Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

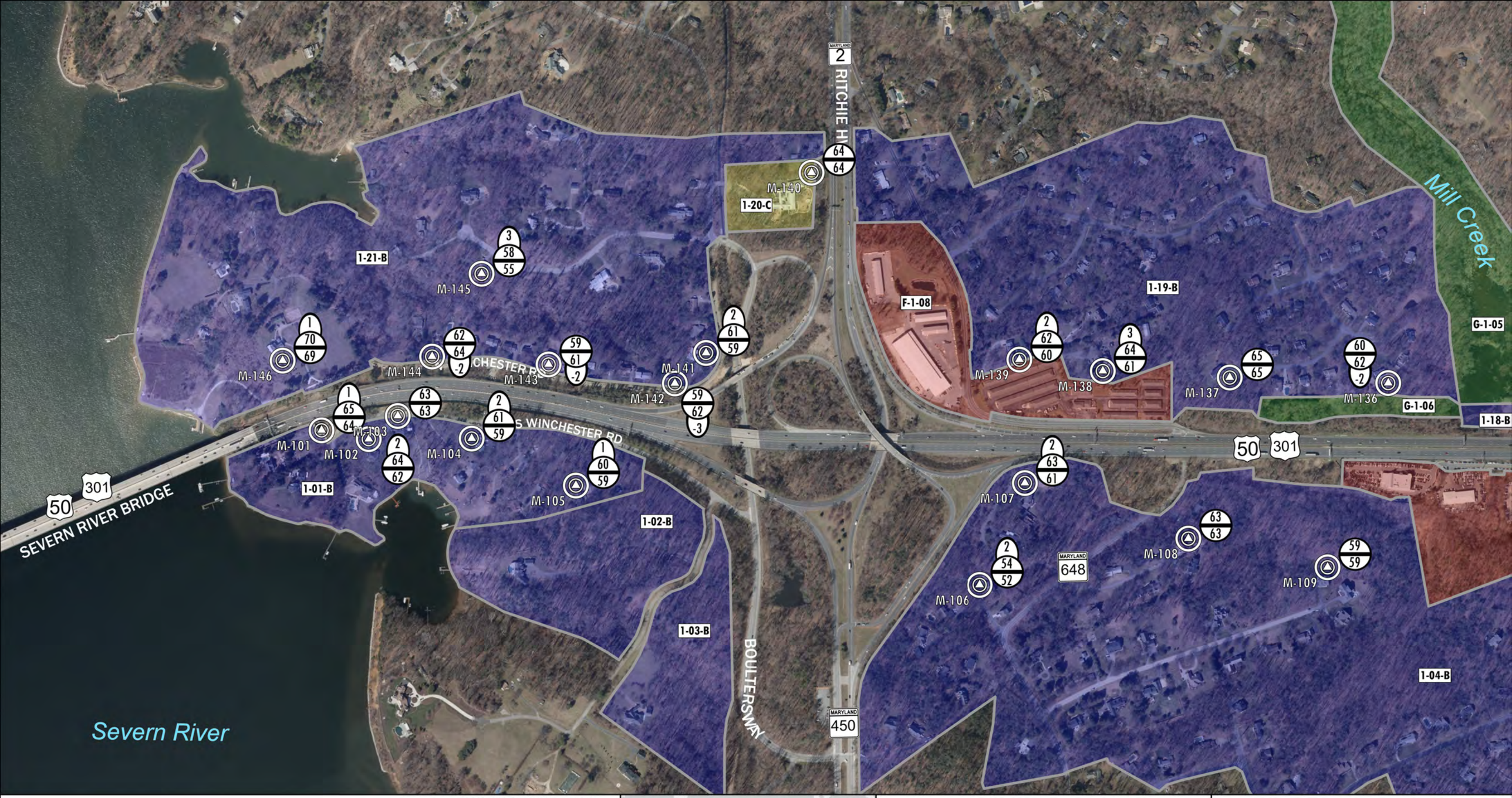
NOISE TECHNICAL REPORT

APPENDIX A

NSA MAPPING AND VALIDATION RESULTS

Maryland Transportation Authority
MDTA

JANUARY 2026



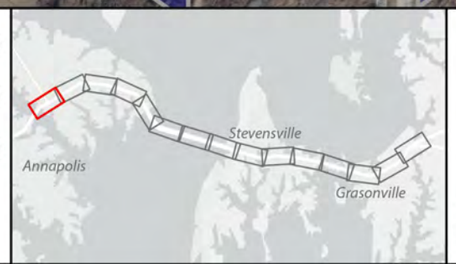
Noise Measurement Receptor Site
M-101

64 / 64 Modeled Noise Level (dB[A]) / Measured Noise Level (dB[A])

