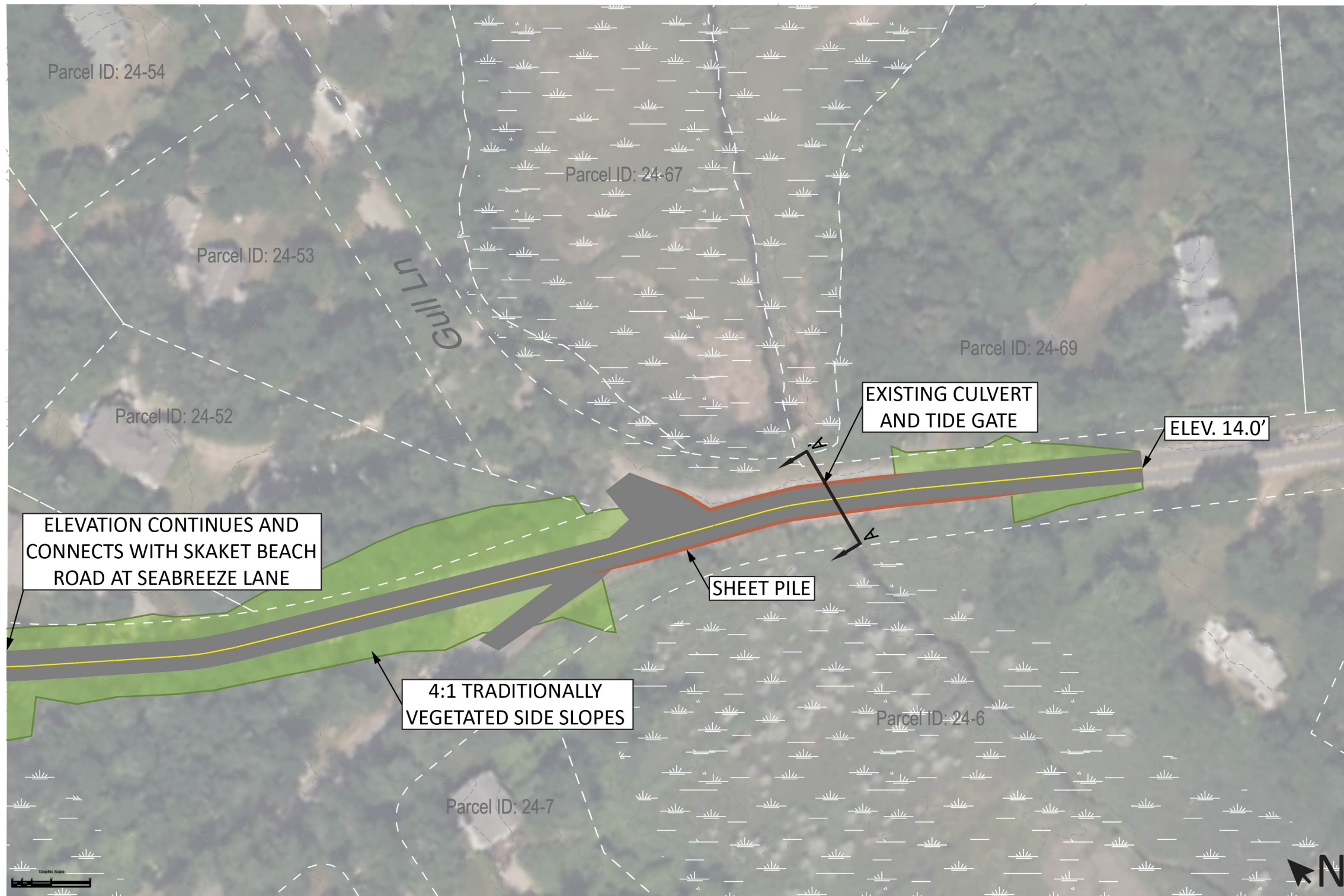
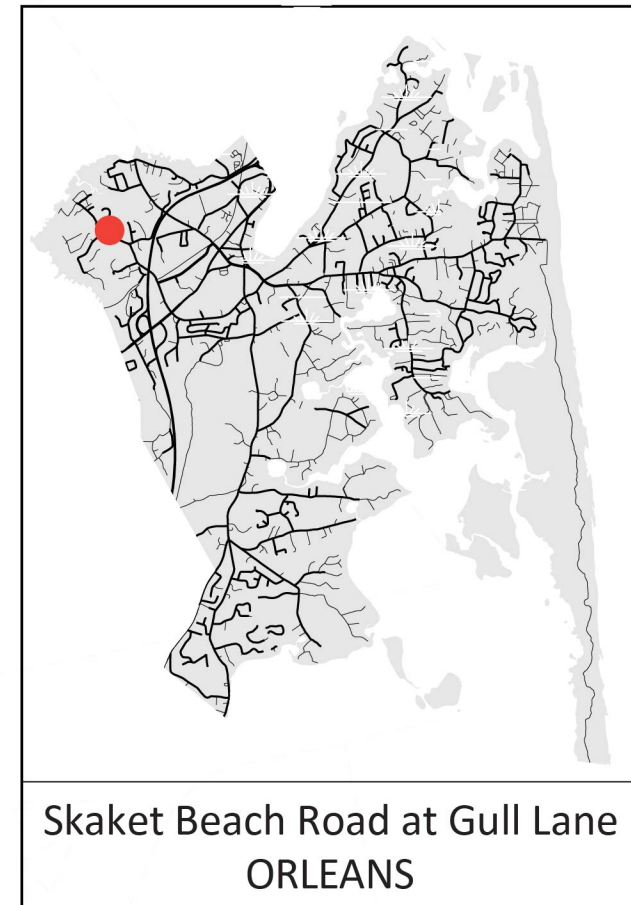


