Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

NOISE TECHNICAL REPORT

APPENDIX E

IMPACT ANALYSIS RESULTS

Maryland Transportation Authority
MDTA

JANUARY 2026

1 Impact Assessment Results

1.1 General

This appendix summarizes the most pertinent receptor data for the entire noise study area. The table lists the predicted noise levels and it also indicates in **bold red font** if the level is impacted for the particular land use and highlights that level if it equals or exceeds 75-dB(A). Additionally, the table shows when a receptor has the maximum noise level within an NSA, whether or not the receptor coincides with a noise measurement site, and if the receptor was elevated to model multi-story balconies.

2 Section 1 - Severn River to MD 179

Table E-1: Predicted Noise Levels, Section 1

NSA	Receptor Number[3] (RR)*	Alt B/C 6-8-6[1,2]	Maximum Noise Level within NSA	Alt D/E 8-8-8[1,2]	Maximum Noise Level within NSA	Alt F/G 8-10-8[1,2]	Maximum Noise Level within NSA	Ambient Measurement Receptor Site
1-01-B[4]	R-101 (2)	**70**		**70**		**69**	✓	
	M-101	64		64		63		✓
	R-102	55		56		54		
	M-102	62		63		61		✓
	M-103	62		63		62		✓
	M-104	60		60		60		✓
	R-103	58		58		58		
	M-105	59		59		58		✓
1-02-B	R-104	56	✓	56	✓	60	✓	
1-03-B	R-105	53	✓	51	✓	53	✓	
1-04-B[5]	R-106	57		58		58		
	M-106	52		52		52		✓
	R-107	60		60		60		
	M-107	**70**	✓	**70**	✓	**70**	✓	✓
	R-108	58		59		59		
	R-109	56		57		57		
	M-108	62		62		62		✓
	R-110	57		59		58		
	R-111	57		59		58		
	M-109	57		59		59		✓
	R-112	53		54		54		
	R-113	58		60		60		
	M-110	49		49		49		✓
1-05-C	R-115a	**68**	✓	**71**	✓	**71**	✓	
1-06-B	M-111	49		49		49		✓
	R-114	50		51		51		
	R-115	56		58		58		
	M-112 (2)	64		**66**		**66**		✓
	M-113	**68**	✓	**70**	✓	**70**	✓	✓
	R-116	61		63		63		
	M-114	65		**67**		**67**		✓

NSA	Receptor Number[3] (RR)*	Alt B/C 6-8-6[1,2]	Maximum Noise Level within NSA	Alt D/E 8-8-8[1,2]	Maximum Noise Level within NSA	Alt F/G 8-10-8[1,2]	Maximum Noise Level within NSA	Ambient Measurement Receptor Site
	R-117	56		58		58		
	R-118	50		53		53		
	R-119	50		52		52		
	R-120	50		52		52		
	M-115	56		59		59		✓
	R-121	49		52		52		
	M-117	51		54		54		✓
	R-122	47		49		49		
	R-123	50		52		52		
	R-124	50		52		52		
	M-118	61		64		64		✓
	R-125	56		58		58		
	R-126	50		53		53		
	M-119	49		51		51		✓
1-07-C	M-116	59	✓	62	✓	62	✓	✓
1-09-C	M-120	43		45		45		✓
	R-127	44	✓	46	✓	46	✓	
1-10-C[6]	M-122	65	✓	**69**	✓	**69**	✓	✓
1-11-B	R-128	56		59		59		
	M-121	55		57		57		✓
	M-123	59		63	✓	63	✓	✓
	R-129	53		57		57		
	M-124	51		53		53		✓
	R-130	41		42		42		
	M-125	49		51		51		✓
	R-131	50		52		52		
	R-132	57		60		60		
	R-133	51		52		52		
	M-126	60	✓	62		62		✓
1-12-C	M-128	61	✓	64	✓	64	✓	✓
1-13-B[7]	M-129	**67**	✓	**69**	✓	**69**	✓	✓
1-14-B	M-127	47		49		49		✓
	R-134	45		47		47		
	R-135	46		47		47		
	R-136	54		55		55		
	R-137	57		58		58		
	M-130	55		56		56		✓
	R-138	60	✓	62	✓	62	✓	
	M-131	55		57		57		✓
1-15-E[8]	M-132	**72**	✓	**75**	✓	**75**	✓	✓
	M-133	61		62		62		✓
1-16-C	M-139	55	✓	55	✓	55	✓	✓
1-17-B	M-140	53	✓	54	✓	54	✓	✓
1-18-B[9]	M-134	58		59		59		✓
	M-135	**71**	✓	**72**	✓	**72**	✓	✓
1-19-B	M-136	60		61		61		✓
	R-141	54		55		55		
	R-142	54		54		53		
	R-143	62		64		63		

NSA	Receptor Number[3] (RR)*	Alt B/C 6-8-6[1,2]	Maximum Noise Level within NSA	Alt D/E 8-8-8[1,2]	Maximum Noise Level within NSA	Alt F/G 8-10-8[1,2]	Maximum Noise Level within NSA	Ambient Measurement Receptor Site
	R-144	59		59		59		
	R-145	54		54		54		
	M-137	63	✓	64	✓	64	✓	✓
	M-138	62		62		62		✓
	R-146	58		58		58		
	M-139	60		61		61		✓
	R-147	57		58		58		
1-20-C	M-140	64	✓	64	✓	64	✓	✓
1-21-B[10]	M-141	60		60		60		✓
	M-142	58		58		58		✓
	R-148	58		58		58		
	R-149	55		55		54		
	M-143	58		58		57		✓
	R-150	58		58		57		
	R-144	61		61		60		
	R-145	56		56		55		
	R-146	**68**	✓	**68**	✓	**67**	✓	
	R-151	60		61		58		

1. *Build noise levels in bold and colored red are impacted for the specific land use category.*
2. *Build noise levels highlighted are greater than or equal to 75 dB(A)*
3. *A Receptor Number beginning with "M" represents a measured location and a Receptor Number beginning with "R" represents a modeled receptor only.*
4. *Western residence along Severn River is only impact behind the existing barrier, and it is not feasible to extend this barrier onto the Severn River Bridge*
5. *Only one residence is impacted, MDOT SHA criteria requires are least three benefits for a barrier to be reasonable.*
6. *Only one property is impacted at this NSA, MDSHA requires are least three benefits for a barrier to be reasonable.*
7. *This community is currently under construction with no access within the site and the residential structures are not complete. This receptor was placed in front of the property within SHA ROW and used for validation purposes only. It is not located in an area of frequent human usage.*
8. *This structure has been abandoned, and the property is being redeveloped.*
9. *Only one residence is impacted, MDOT SHA criteria requires are least three benefits for a barrier to be reasonable.*
10. *Western residence along Severn River is only impact behind the existing barrier, and it is not feasible to extend this barrier onto the Severn River Bridge*

*RR = number of residences represented by receptor if different than one.

3 Section 2 - MD 179 to the Chesapeake Bay

Table E-2: Predicted Noise Levels, Section 2

NSA	Receptor Number[3] (RR)*	Alt B/C 6-8-6[1,2,4]	Maximum Noise Level within NSA	Alt D/E 8-8-8[1,2,4]	Maximum Noise Level within NSA	Alt F/G 8-10-8[1,2,4]	Maximum Noise Level within NSA	Ambient Measurement Receptor Site
2-01-B	R-201	52		54		54		
	R-202	52		54		54		
	M-201	54		54		55		✓
	R-203	55	✓	57	✓	57	✓	
2-02-E	R-203a	65	✓	66	✓	67	✓	
2-04-B[5]	M-202 (0)	65	✓	**68**	✓	**68**	✓	✓
	R-204	52		54		54		

NSA	Receptor Number[3] (RR)*	Alt B/C 6-8-6[1,2,4]	Maximum Noise Level within NSA	Alt D/E 8-8-8[1,2,4]	Maximum Noise Level within NSA	Alt F/G 8-10-8[1,2,4]	Maximum Noise Level within NSA	Ambient Measurement Receptor Site
	R-205	50		52		52		
	R-206	50		52		52		
	R-207	51		53		53		
	R-208	53		55		55		
	R-209	59		62		62		
	R-210	58		62		62		
	R-211	55		58		57		
	R-212	52		55		54		
	R-213	53		56		56		
	R-214	50		52		52		
	R-215	50		52		52		
2-05-B	M-203	60		62	✓	62	✓	✓
	R-216	59		61		61		
	R-217	57		59		59		
	M-204	55		56		56		✓
	R-218	58		58		58		
	M-205	61	✓	61		61		✓
	R-219	56		58		58		
	R-220	54		57		56		
	R-221	56		58		58		
	R-222	52		53		53		
	R-223	58		58		59		
	R-224	52		55		55		
	R-225	50		52		52		
	R-226	51		52		52		
	R-227	55		55		55		
	R-228	56		56		56		
	R-229	51		53		53		
	R-230	50		52		52		
	R-231	48		49		49		
	R-232	51		53		53		
	R-233	49		51		51		
	R-234	49		50		50		
	R-235	50		50		50		
	R-236	50		53		52		
2-06-B	M-206	**75**	✓	**75**	✓	**76**	✓	✓
	M-207	63		63		65		✓
	R-237	59		59		60		
	M-208 (0)	**67**		**67**		**68**		✓
	R-238	62		62		63		
	M-209	64		64		66		✓
	R-239	57		57		58		
	R-240	59		59		60		
	R-241	58		59		60		
2-08-C[6]	M-210 (0)	**71/68**	✓	**71/68**	✓	**72/69**	✓	✓
	M-211 (0)	**68**/65		**68**/65		**70/67**		✓
	M-211a (0)	**66**/64		65/63		**67**/65		✓
	R-242	63/61		63/61		65/63		
	R-243	61/59		61/59		63/61		

NSA	Receptor Number[3] (RR)*	Alt B/C 6-8-6[1,2,4]	Maximum Noise Level within NSA	Alt D/E 8-8-8[1,2,4]	Maximum Noise Level within NSA	Alt F/G 8-10-8[1,2,4]	Maximum Noise Level within NSA	Ambient Measurement Receptor Site
	R-244	59/57		59/57		61/59		
	R-245	56/54		55/54		57/55		
	R-246	54/54		54/54		56/54		
	R-247	58/58		58/58		59/59		
	R-248	54/54		54/54		55/55		
	R-249	64/64		64/64		65/65		
2-09-B	R-250	61		61		61		
	M-212	64		64		65		✓
	R-251	**71**		**70**		**72**		
	R-252 (2)	**71**		**71**		**72**		
	M-213 (2)	**78**	✓	**77**	✓	**78**	✓	✓
2-10-B	M-214	60		60		61		✓
	R-253	60		60		61		
	M-215	**67**	✓	**68**	✓	**68**	✓	✓
	M-216	57		57		57		✓
	M-217	57		60		59		✓
	R-254	55		58		58		
	R-255	52		54		54		
	R-256	54		54		55		
	R-257	54		55		55		
	R-258	54		56		55		
2-11-C	M-218	51	✓	54	✓	54	✓	✓
	R-259	50		53		53		
	R-260	50		52		52		
	R-261	51		53		53		
	R-262	49		51		51		
	R-263	48		50		50		
2-12-B	M-219 (0)	65		**68**		**68**		✓
	R-264	65	✓	**70**	✓	**70**	✓	
	R-265	60		65		64		
	M-266	54		56		56		
2-13-B	R-267 (3)	62		**66**		**66**		
	M-220 (2)	64		**69**		**69**		✓
	R-268 (3)	63		**66**		**66**		
	M-221 (3)	64		**67**		**67**		✓
	R-269 (3)	65		**69**		**69**		
	R-223 (3)	63		**66**		**66**		✓
	R-270	58		59		59		
	R-271 (2)	64		**67**		**67**		
	M-224 (0)	**66**	✓	**70**	✓	**69**	✓	✓
	R-272 (3)	64		**67**		**67**		
	M-225 (2)	**66**		**69**		**69**		✓
	R-273	62		64		64		
	M-226	58		61		61		✓
	R-274	60		63		63		
	R-275	58		61		61		
	R-276	58		60		60		
	M-222	59		62		62		✓
	R-277	59		61		61		

NSA	Receptor Number[3] (RR)*	Alt B/C 6-8-6[1,2,4]	Maximum Noise Level within NSA	Alt D/E 8-8-8[1,2,4]	Maximum Noise Level within NSA	Alt F/G 8-10-8[1,2,4]	Maximum Noise Level within NSA	Ambient Measurement Receptor Site
	R-278	56		58		58		
	R-279	57		59		59		
	R-280	61		63		63		
	R-281	58		60		60		
2-14-B	M-227	57	✓	60	✓	60	✓	✓
	R-282	56		58		58		
	R-283	54		56		56		
2-15-B	R-284	57	✓	59	✓	59	✓	
	R-285	55		57		57		
	R-286	55		57		57		
2-17-B	M-228 (10)	**70**	✓	**73**	✓	**73**	✓	✓
	R-287 (10)	**69**		**72**		**72**		
	M-229	61		65		65		✓
	R-288	52		55		55		
	R-289	60		63		63		
	R-290	48		50		50		
	R-291	59		63		63		
	R-292	41		43		43		
	R-293	43		45		46		

1. *Build noise levels in bold and colored red are impacted for the specific land use category.*
2. *Build noise levels highlighted are greater than or equal to 75 dB(A)*
3. *A Receptor Number beginning with "M" represents a measured location and a Receptor Number beginning with "R" represents a modeled receptor only.*
4. *NSAs near the bridge were analyzed for both the north and south alternative, the first number shown is the north alternative result, the second number is the south alternative result.*
5. *Access was denied to the residential properties within this NSA during the field monitoring sessions. This receptor was placed within SHA ROW in front of these residences for model validation purposes. The modeled receptors located at the residences do not show any impacts*
6. *Only small portion of the beach adjacent to the bridge is impacted, and usage is transient in nature. It is also not feasible to place a barrier on the bridge.*

*RR = number of residences represented by receptor if different than one.

