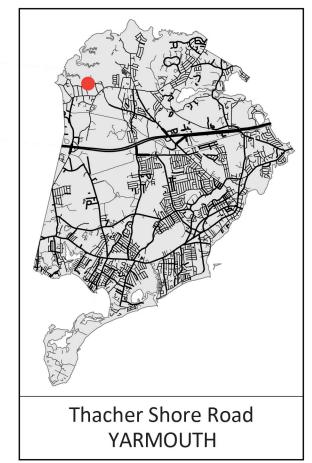


### **EXISTING CONDITIONS**

Thacher Shore Road, Yarmouth



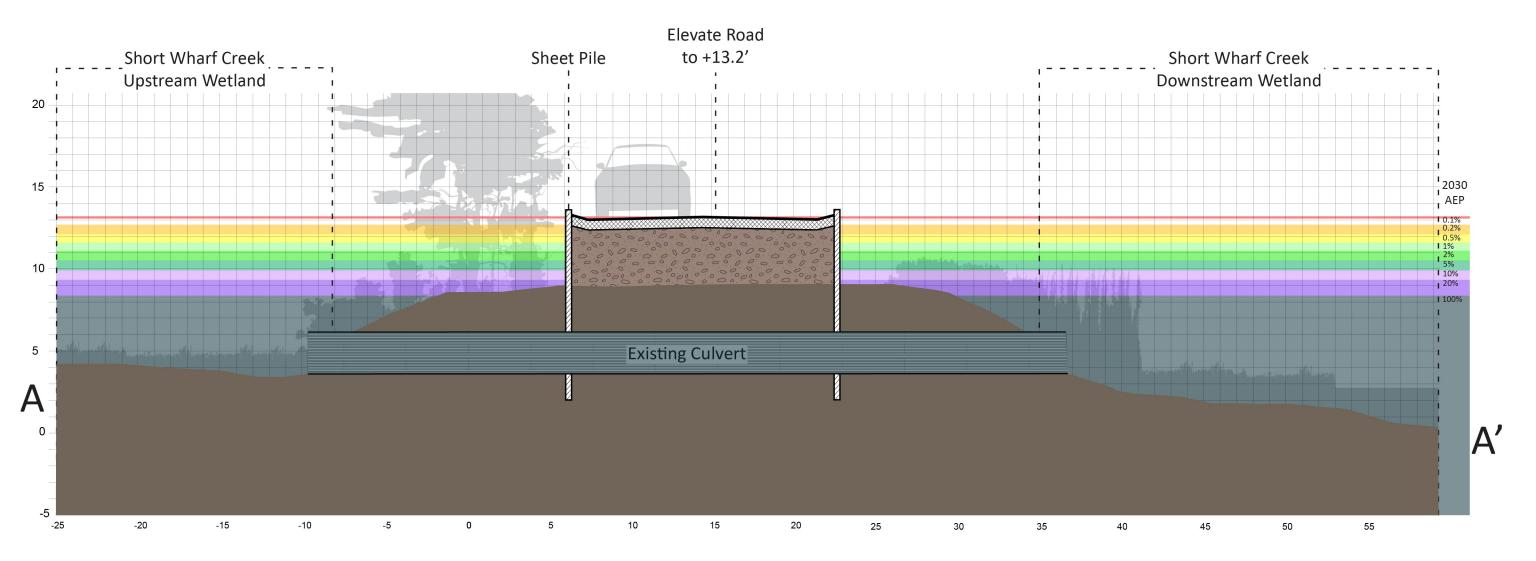




**ALTERNATIVE 1: GRAY** 

860 feet of town-owned road are elevated to 13.2 feet using sheet pile and 4:1 traditionally vegetated side slopes.