1 / 60 / 59 TNM Overpredicting Noise Level

62 / 64 / -2 TNM Underpredicting Noise Level

- Land Use Activity Category B Noise Sensitive Area (EXTERIOR)
- Land Use Activity Category C Noise Sensitive Area (EXTERIOR)
- Land Use Activity Category E Noise Sensitive Area (EXTERIOR)
- Land Use Activity Category F Non-Noise Sensitive Area
- Land Use Activity Category G Non-Noise Sensitive Area



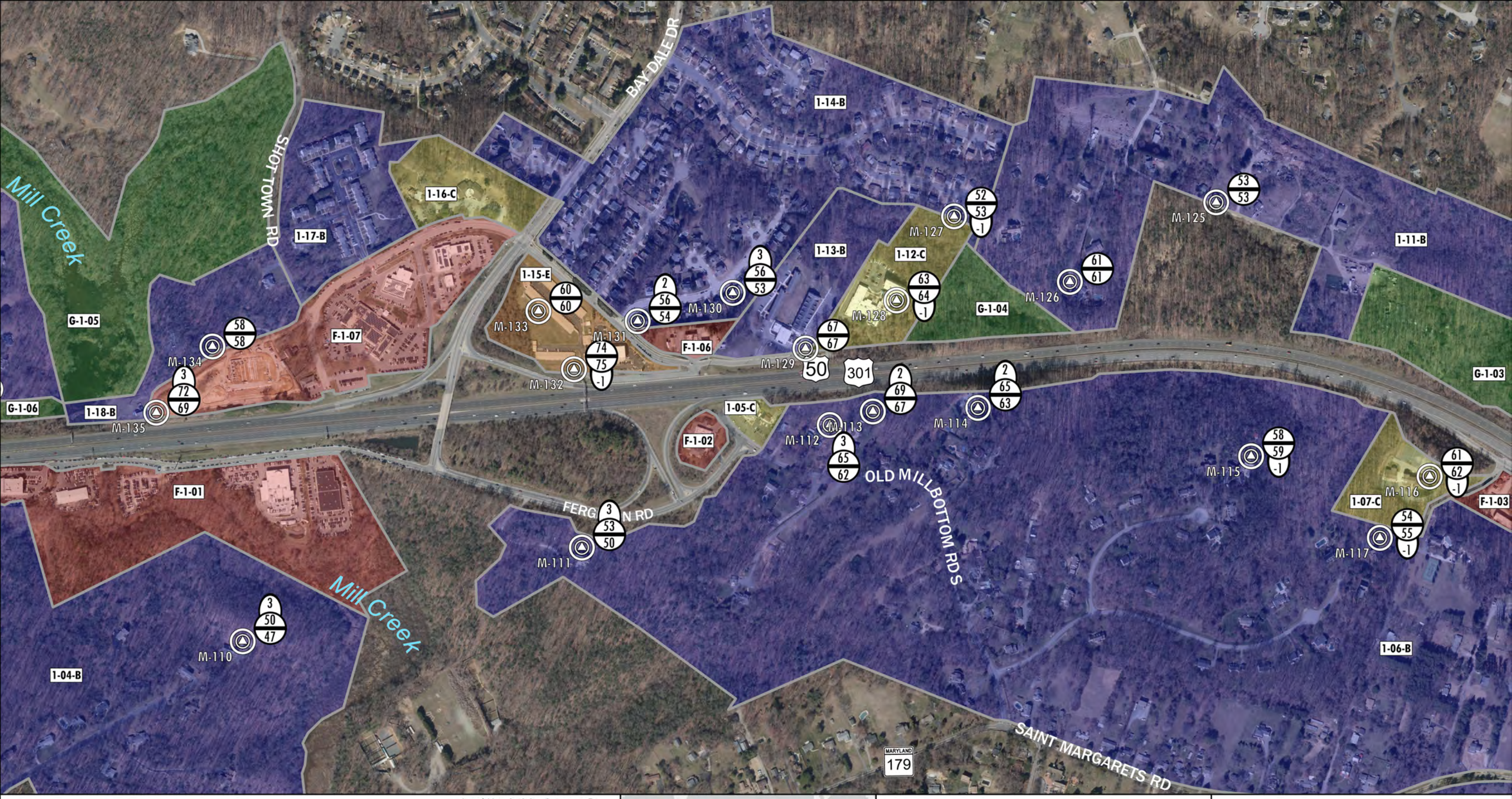
1" = 500 Feet

0 125 250 500 750 1,000 US Feet

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Noise Sensitive Areas



Noise Measurement Receptor Site

M-101

Modeled Noise Level (dB[A])
Measured Noise Level (dB[A])