4 Section 3 – Chesapeake Bay to Kent Narrows

Table E-3: Predicted Noise Levels, Section 3

NSA	Receptor Number[3] (RR)*	Alt B/C 6-8-6[1,2,4]	Maximum Noise Level within NSA	Alt D/E 8-8-8[1,2,4]	Maximum Noise Level within NSA	Alt F/G 8-10-8[1,2,4]	Maximum Noise Level within NSA	Ambient Measurement Receptor Site
3-01-E	M-301	63/65		62/65		63/66		✓
	M-302	69/69	✓	69/69	✓	70/70		✓
3-02-E[5]	R-301	66/66		66/66		67/68		
	R-302	69/69	✓	69/69	✓	70/**71**	✓	
	R-303	64/64		64/64		65/65		
	R-304	62/62		62/63		63/64		
	R-305	59/59		59/59		60/60		
	R-306	58/58		58/58		59/59		
	R-306a	60/60		60/60		60/60		

NSA	Receptor Number[3] (RR)*	Alt B/C 6-8-6[1,2,4]	Maximum Noise Level within NSA	Alt D/E 8-8-8[1,2,4]	Maximum Noise Level within NSA	Alt F/G 8-10-8[1,2,4]	Maximum Noise Level within NSA	Ambient Measurement Receptor Site
	R-306b	55/55		55/55		55/55		
3-03-E	R-306c	56	✓	56	✓	57	✓	
3-04-E	M-303	63	✓	63	✓	64	✓	✓
3-05-E	R-306d	62	✓	62	✓	64	✓	
3-08-B	M-304	61	✓	61	✓	62	✓	✓
3-09-B	M-305	64		64		66		✓
	M-306	**68**		**70**		**71**		✓
	M-307	**70**		**72**		**72**		✓
	M-308	61		62		63		✓
	R-307	61		62		63		
	R-308	62		64		65		
	R-309	64		65		**66**		
	R-310	**68**		**69**		**71**		
	R-311	**71**	✓	**73**	✓	**74**	✓	
	R-312	**66**		**68**		**69**		
	R-313	**70**		**72**		**72**		
	R-314	**70**		**72**		**72**		
	R-315	**70**		**72**		**72**		
	R-316	**69**		**71**		**71**		
	R-317	**69**		**71**		**72**		
	R-318	**69**		**71**		**71**		
	R-319	**70**		**71**		**72**		
	R-320	**70**		**71**		**71**		
	R-321	61		61		62		
	R-322	62		63		64		
	R-323	62		63		64		
	R-324	62		63		64		
	R-325	62		63		64		
	R-326	61		62		63		
	R-327	61		62		63		
	R-328	61		62		62		
	R-329	61		62		62		
	R-330	61		61		62		
	R-331	61		61		62		
3-10-B	M-310	**69**	✓	**71**	✓	**71**	✓	✓
	R-332	**69**	✓	**71**	✓	**71**	✓	
	R-333	**69**	✓	**71**	✓	**70**		
	R-334	**68**		**70**		**70**		
	R-335	59		60		61		
	R-336	57		58		59		
	R-337	58		61		61		
3-11-C	R-337a	54	✓	54	✓	55	✓	
3-12-B	R-338	**67**	✓	**70**	✓	**70**	✓	
	R-339	**66**		**70**	✓	**69**	✓	
	R-340	52		53		53		
	R-341	53		54		54		
3-13-B	M-309	56		58		58		✓
	M-311	**69**	✓	**73**	✓	**72**	✓	✓
	M-312	56		59		59		✓

NSA	Receptor Number[3] (RR)*	Alt B/C 6-8-6[1,2,4]	Maximum Noise Level within NSA	Alt D/E 8-8-8[1,2,4]	Maximum Noise Level within NSA	Alt F/G 8-10-8[1,2,4]	Maximum Noise Level within NSA	Ambient Measurement Receptor Site
	M-313	65		**69**		**69**		✓
	R-342	**67**		**71**		**71**		
	R-343	**67**		**71**		**71**		
	R-344	**67**		**71**		**71**		
	R-345	**67**		**71**		**71**		
	R-346	**67**		**71**		**71**		
	R-347	**67**		**71**		**71**		
	R-348	**67**		**71**		**71**		
	R-349	**67**		**71**		**71**		
	R-350	**67**		**71**		**72**	✓	
	R-351	**68**		**72**		**71**		
	R-352	**68**		**72**		**67**		
	R-353	63		**67**		65		
	R-354	60		64		62		
	R-355	58		63		60		
	R-356	57		61		58		
	R-357	55		58		58		
	R-358	55		59		59		
	R-359	56		59		58		
	R-360	55		58		58		
	R-361	55		58		59		
	R-362	55		59		59		
	R-363	56		59		60		
	R-364	56		60		60		
	R-365	56		60		60		
3-15-C	M-314	56	✓	60		60		✓
	R-366	52		55		55		
3-16-B[6]	M-315	62	✓	**67**	✓	**67**	✓	✓
	R-367	56		59		59		
	R-368	56		61		60		
	R-369	57		62		61		
	R-370	53		56		56		
3-17-B	R-371	56		60		60		
	R-372	59		62		62		
	R-373	62	✓	65	✓	65	✓	
	R-374	55		59		59		
	R-375	59		62		62		
	R-375a	60		63		63		
3-20-B	R-375b	55	✓	59	✓	59	✓	
3-21-B	R-375c	53	✓	60	✓	60	✓	
3-22-C	R-375d	56	✓	59	✓	59	✓	
3-24-B	R-377	52		56		56		
	R-378	58	✓	61	✓	61	✓	
3-26-E[7]	M-317	70	✓	**72**	✓	**72**	✓	✓
3-27-E	R-380a	69	✓	70	✓	70	✓	
3-28-B	M-318	56		59		60		✓
	R-381	55		59		59		
3-29-B	R-382	56		60		60		
	R-383	56		60		60		

NSA	Receptor Number[3] (RR)*	Alt B/C 6-8-6[1,2,4]	Maximum Noise Level within NSA	Alt D/E 8-8-8[1,2,4]	Maximum Noise Level within NSA	Alt F/G 8-10-8[1,2,4]	Maximum Noise Level within NSA	Ambient Measurement Receptor Site
	R-384	56		59		59		
	R-385	58	✓	61	✓	61	✓	
3-31-B	R-385a	56	✓	59	✓	59	✓	
3-34-B	M-319	59	✓	61	✓	61	✓	✓
	R-386	57		59		59		
	R-387	58		61	✓	61	✓	
	R-388	59	✓	61	✓	61	✓	
3-35-E	R-386a	62	✓	64	✓	64	✓	
3-36-B	M-320	60	✓	62	✓	62	✓	✓
	M-321	58		59		59		✓
3-37-C	R-388a	52	✓	53	✓	53	✓	
3-38-C	R-388b	62	✓	64	✓	64	✓	
3-39-E	M-322	56	✓	57	✓	57	✓	✓
3-40-B	R-388c	52	✓	55	✓	55	✓	
3-42-B	M-323	61	✓	65	✓	65	✓	✓
3-43-B	R-388d	54	✓	57	✓	57	✓	
3-44-B	M-324	62	✓	65	✓	65	✓	✓
3-45-B	R-388e	57	✓	61	✓	61	✓	
3-46-C[8]	M-325	**66**	✓	**71**	✓	**69**	✓	✓
3-50-E	R-388f	69	✓	70	✓	70	✓	
3-51-E[9]	M-326 (2)	**71**	✓	**71**	✓	**73**	✓	✓
3-54-E	M-327	61	✓	62	✓	63	✓	✓
3-55-C[10]	M-328 (0)	**71**	✓	**71**	✓	**73**	✓	✓
	M-330	61		61		63		✓
	R-389 (0)	**71**	✓	**71**	✓	**73**	✓	
	R-390 (0)	**71**	✓	**71**	✓	**73**	✓	
	R-391 (0)	**71**	✓	**71**	✓	**73**	✓	
	R-392 (0)	**71**	✓	**71**	✓	**73**	✓	
	R-393 (0)	**71**	✓	**71**	✓	**73**	✓	
	R-394 (0)	**71**	✓	**71**	✓	**73**	✓	
	R-395 (0)	**71**	✓	**71**	✓	**73**	✓	
	R-396 (0)	**71**	✓	**71**	✓	**73**	✓	
	R-397 (0)	**71**	✓	**71**	✓	**73**	✓	
	R-398 (0)	**66**		**66**		**68**		
	R-399 (0)	**66**		**66**		**68**		
	R-3100 (0)	**66**		**66**		**68**		
	R-3101 (0)	**66**		**66**		**68**		
	R-3102 (0)	**66**		**66**		**68**		
	R-3103 (0)	**66**		**66**		**67**		
	R-3104 (0)	65		65		**68**		
3-57-B[11]	M-329	**72**	✓	**72**	✓	**74**	✓	✓
3-58-C[12]	R-3105 (0)	**66**	✓	**66**	✓	**68**	✓	
3-59-B[13]	M-331	64	✓	64	✓	**66**	✓	✓
	R-3106	57		57		58		
	R-3107	64	✓	64	✓	**66**	✓	
	R-3108	62		61		63		
	R-3109	64	✓	64	✓	65		
3-60-B	M-332	56	✓	56	✓	58	✓	✓

NSA	Receptor Number[3] (RR)*	Alt B/C 6-8-6[1,2,4]	Maximum Noise Level within NSA	Alt D/E 8-8-8[1,2,4]	Maximum Noise Level within NSA	Alt F/G 8-10-8[1,2,4]	Maximum Noise Level within NSA	Ambient Measurement Receptor Site
3-62-B	R-3109a	57	✓	57	✓	57	✓	
3-64-B	M-333	60	✓	59	✓	61	✓	✓
3-69-B	M-334	54	✓	54	✓	55	✓	✓
3-70-C[14]	M-335 (0)	**70/70**		**70/70**		**73/72**		✓
	R-3110 (0)	**74/74**	✓	**74/74**	✓	**77/77**	✓	
	R-3111 (0)	**74/74**	✓	**74/74**	✓	**77/77**	✓	
	R-3112 (0)	**74/74**	✓	**74/74**	✓	**76/76**		
	R-3113 (0)	**74/74**	✓	**74/74**	✓	**76/76**		
	R-3114 (0)	**73/74**	✓	**73/73**	✓	**75/76**		
	R-3115 (0)	**74/74**	✓	**74/73**	✓	**76/74**		
	R-3116 (0)	**74/72**	✓	**74/72**	✓	**76/73**		
	R-3117 (0)	**73/72**		**73/72**		**75/73**		
	R-3118 (0)	**71/71**		**71/71**		**74/72**		
	R-3119 (0)	**71/71**		**71/71**		**73/72**		
	R-3120 (0)	**71/71**		**71/71**		**73/73**		
	R-3121 (0)	**72/72**		**71/72**		**72/74**		
	R-3122 (0)	**73/73**		**71/73**		**72/75**		
	R-3123 (0)	**67/67**		**67/66**		**68/68**		
	R-3124 (0)	**67/67**		**67/66**		**68/68**		
	R-3125 (0)	**67/67**		**67/67**		**68/68**		
	R-3126 (0)	**67/67**		**67/67**		**68/68**		
	R-3127 (0)	**67/67**		**67/67**		**68/68**		
	R-3128 (0)	**66/66**		**66/66**		**68/68**		
	R-3129 (0)	**67/67**		**66/67**		**68/68**		
	R-3130 (0)	**66/67**		**66/67**		**67/68**		
	R-3131 (0)	**66/67**		**66/67**		**67/68**		
	R-3132 (0)	**66/66**		**66/66**		**67/68**		
	R-3133 (0)	**66/66**		**66/66**		**67/68**		
	R-3134 (0)	**66/66**		**66/66**		**67/67**		
	R-3135 (0)	**66/66**		**66/66**		**67/67**		

1. *Build noise levels in bold and colored red are impacted for the specific land use category.*
2. *Build noise levels highlighted are greater than or equal to 75 dB(A)*
3. *A Receptor Number beginning with "M" represents a measured location and a Receptor Number beginning with "R" represents a modeled receptor only.*
4. *NSAs near the bridge were analyzed for both the north and south alternative, the first number shown is the north alternative result, the second number is the south alternative result.*
5. *An impact was identified along the side of the building that faces US 50 / US 301. The only usage at this location is the parking lot for the facility. Within the courtyard and pool areas where outdoor activity would occur there were no impacts.*
6. *Only one residence is impacted at this NSA, MDSHA requires are least three benefits for a barrier to be reasonable.*
7. *Only one property is impacted at this NSA, MDSHA requires are least three benefits for a barrier to be reasonable.*
8. *Only one property is impacted at this NSA, MDSHA requires are least three benefits for a barrier to be reasonable.*
9. *Only one property is impacted at this NSA, MDSHA requires are least three benefits for a barrier to be reasonable.*
10. *This NSA represents a cemetery, which has a low frequency of usage.*
11. *Only one residence is impacted at this NSA, MDSHA requires are least three benefits for a barrier to be reasonable.*
12. *This NSA represents Stevensville Middle School, outdoor usage is not during peak noise hours.*
13. *Only one residence is impacted at this NSA, MDSHA requires are least three benefits for a barrier to be reasonable.*
14. *This NSA represents the Terrapin Nature Park, area that is impacted is a trail and usage is transient in nature.*

*RR = number of residences represented by receptor if different than one.

5 Section 4 – Kent Narrows to the U.S. 50/301 Split

Table E-4: Predicted Noise Levels, Section 4

NSA	Receptor Number[3] (RR)*	Alt B/C 6-8-6[1,2]	Maximum Noise Level within NSA	Alt D/E 8-8-8[1,2]	Maximum Noise Level within NSA	Alt F/G 8-10-8[1,2]	Maximum Noise Level within NSA	Ambient Measurement Receptor Site
4-01-E[4]	M-401	63	✓	66	✓	67	✓	✓
4-02-E	R-401	61		63		64		
	R-402	62		63		64		
	R-403	63	✓	65	✓	66	✓	
4-03-E	R-403a	57	✓	59	✓	59	✓	
	R-403b	54		56		56		
	R-403c	55		57		57		
4-05-E	R-406a	56	✓	58	✓	58	✓	
4-06-B	M-402	57		59		60		✓
	R-407	58	✓	60	✓	61	✓	
4-07-B	M-403	56		58		59		✓
4-08-B[5]	M-404 (0)	65	✓	**68**	✓	**69**	✓	✓
	R-408	64		**67**		**68**		
	R-409	62		65		**66**		
	R-410	57		59		60		
	R-411	57		59		60		
	R-412	56		59		60		
	R-413	55		58		59		
4-09-B	R-413a	60	✓	63	✓	63	✓	
4-11-B	M-406	65	✓	64	✓	65	✓	✓
	R-414	59		61		62		
	R-415	60		62		62		
	R-416	62		61		62		
4-12-B	M-405	61	✓	62		63		✓
	R-417	61	✓	63	✓	64	✓	
	R-418	59		61		62		
	R-419	58		59		60		
	R-420	54		55		56		
	R-423	57		59		60		
	R-424	58		60		61		
	R-425	56		58		58		
	R-426	56		57		58		
	R-427	59		60		61		
	R-428	58		60		61		
4-13-C	R-431	61	✓	61	✓	62	✓	
	R-432	57		59		59		
4-14-C[6]	M-407	62		64		65		✓
	R-433	**67**	✓	**67**	✓	**68**	✓	
4-15-B	R-421	59		61		63		
	R-422	60	✓	62	✓	63	✓	
	R-429	54		57		58		
	R-430	54		56		57		
4-18-B	R-435	60	✓	61		62		
	R-436	60	✓	63	✓	63	✓	
	R-437	58		59		60		

NSA	Receptor Number[3] (RR)*	Alt B/C 6-8-6[1,2]	Maximum Noise Level within NSA	Alt D/E 8-8-8[1,2]	Maximum Noise Level within NSA	Alt F/G 8-10-8[1,2]	Maximum Noise Level within NSA	Ambient Measurement Receptor Site
	R-438	60	✓	61		62		
	R-439	59		61		61		
	R-440	57		59		60		
	R-441	57		59		60		
4-20-B	M-408	61	✓	62	✓	63	✓	✓
4-22-B	M-410	58		61		62		✓
	R-443	59		61		62		
	R-444	58		61		62		
	R-445	59		62		63		
	R-446	59		62		63		
	R-447	59		62		63		
	R-448	58		61		62		
	R-449	57		61		62		
4-23-C	R-449a	52	✓	55	✓	54		
4-24-B[7]	M-411 (0)	**70**	✓	**71**	✓	**71**	✓	✓
	R-453	69		**71**		**72**		
	R-450	**69**	✓	**70**	✓	**71**	✓	
	M-412	59		62		62		✓
	R-452	60		64		64		
4-26-B	M-413	57		59		61		✓
	R-451	57		59		59		
4-28-B	R-451a	55	✓	57	✓	57	✓	
4-29-B[8]	M-414	58		61		62		✓
	M-415	58		59		59		✓
	M-416	59		61		61		✓
	R-454	58		61		62		
	R-455	59		61		62		
	R-456	58		60		61		
	R-457	59		61		62		
	R-458	59		60		60		
	R-459	59		61		61		
	R-460	62		65		65		
	R-461	**66**	✓	**69**	✓	**69**	✓	
	R-462	60		62		62		
4-30-C	R-462a	51	✓	52	✓	52	✓	
4-31-B	R-462b	49	✓	50	✓	50	✓	
4-32-B	R-462c	48	✓	48	✓	48	✓	
4-33-B	R-462d	46	✓	47	✓	47	✓	
4-34-B	R-462e	49	✓	52	✓	52	✓	
4-35-B	R-462f	52	✓	56	✓	56	✓	
4-36-B	M-417	62		**71**		**72**		✓
	R-463	63		**70**		**72**		
	R-464	63		**70**		**72**		
	R-465	63		**72**		**73**		
	R-466	64	✓	**73**	✓	**74**	✓	
	R-467	63		**72**		**73**		
	R-468	63		**71**		**73**		
	R-469	57		65		65		