EXISTING CONDITIONS
 Skaket Beach Road at Gull Lane, Orleans

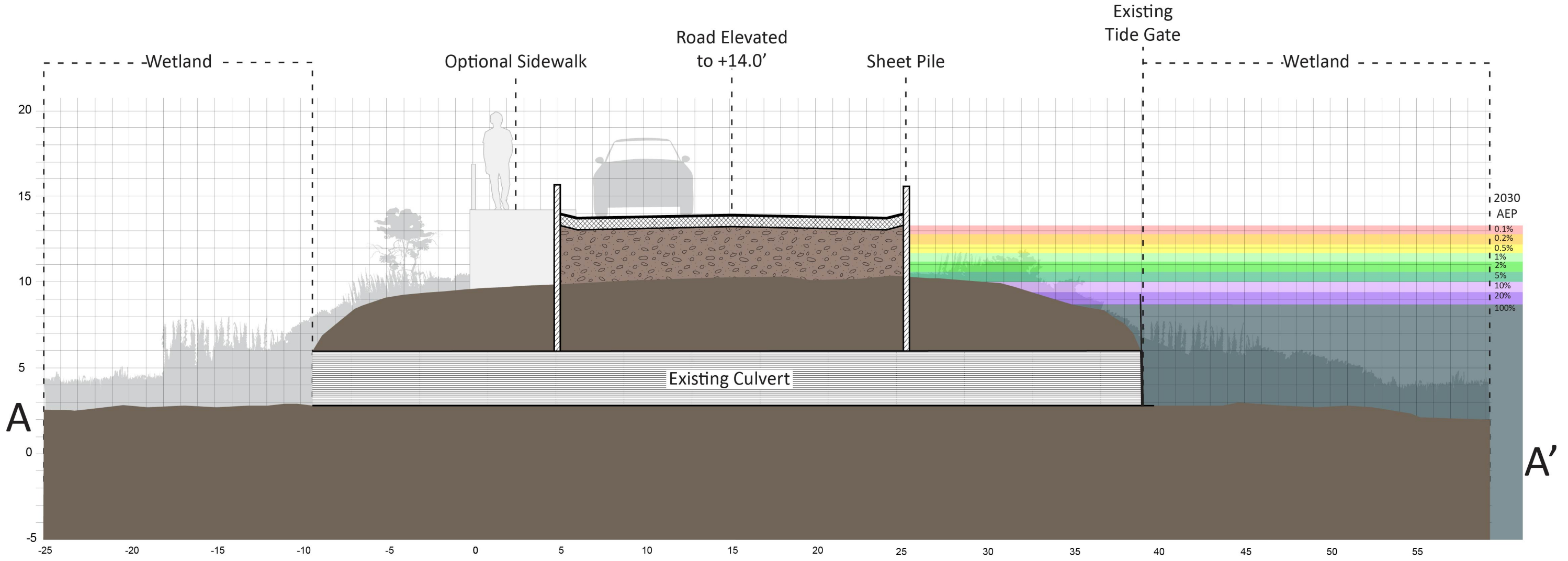


Note: Project overlap with wetland areas, rights of way and property lines is approximate and needs confirmation with a site survey

