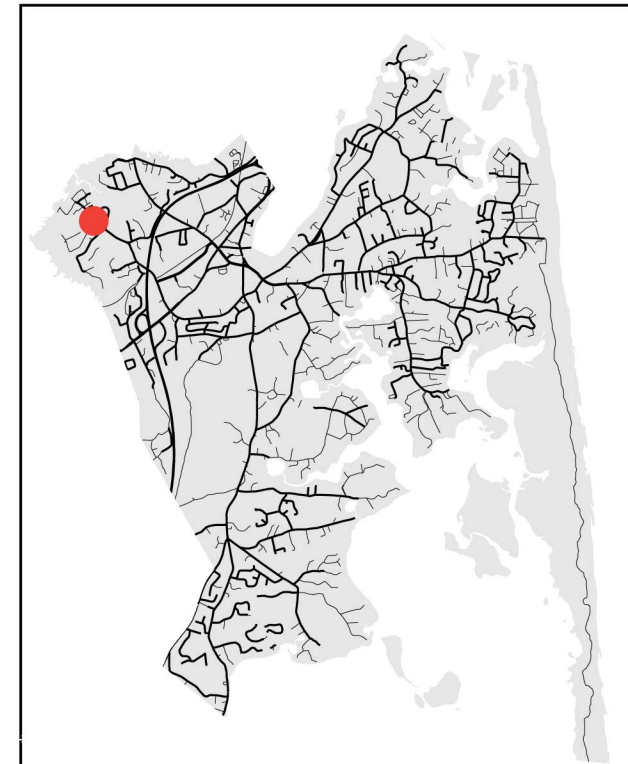


EXISTING CONDITIONS
 Skaket Beach Road at Seabreeze Lane, Orleans

