

SORRENTO SHORELINE STABILIZATION

OCEAN AVENUE
SORRENTO, ME 04677

Prepared For:
THE TOWN OF SORRENTO

JANUARY 21, 2025

DESIGN CONSULTANTS:

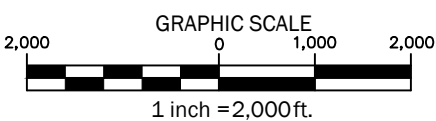
CIVIL ENGINEER
WALSH ENGINEERING ASSOCIATES, INC.
ONE KAREN DRIVE, SUITE 2A
WESTBROOK, MAINE 04092
207-553-9898

WALSH
ENGINEERING ASSOCIATES, INC.

One Karen Dr., Suite 2A | Westbrook, Maine 04092
ph: 207.553.9898 | www.walsh-eng.com

LIST OF DRAWINGS:

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C2.1	SITE PLAN (AREA 1)
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1/2025 - Final/As-Built - Sorrento Hazard Mitigation Grant Project List (As Designated by FEMA)



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SHORELINE STABILIZATION

SORRENTO, ME

PREPARED FOR:
THE TOWN OF SORRENTO
79 POMOLA AVENUE
SORRENTO, ME 04677

Rev.	Date	Description	Drawn	Check

Sheet Title:

SITE LOCATION OVERVIEW

Job No.: 942

Date: 1/21/2025

Scale: AS SHOWN

Drawn: MNW/MMR

Checked: WRW / LLT

Sheet No.:
C1.0

Town of Sorrento Hazard Mitigation Grant Project List (As Designated by FEMA)

Project #748537 - Sorrento Village Green, Town Pier, and Beach Stairs			
1378229 (Sorrento Village Green)	1	C3.0	C3.1
1378234 (Town Pier)	1	C4.0	C4.1
	3	C4.0	C4.1
	5	C4.0	C4.1
1378246 (Beach Stairs)	1	C5.0	C5.1
Project #748538 - Shell Midden			
1378230 (Shell Midden)	1	C3.0	C3.1
Project #748539 - Ocean Avenue			
1378225 Ocean Avenue	1	C2.0	C2.1
	2	C5.0	C5.1
	3	C6.0	C6.1
	4	C7.0	C7.1
	5	C5.0	C5.1
	6	C6.0	C6.1
	7	C7.0	C7.1
	8	C7.0	C7.1

■ SORRENTO VILLAGE GREEN
(1 SITE)

■ TOWN PIER
(3 SITES)

■ BEACH STAIRS
(1 SITE)

■ SHELL MIDDEN
(1 SITE)

■ OCEAN AVE
(8 SITES)

EXISTING

PROPERTY LINE

PROPERTY TIELINE

ABUTTERS PROPERTY LINE

IRON ROD FOUND

ABUTTER IDENTIFICATION

EFFECTIVE FLOOD ZONE

HIGHEST ASTRONOMICAL TIDE

BUILDING

MAPPED SAND DUNE

INDEX CONTOUR

INTERMEDIATE CONTOUR

SPOT GRADE

RIPRAP

CULVERT

GRANITE

EDGE OF EROSION

PHOTO LOCATION AND ORIENTATION

TURF REINFORCEMENT MATTING

N/F

"OWNERS NAME"

TAX MAP TAX LOT

100

101

+ 90.00

100

101

+ 90.00

1

PROPOSED

100

101

+ 90.00

100

101

+ 90.00

1

GENERAL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "DIG SAFE" AND LOCAL UTILITY COMPANIES AT LEAST THREE (3) BUSINESS DAYS, BUT NOT MORE THAN 30 CALENDAR DAYS, PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION, IN ACCORDANCE WITH MAINE STATE LAW. "DIG SAFE" TELEPHONE NUMBER IS 1-888-344-7233.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL AND ANY MEANS, METHODS, AND TECHNIQUES EMPLOYED TO PERFORM THE WORK SHOWN ON THE PLANS.
- ALL WORK SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING ALL SAFETY REGULATIONS (OSHA).
- ALL WORK SHALL BE IN CONFORMANCE ALL UTILITY COMPANIES STANDARDS.
- THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THE WORK SHOWN ON THESE PLANS PRIOR TO CONSTRUCTION.
- ALL PAVEMENT/CONCRETE CUTS SHALL BE SAW CUT TO RESULT IN CLEAN EDGES. A TACK COAT SHALL BE APPLIED ALONG THE PAVEMENT CUT EDGES AND THE NEW PAVEMENT BUTTED TO IT, UNLESS OTHERWISE DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- ALL WORK SHALL COMPLY WITH THE TOWN OF SORRENTO STREET OPENING PERMIT REQUIREMENTS.
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR REGRADING. REFER TO THE WRITTEN EROSION CONTROL PLAN AND DRAWINGS FOR FURTHER EROSION CONTROL GUIDELINES.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS SHOWN ON THE DRAWINGS. IF ANY DISCREPANCIES ARE FOUND, THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY.