TNM Overpredicting Noise Level

TNM Underpredicting Noise Level

Land Use Activity Category B
Noise Sensitive Area (EXTERIOR)

Land Use Activity Category C
Noise Sensitive Area (EXTERIOR)

Land Use Activity Category E
Noise Sensitive Area (EXTERIOR)

Land Use Activity Category F
Non-Noise Sensitive Area

Land Use Activity Category G
Non-Noise Sensitive Area



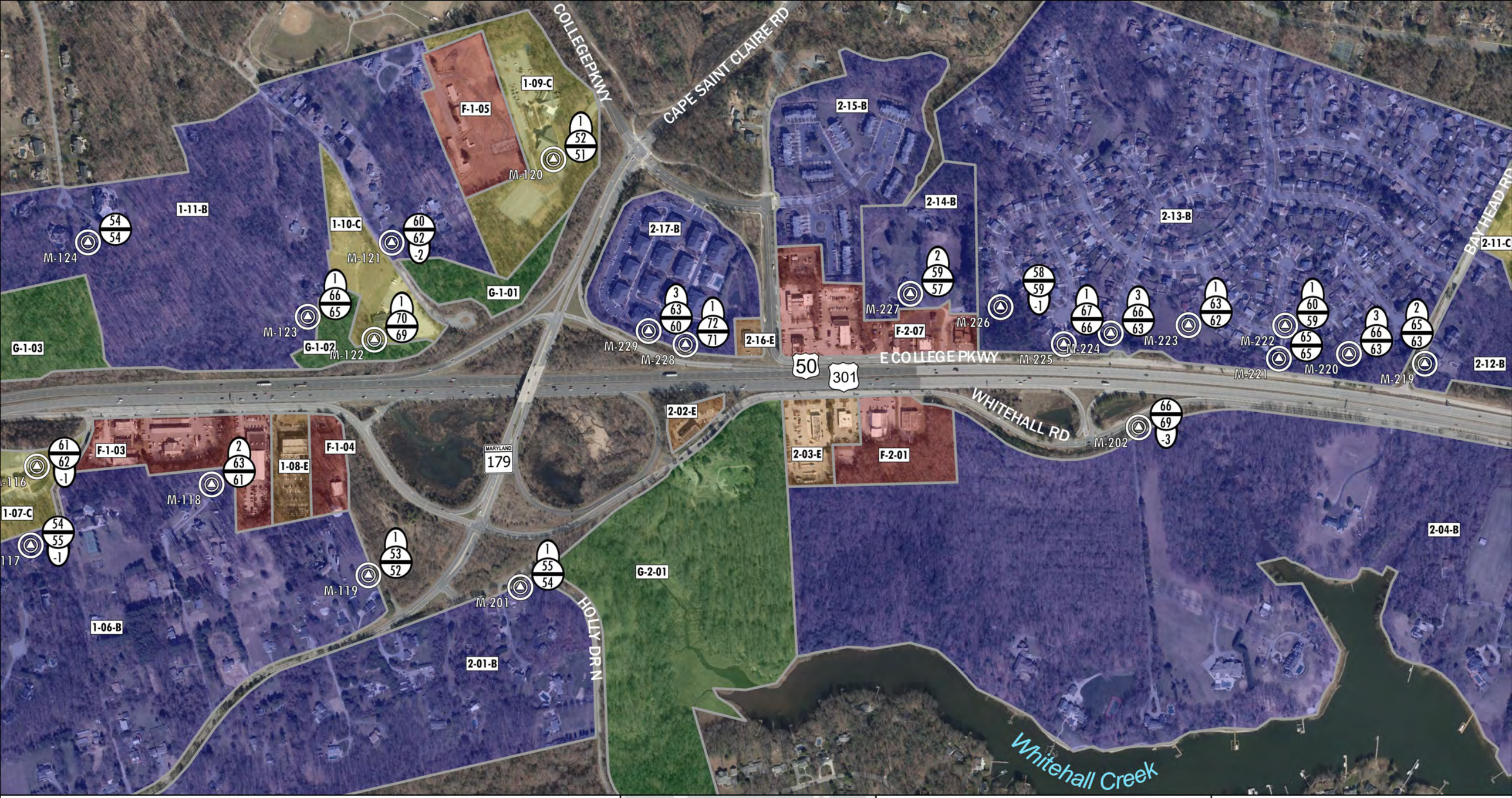
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Chesapeake BAY CROSSING STUDY
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Noise Sensitive Areas