NSA	Receptor Number[3] (RR)*	Alt B/C 6-8-6[1,2]	Maximum Noise Level within NSA	Alt D/E 8-8-8[1,2]	Maximum Noise Level within NSA	Alt F/G 8-10-8[1,2]	Maximum Noise Level within NSA	Ambient Measurement Receptor Site
4-37-B	M-418 (0)	61	✓	65	✓	**66**	✓	✓
	R-470	57		62		63		
	R-471	59		63		64		
	R-472	61	✓	65	✓	**66**	✓	
	R-473	56		61		62		
	R-474	57		61		62		
4-38-C	M-420	57	✓	62	✓	61	✓	✓
4-39-E	M-419	60		65		65		✓
	R-475	65	✓	69	✓	69	✓	
4-41-B	R-475a	52	✓	54	✓	54	✓	
4-42-B	M-421	63		65		66		✓
	M-422	57		60		61		✓
	R-476	57		58		59		
	R-477	57		59		59		
	R-478	57		59		60		
	R-479	62		64		65		
	R-480	63		65		**66**		
	R-481	64	✓	65		**67**	✓	
	R-482	64	✓	**66**	✓	**67**	✓	
	R-483	63		65		**66**		
	R-484	63		65		**66**		
	R-485	62		64		**66**		
	R-486	61		64		65		
	R-487	63		65		**66**		
	R-488	64	✓	65		**66**		
	R-489	61		64		65		
	R-490	61		63		64		
	R-491	57		59		60		
	R-492	58		60		61		
	R-493	58		60		61		
	R-494	57		59		60		
	R-495	57		59		60		
4-43-C[9]	M-423 (0)	**68**		**70**		**71**		✓
	R-496 (0)	**70**	✓	**72**	✓	**73**	✓	
	R-497 (0)	**67**		**70**		**71**		
	R-498 (0)	**69**		**71**		**72**		
	R-499 (0)	**68**		**71**		**71**		
	R-4100 (0)	**68**		**71**		**72**		
	R-4101 (0)	**69**		**71**		**72**		
	R-4102 (0)	63		**66**		**67**		
	R-4103 (0)	63		**66**		**67**		
	R-4104 (0)	63		**66**		**67**		
	R-4105 (0)	63		**66**		**67**		
	R-4106 (0)	63		**66**		**67**		
	R-4107 (0)	62		**66**		**67**		
	R-4108 (0)	62		**66**		**67**		
4-44-B	M-424	58	✓	62	✓	62	✓	✓
4-45-B[10]	M-425	62		65		**66**		✓

NSA	Receptor Number[3] (RR)*	Alt B/C 6-8-6[1,2]	Maximum Noise Level within NSA	Alt D/E 8-8-8[1,2]	Maximum Noise Level within NSA	Alt F/G 8-10-8[1,2]	Maximum Noise Level within NSA	Ambient Measurement Receptor Site
	R-4109 (0)	**71**		**72**		**74**		
	R-4110 (0)	**68**		**71**		**73**		
	R-4111 (0)	**69**		**72**		**73**		
	R-4112 (0)	**72**	✓	**73**		**75**		
	R-4113 (0)	**72**	✓	**73**		**75**		
	R-4114 (0)	**72**	✓	**73**		**75**		
	R-4115 (0)	**71**		**74**	✓	**75**		
	R-4116 (0)	**70**		**73**		**75**		
	R-4117 (0)	**70**		**72**		**74**		
	R-4118 (0)	**72**	✓	**74**	✓	**76**	✓	
	R-4119 (0)	**72**	✓	**74**	✓	**75**		
	R-4120	60		63		64		
	R-4121	60		63		64		
4-46-E[11]	M-426	62		65		66		✓
	R-4122	66	✓	67		69		
	R-4123	65		66		67		
	R-4124	64		65		66		
	R-4125	63		64		65		
	R-4126	62		64		65		
	R-4127	62		64		64		
	R-4128	62		64		64		
	R-4129	62		64		65		
	R-4130	62		65		65		
	R-4131	63		66		66		
	R-4132	63		67		67		
	R-4133	63		67		67		
	R-4134 (0)	64		**71**		70		
	R-4135 (0)	65		**72**		**71**		
	R-4136 (0)	65		**73**		**72**		
	R-4137 (0)	66	✓	**74**		**73**		
	R-4138 (0)	66	✓	**75**	✓	**75**	✓	
	R-4139	62		66		67		
4-47-B	R-4139a	54	✓	55	✓	55	✓	
4-48-B	R-4139b	56	✓	57	✓	57	✓	
4-49-E	R-4139c	55	✓	56	✓	56	✓	

1. *Build noise levels in bold and colored red are impacted for the specific land use category.*
2. *Build noise levels highlighted are greater than or equal to 75 dB(A)*
3. *A Receptor Number beginning with "M" represents a measured location and a Receptor Number beginning with "R" represents a modeled receptor only.*
4. *Only one property is impacted at this NSA, MDSHA requires are least three benefits for a barrier to be reasonable.*
5. *Only two residences are impacted at this NSA, MDSHA requires are least three benefits for a barrier to be reasonable.*
6. *Only one property is impacted at this NSA, MDSHA requires are least three benefits for a barrier to be reasonable.*
7. *Only two residences are impacted at this NSA, MDSHA requires are least three benefits for a barrier to be reasonable.*
8. *Only one residence is impacted at this NSA, MDSHA requires are least three benefits for a barrier to be reasonable.*
9. *This NSA represents Long Point Park, the impacted locations are along trails where the usage is transient in nature*
10. *The impacts at this NSA are located along the trail in front of the community, usage is transient in nature.*
11. *The receptors located in front of the building are impacted, however the outdoor usage at this location is behind the building and that location is not impacted*

*RR = number of residences represented by receptor if different than one.

RITCHIE HWY
MARYLAND 2
Mill Creek
S WINCHESTER RD
SEVERN RIVER BRIDGE
50
301
BOULTERSWAY
MARYLAND 648
MARYLAND 450
Severn River
1-01-B
1-02-B
1-03-B
1-04-B
1-18-B
1-19-B
1-20-C
1-21-B
F-1-08
G-1-05
G-1-06
M-101
M-102
M-103
M-104
M-105
M-106
M-107
M-108
M-109
M-136
M-137
M-138
M-139
M-140
M-141
M-142
M-143
M-144
M-145
M-146
R-101
R-102
R-103
R-104
R-105
R-106
R-107
R-108
R-109
R-110
R-111
R-112
R-113
R-136
R-137
R-138
R-139
R-140
R-141
R-142
R-143
R-144
R-145
R-146
R-147
R-148
R-149
R-150
R-151

Noise Measurement Receptor Site (M-101)

Modeled Receptor (R-101)

Impacted Receptor

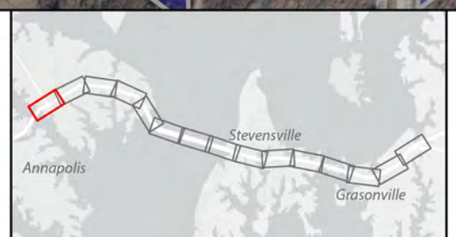
Land Use Activity Category B Noise Sensitive Area (EXTERIOR)

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



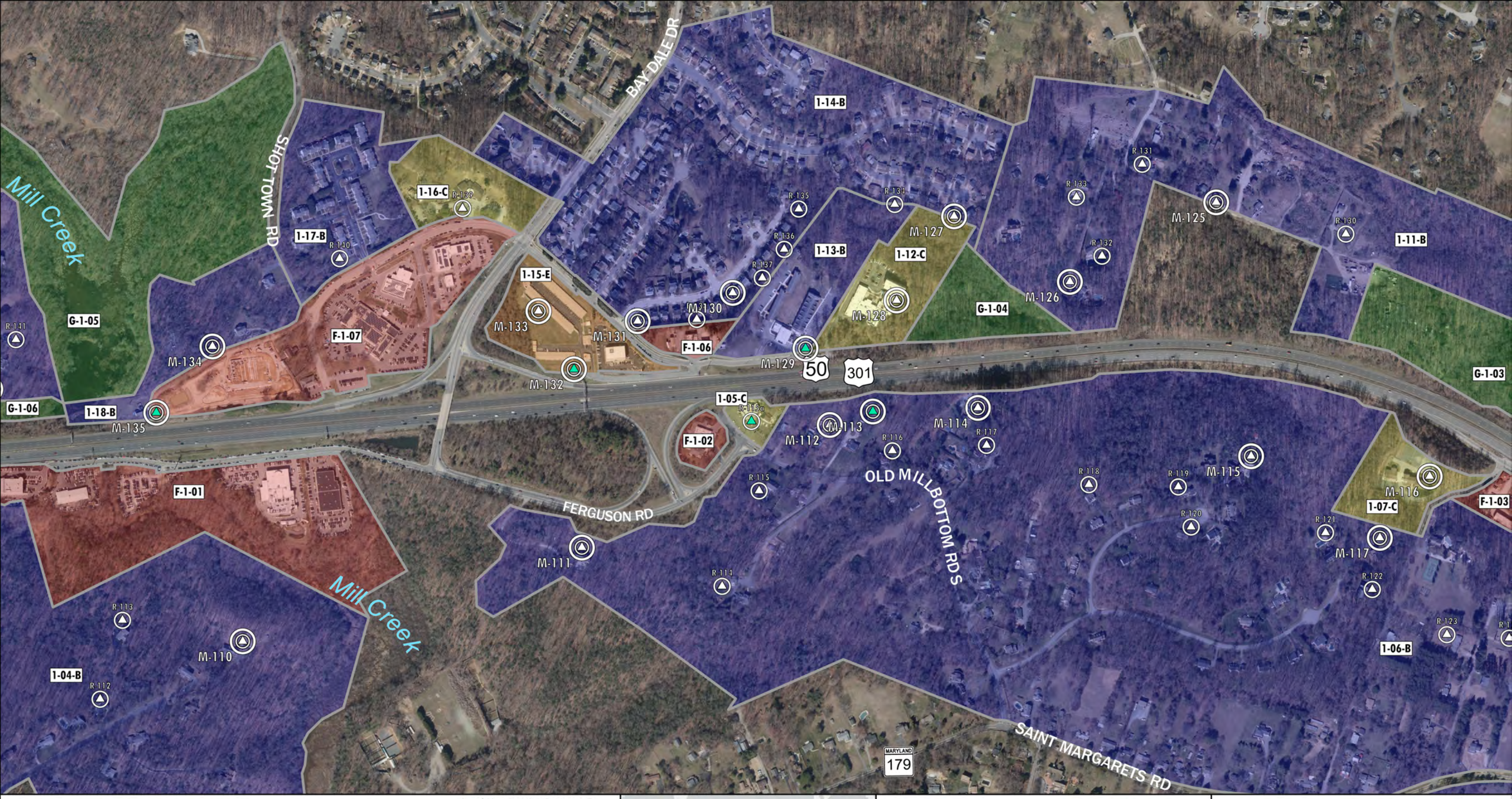
1" = 500 Feet

0 125 250 500 750 1,000 US Feet

MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives B & C)



Noise Measurement Receptor Site
M-101

Modeled Receptor
R-101

Impacted Receptor

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



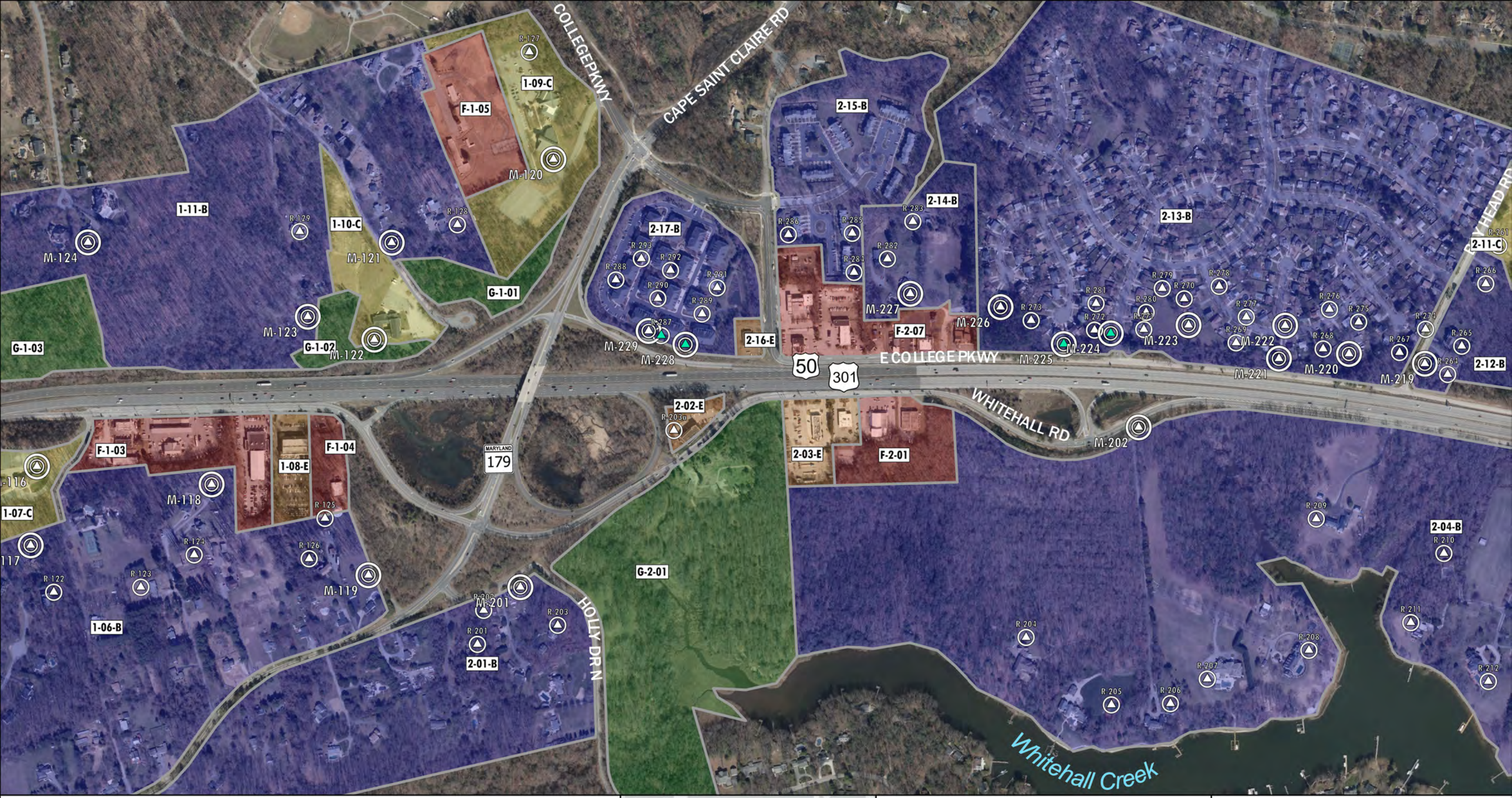
1" = 500 Feet

0 125 250 500 750 1,000 US Feet

MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives B & C)