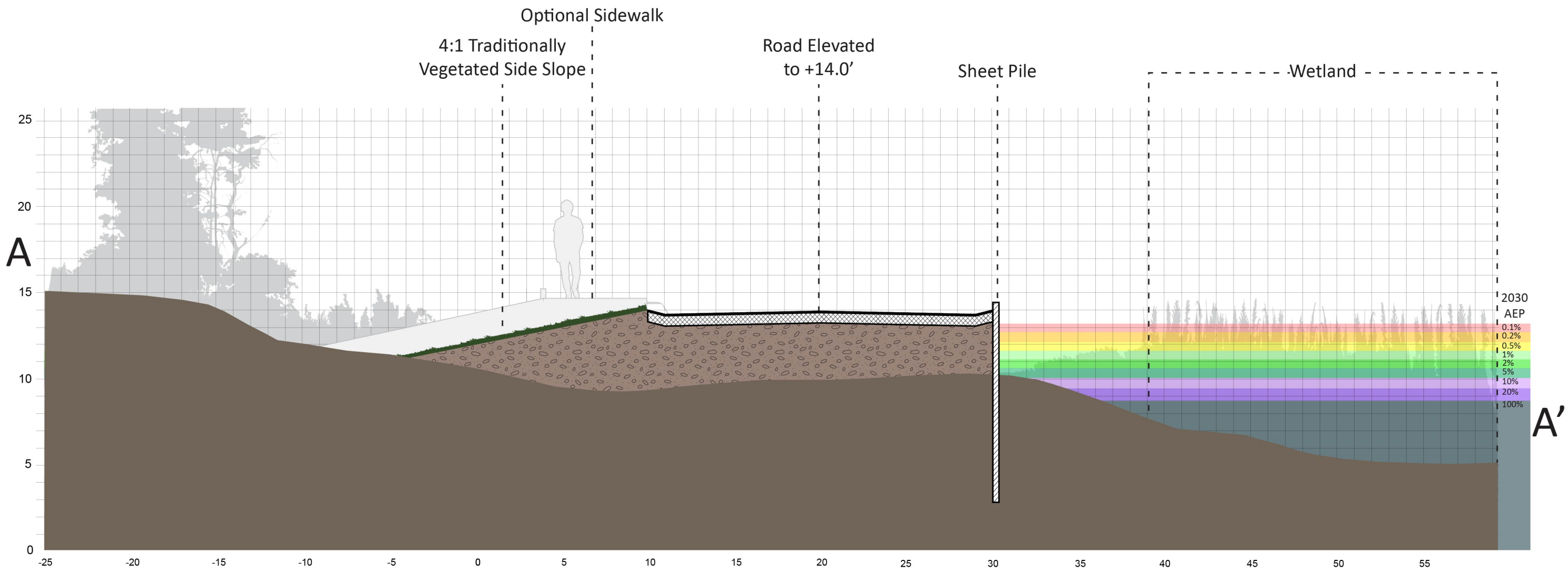


Skaket Beach Road at Seabreeze Lane
ORLEANS