Noise Measurement Receptor Site
M-101

Modeled Noise Level (dB[A])
Measured Noise Level (dB[A])

TNM Overpredicting Noise Level

TNM Underpredicting Noise Level

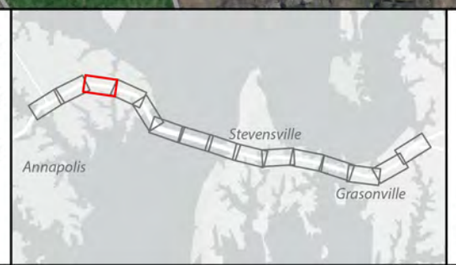
Land Use Activity Category B
Noise Sensitive Area (EXTERIOR)

Land Use Activity Category C
Noise Sensitive Area (EXTERIOR)

Land Use Activity Category E
Noise Sensitive Area (EXTERIOR)

Land Use Activity Category F
Non-Noise Sensitive Area

Land Use Activity Category G
Non-Noise Sensitive Area



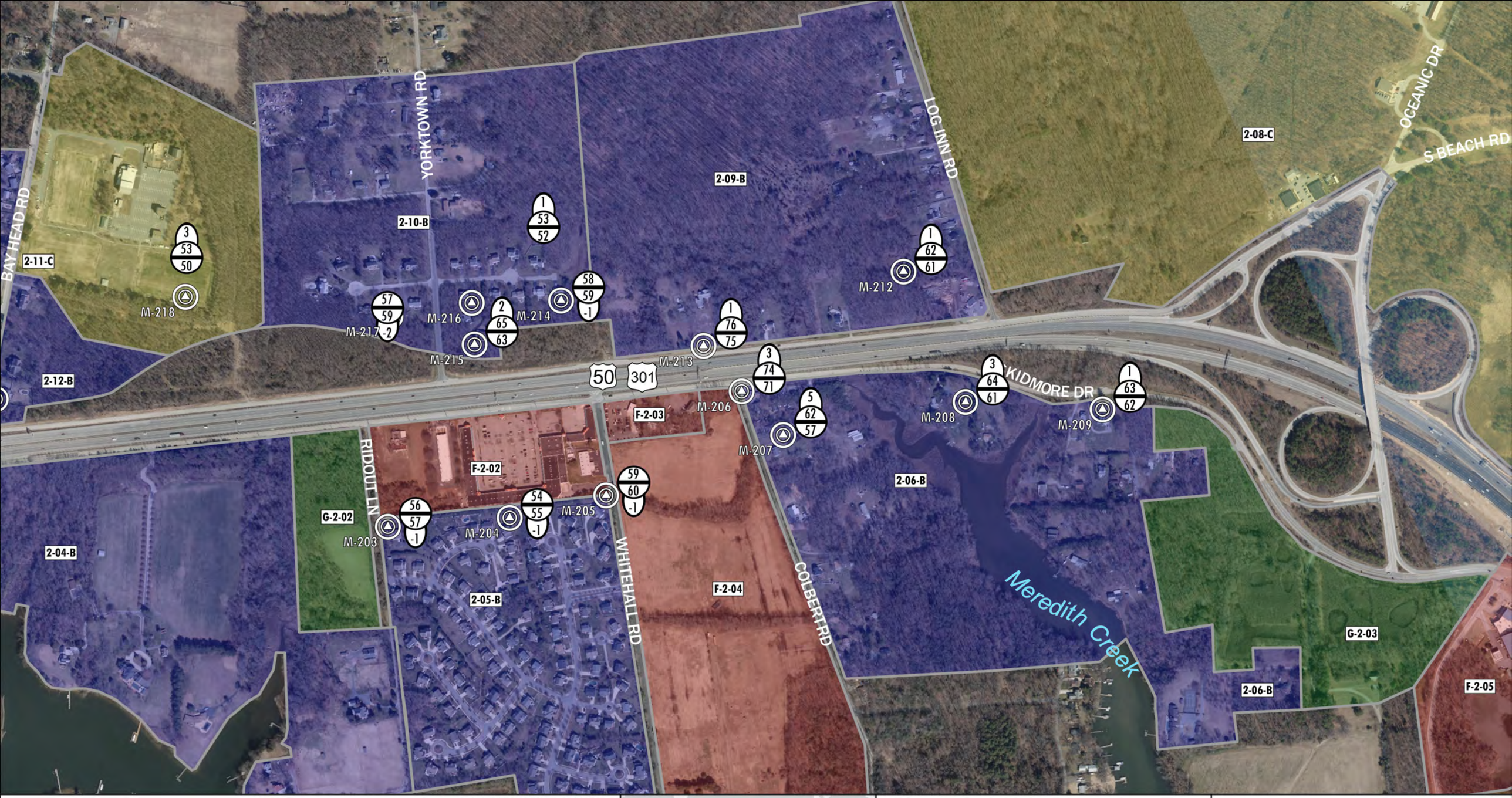
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0 125 250 500 750 1,000 US Feet