Noise Measurement Receptor Site

M-101

Modeled Receptor

R-101

Impacted Receptor

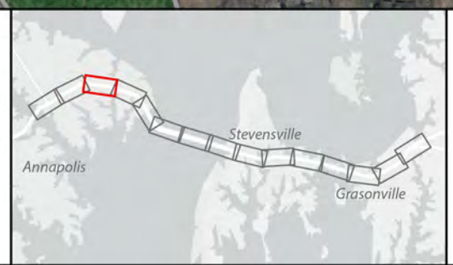
Land Use Activity Category B
Noise Sensitive Area (EXTERIOR)

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



N

1" = 500 Feet

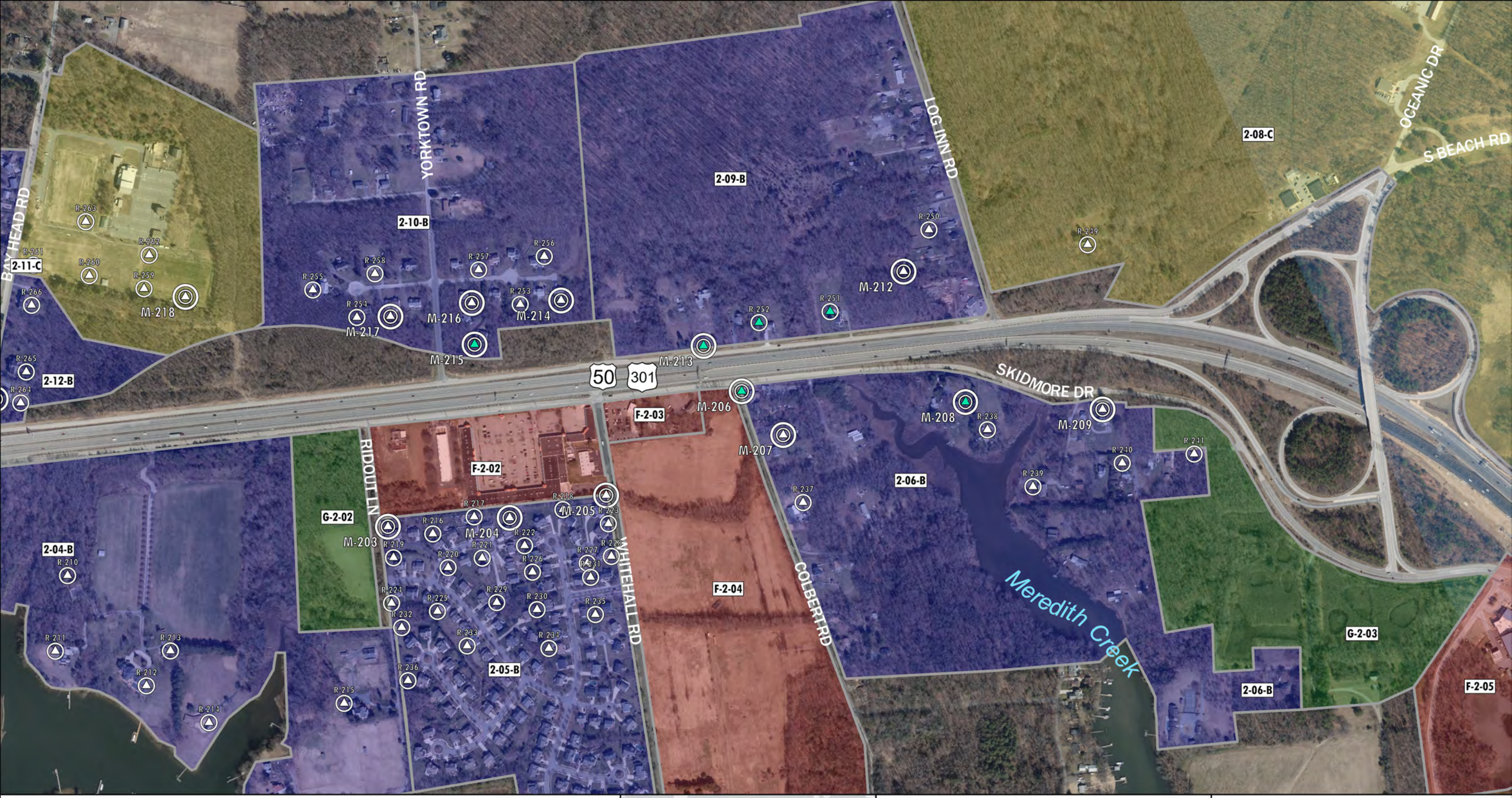
0 125 250 500 750 1,000 US Feet

MDTA

Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives B & C)



Noise Measurement Receptor Site

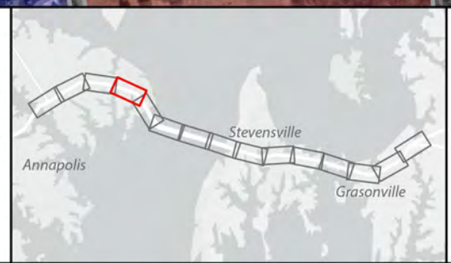
M-101

Modeled Receptor

R-101

Impacted Receptor

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



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0 125 250 500 750 1,000 US Feet

MDTA

Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY TIER 2 NEPA

Noise Impacts (Alternatives B & C)

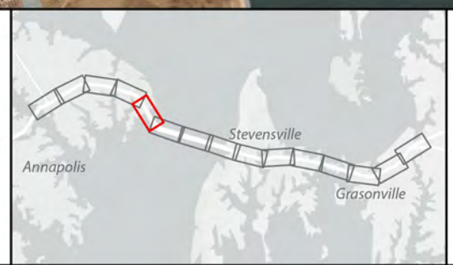


M-101 Noise Measurement Receptor Site

R-101 Modeled Receptor

Impacted Receptor

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



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MDTA Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY TIER 2 NEPA

Noise Impacts (Alternatives B & C)

BLUE STAR MEMORIAL HWY

50 301

WILLIAM PRESTON LANE JR. MEMORIAL BAY BRIDGE

Chesapeake Bay

Noise Measurement Receptor Site

M-101

Modeled Receptor

R-101

Impacted Receptor

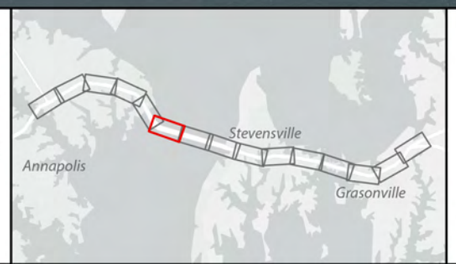
Land Use Activity Category B
Noise Sensitive Area (EXTERIOR)

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Noise Sensitive Area (EXTERIOR)

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Noise Sensitive Area (EXTERIOR)

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



N

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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives B & C)

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Noise Measurement Receptor Site
M-101

Modeled Receptor
R-101

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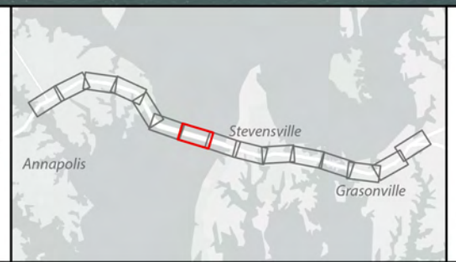
Land Use Activity Category B
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Noise Sensitive Area (EXTERIOR)

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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives B & C)

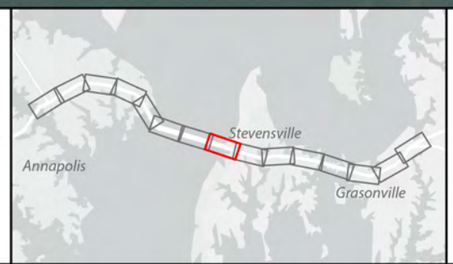


Noise Measurement Receptor Site

Modeled Receptor

Impacted Receptor

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



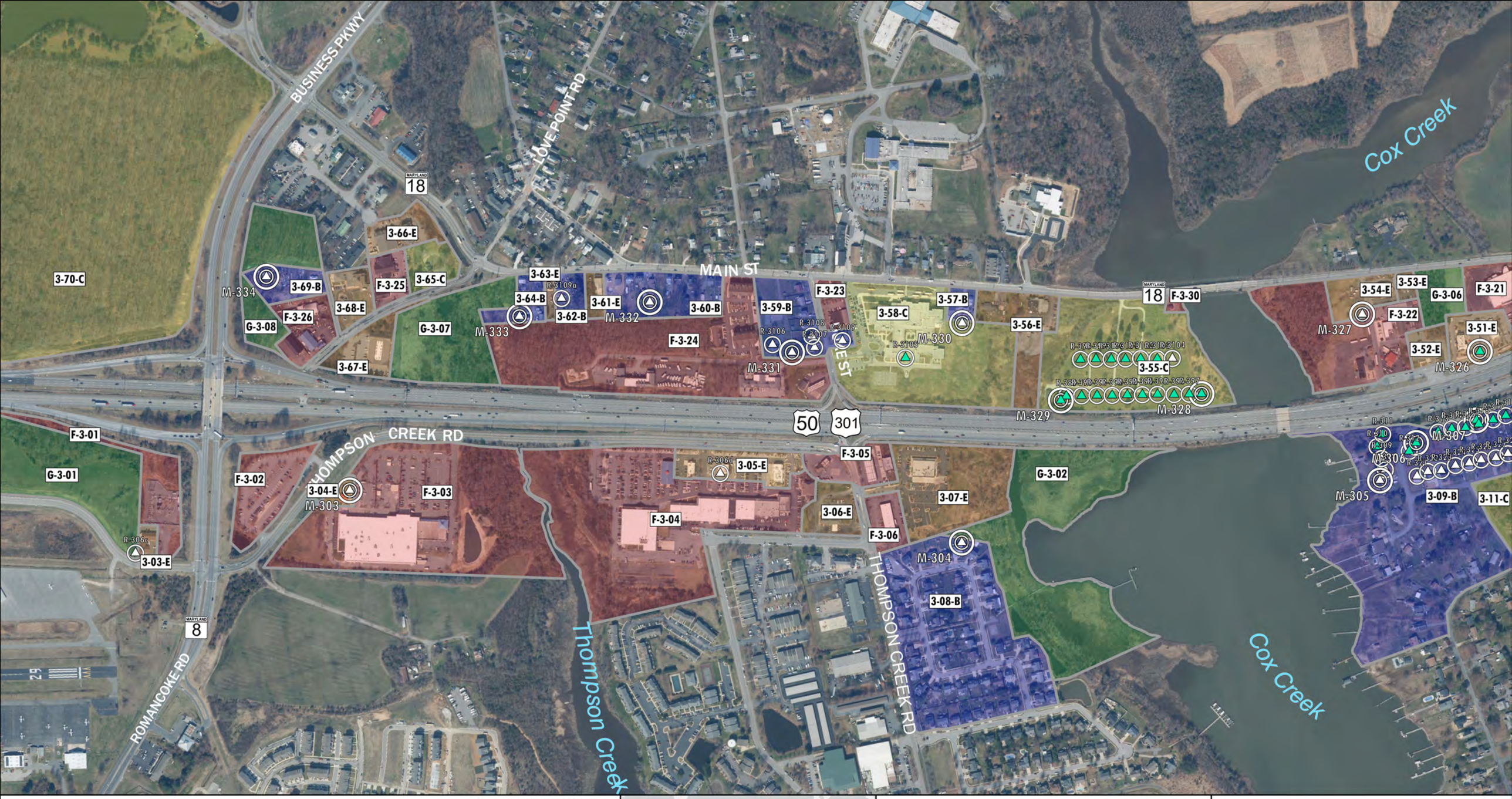
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MDTA Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY TIER 2 NEPA

Noise Impacts (Alternatives B & C)



Noise Measurement Receptor Site (M-101)

Modeled Receptor (R-101)

Impacted Receptor

Land Use Activity Category B Noise Sensitive Area (EXTERIOR)

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Land Use Activity Category G Non-Noise Sensitive Area



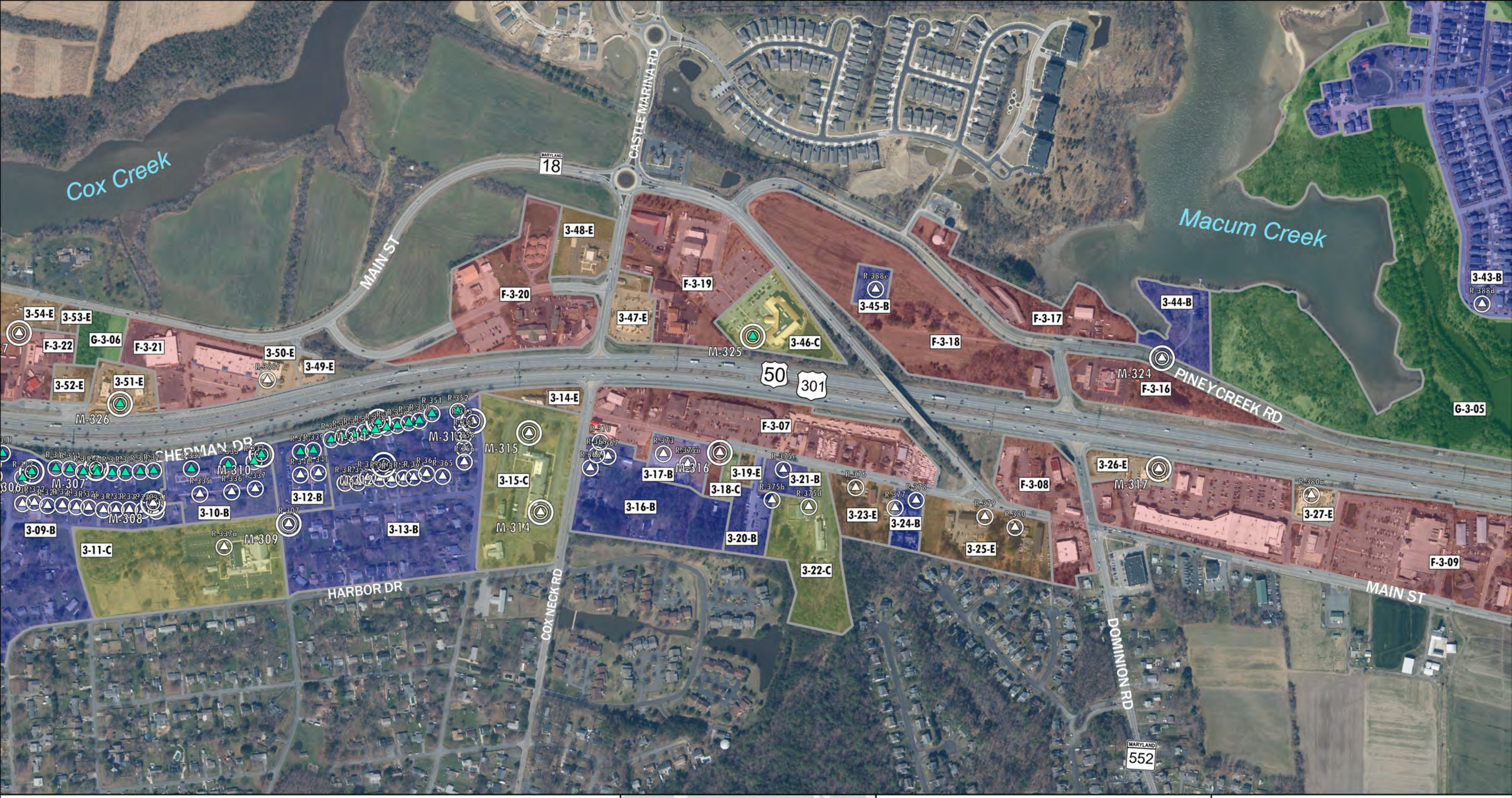
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MDTA Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY TIER 2 NEPA