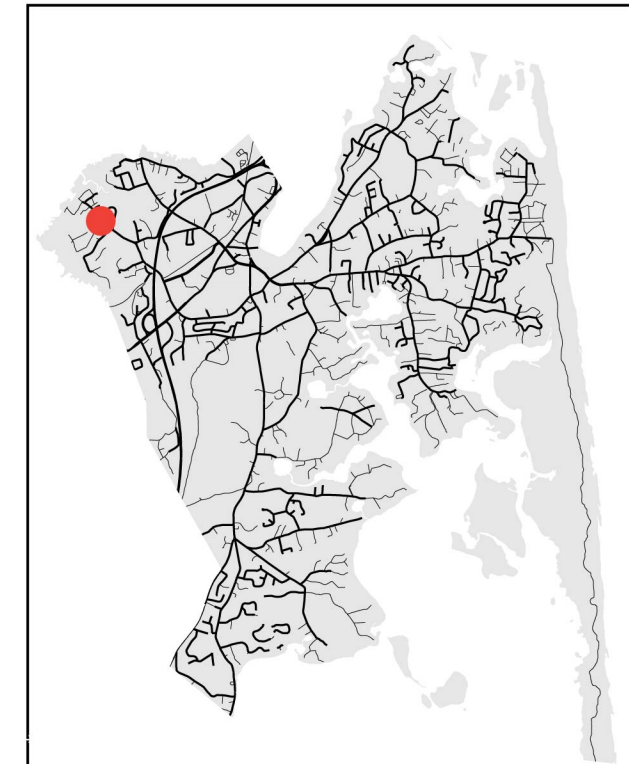
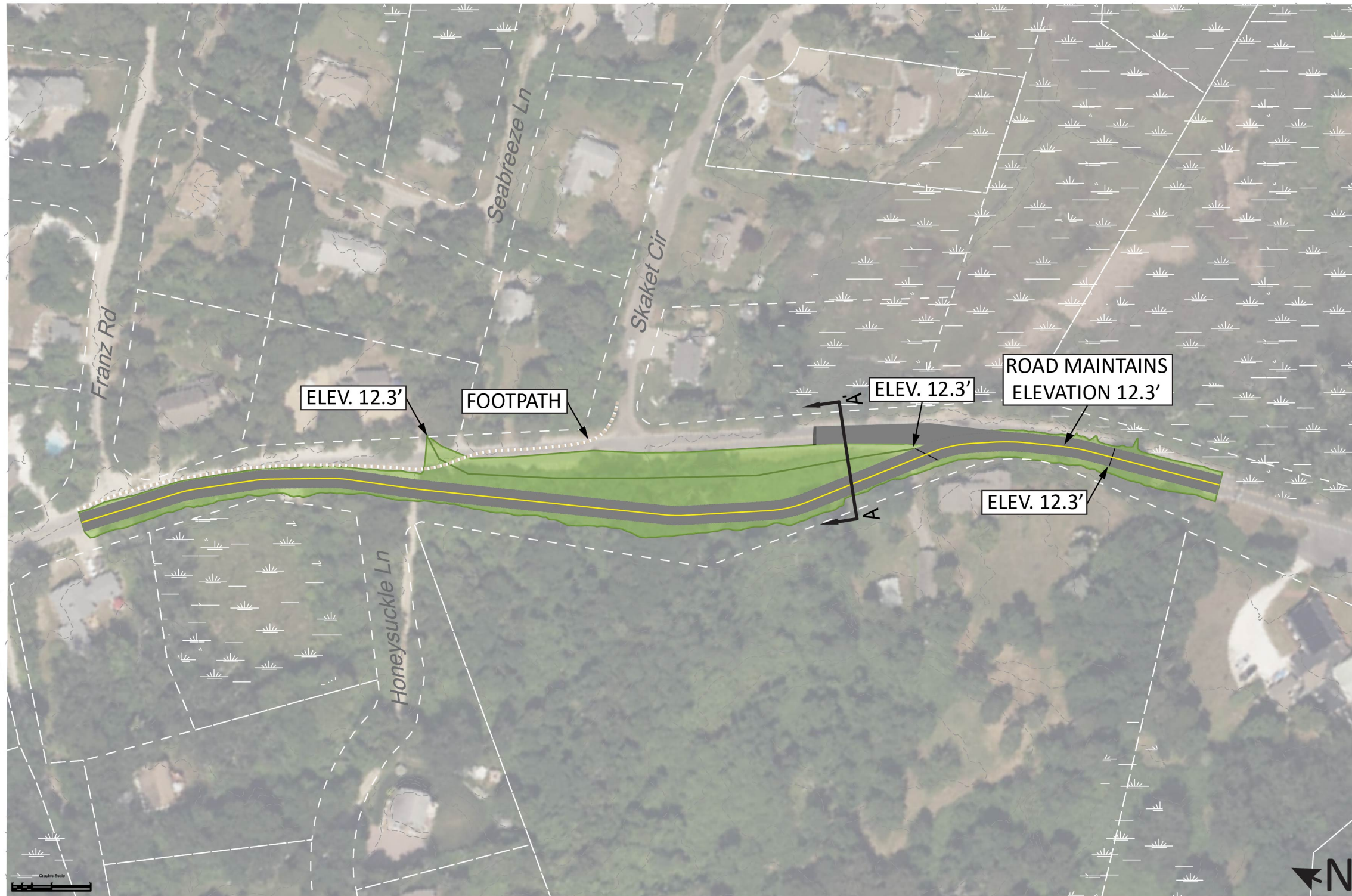
ALTERNATIVE 1: GRAY