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Chesapeake BAY CROSSING STUDY
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Noise Sensitive Areas



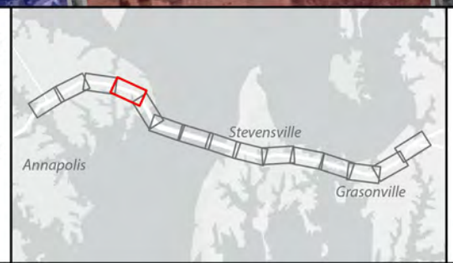
Noise Measurement Receptor Site
M-101

Modeled Noise Level (dB[A])
Measured Noise Level (dB[A])

TNM Overpredicting Noise Level

TNM Underpredicting Noise Level

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0 125 250 500 750 1,000 US Feet

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Chesapeake BAY CROSSING STUDY
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Noise Sensitive Areas



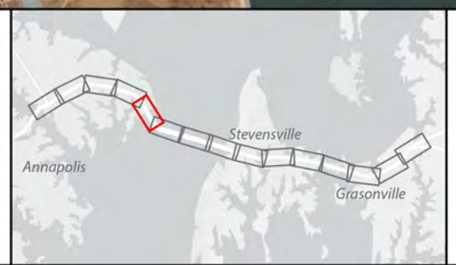
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M-101

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TNM Overpredicting Noise Level

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1" = 500 Feet

0 125 250 500 750 1,000 US Feet

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Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Sensitive Areas

BLUE STAR MEMORIAL HWY

50 301

WILLIAM PRESTON LANE JR. MEMORIAL BAY BRIDGE

Chesapeake Bay

Noise Measurement Receptor Site

M-101

Modeled Noise Level (dB[A])
Measured Noise Level (dB[A])

64
64

TNM Overpredicting Noise Level

1
60
59

TNM Underpredicting Noise Level

62
64
-2

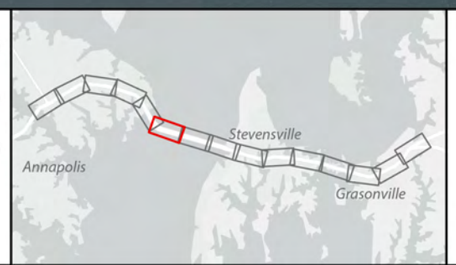
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Noise Sensitive Area (EXTERIOR)

Land Use Activity Category C
Noise Sensitive Area (EXTERIOR)

Land Use Activity Category E
Noise Sensitive Area (EXTERIOR)

Land Use Activity Category F
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Land Use Activity Category G
Non-Noise Sensitive Area



N

1" = 500 Feet

0 125 250 500 750 1,000 US Feet

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Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Sensitive Areas

BLUE STAR MEMORIAL HWY

50 301

WILLIAM PRESTON LANE JR. MEMORIAL BAY BRIDGE

Chesapeake Bay

Noise Measurement Receptor Site
M-101

Modeled Noise Level (dB[A])
Measured Noise Level (dB[A])

TNM Overpredicting Noise Level

TNM Underpredicting Noise Level

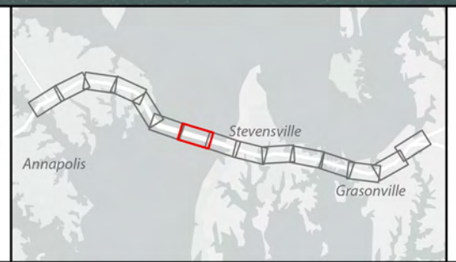
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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Sensitive Areas



