB188	19	Linden Pl/ Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	66.6	66.6	**66.9**	0	0.3	B (67)	A/E	65.8	1.1	0	65.1	1.8	0	64.3	2.6	0	–	–	–	–	–	–	–	–	–
M-S2D-NB189	19	Linden Pl/ Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	61.7	61.7	62.1	0	0.4	B (67)	None	61.3	0.8	0	60.7	1.4	0	60.2	1.9	0	–	–	–	–	–	–	–	–	–
M-S2D-NB190	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	2	60.3	60.3	60.7	0	0.4	B (67)	None	–	–	0	–	–	0	–	–	0	–	–	–	–	–	–	–	–	–
M-S2D-NB191	19	Parkwood St/ Manor St	ESW-37	Seg2D-NB2	SFR	2	63.7	63.7	64.1	0	0.4	B (67)	None	63.1	1.0	0	62.3	1.8	0	61.6	2.5	0	–	–	–	–	–	–	–	–	–
M-S2D-NB192	19	Parkwood St/ Manor St	ESW-37	Seg2D-NB2	SFR	1	59.7	59.7	60.2	0	0.5	B (67)	None	60.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB193	19	Parkwood St/ Manor St	ESW-37	Seg2D-NB2	SFR	1	59.4	59.4	59.9	0	0.5	B (67)	None	60.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB194	19	Westmont Dr/ Manor St	ESW-37	Seg2D-NB2	SFR	1	65.4	65.4	65.9	0	0.5	B (67)	None	64.8	1.1	0	64.1	1.8	0	63.3	2.6	0	–	–	–	–	–	–	–	–	–
M-S2D-NB195	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	65.0	65.0	65.4	0	0.4	B (67)	None	64.5	0.9	0	63.7	1.7	0	63.0	2.4	0	–	–	–	–	–	–	–	–	–
M-S2D-NB196	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	63.8	63.8	64.3	0	0.5	B (67)	None	63.2	1.1	0	62.3	2	0	61.4	2.9	0	–	–	–	–	–	–	–	–	–
M-S2D-NB197	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	64.6	64.6	65.1	0	0.5	B (67)	None	64.1	1.0	0	63.2	1.9	0	62.5	2.6	0	–	–	–	–	–	–	–	–	–
M-S2D-NB198	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	64.6	64.6	65.1	0	0.5	B (67)	None	64.1	1.0	0	63.2	1.9	0	62.4	2.7	0	–	–	–	–	–	–	–	–	–
M-S2D-NB199	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	64.5	64.5	65.0	0	0.5	B (67)	None	63.9	1.1	0	63	2	0	62.2	2.8	0	–	–	–	–	–	–	–	–	–
M-S2D-NB200	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	1	61.2	61.2	61.6	0	0.4	B (67)	None	62.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB201	19	Manor St	ESW-37	Seg2D-NB2	SFR	2	55.5	55.5	56.3	0	0.8	B (67)	None	56.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB202	19	Westmont Dr	ESW-37	Seg2D-NB2	SFR	3	53.7	53.7	54.6	0	0.9	B (67)	None	55.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB203	19	Manor St	ESW-37	Seg2D-NB2	SFR	3	56.2	56.2	56.6	0	0.4	B (67)	None	57.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-58. Predicted Future Noise and Barrier Analysis (NSA 19) - Seg2D-NB3 and NB4 – Alternative 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														18 feet			20 feet			22 feet			–			–			–		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2D-NB204	19	Chippewa Ave/Westmont Dr	ESW-38	Seg2D-NB3-4	Apartment/ Condo Pool	1	65.6	65.6	66.0	0	0.4	B (67)	A/E	64.7	1.3	0	64.0	2.0	0	63.5	2.5	0	–	–	–	–	–	–	–	–	–
M-S2D-NB205	19	Westmont Dr	ESW-38	Seg2D-NB3-4	SFR	1	62.9	62.9	63.3	0	0.4	B (67)	None	62.6	0.7	0	61.9	1.4	0	61.3	2.0	0	–	–	–	–	–	–	–	–	–
M-S2D-NB208	19	Chippewa Ave	ESW-38	Seg2D-NB3-4	SFR	1	59.8	59.8	60.4	0	0.6	B (67)	None	59.6	0.8	0	59.0	1.4	0	58.6	1.8	0	–	–	–	–	–	–	–	–	–