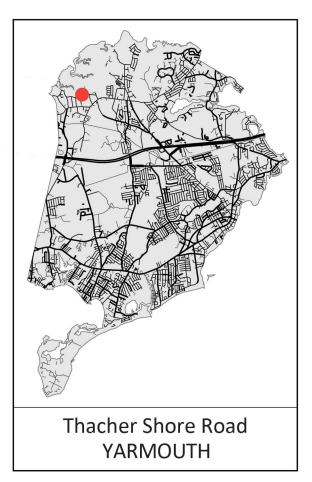




# ALTERNATIVE 1: GRAY Thacher Shore Road, Yarmouth



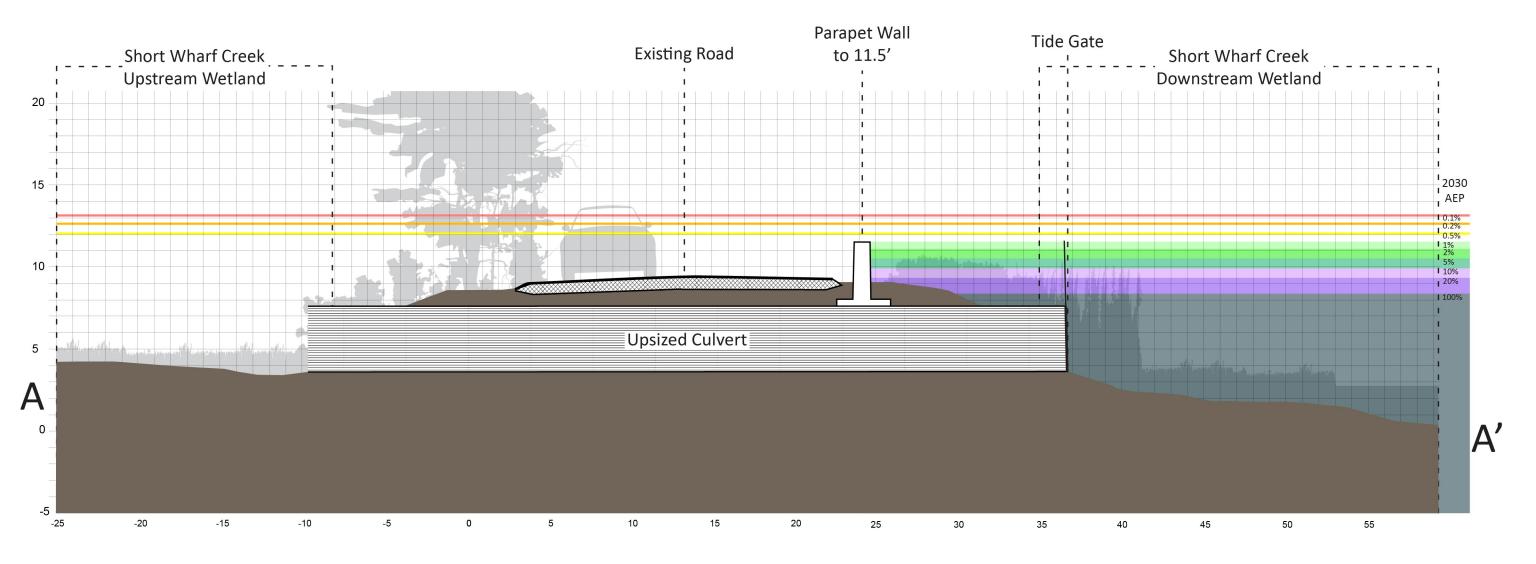




**ALTERNATIVE 2: HYBRID** 

A parapet wall to 11.5 feet is added on the seaward side of the road. The culvert is replaced with a larger culvert, and a tide gate is added to manage flanking.