Noise Measurement Receptor Site
M-101

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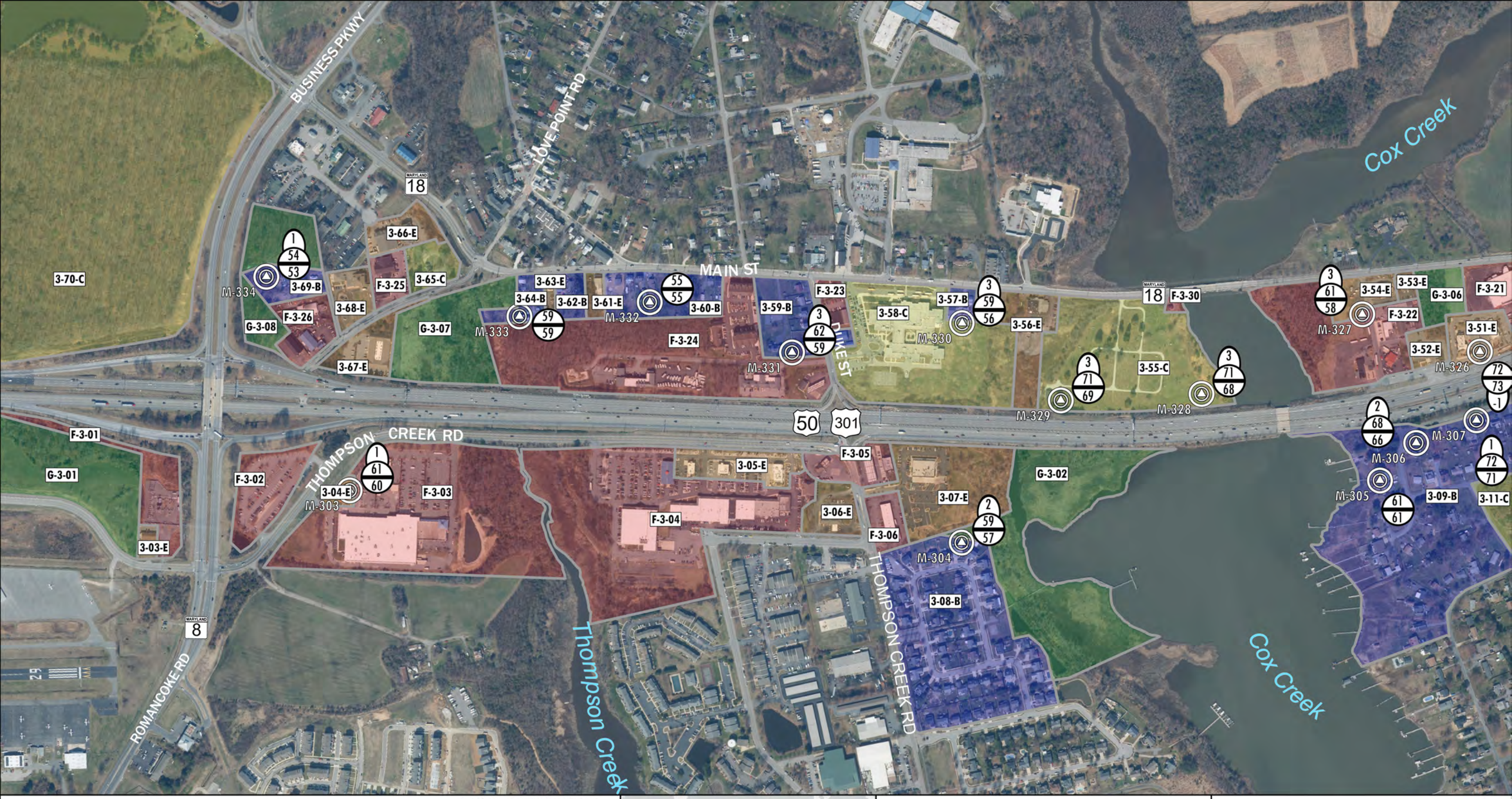
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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Sensitive Areas