M-S2D-NB209	19	Chippewa Ave/ Glencrest Ave	ESW-38	Seg2D-NB3-4	Apartment-Outdoor Area	1	63.0	63.0	63.4	0	0.4	B (67)	None	62.6	0.8	0	61.8	1.6	0	61.1	2.3	0	–	–	–	–	–	–	–	–	–
M-S2D-NB210	19	Chippewa Ave/ Glencrest Ave	ESW-38	Seg2D-NB3-4	Apartment/ Condo	1	66.0	66.0	66.3	0	0.3	B (67)	A/E	65.4	0.9	0	64.7	1.6	0	63.8	2.5	0	–	–	–	–	–	–	–	–	–
M-S2D-NB211	19	Chippewa Ave/Glencrest Ave	ESW-38	Seg2D-NB3-4	Apartment/ Condo	4	62.4	62.4	62.8	0	0.4	B (67)	None	61.9	0.9	0	61.2	1.6	0	60.6	2.2	0	–	–	–	–	–	–	–	–	–
M-S2D-NB212	19	Chippewa Ave	ESW-38	Seg2D-NB3-4	Apartment/ Condo	4	61.4	61.4	61.9	0	0.5	B (67)	None	61.0	0.9	0	60.3	1.6	0	59.7	2.2	0	–	–	–	–	–	–	–	–	–
M-S2D-NB213	19	Chippewa Ave	ESW-38	Seg2D-NB3-4	Apartment/ Condo	4	60.0	60.0	60.5	0	0.5	B (67)	None	59.6	0.9	0	58.9	1.6	0	58.3	2.2	0	–	–	–	–	–	–	–	–	–
M-S2D-NB214	19	Greenleaf Ave/Nutwood St	ESW-39	Seg2D-NB3-4	Apartment/ Condo Pool	1	65.5	65.5	66.0	0	0.5	C (67)	A/E	64.9	1.1	0	63.9	2.1	0	63.4	2.6	0	–	–	–	–	–	–	–	–	–
M-S2D-NB215	19	Greenleaf Ave	ESW-39	Seg2D-NB3-4	Apartment-Outdoor Area	1	65.8	65.8	66.2	0	0.4	C (67)	A/E	65.2	1.0	0	64.4	1.8	0	63.8	2.4	0	–	–	–	–	–	–	–	–	–
M-S2D-NB216	19	Greenleaf Ave	ESW-39	Seg2D-NB3-4	Apartment/ Condo	2	64.8	64.8	65.3	0	0.5	B (67)	None	64.4	0.9	0	63.6	1.7	0	62.9	2.4	0	–	–	–	–	–	–	–	–	–
M-S2D-NB217	19	Greenleaf Ave	ESW-39	Seg2D-NB3-4	Apartment/ Condo	2	65.6	65.6	66.0	0	0.4	B (67)	A/E	65.1	0.9	0	64.3	1.7	0	63.6	2.4	0	–	–	–	–	–	–	–	–	–
M-S2D-NB218	19	Greenleaf Ave	ESW-39	Seg2D-NB3-4	Apartment/ Condo	2	65.8	65.8	66.6	0	0.8	B (67)	A/E	66.0	0.6	0	65.7	0.9	0	65.4	1.2	0	–	–	–	–	–	–	–	–	–
M-S2D-NB206	19	Westmont Dr	ESW-39	Seg2D-NB3-4	Apartment/ Condo	2	64.7	64.7	65.2	0	0.5	B (67)	None	64.2	1.0	0	63.3	1.9	0	62.6	2.6	0	–	–	–	–	–	–	–	–	–
M-S2D-NB207	19	Chippewa Ave	ESW-39	Seg2D-NB3-4	Apartment/ Condo	2	64.6	64.6	65.0	0	0.4	B (67)	None	64.3	0.7	0	63.6	1.4	0	63.0	2.0	0	–	–	–	–	–	–	–	–	–
M-S2D-NB219	19	Greenleaf Ave/Nutwood St	ESW-39	Seg2D-NB3-4	Apartment/ Condo	2	55.6	55.6	56.1	0	0.5	B (67)	None	55.2	0.9	0	54.4	1.7	0	53.8	2.3	0	–	–	–	–	–	–	–	–	–
M-S2D-NB220	19	Greenleaf Ave	ESW-39	Seg2D-NB3-4	Apartment/ Condo	2	61.6	61.6	62.1	0	0.5	B (67)	None	61.0	1.1	0	60.2	1.9	0	59.4	2.7	0	–	–	–	–	–	–	–	–	–
M-S2D-NB221	19	Greenleaf Ave	ESW-39	Seg2D-NB3-4	Apartment/ Condo	2	59.7	59.7	60.1	0	0.4	B (67)	None	59.4	0.7	0	58.8	1.3	0	58.3	1.8	0	–	–	–	–	–	–	–	–	–
M-S2D-NB222	19	Greenleaf Ave	ESW-39	–	Apartment-Outdoor Area	1	64.2	64.2	64.6	0	0.4	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB223	19	Glenoaks Ave/ Greenleaf Ave	ESW-39	–	SFR	1	63.6	63.6	64.1	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB224	19	Holly St/Catalpa Ave	ESW-39	–	SFR	1	60.5	60.5	60.9	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB225	19	Holly St/Catalpa Ave	ESW-40	–	SFR	1	62.6	62.6	63.0	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB226	19	Maple St	ESW-40	–	SFR	1	62.2	62.2	62.6	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																		
