

GEI



Consultants

Fitzpatrick Way & Nantasket Ave Full Condition Survey and Study

January 2024

Seawall Study

Purpose and Scope

Develop a comprehensive long-term plan for rehabilitation and upgrade

Scope

- Review historical information
- Topographic survey
- Condition survey (Inspection)
- Wave analysis
- Develop Short term and Long term alternatives for repairs and upgrades
- Study performed 2019



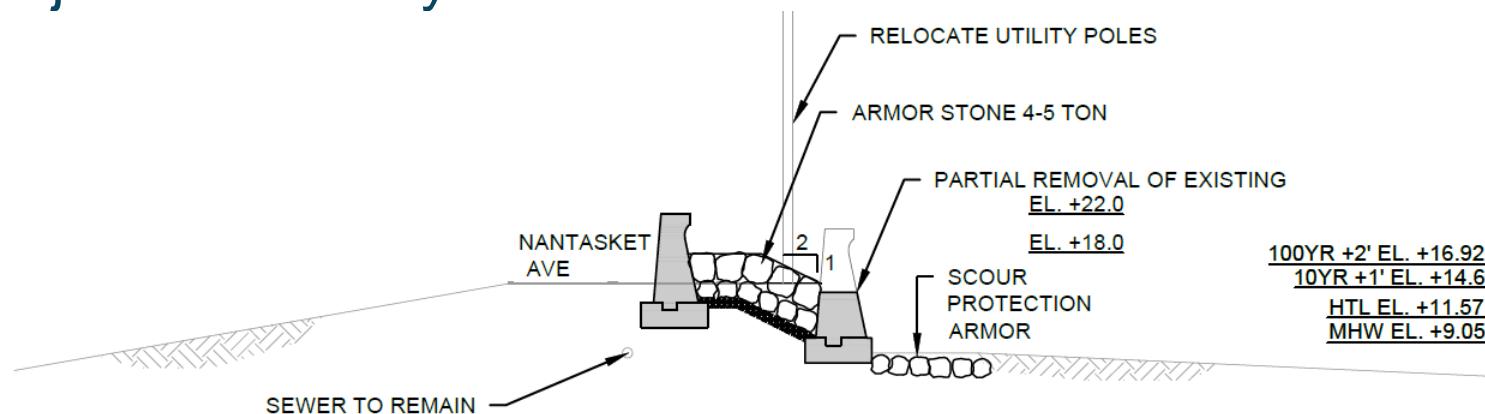
EXTENTS OF STUDY

Nantasket Avenue Seawall
Allerton Lagoon
Allerton Harbor



Repair Options

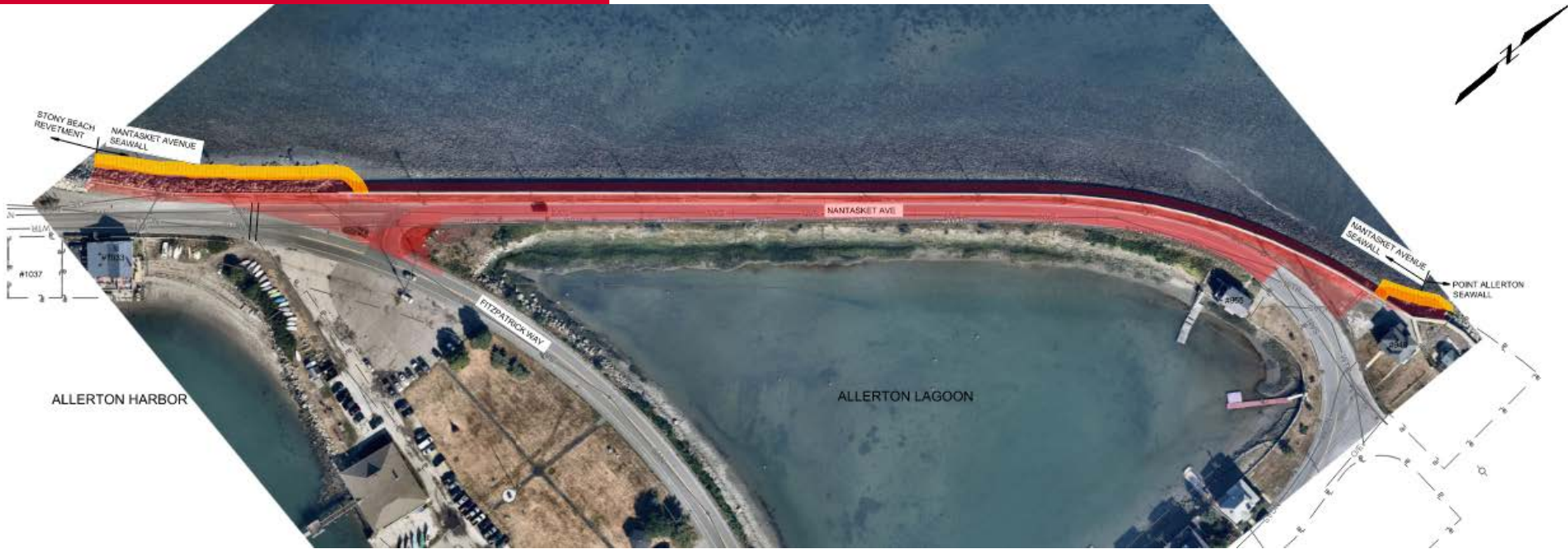
- Developed range of alternatives for each portion of shoreline
- Nantasket Avenue Seawall identified as highest priority project from study