Noise Impacts (Alternatives B & C)



Noise Measurement Receptor Site
M-101

Modeled Receptor
R-101

Impacted Receptor

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)

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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives B & C)



Noise Measurement Receptor Site (M-101)

Modeled Receptor (R-101)

Impacted Receptor

Land Use Activity Category B
Noise Sensitive Area (EXTERIOR)

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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives B & C)



Noise Measurement Receptor Site
M-101

Modeled Receptor
R-101

Impacted Receptor

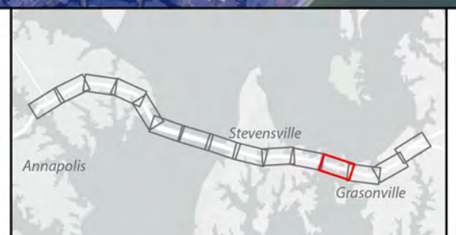
Land Use Activity Category B
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Noise Sensitive Area (EXTERIOR)

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Noise Sensitive Area (EXTERIOR)

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



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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives B & C)

Noise Measurement Receptor Site

M-101

Modeled Receptor

R-101

Impacted Receptor

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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives B & C)



Noise Measurement Receptor Site
M-101

Modeled Receptor
R-101

Impacted Receptor

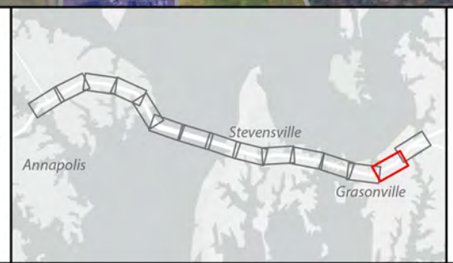
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MDTA
Maryland
Transportation
Authority

Chesapeake
BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives B & C)

Queenstown Creek

4-30-C

R-462a

BLUE STAR MEMORIAL HWY

50

301

R-461

R-460

R-459

R-462

M-416

MAIN ST

R-458

M-415

R-457

R-456

R-455

M-414

4-29-B

301

MARYLAND 656

50

OCEAN GTWY

G-4-08

MARYLAND 18

Wye River

M-101 Noise Measurement Receptor Site

R-101 Modeled Receptor

Impacted Receptor

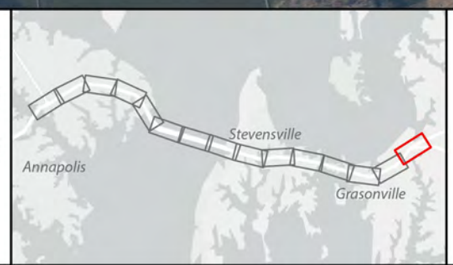
Land Use Activity Category B
Noise Sensitive Area (EXTERIOR)

Land Use Activity Category C
Noise Sensitive Area (EXTERIOR)

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Noise Sensitive Area (EXTERIOR)

Land Use Activity Category F
Non-Noise Sensitive Area

Land Use Activity Category G
Non-Noise Sensitive Area



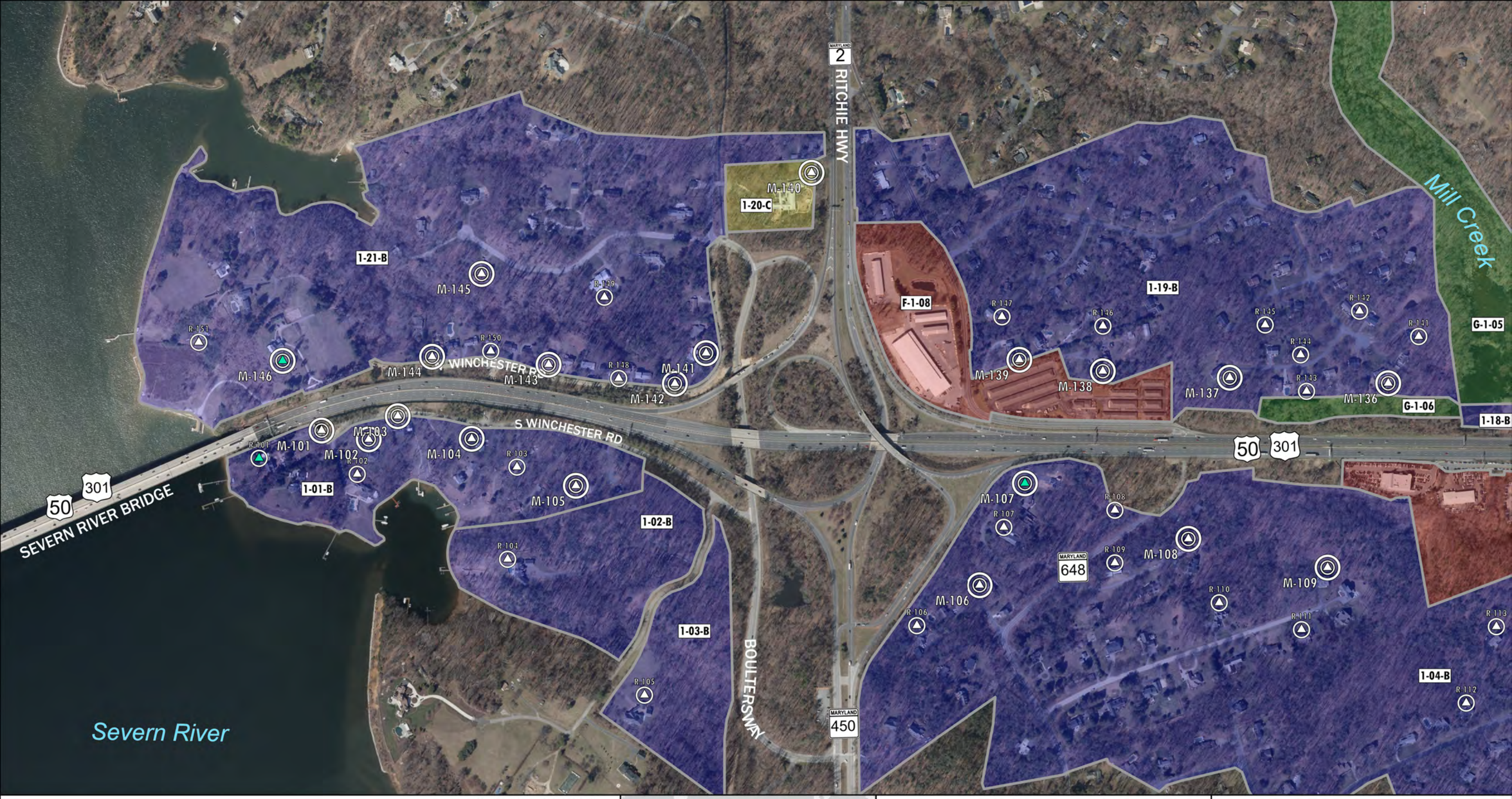
1" = 500 Feet

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MDTA Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY TIER 2 NEPA

Noise Impacts (Alternatives B & C)



Noise Measurement Receptor Site (M-101)

Modeled Receptor (R-101)

Impacted Receptor

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



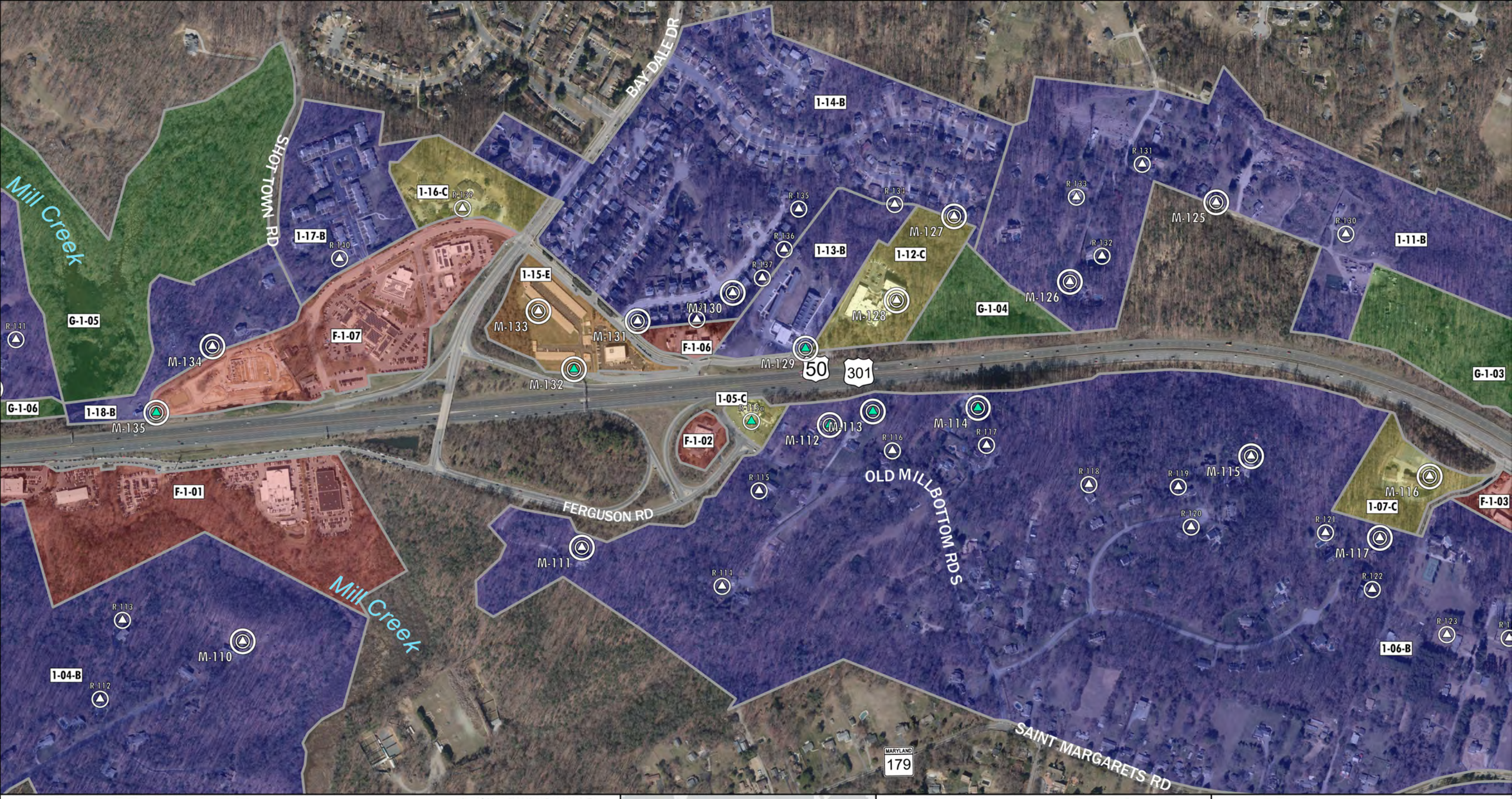
1" = 500 Feet

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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives D & E)



Noise Measurement Receptor Site
M-101

Modeled Receptor
R-101

Impacted Receptor

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



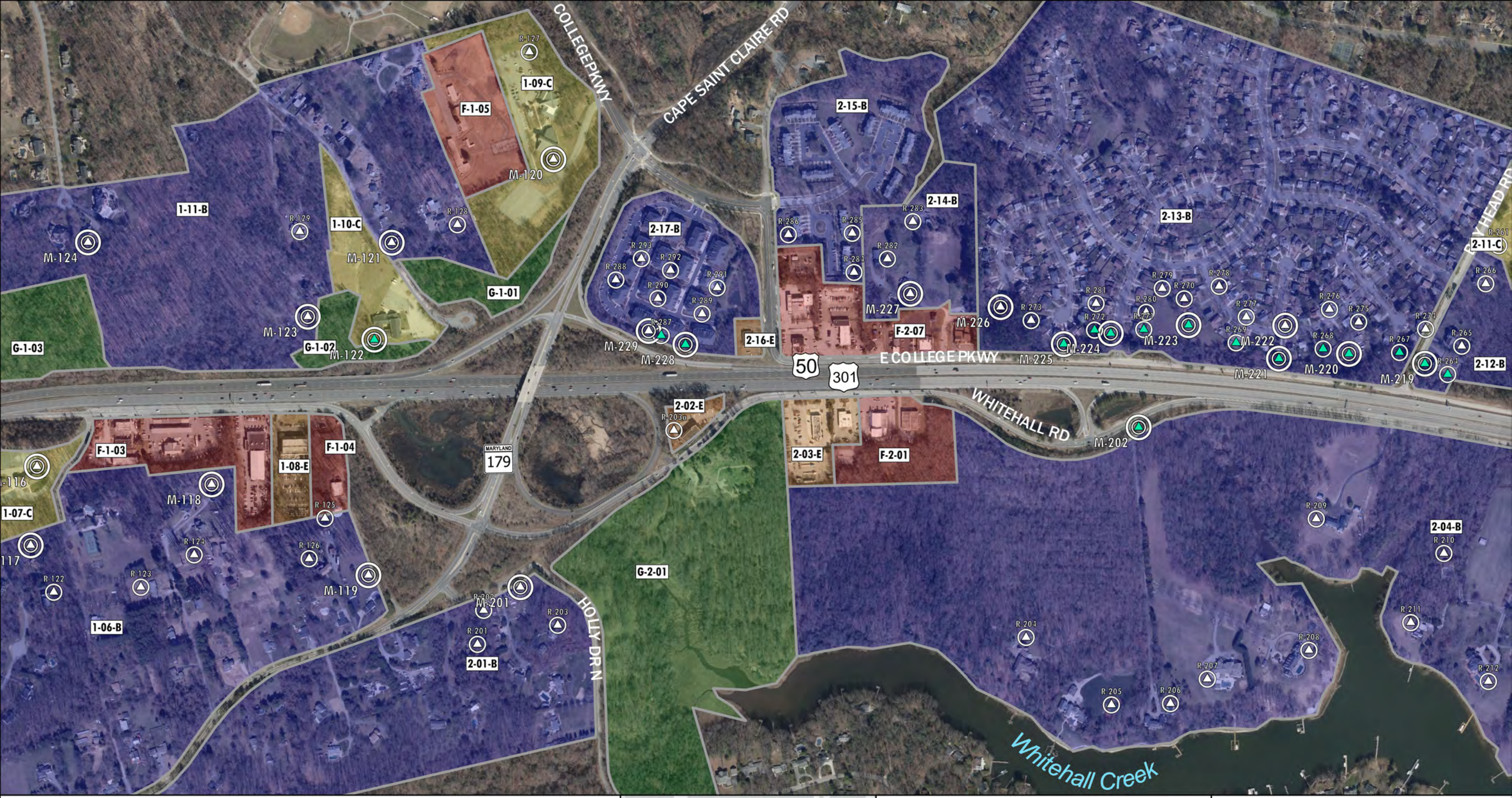
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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives D & E)



Noise Measurement Receptor Site

M-101

Modeled Receptor

R-101

Impacted Receptor

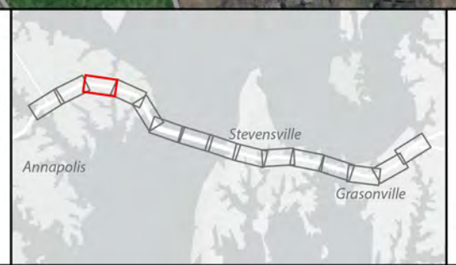
Land Use Activity Category B
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Land Use Activity Category F
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Land Use Activity Category G
Non-Noise Sensitive Area



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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives D & E)

