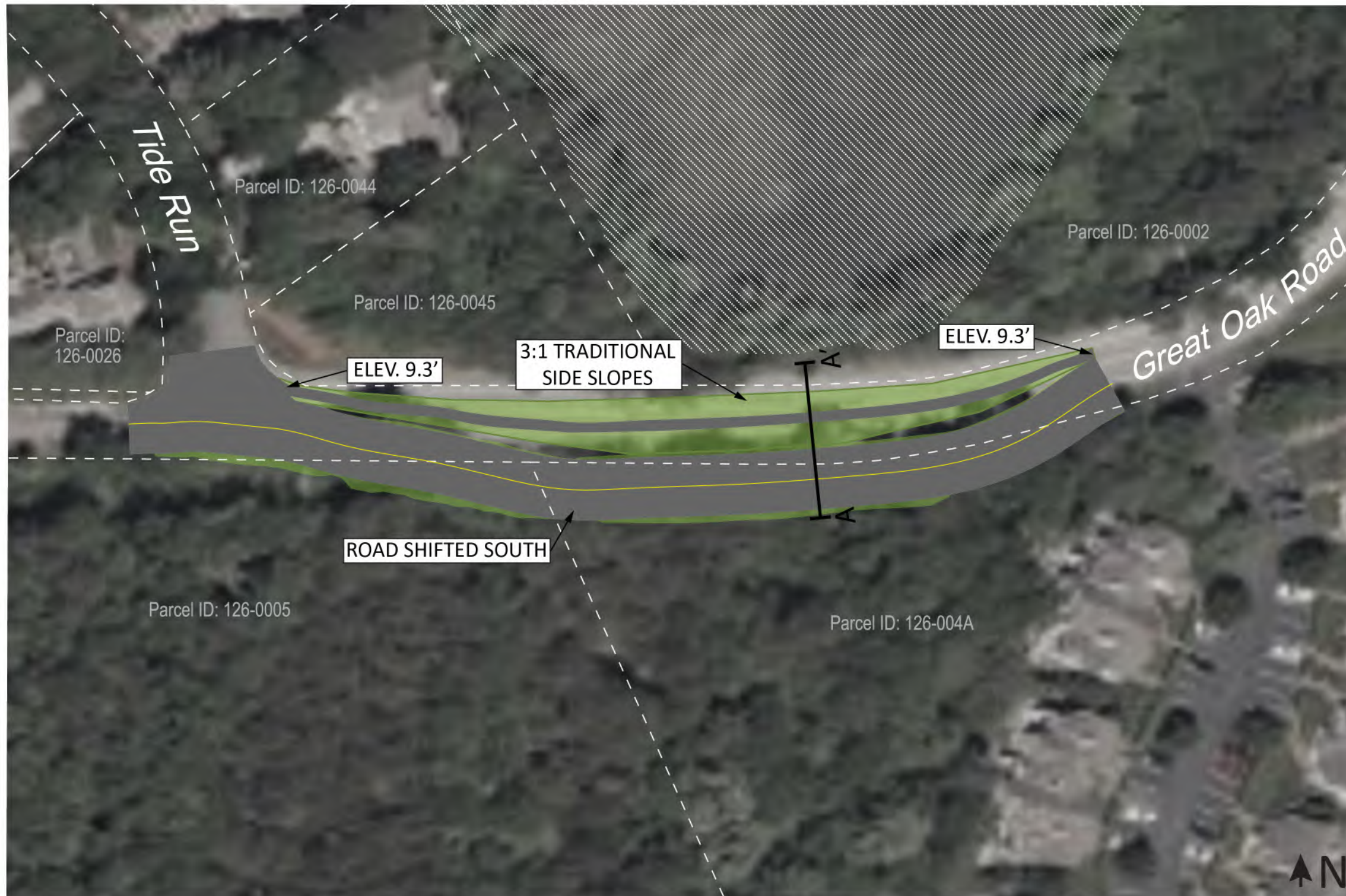


## EXISTING CONDITIONS

Great Oak Road, Mashpee





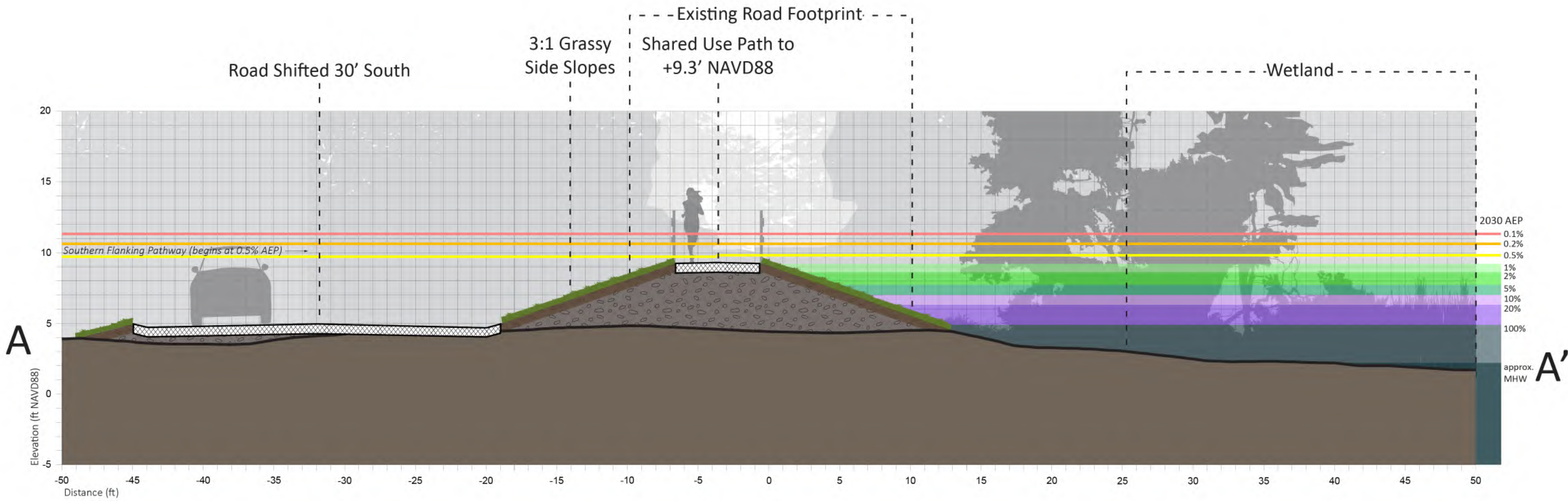
Note: Project overlap with wetland areas, rights of way and property lines is approximate and needs confirmation with a site survey