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 Gull Lane.

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



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

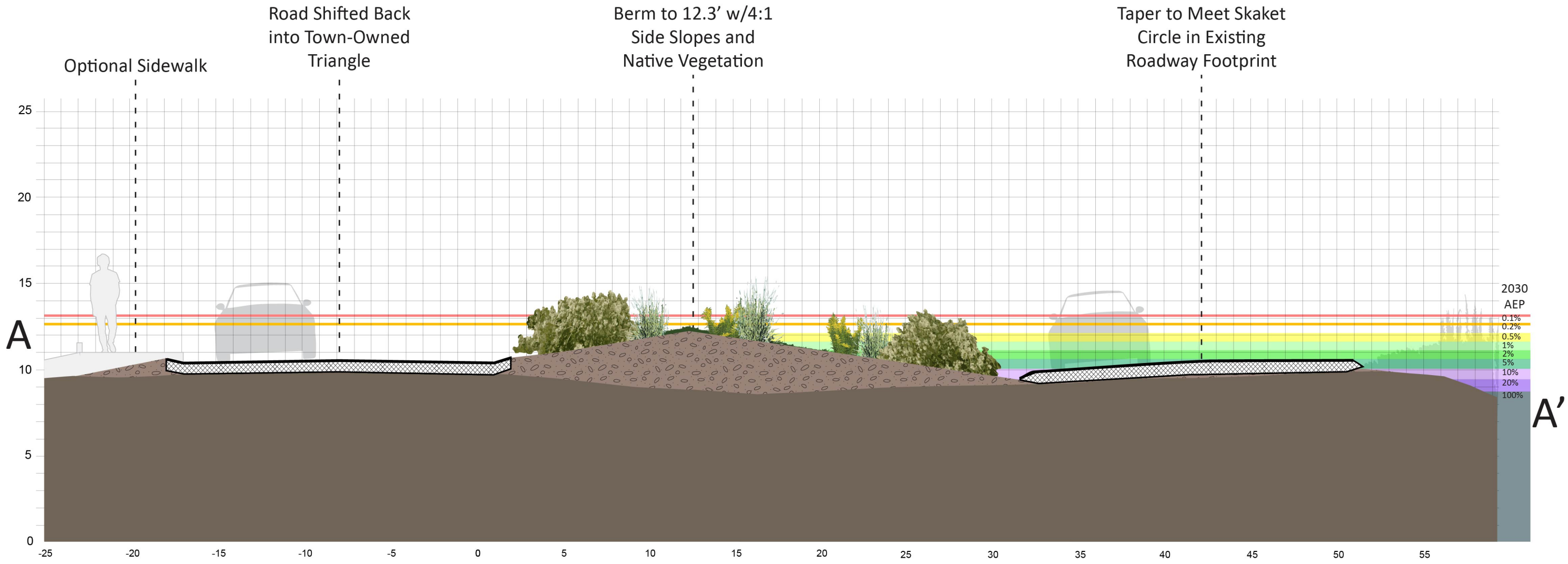


Skaket Beach Road at Seabreeze Lane
ORLEANS

ALTERNATIVE 2: HYBRID

883 feet of road are re-routed into the town-owned triangle, with a side street to allow access to Skaket Circle. A berm with 4:1 side slopes is constructed to 12.3 feet on the seaward side of the road and planted with native vegetation.