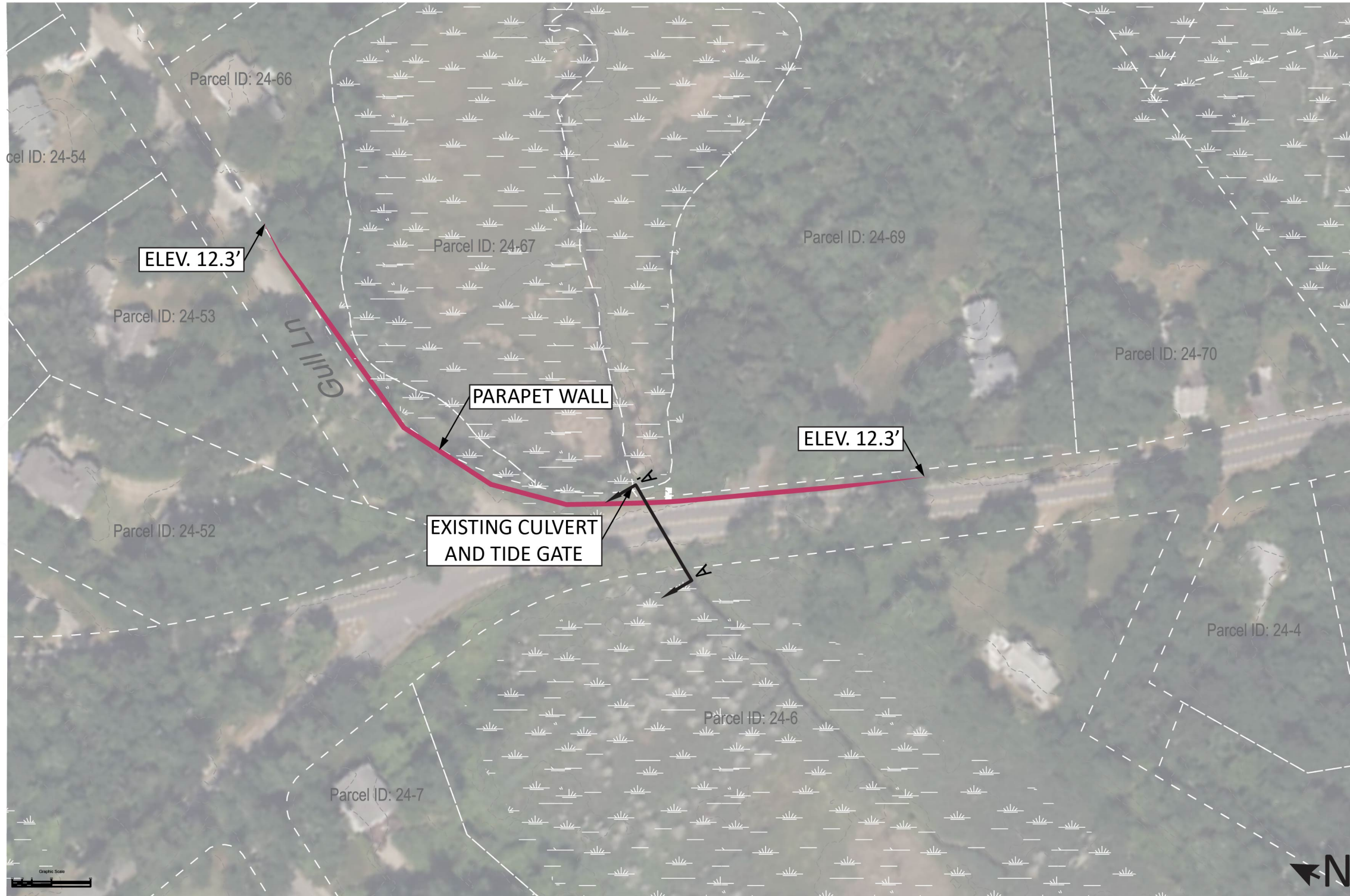


ALTERNATIVE 1: GRAY

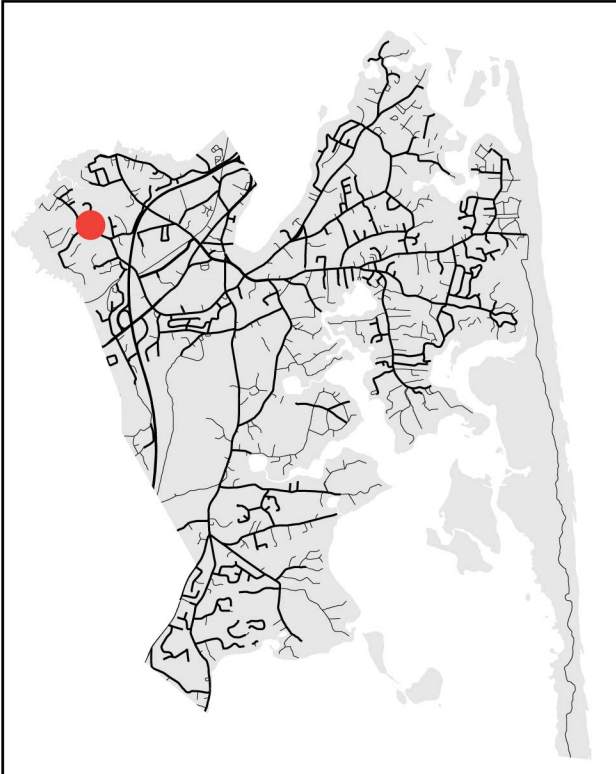
1002 linear feet of town-owned road is elevated to 14.0 feet with 4:1 traditionally vegetated side slopes and sheet pile. This alternative is intended to connect to the corresponding "Gray" alternative for Skaket Beach Road at Seabreeze Lane.



ALTERNATIVE 1: GRAY
 Skaket Beach Road at Gull Lane, Orleans



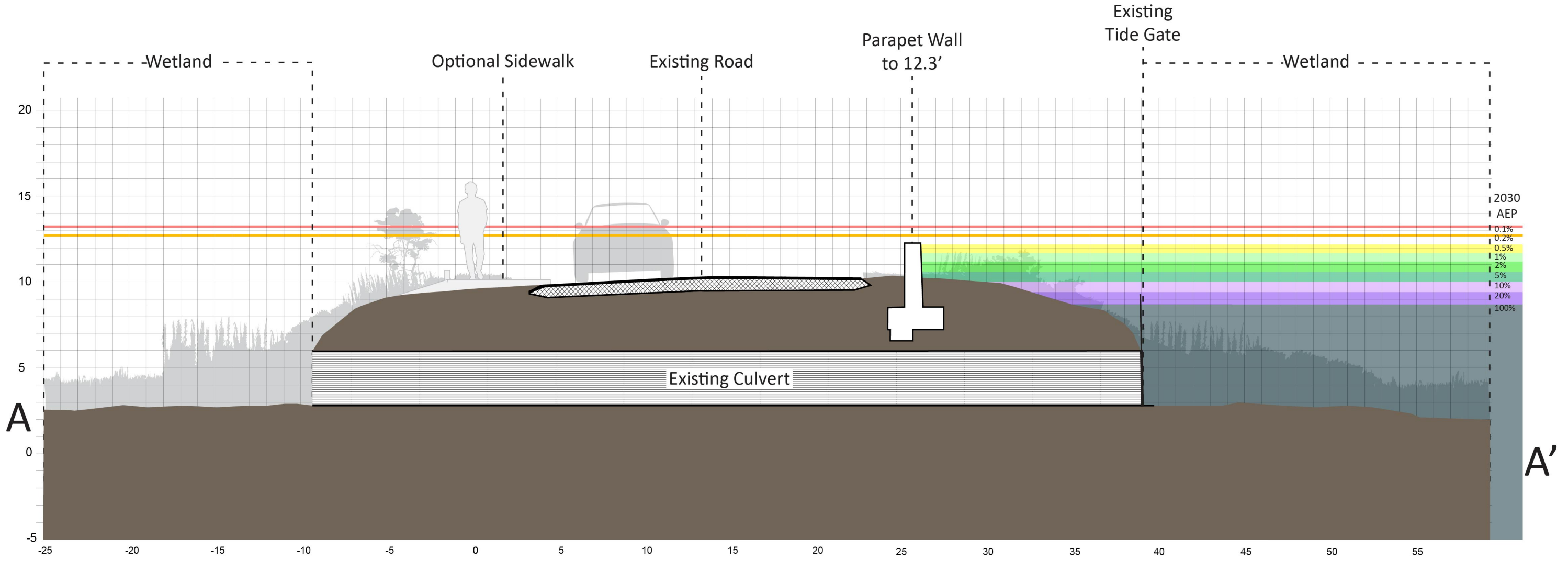
Note: Project overlap with wetland areas, rights of way and property lines is approximate and needs confirmation with a site survey