														18 feet			20 feet			22 feet			–			–			–		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2D-NB227	19	Glenoaks Ave/ Greenleaf Ave	ESW-39	–	SFR	1	61.0	61.0	61.5	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB228	19	Glenoaks Ave/ Greenleaf Ave	ESW-39	–	SFR	1	59.5	59.5	60.0	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB229	19	Holly St/Catalpa Ave	ESW-39	–	SFR	1	57.8	57.8	58.3	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB230	19	Maple St	ESW-40	–	SFR	1	61.2	61.2	61.6	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB231	19	Maple St	ESW-40	–	SFR	1	61.9	61.9	62.6	0	0.7	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB232	19	Ivy Ln	ESW-40	–	SFR	1	60.9	60.9	61.4	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB233	19	Ivy Ln	ESW-41	–	SFR	1	64.4	64.4	65.0	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB234	19	Fir Ave	ESW-41	–	SFR	1	63.4	63.4	64.0	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB235	19	Fir Ave	ESW-41	–	SFR	1	62.3	62.3	63.0	0	0.7	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB236	19	Dogwood Ave	ESW-41	–	SFR	1	60.8	60.8	61.3	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB237	19	Dogwood Ave	ESW-41	–	SFR	1	59.1	59.1	59.6	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB238	19	Dogwood Ave	ESW-41	–	SFR	1	58.0	58.0	58.5	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB239	19	Maple St	ESW-40	–	SFR	2	54.6	54.6	55.0	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB240	19	Maple St	ESW-40	–	SFR	2	58.2	58.2	58.8	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB241	19	Fir Ave	ESW-41	–	SFR	2	60.1	60.1	60.7	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB242	19	Dogwood Ave	ESW-41	–	SFR	2	57.9	57.9	58.4	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-NB243	19	Dogwood Ave	ESW-41	–	SFR	2	56.7	56.7	57.1	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-59. Predicted Future Noise and Barrier Analysis (NSA 20) - Seg2D-SB – Alternative 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																		
														6 feet			8 feet			10 feet			12 feet			14 feet			16 feet		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2D-SB104	20	Sequoia Ave	–	–	School	1	62.1	62.1	62.3	0	0.2	C (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB105	20	Sequoia Ave/Siesta St	–	–	SFR	1	62.3	62.3	62.7	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB106	20	Sequoia Ave/Siesta St	–	–	SFR	1	63.3	63.3	63.7	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB107	20	Sequoia Ave	–	–	SFR	1	63.9	63.9	64.2	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB108	20	Sequoia Ave/Monterey St	–	–	SFR	1	64.1	64.1	64.4	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB109	20	Sequoia Ave/Monterey St	–	–	SFR	1	63.8	63.8	64.1	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB110	20	Sequoia Ave	–	–	SFR	1	63.3	63.3	63.4	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB111	20	Siesta St	–	–	SFR	1	59.6	59.6	60.0	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB112	20	Monterey St	–	–	SFR	2	56.6	56.6	57.1	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB113	20	Ventura St	–	–	SFR	2	57.5	57.5	57.8	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB114	