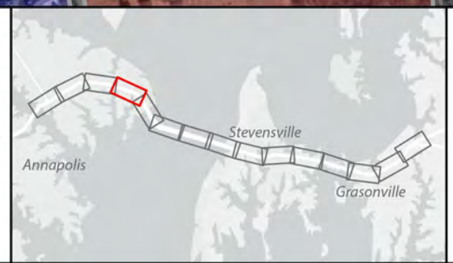


Noise Measurement Receptor Site (M-101)

Modeled Receptor (R-101)

Impacted Receptor

- Land Use Activity Category B Noise Sensitive Area (EXTERIOR)
- Land Use Activity Category C Noise Sensitive Area (EXTERIOR)
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MDTA Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY TIER 2 NEPA

Noise Impacts (Alternatives D & E)

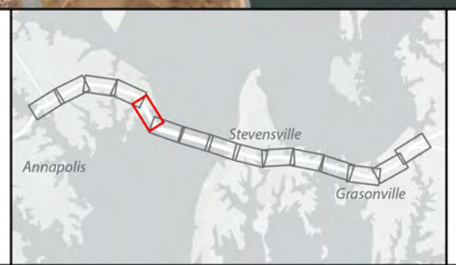


Noise Measurement Receptor Site

Modeled Receptor

Impacted Receptor

- Land Use Activity Category B Noise Sensitive Area (EXTERIOR)
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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives D & E)

BLUE STAR MEMORIAL HWY

50 301

WILLIAM PRESTON LANE JR. MEMORIAL BAY BRIDGE

Chesapeake Bay

Noise Measurement Receptor Site

M-101

Modeled Receptor

R-101

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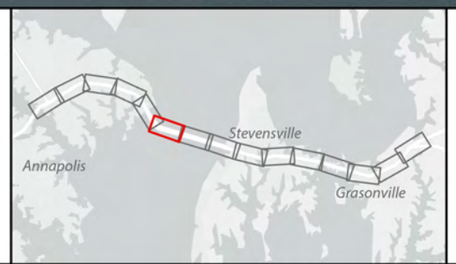
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Land Use Activity Category F
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N

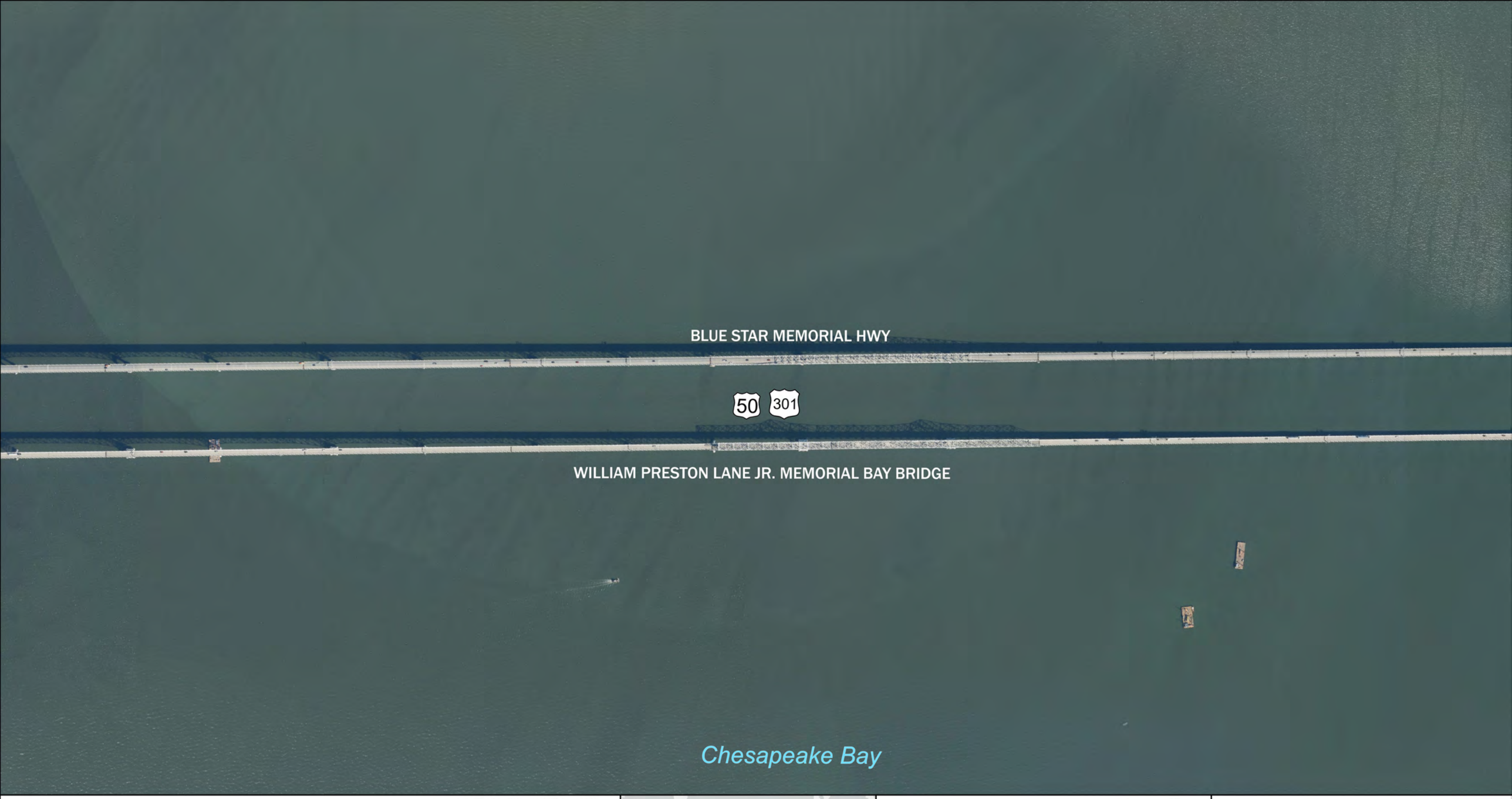
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Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives D & E)



Noise Measurement Receptor Site

M-101

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R-101

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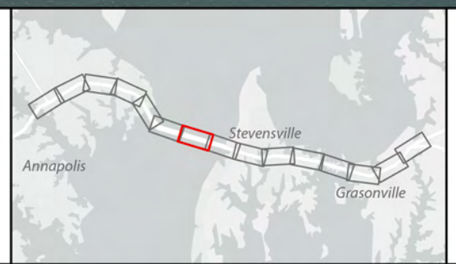
Land Use Activity Category B
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Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives D & E)

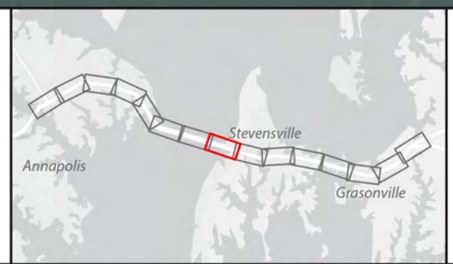


Noise Measurement Receptor Site (M-101)

Modeled Receptor (R-101)

Impacted Receptor

- Land Use Activity Category B Noise Sensitive Area (EXTERIOR)
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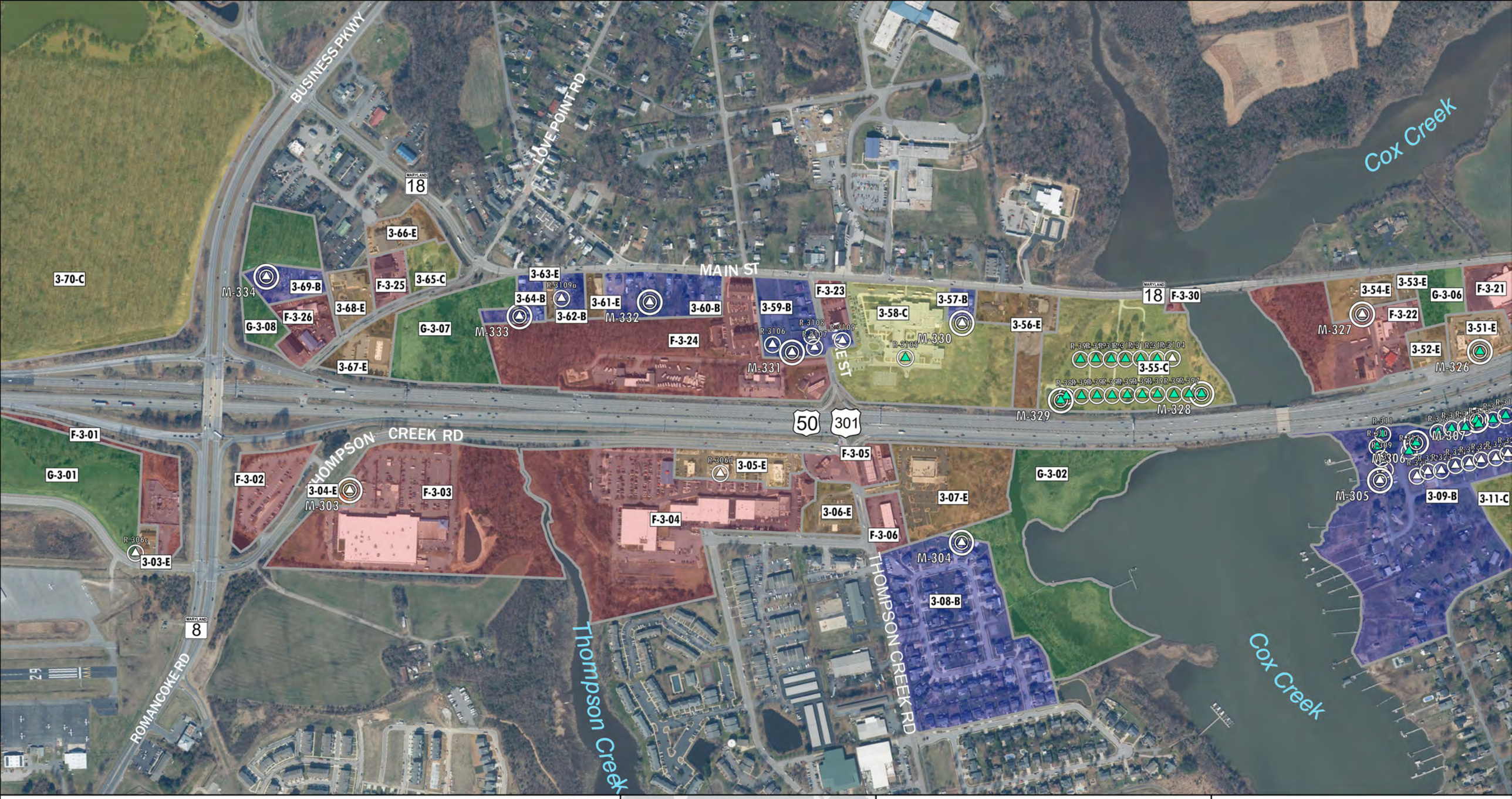
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MDTA Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY TIER 2 NEPA

Noise Impacts (Alternatives D & E)



Noise Measurement Receptor Site (M-101)

Modeled Receptor (R-101)

Impacted Receptor

Land Use Activity Category B
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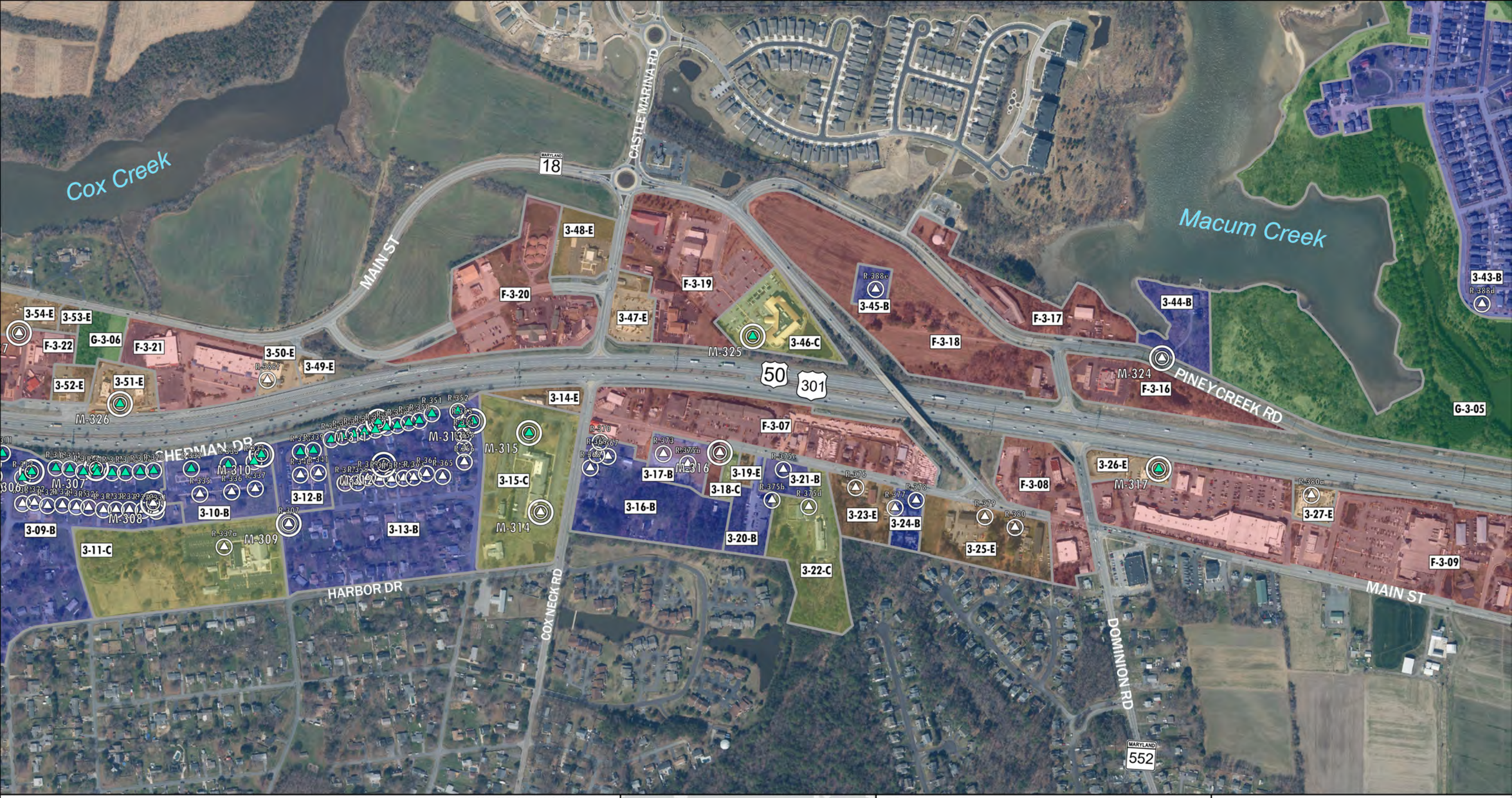
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Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives D & E)



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Modeled Receptor (R-101)

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MDTA Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY TIER 2 NEPA

Noise Impacts (Alternatives D & E)

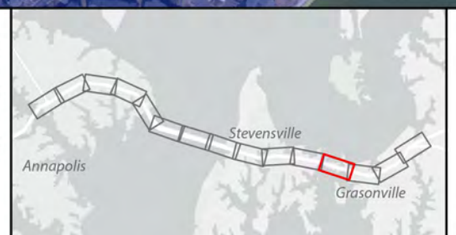


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Modeled Receptor (R-101)

Impacted Receptor

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- 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

MDTA Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY TIER 2 NEPA

Noise Impacts (Alternatives D & E)



Noise Measurement Receptor Site (M-101)

Modeled Receptor (R-101)

Impacted Receptor

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

MDTA Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY TIER 2 NEPA

Noise Impacts (Alternatives D & E)