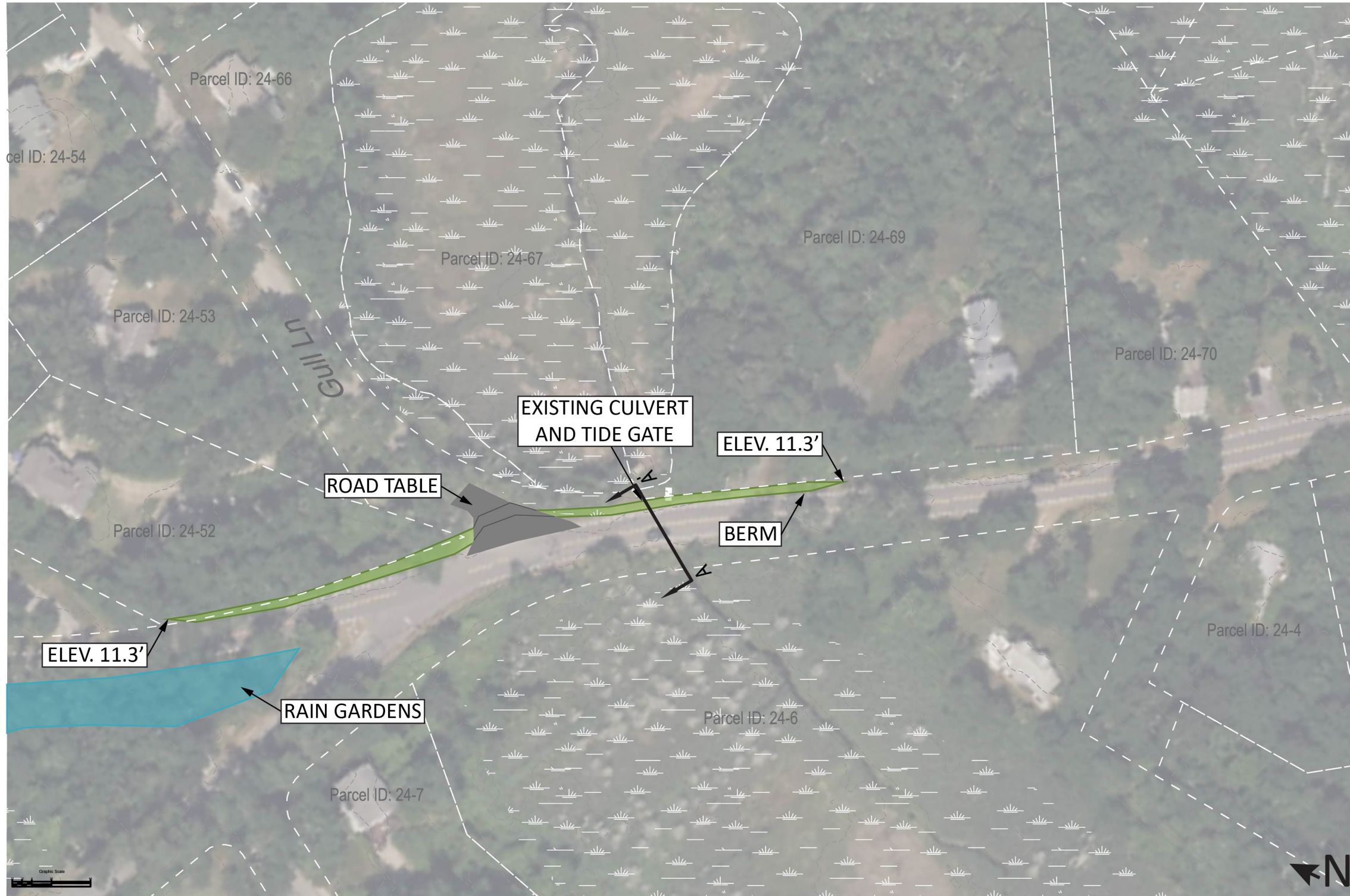
**Skaket Beach Road at Gull Lane
ORLEANS**