20	Alamo St	–	–	SFR	2	61.3	61.3	61.4	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB115	20	Siesta St	–	–	SFR	2	58.9	58.9	59.2	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB116	20	Monterey St	–	–	SFR	2	58.1	58.1	58.4	0	0.3	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2D-SB117	20	Ventura St	–	–	SFR	2	58.3	58.3	58.5	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-60. Predicted Future Noise and Barrier Analysis (NSA 21) - Seg2E-NB1 – Alternative 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																						
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)														
														18 feet			20 feet			22 feet			–			–			–		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2E-NB244	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	63.6	63.6	64.2	0	0.6	B (67)	None	63.3	0.9	0	62.6	1.6	0	61.8	2.4	0	–	–	–	–	–	–	–	–	–
M-S2E-NB245	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	64.9	64.9	65.5	0	0.6	B (67)	None	64.6	0.9	0	63.6	1.9	0	62.8	2.7	0	–	–	–	–	–	–	–	–	–
M-S2E-NB246	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	66.4	66.4	67.0	0	0.6	B (67)	A/E	66.0	1.0	0	65.1	1.9	0	64.5	2.5	0	–	–	–	–	–	–	–	–	–
M-S2E-NB247	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	67.2	67.2	67.9	0	0.7	B (67)	A/E	67.1	0.8	0	66.2	1.7	0	65.6	2.3	0	–	–	–	–	–	–	–	–	–
M-S2E-NB248	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	67.6	67.6	68.3	0	0.7	B (67)	A/E	67.5	0.8	0	66.6	1.7	0	65.9	2.4	0	–	–	–	–	–	–	–	–	–
M-S2E-NB249	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	67.6	67.6	68.2	0	0.6	B (67)	A/E	67.4	0.8	0	66.5	1.7	0	65.9	2.3	0	–	–	–	–	–	–	–	–	–
M-S2E-NB250	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	67.5	67.5	68.2	0	0.7	B (67)	A/E	67.2	1.0	0	66.5	1.7	0	65.8	2.4	0	–	–	–	–	–	–	–	–	–
M-S2E-NB251	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	67.5	67.5	68.1	0	0.6	B (67)	A/E	67.2	0.9	0	66.4	1.7	0	65.8	2.3	0	–	–	–	–	–	–	–	–	–
M-S2E-NB252	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	67.6	67.6	68.2	0	0.6	B (67)	A/E	67.3	0.9	0	66.5	1.7	0	65.8	2.4	0	–	–	–	–	–	–	–	–	–
M-S2E-NB253	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	67.3	67.3	67.9	0	0.6	B (67)	A/E	67.2	0.7	0	66.3	1.6	0	65.6	2.3	0	–	–	–	–	–	–	–	–	–
M-S2E-NB254	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	67.6	67.6	68.2	0	0.6	B (67)	A/E	67.2	1.0	0	66.5	1.7	0	65.7	2.5	0	–	–	–	–	–	–	–	–	–
M-S2E-NB255	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	1	67.6	67.6	68.2	0	0.6	B (67)	A/E	67.2	1.0	0	66.5	1.7	0	65.7	2.5	0	–	–	–	–	–	–	–	–	–
M-S2E-NB256	21	Ventura St/Minot St	ESW-43	Seg2E-NB1	SFR	1	67.2	67.2	67.7	0	0.5	B (67)	A/E	66.8	0.9	0	66.1	1.6	0	65.3	2.4	0	–	–	–	–	–	–	–	–	–
M-S2E-NB257	21	Ventura St/Minot St	ESW-43	Seg2E-NB1	SFR	1	66.3	66.3	66.7	0	0.4	B (67)	A/E	65.9	0.8	0	65.3	1.4	0	64.6	2.1	0	–	–	–	–	–	–	–	–	–
M-S2E-NB258	21	Minot St	ESW-43	Seg2E-NB1	SFR	1	65.4	65.4	65.8	0	0.4	B (67)	None	65.1	0.7	0	64.5	1.3	0	63.8	2.0	0	–	–	–	–	–	–	–	–	–
M-S2E-NB259	21	Aetna St/Rhodes Ave	ESW-43	Seg2E-NB1	SFR	1	66.6	66.6	67.0	0	0.4	B (67)	A/E	66.2	0.8	0	65.6	1.4	0	64.9	2.1	0	–	–	–	–	–	–	–	–	–