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

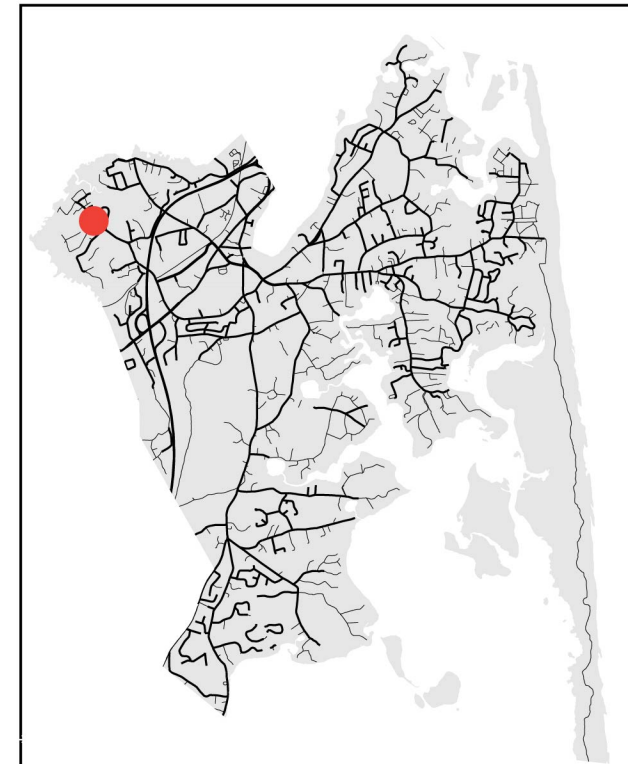


ALTERNATIVE 2: HYBRID

Skaket Beach Road at Seabreeze Lane, Orleans



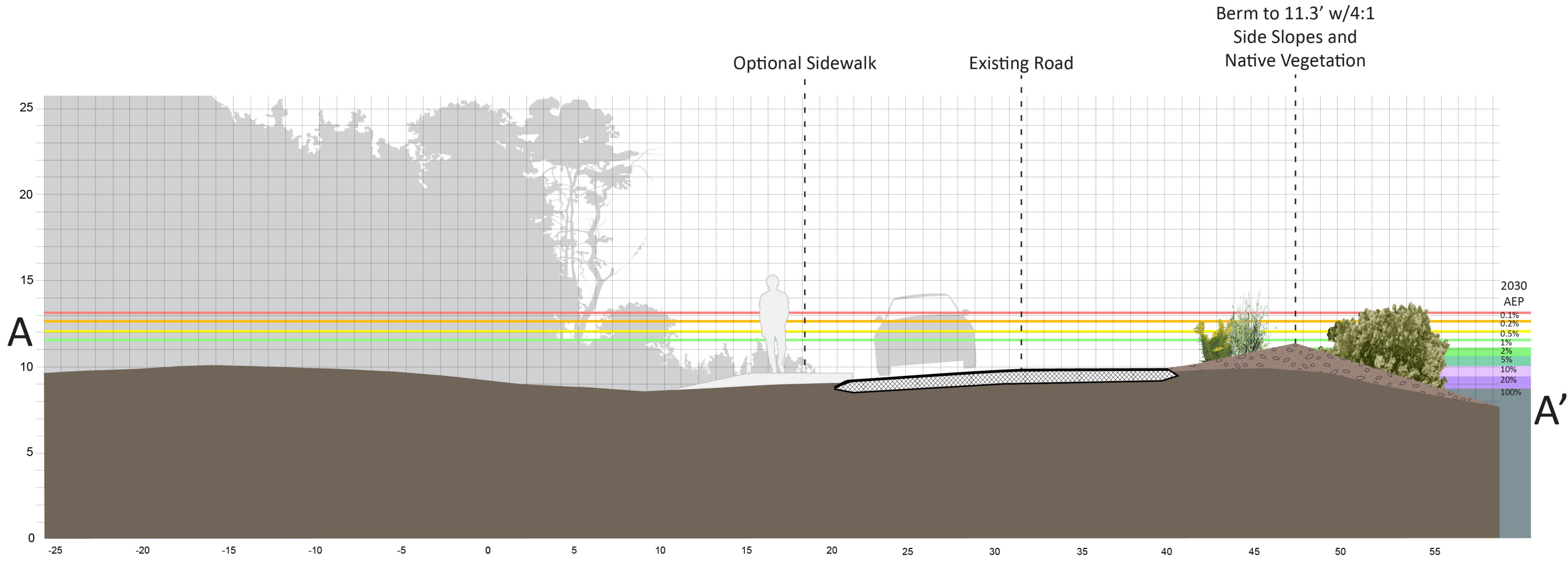
Note: Project overlap with wetland areas, rights of way and property lines is approximate and needs confirmation with a site survey



Skaket Beach Road at Seabreeze Lane
ORLEANS

ALTERNATIVE 3: GREEN

A berm to 11.3 feet planted with native vegetation is constructed on the seaward side of the road, tying into Skaket Circle with a road table. The town-owned triangle is used for rain gardens and/or public open space.



ALTERNATIVE 3: GREEN

Skaket Beach Road at Seabreeze Lane, Orleans

SKAKET BEACH ROAD at SEABREEZE LANE, ORLEANS

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				
EXISTING	A segment of 20 foot wide road adjacent to a wetland.	9.4 feet	20%	100%	100%	2070	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 Gull Lane.	14.0 feet	0%	0.5%	5%	N/A	Minor	Yes	\$444,000
ALTERNATIVE 2: HYBRID	A berm to 12.3 feet is constructed on the seaward side of the road. 883 feet of road are realigned into the town-owned parcel and the entrance to Skaket Circle is re-routed to allow access.	12.3 feet	0.2%	5%	20%	N/A	Minor	Minor	\$997,000
ALTERNATIVE 3: GREEN	A berm to 11.3 feet is constructed on the seaward side of the road. Rain gardens manage stormwater in the town-owned triangle, and the berm is planted with native vegetation.	11.3 feet	1%	10%	100%	N/A	Possible Positive	Minor	\$55,000

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