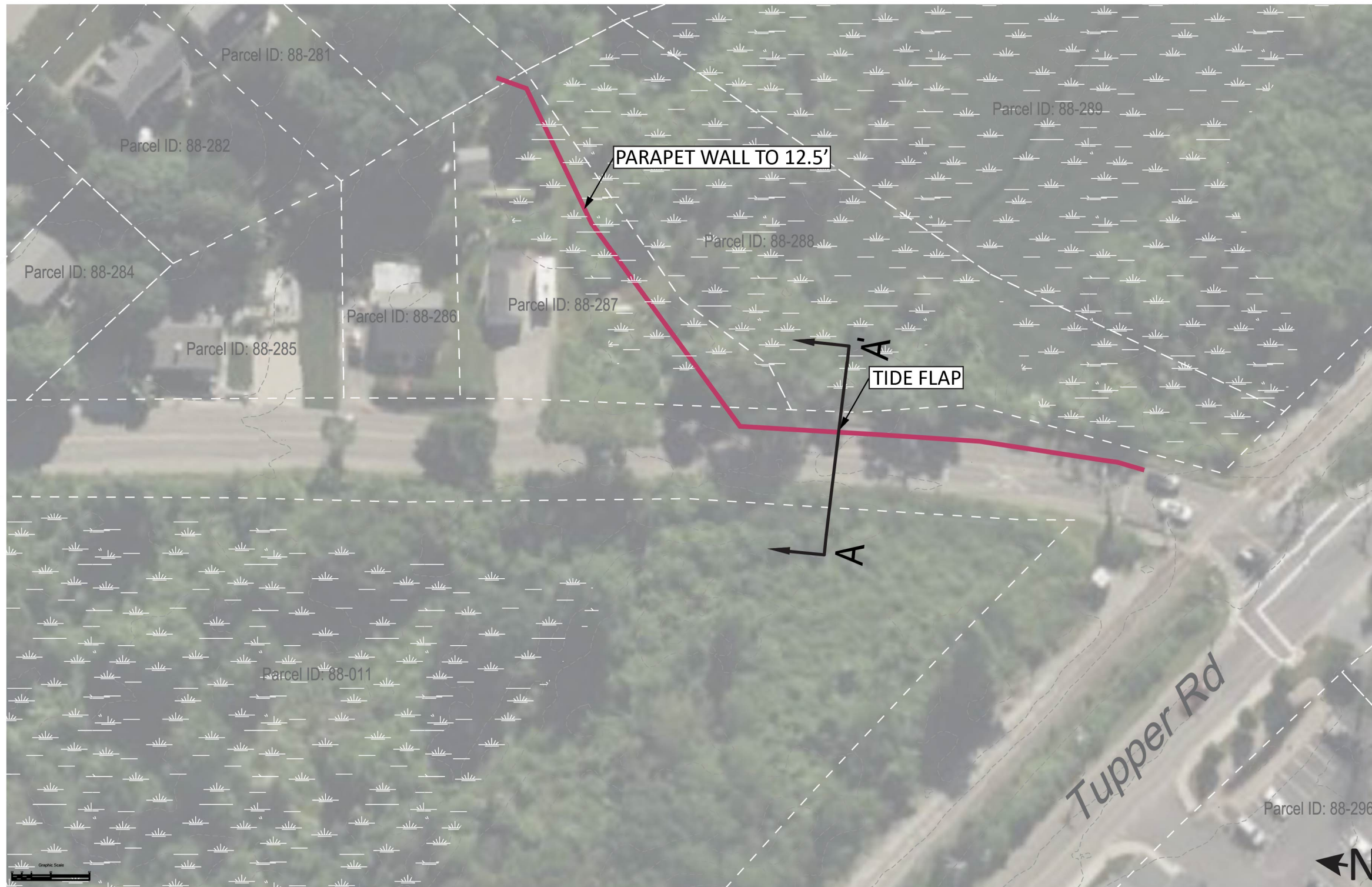


# EXISTING CONDITIONS

Town Neck Road, Sandwich

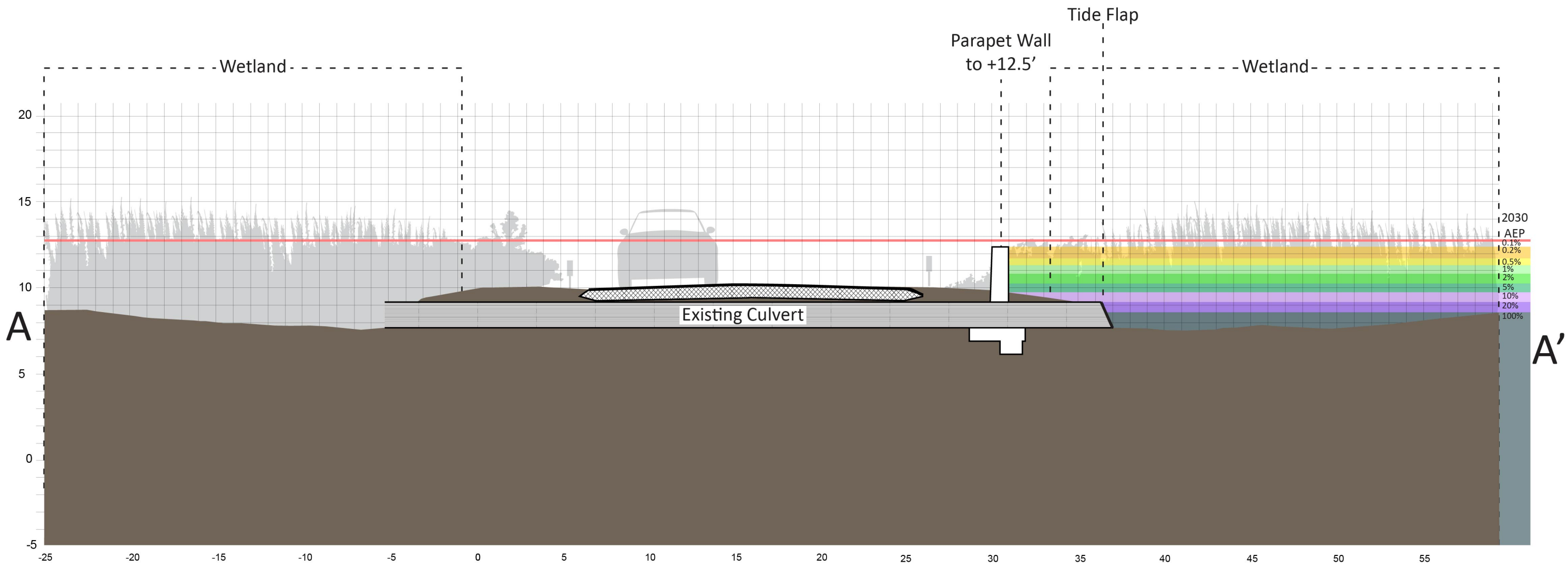


Note: Project overlap with wetland areas, rights of way and property lines is approximate and needs confirmation with a site survey