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N

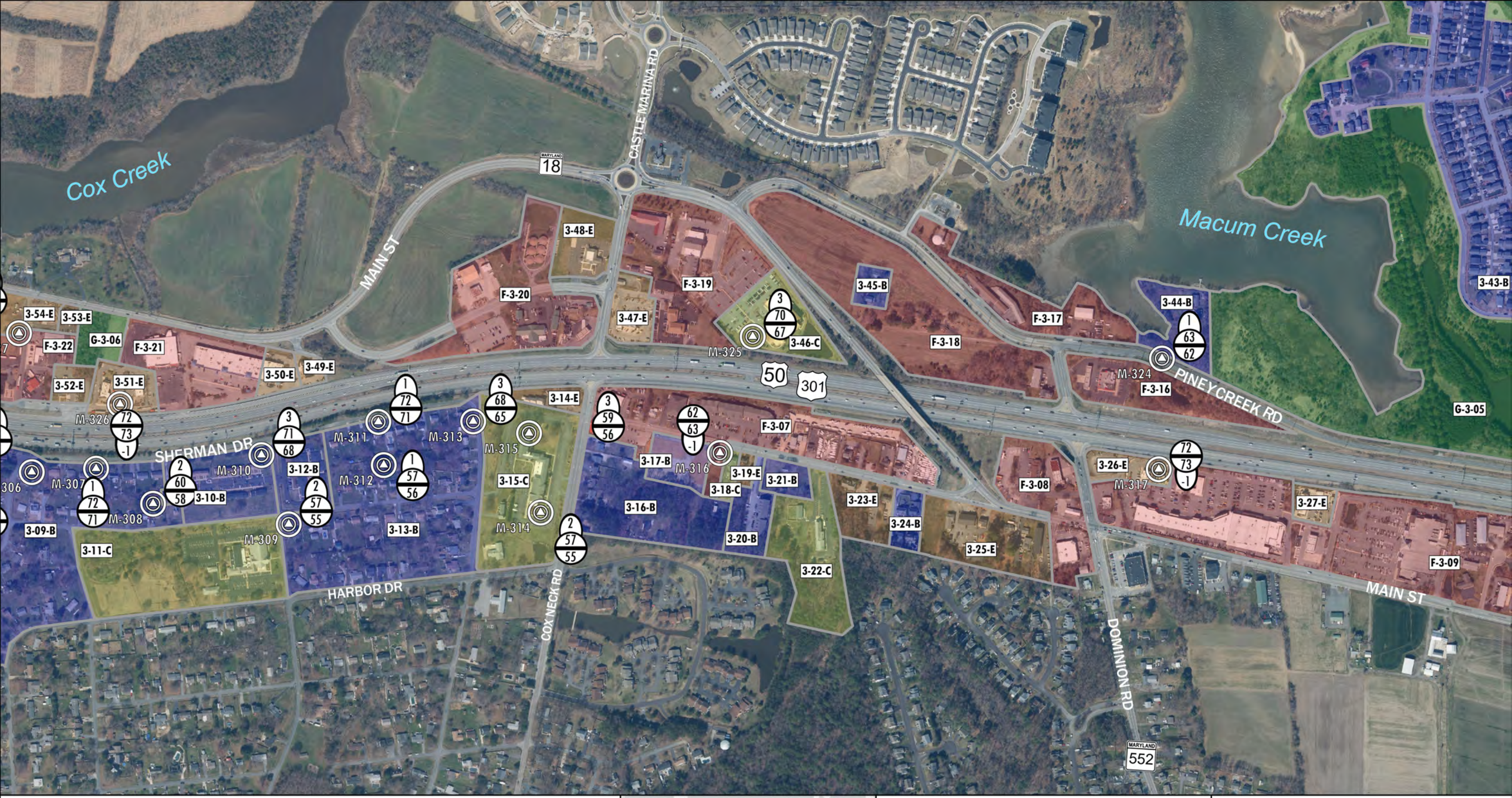
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Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Sensitive Areas



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M-101

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Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Sensitive Areas



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Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Sensitive Areas



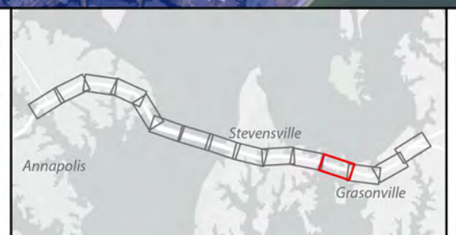
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M-101

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Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
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Noise Sensitive Areas