#### ALTERNATIVE 1: GRAY

532 linear feet of town-owned road are shifted approximately 30 feet to the south to allow an elevated shared use path to be built. The path maintains an elevation of 9.3 feet NAVD88 with 3:1 traditionally vegetated side slopes. At the lowest point of the road, the path is 4.5 feet tall.





# ALTERNATIVE 1: GRAY

Great Oak Road, Mashpee





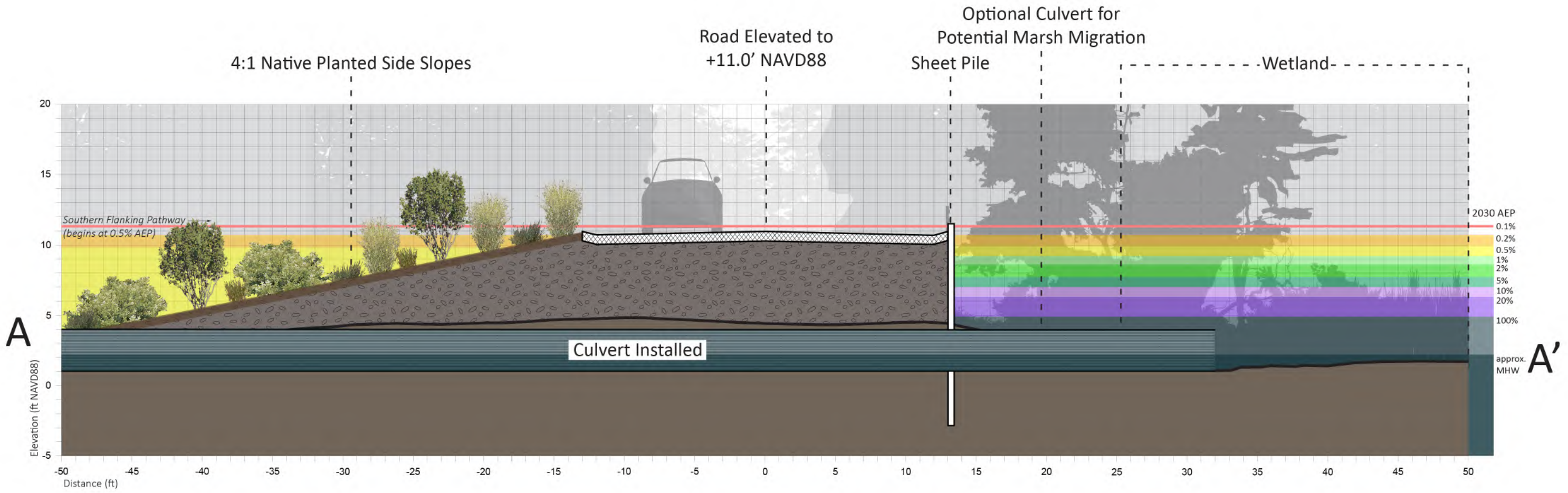
Note: Project overlap with wetland areas, rights of way and property lines is approximate and needs confirmation with a site survey



#### ALTERNATIVE 2: HYBRID

435 linear feet of town-owned road are elevated to 11.0 feet NAVD88 using sheet pile and 4:1 native planted side slopes. A culvert can be added at the low point of the road to mitigate stormwater buildup on the south side of the road and allow for future marsh migration.





**ALTERNATIVE 2: HYBRID**  
Great Oak Road, Mashpee

# GREAT OAK ROAD, MASHPEE

Summary of alternatives

	Description	Critical Elevation (NAVD88)	Annual Exceedance Probability			Vulnerable to Tidal Flooding†	Permitability Concerns	Impacts to Private Property	Estimated Cost*
			2030	2050	2070				
<b>EXISTING</b>	A segment of 26 foot wide road bordering a wetland.	4.9 feet	20%	100%	100%	No	N/A	N/A	N/A
<b>ALTERNATIVE 1: GRAY</b>	532 linear feet of town-owned road are shifted approximately 30 feet to the south to allow an elevated shared use path to be built. The path maintains an elevation of 9.3 feet NAVD88 with 3:1 traditionally vegetated side slopes. At the lowest point of the road, the path is 4.5 feet tall.	9.3 feet	0.5%	10%	20%	No	Located in an ACEC, possible wetland impacts	Extensive	\$208,000
<b>ALTERNATIVE 2: HYBRID</b>	435 linear feet of town-owned road are elevated to 11.0 feet NAVD88 using sheet pile and 4:1 native planted side slopes. A culvert can be added at the low point of the road to mitigate stormwater buildup on the south side of the road and allow for future marsh migration.	11.0 feet	0.1%	2%	10%	No	Located in an ACEC, possible wetland impacts	Minimal	\$608,000 (+\$146,000 for culvert)

\*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.

†Future tidal datums are approximate.