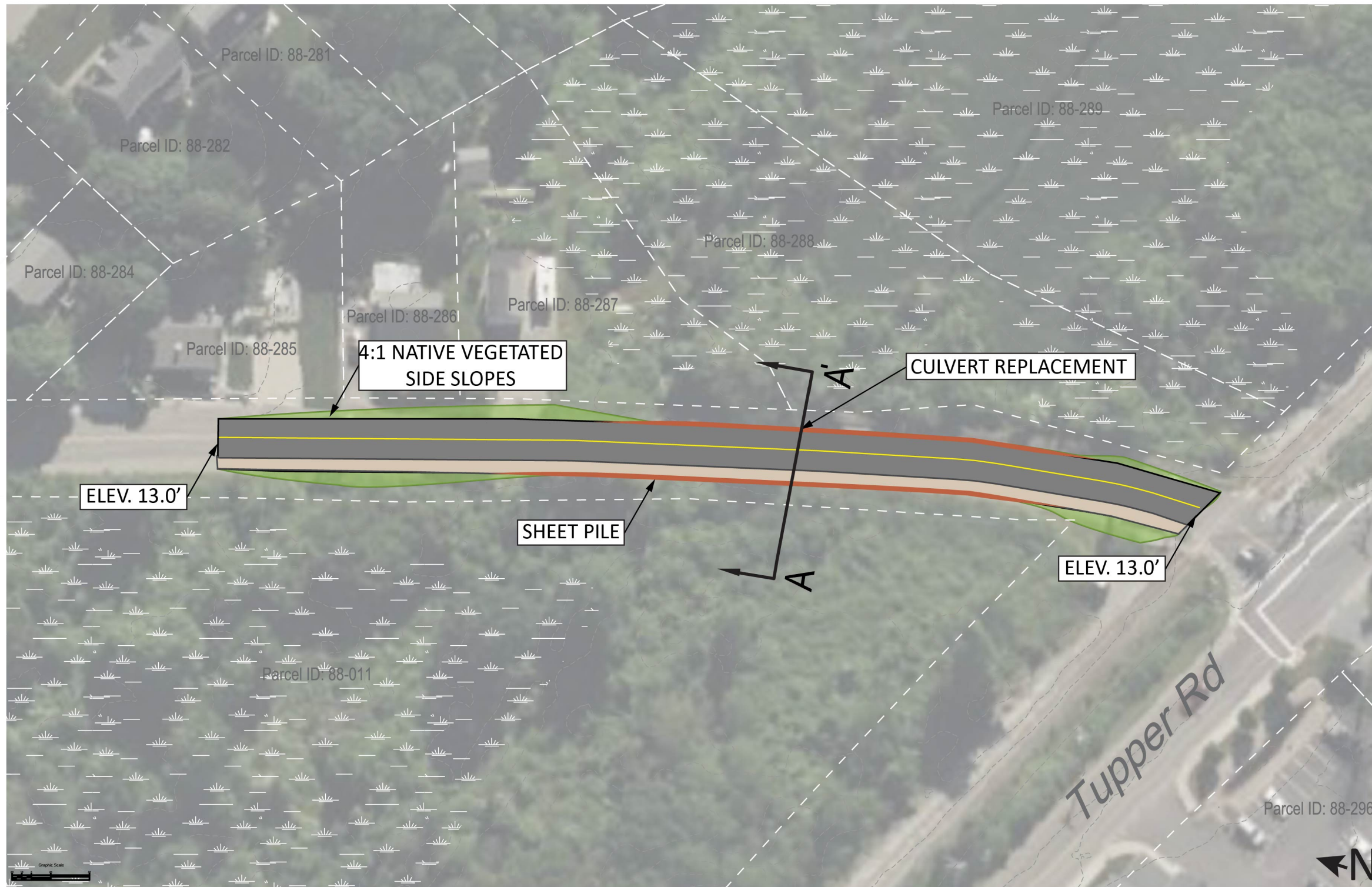


**ALTERNATIVE 1: GRAY**

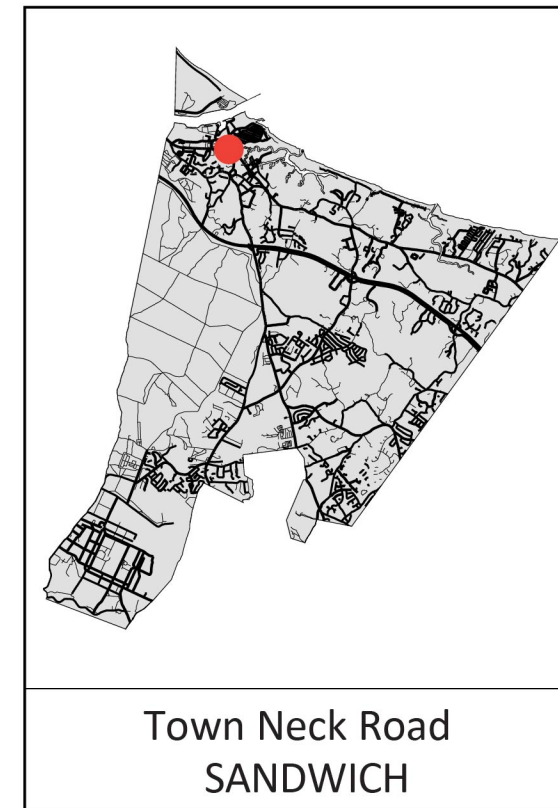
A parapet wall to 12.5 feet is added on the downstream side of the road, and a tide flap is added to the culvert to manage flanking. Collaboration with one property owner is required in order to prevent difficult driveway tie-ins.