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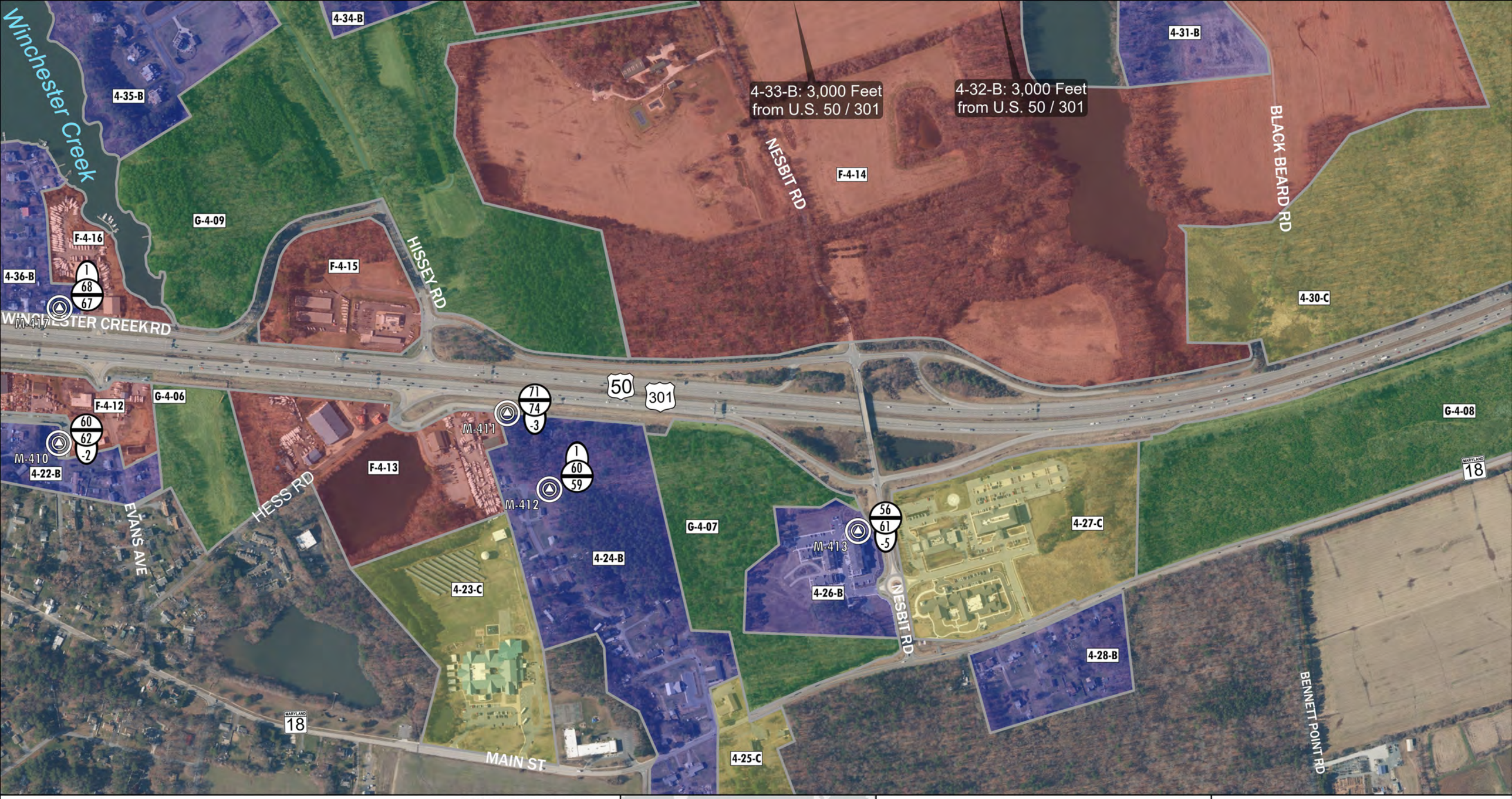
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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Sensitive Areas



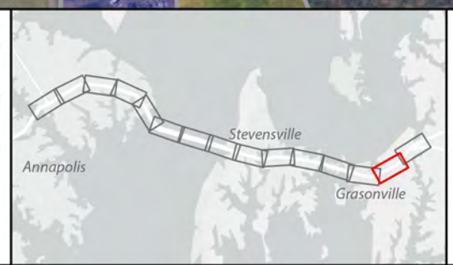
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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Sensitive Areas

Queenstown Creek

4-30-C

BLUE STAR MEMORIAL HWY

301

50

301

MARYLAND 656

M-416

1
60
59

MAIN ST

2
59
57

M-415

4-29-B

60
61
-1

M-414

50

OCEAN GTWY

G-4-08

MARYLAND 18

Wye River

Noise Measurement Receptor Site

M-101

Modeled Noise Level (dB[A])
Measured Noise Level (dB[A])

1
60
59

TNM Overpredicting Noise Level

62
64
-2

TNM Underpredicting Noise Level

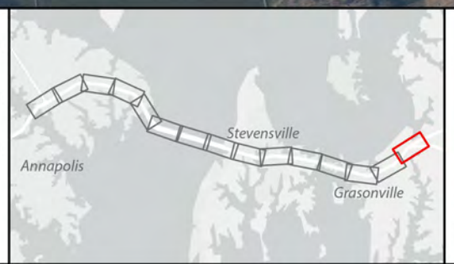
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Noise Sensitive Areas