M-S2E-NB260	21	Aetna St/Rhodes Ave	ESW-43	Seg2E-NB1	SFR	1	65.8	65.8	66.2	0	0.4	B (67)	A/E	65.4	0.8	0	64.6	1.6	0	63.9	2.3	0	–	–	–	–	–	–	–	–	–
M-S2E-NB261	21	Gilbert St	ESW-43	Seg2E-NB1	SFR	1	66.5	66.5	66.9	0	0.4	B (67)	A/E	66.5	0.4	0	66.2	0.7	0	65.8	1.1	0	–	–	–	–	–	–	–	–	–
M-S2E-NB262	21	Gilbert St	ESW-43	Seg2E-NB1	SFR	1	63.9	63.9	64.3	0	0.4	B (67)	None	63.7	0.6	0	63.0	1.3	0	62.3	2.0	0	–	–	–	–	–	–	–	–	–
M-S2E-NB263	21	Ferndale St	ESW-43	Seg2E-NB1	SFR	1	65.9	65.9	66.3	0	0.4	B (67)	A/E	65.5	0.8	0	64.8	1.5	0	64.2	2.1	0	–	–	–	–	–	–	–	–	–
M-S2E-NB264	21	Ferndale St	ESW-43	Seg2E-NB1	SFR	1	64.0	64.0	64.3	0	0.3	B (67)	None	63.6	0.7	0	62.9	1.4	0	62.2	2.1	0	–	–	–	–	–	–	–	–	–
M-S2E-NB265	21	Devonshire St	ESW-43	Seg2E-NB1	SFR	1	65.3	65.3	65.6	0	0.3	B (67)	None	64.7	0.9	0	63.9	1.7	0	63.1	2.5	0	–	–	–	–	–	–	–	–	–
M-S2E-NB266	21	Devonshire St	ESW-43	Seg2E-NB1	SFR	1	65.3	65.3	65.6	0	0.3	B (67)	None	64.6	1.0	0	64.0	1.6	0	63.1	2.5	0	–	–	–	–	–	–	–	–	–
M-S2E-NB267	21	Braeburn St/Avondale Ave	ESW-43	Seg2E-NB1	SFR	1	66.5	66.5	66.8	0	0.3	B (67)	A/E	65.9	0.9	0	65.3	1.5	0	64.6	2.2	0	–	–	–	–	–	–	–	–	–
M-S2E-NB268	21	Avondale Ave	ESW-43	Seg2E-NB1	SFR	1	66.4	66.4	66.6	0	0.2	B (67)	A/E	65.8	0.8	0	65.1	1.5	0	64.5	2.1	0	–	–	–	–	–	–	–	–	–
M-S2E-NB269	21	Avondale Ave/Elmira St	ESW-43	Seg2E-NB1	SFR	1	65.4	65.4	65.5	0	0.1	B (67)	None	64.7	0.8	0	63.9	1.6	0	63.2	2.3	0	–	–	–	–	–	–	–	–	–
M-S2E-NB270	21	Avondale Ave	ESW-43	Seg2E-NB1	SFR	1	64.5	64.5	64.5	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB271	21	Avondale Ave	ESW-43	Seg2E-NB1	SFR	1	63.9	63.9	64.0	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB272	21	Avondale Ave	ESW-43	Seg2E-NB1	SFR	1	63.6	63.6	63.6	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB273	21	Houston Ave	ESW-43	Seg2E-NB1	SFR	1	64.3	64.3	64.3	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB282	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	2	62.5	62.5	63.1	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																									
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																			
														18 feet			20 feet			22 feet			–			–			–		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2E-NB283	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	2	61.9	61.9	62.6	0	0.7	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB284	21	Ventura St/Falmouth Ave	ESW-43	Seg2E-NB1	SFR	2	61.8	61.8	62.5	0	0.7	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB285	21	Ventura St	ESW-43	Seg2E-NB1	SFR	2	58.9	58.9	59.7	0	0.8	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB286	21	Ventura St	ESW-43	Seg2E-NB1	SFR	2	58.3	58.3	59.1	0	0.8	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB287	21	Ventura St	ESW-43	Seg2E-NB1	SFR	2	59.3	59.3	60.0	0	0.7	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB288	21	Ventura St	ESW-43	Seg2E-NB1	SFR	2	61.9	61.9	62.4	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB289	21	Ventura St/Minot St	ESW-43	Seg2E-NB1	SFR	2	59.2	59.2	59.7	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB290	