**ALTERNATIVE 1: GRAY**  
Town Neck Road, Sandwich

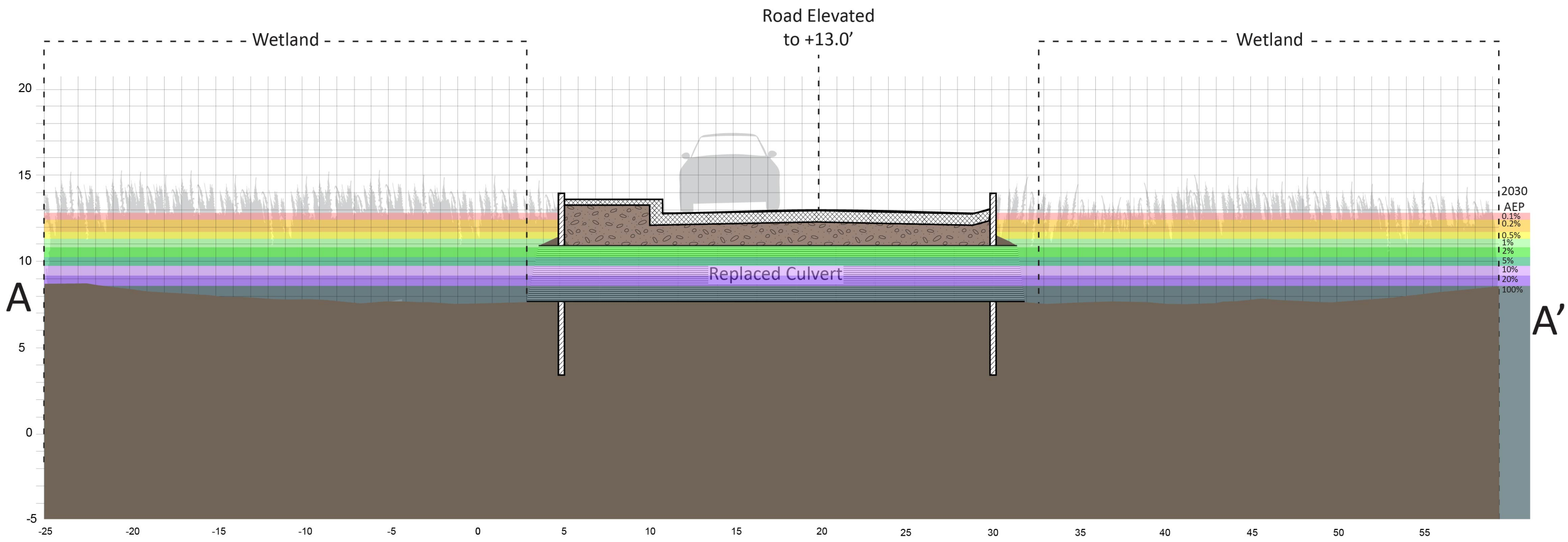


Note: Project overlap with wetland areas, rights of way and property lines is approximate and needs confirmation with a site survey



ALTERNATIVE 2: HYBRID

448 linear feet of town-owned road are elevated to a lowest point of 13.0 feet with sheet pile and 4:1 native vegetated side slopes. The culvert is replaced with a larger culvert.



# TOWN NECK ROAD, SANDWICH

Summary of alternatives

	Description	Critical Elevation	Annual Exceedance Probability			Vulnerable to Tidal Flooding	Impacts to Wetlands	Impacts to Private Property	Estimated Cost*
			2030	2050	2070				
<b>EXISTING</b>	A segment of 20ft wide road with a sidewalk and culvert crossing.	9.7 feet	2%	20%	100%	N/A	N/A	N/A	N/A
<b>ALTERNATIVE 1: GRAY</b>	A parapet wall to 12.5 feet is added on the downstream side of the road, and a tide flap is added to the culvert to manage flanking. Collaboration with one property owner is required.	12.5 feet	0.1%	2%	10%	N/A	Potential Negative	Significant	\$186,000
<b>ALTERNATIVE 2: HYBRID</b>	448 linear feet of town-owned road are elevated to a lowest point of 13.0 feet with sheet pile and 4:1 native vegetated side slopes. The culvert is replaced with a larger culvert.	13.0 feet	0%	1%	10%	N/A	Potential Positive	Minimal	\$316,000

\*Installed material cost +20% contingency. Excludes design, permitting, mobilization, stormwater and wastewater infrastructure, and site controls. Costs based on RSMMeans 2021 cost book and adjusted for inflation and region.