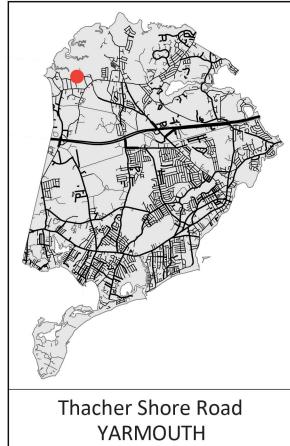
## **ALTERNATIVE 2: HYBRID**

Thacher Shore Road, Yarmouth



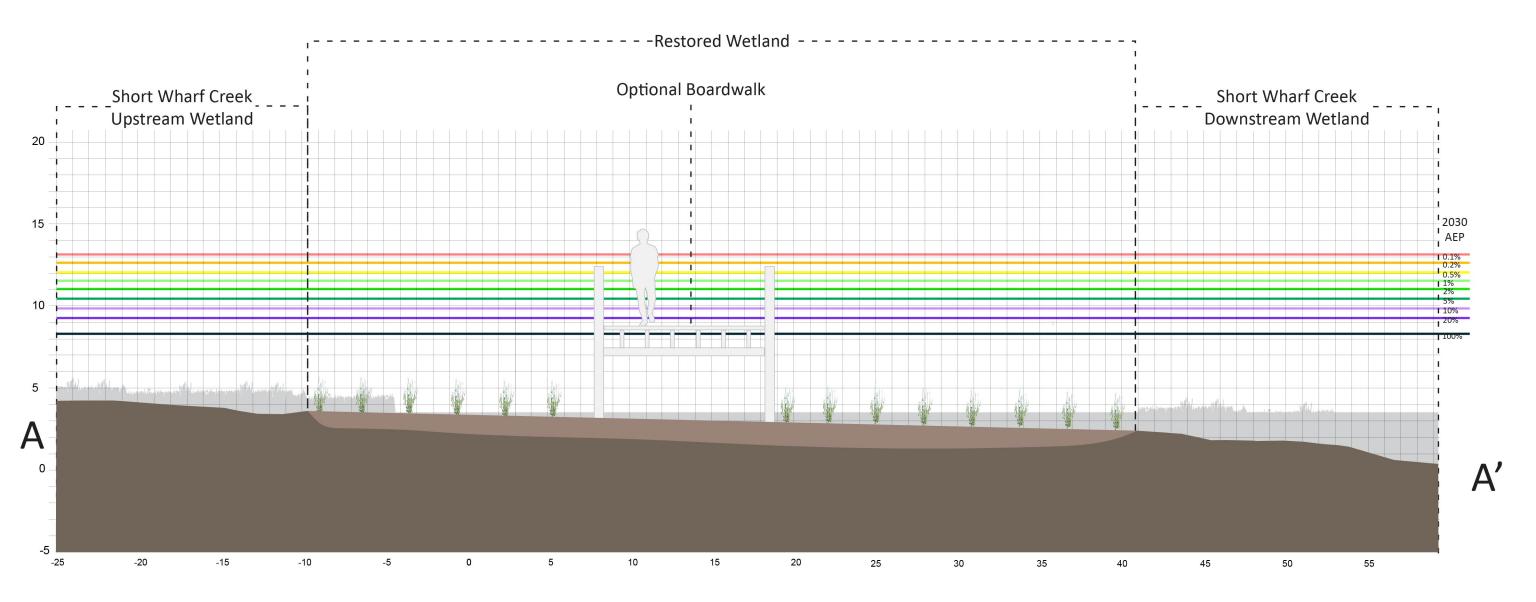






#### **ALTERNATIVE 3: GREEN**

200 linear feet of town-owned road are removed, and the road bed is excavated. The soil is replaced and native wetland plants are installed. A boardwalk could be installed to preserve the pedestrian connection. An overlook, kayak launch, and other recreational amenities could also be added.



### **ALTERNATIVE 3: GREEN**

Thacher Shore Road, Yarmouth



# THACHER SHORE ROAD, YARMOUTH

Summary of alternatives

		Critical Annual Exceedance Probability		Vulnerable to Impa	Impacts to	Impacts to	Estimated		
	Description	Elevation	2030	2050	2070	Tidal Flooding	Wetlands	Private Property	Cost*
EXISTING	A segment of 20 foot wide road with a culvert crossing.	8.8 feet	20%	100%	100%	2070	N/A	N/A	N/A
ALTERNATIVE 1: GRAY	860 linear feet of town-owned road are elevated to 13.2 feet using sheet pile and 4:1 traditionally vegetated side slopes.	13.2 feet	0%	1%	5%	N/A	N/A	Yes	\$297,000
ALTERNATIVE 2: HYBRID	A parapet wall to 11.5 feet is added on the seaward side of the road. The culvert is replaced with a larger culvert, and a tide gate is added to manage flanking.	11.5 feet	1%	5%	20%	N/A	Possible Positive	Yes	\$251,000
ALTERNATIVE 3: GREEN	200 linear feet of town-owned road are removed, and the road bed is excavated. The soil is replaced and native wetland plants are installed. A boardwalk, overlook, and other recreational amenities could be added.	N/A	0%	0%	0%	N/A	Positive	N/A	\$94,000

<sup>\*</sup>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.