21	Aetna St/Gilbert St	ESW-43	Seg2E-NB1	SFR	2	58.9	58.9	59.4	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB291	21	Ferndale St	ESW-43	Seg2E-NB1	SFR	2	60.4	60.4	60.8	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB292	21	Devonshire St	ESW-43	Seg2E-NB1	SFR	2	59.7	59.7	60.1	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB293	21	Braeburn St/Avondale Ave	ESW-43	Seg2E-NB1	SFR	2	61.0	61.0	61.5	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB294	21	Avondale Ave/Elmira St	ESW-43	Seg2E-NB1	SFR	2	58.6	58.6	58.8	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB295	21	Avondale Ave/Elmira St	ESW-43	Seg2E-NB1	SFR	2	60.6	60.6	60.7	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB296	21	Avondale Ave	ESW-43	Seg2E-NB1	SFR	2	62.1	62.1	62.1	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB297	21	Avondale Pl	ESW-43	Seg2E-NB1	SFR	2	62.5	62.5	62.6	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB302	21	Ventura St/Minot St	ESW-43	Seg2E-NB1	SFR	2	56.0	56.0	56.6	0	0.6	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB303	21	Aetna St/Gilbert St	ESW-43	Seg2E-NB1	SFR	2	59.7	59.7	60.5	0	0.8	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB304	21	Gilbert St/Ferndale St	ESW-43	Seg2E-NB1	SFR	2	61.6	61.6	62.1	0	0.5	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB305	21	Devonshire St/Ferndale St	ESW-43	Seg2E-NB1	SFR	2	57.7	57.7	58.1	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB306	21	Braeburn St/Avondale Ave	ESW-43	Seg2E-NB1	SFR	2	57.1	57.1	57.5	0	0.4	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB307	21	Braeburn St/Elmira St	ESW-43	Seg2E-NB1	SFR	2	58.8	58.8	59.0	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB308	21	Avondale Ave/Elmira St	ESW-43	Seg2E-NB1	SFR	2	58.4	58.4	58.5	0	0.1	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB309	21	Avondale Pl	ESW-43	Seg2E-NB1	SFR	2	61.6	61.6	61.6	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-61. Predicted Future Noise and Barrier Analysis (NSA 21) - Seg2E-NB2 – Alternative 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																								
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																		
														14 feet			16 feet			18 feet			20 feet			22 feet			–		
														$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR	$L_{eq}(h)$	I.L.	NBR
M-S2E-NB274	21	Houston Ave/ Buckingham St	ESW-44	Seg2E-NB2	SFR	1	64.4	64.4	64.4	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB275	21	Houston Ave/ Buckingham St	ESW-44	Seg2E-NB2	SFR	1	63.9	63.9	63.9	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB276	21	Houston Ave/ Buckingham St	ESW-44	Seg2E-NB2	SFR	1	64.7	64.7	64.9	0	0.2	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB277	21	Picadilly Way	ESW-44	Seg2E-NB2	SFR	1	65.4	65.4	65.4	0	0	B (67)	None	65.2	0.2	0	65.1	0.3	0	65.1	0.3	0	64.9	0.5	0	64.9	0.5	0	–	–	–
M-S2E-NB278	21	Picadilly Way	ESW-44	Seg2E-NB2	Apartment/ Condo	3	67.2	67.2	67.2	0	0	B (67)	A/E	67.1	0.1	0	67.1	0.1	0	67.0	0.2	0	67.0	0.2	0	67.0	0.2	0	–	–	–