Noise Measurement Receptor Site
M-101

Modeled Receptor
R-101

Impacted Receptor

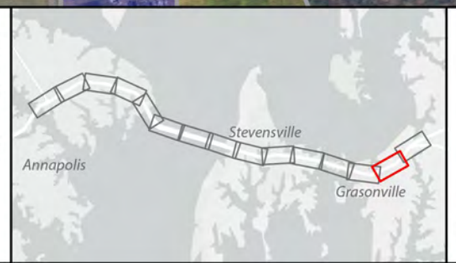
Land Use Activity Category B
Noise Sensitive Area (EXTERIOR)

Land Use Activity Category C
Noise Sensitive Area (EXTERIOR)

Land Use Activity Category E
Noise Sensitive Area (EXTERIOR)

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



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MDTA
Maryland
Transportation
Authority

Chesapeake
BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives D & E)

Queenstown Creek

4-30-C

R-462a

BLUE STAR MEMORIAL HWY

50

301

R-461

R-460

R-459

R-462

M-416

MAIN ST

R-458

M-415

R-457

R-456

R-455

M-414

4-29-B

301

MARYLAND 656

50

OCEAN GTWY

G-4-08

MARYLAND 18

Wye River

M-101 Noise Measurement Receptor Site

R-101 Modeled Receptor

Impacted Receptor

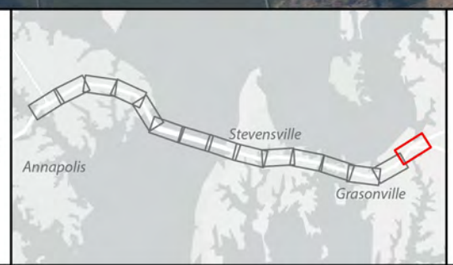
Land Use Activity Category B
Noise Sensitive Area (EXTERIOR)

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



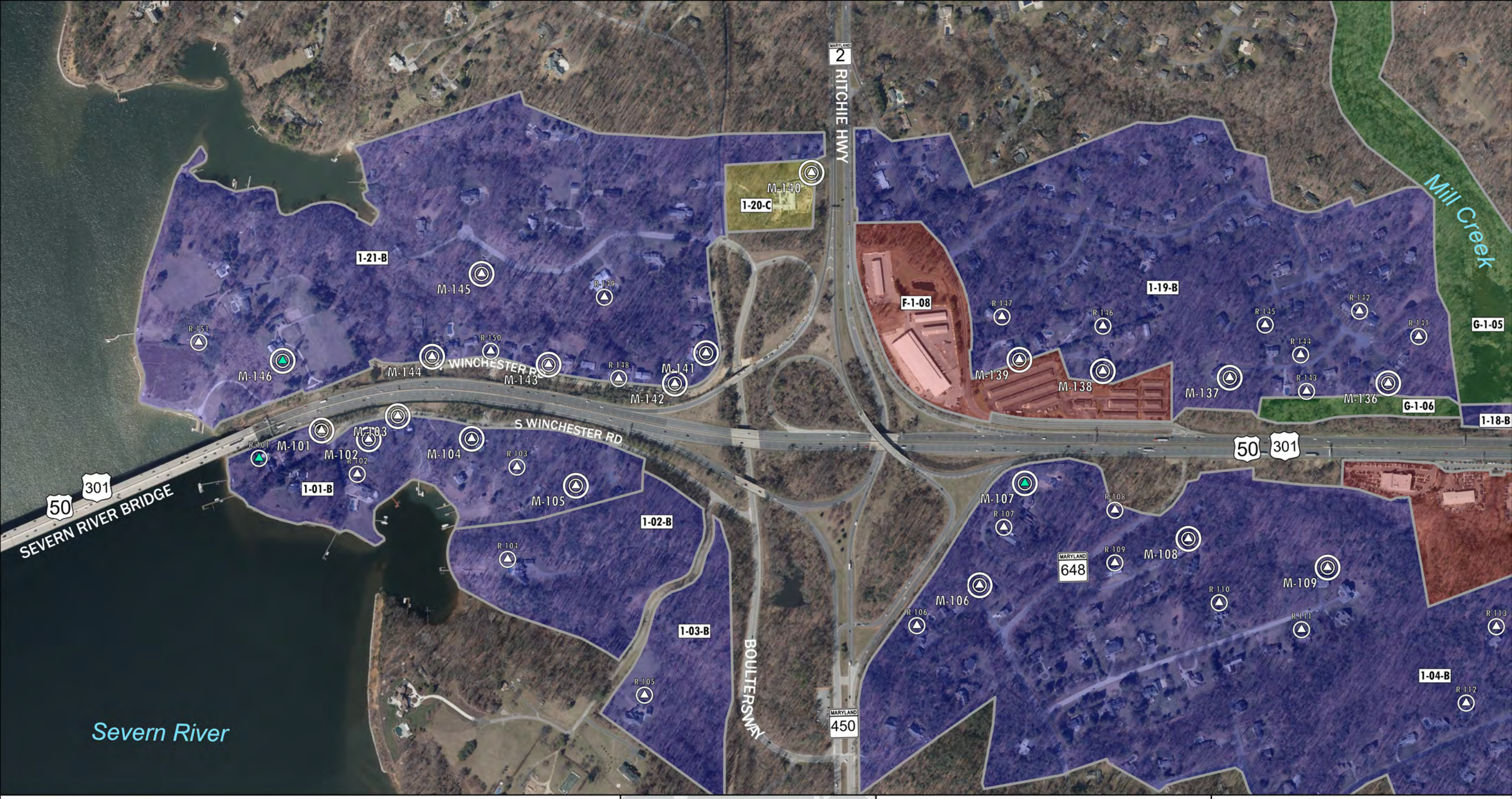
1" = 500 Feet

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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives D & E)



Noise Measurement Receptor Site (M-101)

Modeled Receptor (R-101)

Impacted Receptor

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



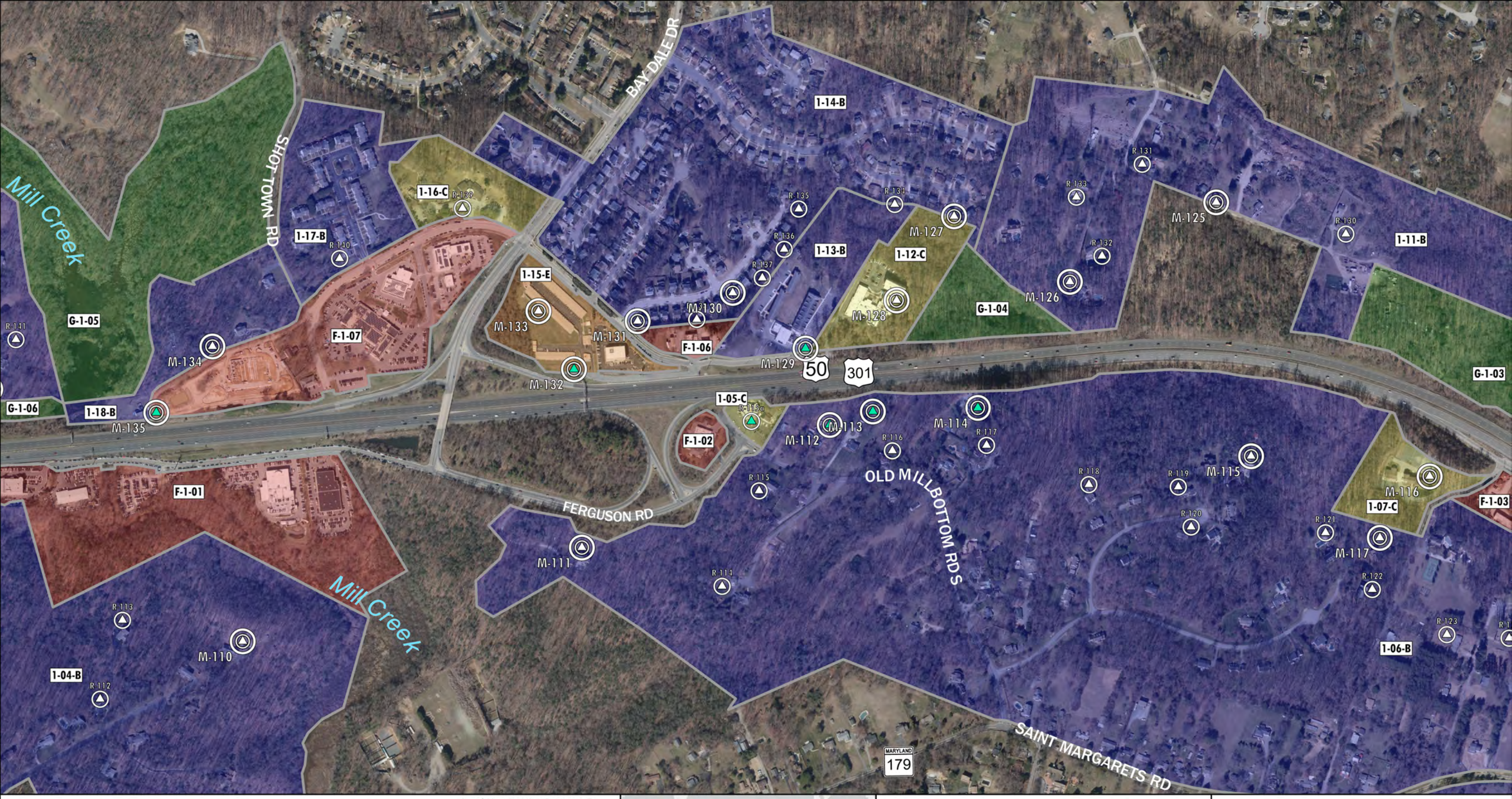
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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives F & G)



Noise Measurement Receptor Site
M-101

Modeled Receptor
R-101

Impacted Receptor

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



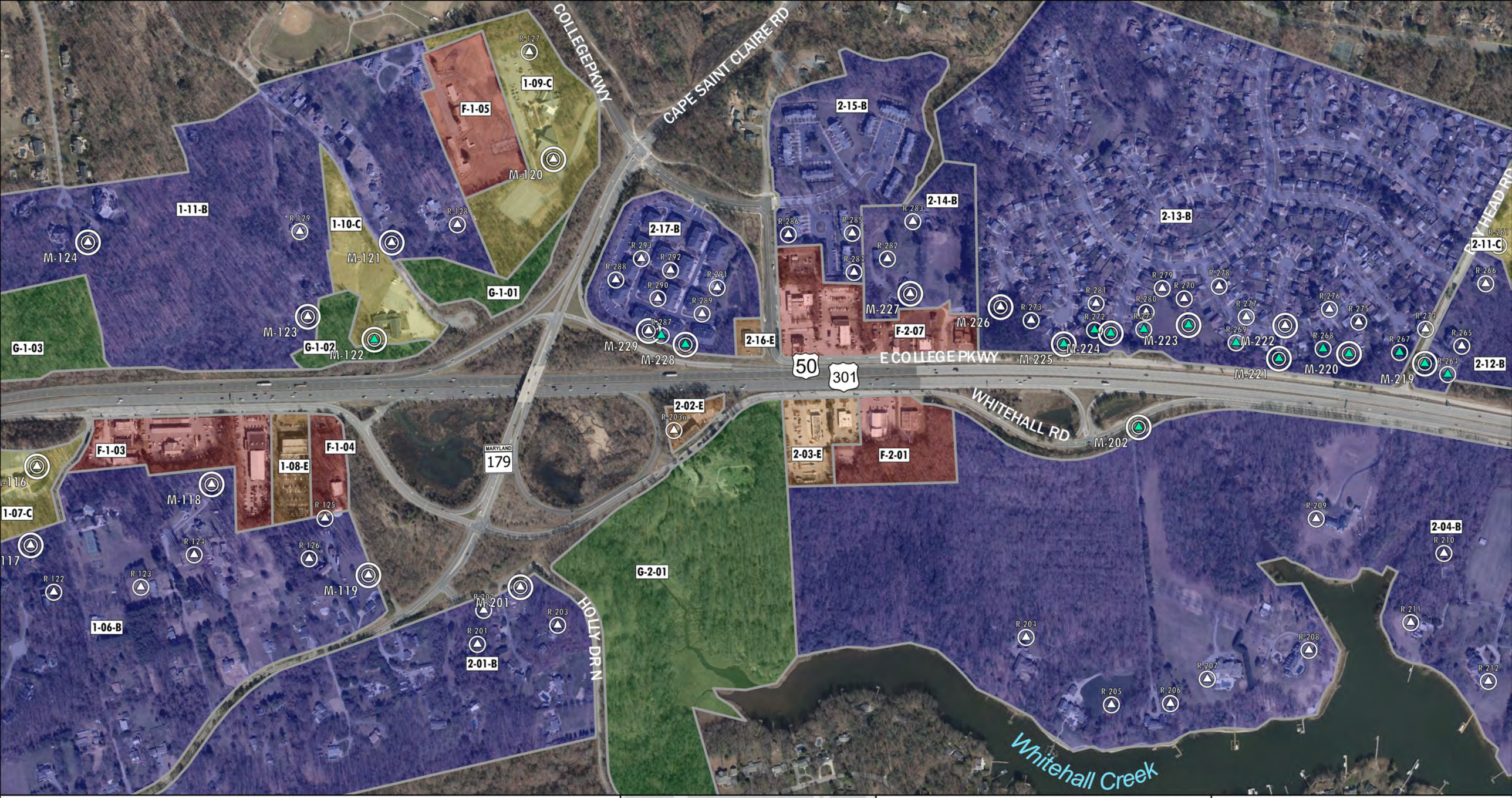
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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives F & G)



Noise Measurement Receptor Site (M-101)

Modeled Receptor (R-101)

Impacted Receptor

- 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

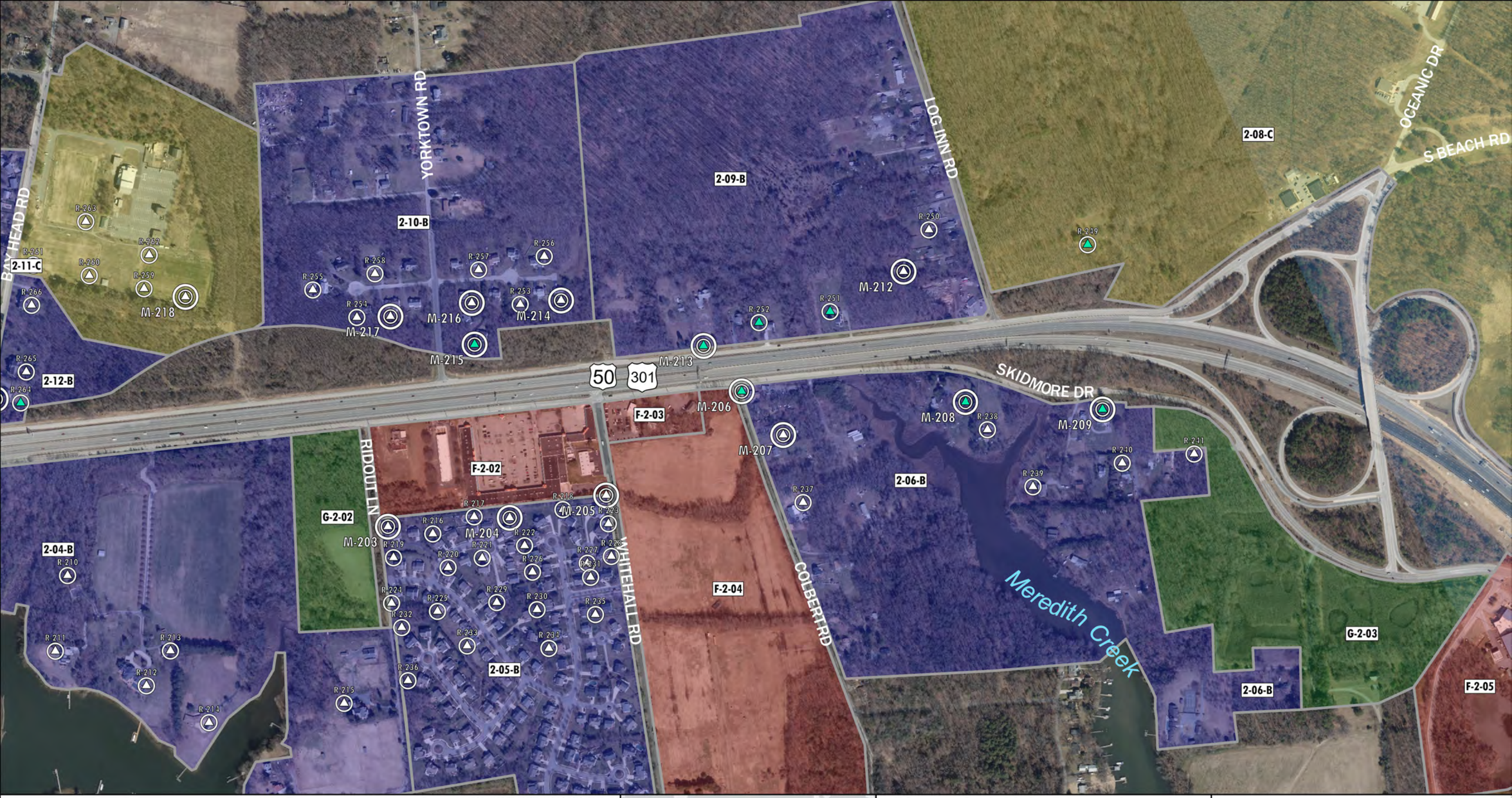
1" = 500 Feet

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MDTA Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY TIER 2 NEPA