ALTERNATIVE 2: HYBRID

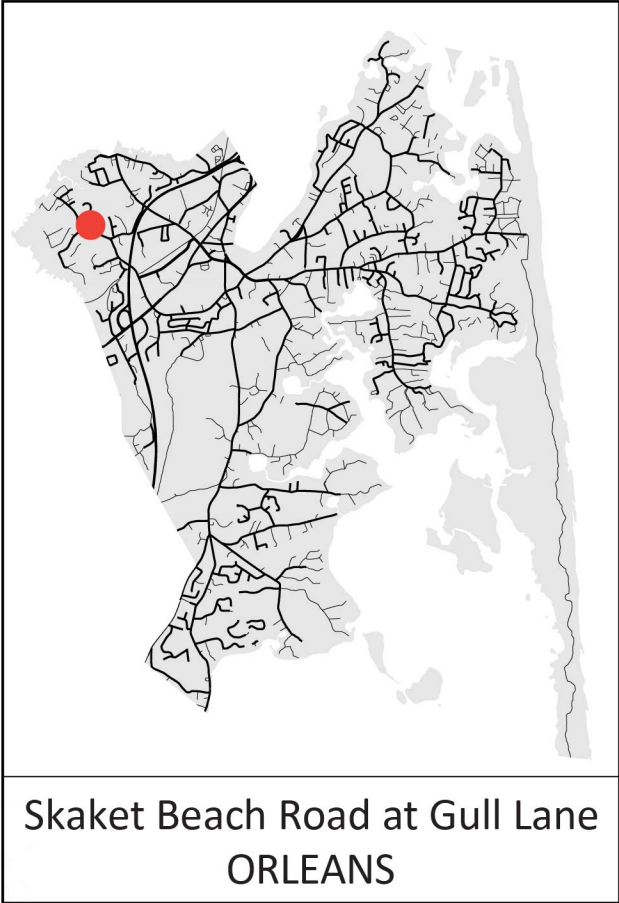
A parapet wall to 12.3 feet is constructed on the seaward side of the road, stretching approximately from the driveway at 108 Skaket Beach Road to the driveway at 9 Gull Lane.