- Top elevation based on limiting erosion behind wall during 100yr + 3 ft storm
 - Protects roadway and utilities
- Partial demolition of existing wall
- Construct new seawall and revetment behind existing wall



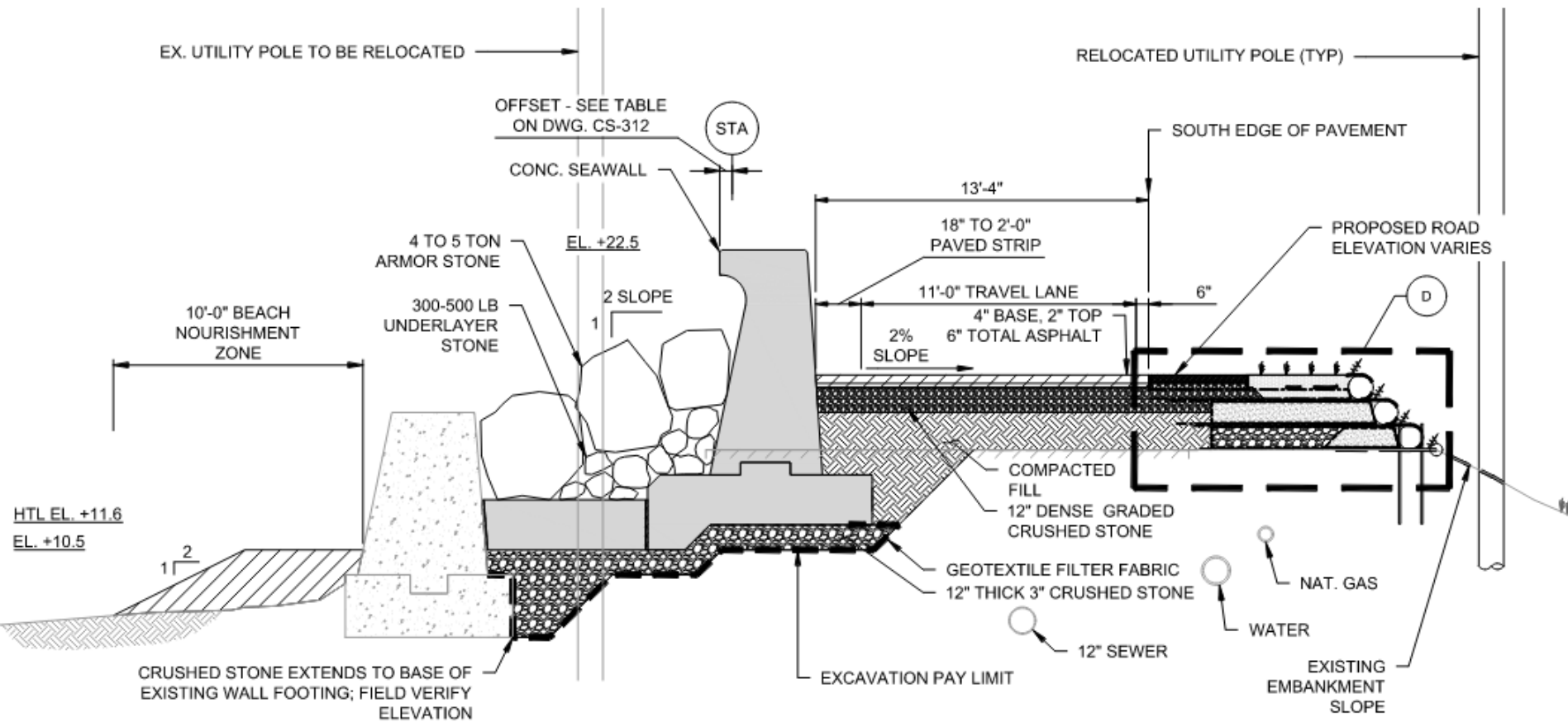
Nantasket Seawall Project Scope



- New seawalls landward of existing
- Relocate overhead utilities
- Raise road and change to One Way
- Add crushed stone path alongside
- Overlook near Intersection Nantasket/Fitzpatrick



Typical Section



SECTION (TYP)

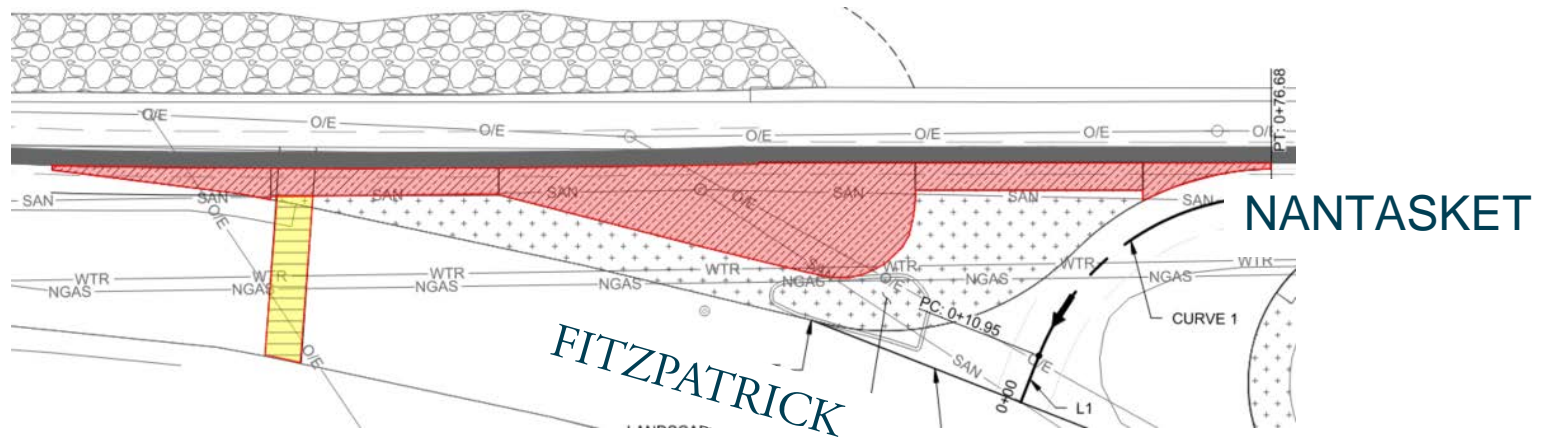
PROPOSED WALL

SCALE: 1/4"=1'-0"

APPROX. STA 14+16 TO 23+81



Overlook



Current Status/Schedule

- Bids in Progress to confirm budget
 - Bidders to hold price until June 1, 2024
- Grants:
 - FEMAPDMG \$5 million
 - FEMA PA \$TBC
 - State Seawalls \$3 million
 - Town match for State grant \$1 million
- Schedule depends on release of funding by FEMA
- Permits—all applications filed and under review



Traffic Study



- Traffic Impact and Access Study
- Conceptual Design of Nantasket/Fitzpatrick/Beacon/Y
- Public Meetings to be held
 - Date depends on weather Late Feb/early March



Wall Condition & Contingency Plan

- Wall is in poor condition
- In the event of partial failure use armor stone from Crescent Beach



Questions?

GEI
Consultants
Consulting
Engineers and
Scientists



GEI



Consultants