Noise Impacts (Alternatives F & G)

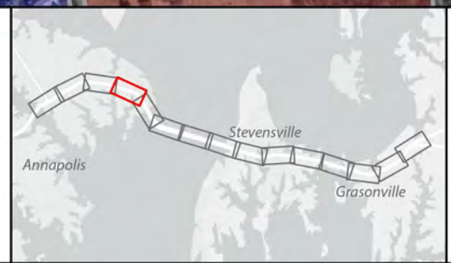


Noise Measurement Receptor Site
M-101

Modeled Receptor
R-101

Impacted Receptor

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



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0 125 250 500 750 1,000 US Feet

MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives F & G)

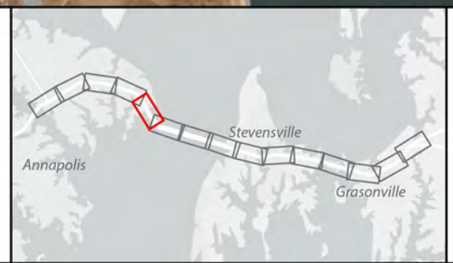


M-101 Noise Measurement Receptor Site

R-101 Modeled Receptor

Impacted Receptor

- Land Use Activity Category B Noise Sensitive Area (EXTERIOR)
- Land Use Activity Category C Noise Sensitive Area (EXTERIOR)
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MDTA Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY TIER 2 NEPA

Noise Impacts (Alternatives F & G)

BLUE STAR MEMORIAL HWY

50 301

WILLIAM PRESTON LANE JR. MEMORIAL BAY BRIDGE

Chesapeake Bay

Noise Measurement Receptor Site
M-101

Modeled Receptor
R-101

Impacted Receptor

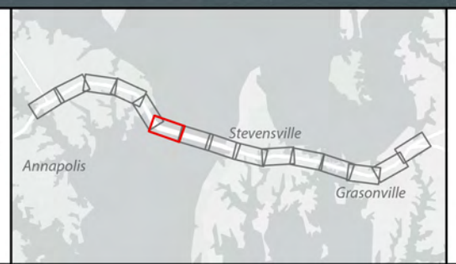
Land Use Activity Category B
Noise Sensitive Area (EXTERIOR)

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



N

1" = 500 Feet

0 125 250 500 750 1,000 US Feet

MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives F & G)

BLUE STAR MEMORIAL HWY

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Chesapeake Bay

Noise Measurement Receptor Site
M-101

Modeled Receptor
R-101

Impacted Receptor

Land Use Activity Category B
Noise Sensitive Area (EXTERIOR)

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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives F & G)

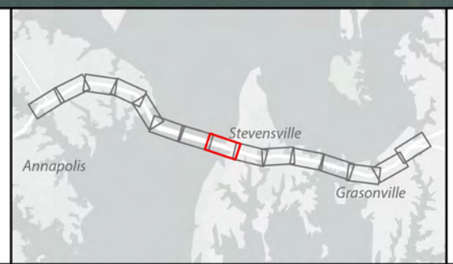


Noise Measurement Receptor Site (M-101)

Modeled Receptor (R-101)

Impacted Receptor

- 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



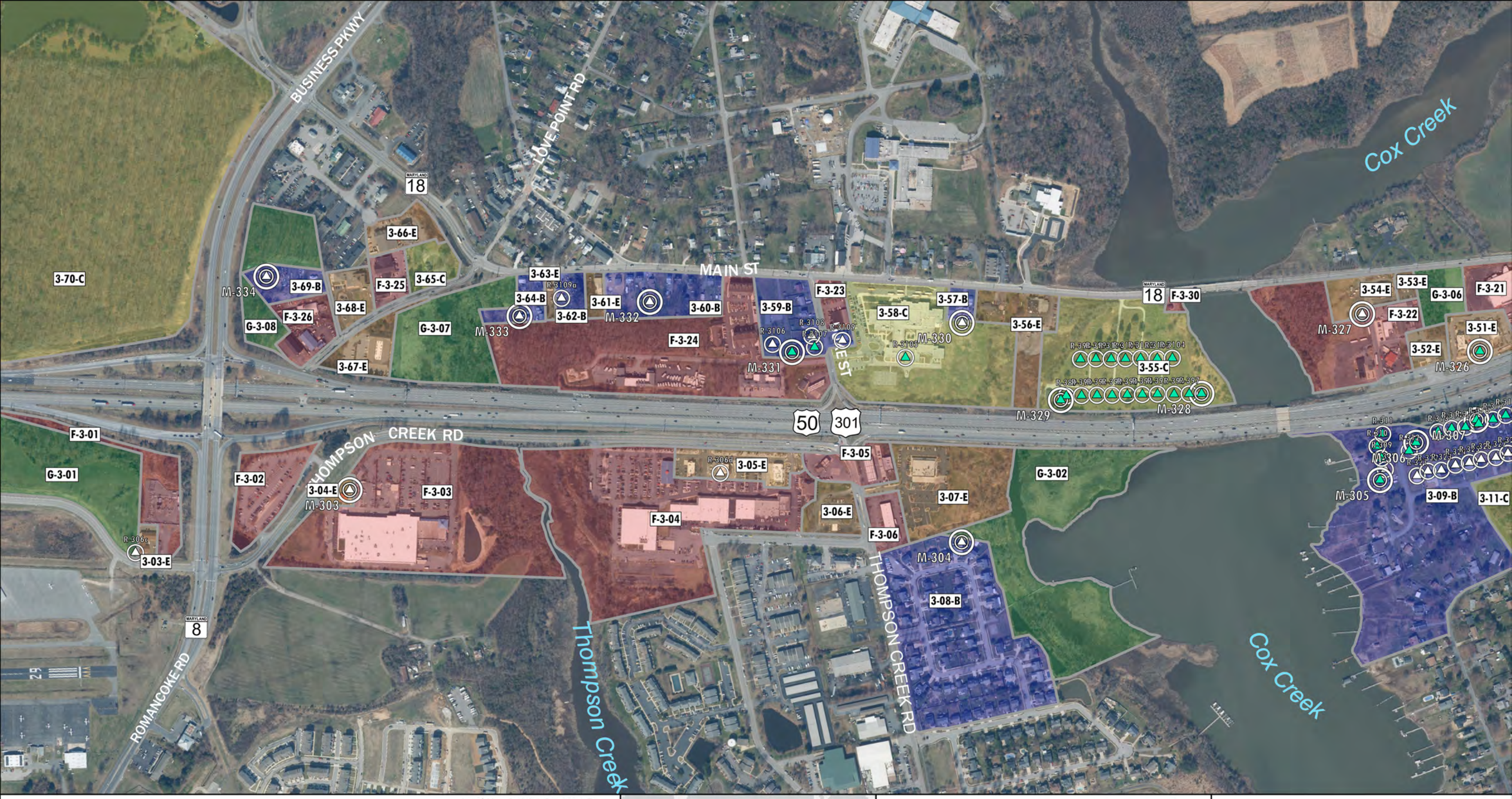
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MDTA Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY TIER 2 NEPA

Noise Impacts (Alternatives F & G)



Noise Measurement Receptor Site
M-101

Modeled Receptor
R-101

Impacted Receptor

Land Use Activity Category B
Noise Sensitive Area (EXTERIOR)

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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



N

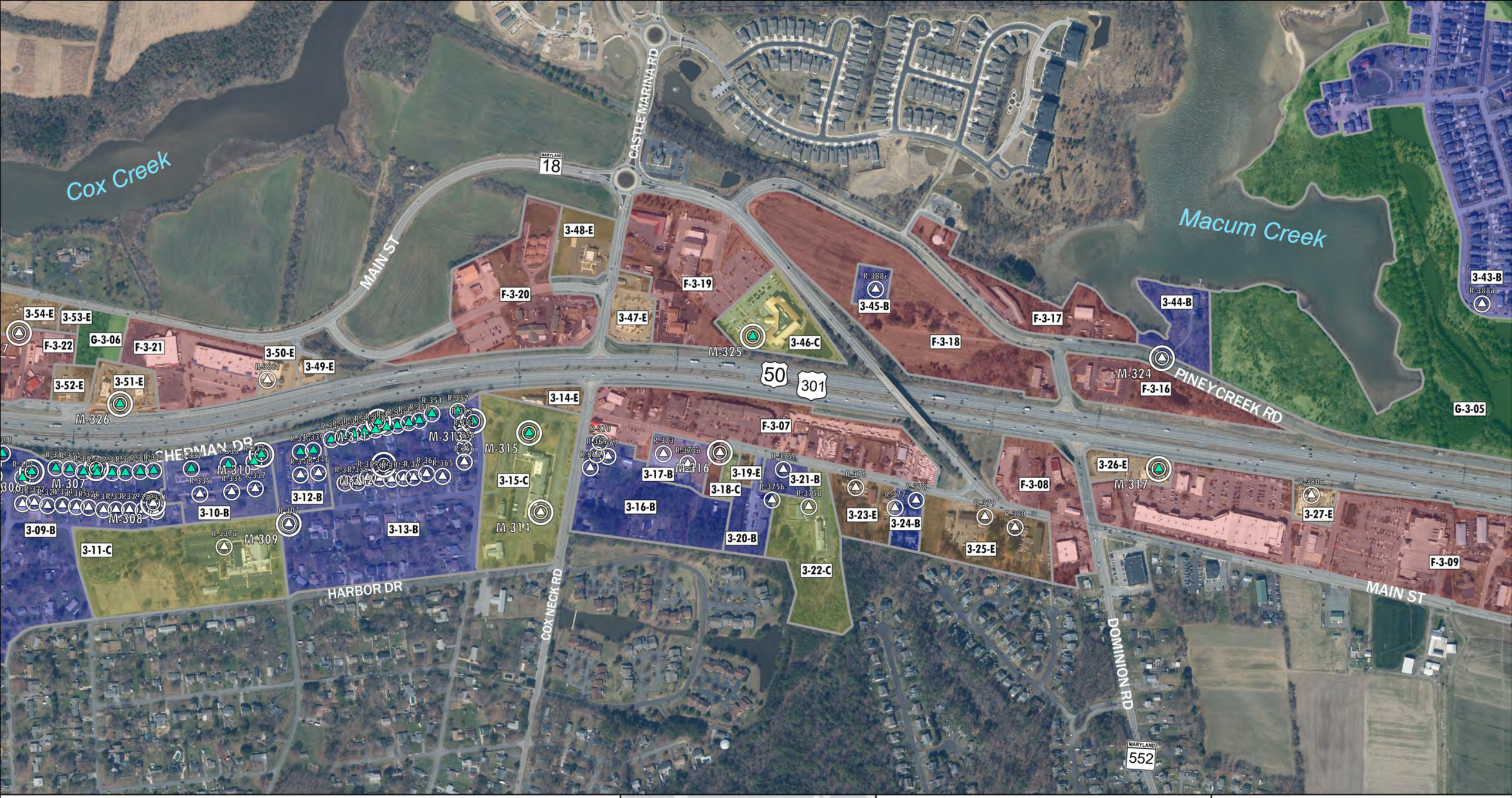
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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives F & G)



Noise Measurement Receptor Site
M-101

Modeled Receptor
R-101

Impacted Receptor

Land Use Activity Category B
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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives F & G)



Noise Measurement Receptor Site (M-101)

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- Land Use Activity Category B Noise Sensitive Area (EXTERIOR)
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MDTA Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY TIER 2 NEPA

Noise Impacts (Alternatives F & G)



Noise Measurement Receptor Site
M-101

Modeled Receptor
R-101

Impacted Receptor

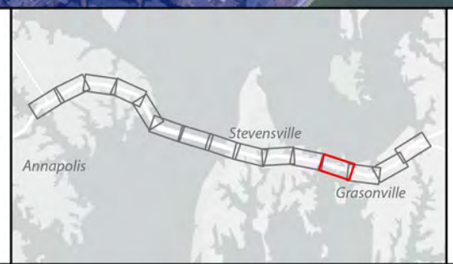
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Noise Sensitive Area (EXTERIOR)

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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives F & G)



Noise Measurement Receptor Site

M-101

Modeled Receptor

R-101

Impacted Receptor

Land Use Activity Category B
Noise Sensitive Area (EXTERIOR)

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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives F & G)



Noise Measurement Receptor Site
M-101

Modeled Receptor
R-101

Impacted Receptor

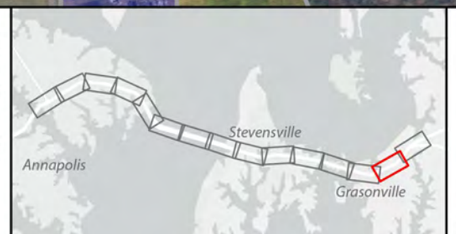
Land Use Activity Category B
Noise Sensitive Area (EXTERIOR)

Land Use Activity Category C
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MDTA
Maryland
Transportation
Authority

Chesapeake
BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives F & G)

Queenstown Creek

4-30-C

R-462a

BLUE STAR MEMORIAL HWY

50

301

R-461

R-460

R-459

R-462

M-416

MAIN ST

R-458

M-415

R-457

R-456

R-455

M-414

4-29-B

301

MARYLAND 656

50

OCEAN GTWY

G-4-08

MARYLAND 18

Wye River

M-101 Noise Measurement Receptor Site

R-101 Modeled Receptor

Impacted Receptor

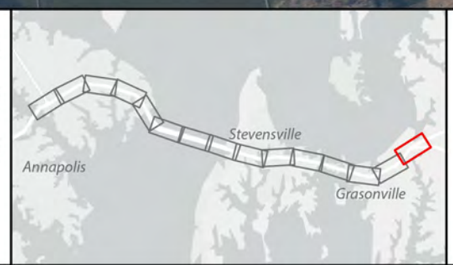
Land Use Activity Category B
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Noise Sensitive Area (EXTERIOR)

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MDTA
Maryland Transportation Authority

Chesapeake BAY CROSSING STUDY
TIER 2 NEPA

Noise Impacts (Alternatives F & G)