M-S2E-NB279	21	Picadilly Way	ESW-44	Seg2E-NB2	Apartment/ Condo	3	69.4	69.4	69.4	0	0	B (67)	A/E	69.3	0.1	0	69.3	0.1	0	69.3	0.1	0	69.3	0.1	0	69.3	0.1	0	–	–	–
M-S2E-NB280	21	Picadilly Way	ESW-44	Seg2E-NB2	Apartment/ Condo	6	71.4	71.4	71.4	0	0	B (67)	A/E	71.4	0.0	0	71.4	0.0	0	71.4	0.0	0	71.4	0.0	0	71.4	0.0	0	–	–	–
M-S2E-NB281	21	Picadilly Way	ESW-44	Seg2E-NB2	Apartment/ Condo	3	65.0	65.0	65.0	0	0	B (67)	None	64.9	0.1	0	64.9	0.1	0	64.9	0.1	0	64.9	0.1	0	64.9	0.1	0	–	–	–
M-S2E-NB298	21	Houston Ave/ Buckingham St	ESW-44	Seg2E-NB2	SFR	2	61.8	61.8	61.8	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB299	21	Picadilly Way	ESW-44	Seg2E-NB2	SFR	2	64.1	64.1	64.1	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB300	21	Picadilly Way	ESW-44	Seg2E-NB2	Apartment/ Condo	3	64.5	64.5	64.5	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB301	21	Picadilly Way	ESW-44	Seg2E-NB2	Apartment/ Condo	6	61.2	61.2	61.2	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB310	21	Houston Ave/ Buckingham St	ESW-44	Seg2E-NB2	SFR	2	62.2	62.2	62.2	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-NB311	21	Picadilly Way	ESW-44	Seg2E-NB2	SFR	2	64.4	64.4	64.4	0	0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–			

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase

Table B-62. Predicted Future Noise and Barrier Analysis (NSA 22) – Alternative 4

Receptor I.D.	Area	Street Name	Existing Barrier I.D.	Evaluated Barrier I.D.	Land Use	Number of Dwelling Units	Existing (2023) Noise Level Leq(h), dBA	I-5 Managed Lanes (Alternative 4) Future Worst Hour Noise Levels - Leq(h), dBA																							
								Design Year (2055) Noise Level without Project Leq(h), dBA	Design Year (2055) Noise Level with Project Leq(h), dBA	Design Year (2055) Noise Level without Project minus Existing Conditions Leq(h), dBA	Design Year (2055) Noise Level with Project minus No Project Conditions Leq(h), dBA	Activity Category (NAC)	Impact Type	Noise Prediction with Barrier, Barrier Insertion Loss (I.L.), and Number of Benefited Receptors (NBR)																	
														–			–			–			–			–			–		
														L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR	L_{eq}(h)	I.L.	NBR
M-S2E-SB117	22	Stoneyhaven Ln	–	–	Apartment/ Condo	3	64.8	64.8	64.8	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-SB118	22	Weeping Willow Ln	–	–	Apartment/ Condo	4	64.2	64.2	64.2	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-SB119	22	Weeping Willow Ln	–	–	Apartment/ Condo	3	64.4	64.4	64.4	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-SB120	22	Stoneyhaven Ln	–	–	Apartment/ Condo	3	63.1	63.1	63.1	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-SB121	22	Weeping Willow Ln	–	–	Apartment/ Condo	3	57.2	57.2	57.2	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M-S2E-SB122	22	Weeping Willow Ln	–	–	Apartment/ Condo	3	59.7	59.7	59.7	0	0.0	B (67)	None	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Note: All NAC are exterior unless note. A/E= Future noise conditions approach or exceed the Noise Abatement Criteria; SI = Substantial Increase