ALTERNATIVE 2: HYBRID
 Skaket Beach Road at Gull Lane, Orleans



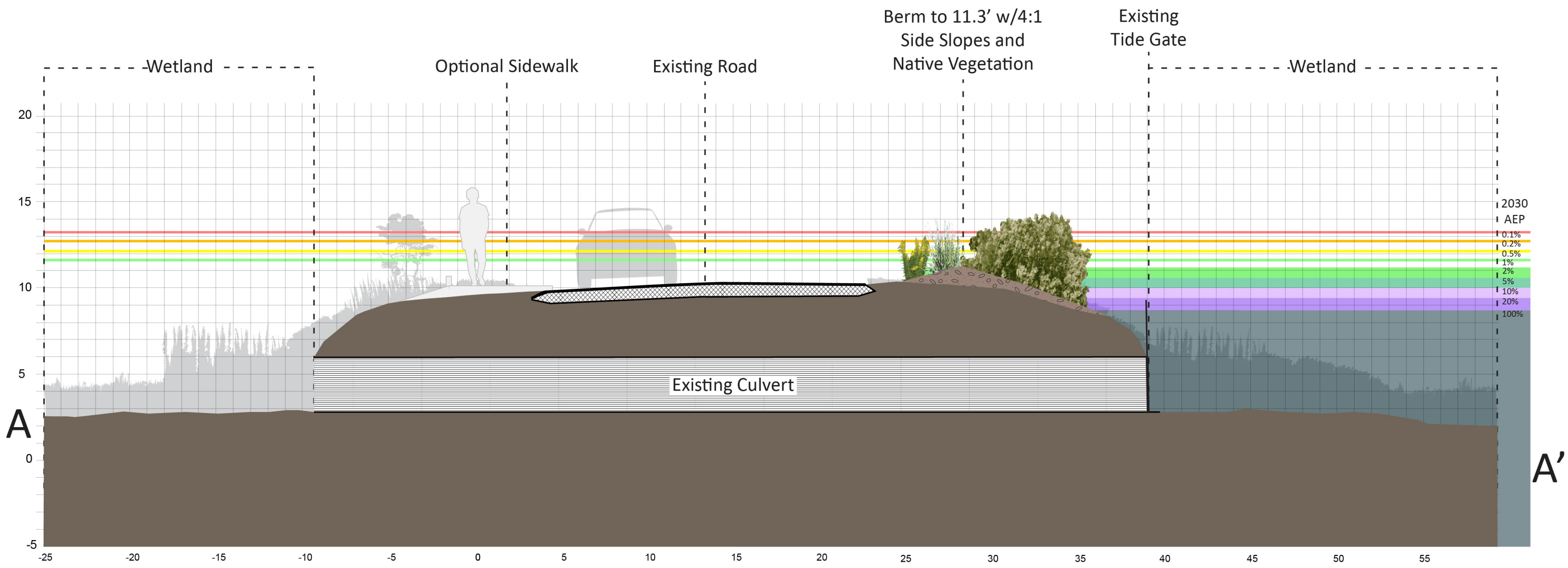
Note: Project overlap with wetland areas, rights of way and property lines is approximate and needs confirmation with a site survey



Skaket Beach Road at Gull Lane
ORLEANS

ALTERNATIVE 3: GREEN

A berm to 11.3 feet is constructed on the seaward side of the road. The entrance to Gull Lane is re-graded to tie in, and the berm is planted with native vegetation.



ALTERNATIVE 3: GREEN

Skaket Beach Road at Gull Lane, Orleans

SKAKET BEACH ROAD at GULL LANE, ORLEANS

Summary of alternatives

	Description	Critical Elevation	Annual Exceedance Probability			Vulnerable to Tidal Flooding	Impacts to Resource Area(s)	Impacts to Private Property	Estimated Cost*
			2030	2050	2070				
EXISTING	A segment of 20 foot wide road with a culvert crossing.	9.9 feet	10%	100%	100%	N/A	N/A	N/A	N/A
ALTERNATIVE 1: GRAY	1002 linear feet of town-owned road is elevated to 14.0 feet with 4:1 traditionally vegetated side slopes and sheet pile. This alternative is intended to connect to the corresponding "Gray" alternative for Skaket Beach Road at Seabreeze Lane.	14.0 feet	0%	0.5%	5%	N/A	Minor	Yes	\$2,040,000
ALTERNATIVE 2: HYBRID	A parapet wall to 12.3 feet is constructed on the seaward side of the road, stretching approximately from the driveway at 108 Skaket Beach Road to the driveway at 9 Gull Lane.	12.3 feet	0.2%	5%	20%	N/A	Minor	Minor	\$247,000
ALTERNATIVE 3: GREEN	A berm to 11.3 feet is constructed on the seaward side of the road. The entrance to Gull Lane is re-graded to tie in, and the berm is planted with native vegetation.	11.3 feet	1%	10%	100%	N/A	Minor	Minor	\$51,000

*2023 installed material cost +40% escalation (through 2029) and 15% contingency. Excludes design, permitting, mobilization, stormwater and wastewater infrastructure, and site controls. Costs based on experienced contractor opinion and MassDOT costing data.