PLAN REFERENCES:

- CONTROL POINT AND COORDINATE SYSTEM DERIVED FROM A COMPILATION OF THE FOLLOWING:
 - GPS SURVEY BY WALSH ENGINEERING ASSOCIATES, INC ON NOVEMBER 12, 2024. HORIZONTAL LOCATION AND VERTICAL DATUM WERE ACQUIRED FROM RAW STATIC SATELLITE OBSERVATION USING A BRX7 BASE AND ROVER GPS SYSTEM. DATA WAS PROCESSED USING OPUS (ONLINE POSITIONING USER SERVICE) TO ALIGN WITH MAINE STATE COORDINATE SYSTEM, MAINE-EAST AND VERTICAL DATUM NAVD88.
- TOPOGRAPHIC AND PHOTOMOSAIC INFORMATION DERIVED FROM A COMPILATION OF THE FOLLOWING:
 - LIDAR TOPOGRAPHY AND PHOTOMOSAIC WERE DERIVED FROM UAV DRONE FLIGHT CONDUCTED BY WALSH ENGINEERING, INC. ON NOVEMBER 12, 2024 USING A DJI MATRICE 300.
 - LIDAR TOPOGRAPHY AND PHOTOMOSAIC DATA WAS PROCESSED USING PIX4D SOFTWARE.

BASIS OF DESIGN:

- DESIGN CRITERIA (FLOOD ELEVATIONS BASED ON A 100-YEAR FLOOD):

BASE FLOOD ELEVATION & FLOOD ZONES PRESENT ON PROJECT SITE:
(EFFECTIVE FIRM 23009C1002D & 23009C1006D)

EL. 18' (ZONE VE)
EL. 13' (ZONE VE)
EL. 12' (ZONE AE)
- REVTMENT DESIGN (DESIGN USING VAN DER MEER'S EQUATION)

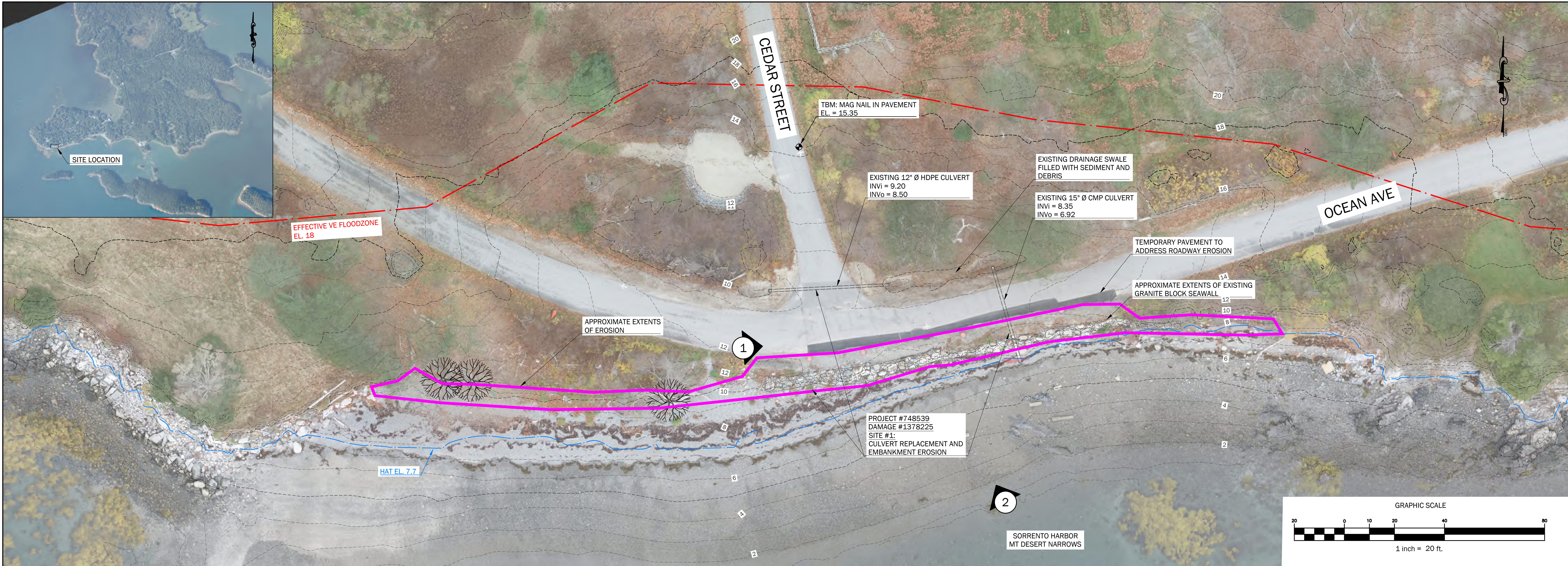
INPUT REQUIREMENTS:

USACE WIS BUOY USED:
DESIGN WAVE HEIGHT:

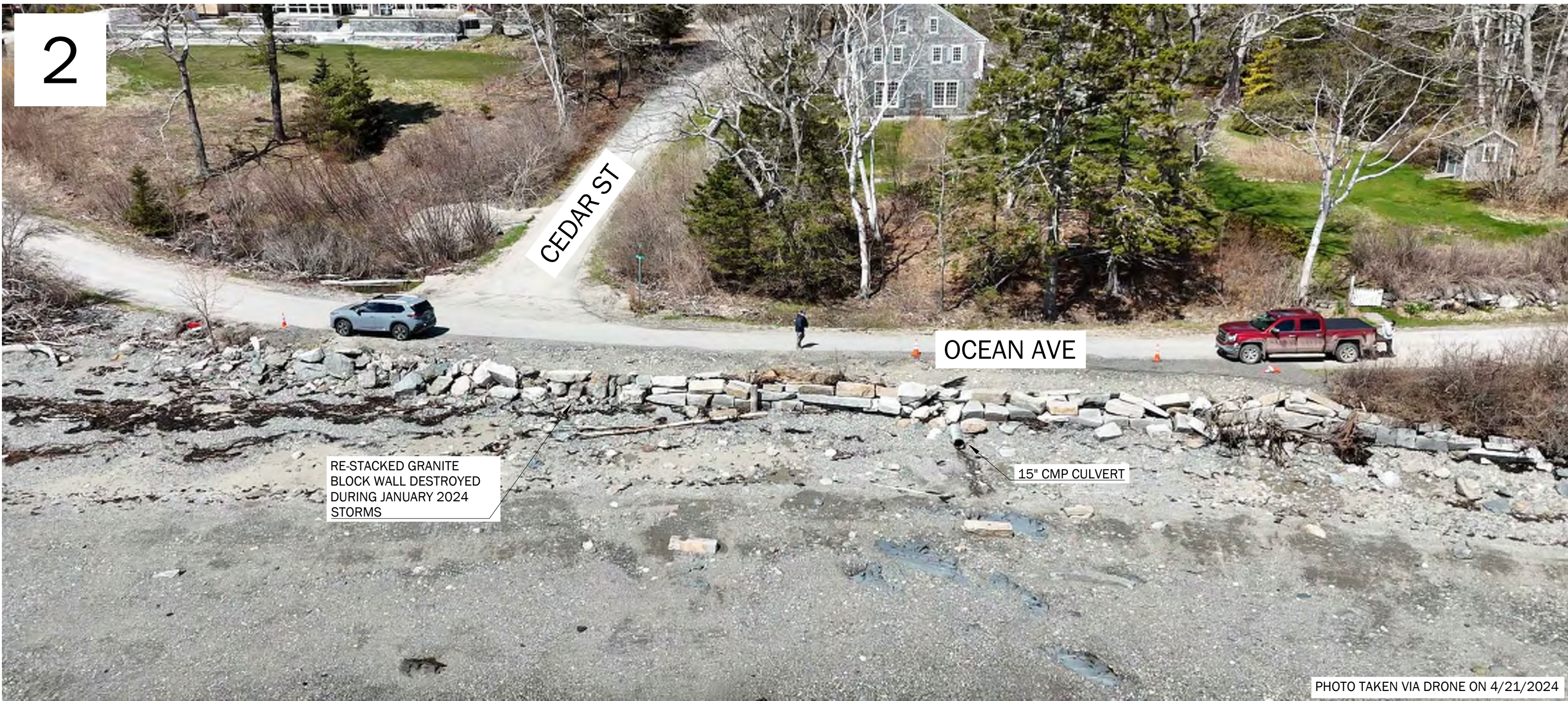
ST63009
11.5' (3.5 M)

D50 STONE SIZE FOR REVETMENT
PER VAN DER MEER'S EQUATION:

4.5' Ø - 5.0' Ø



**TEMPORARILY REPAIRED
ROADWAY EROSION**



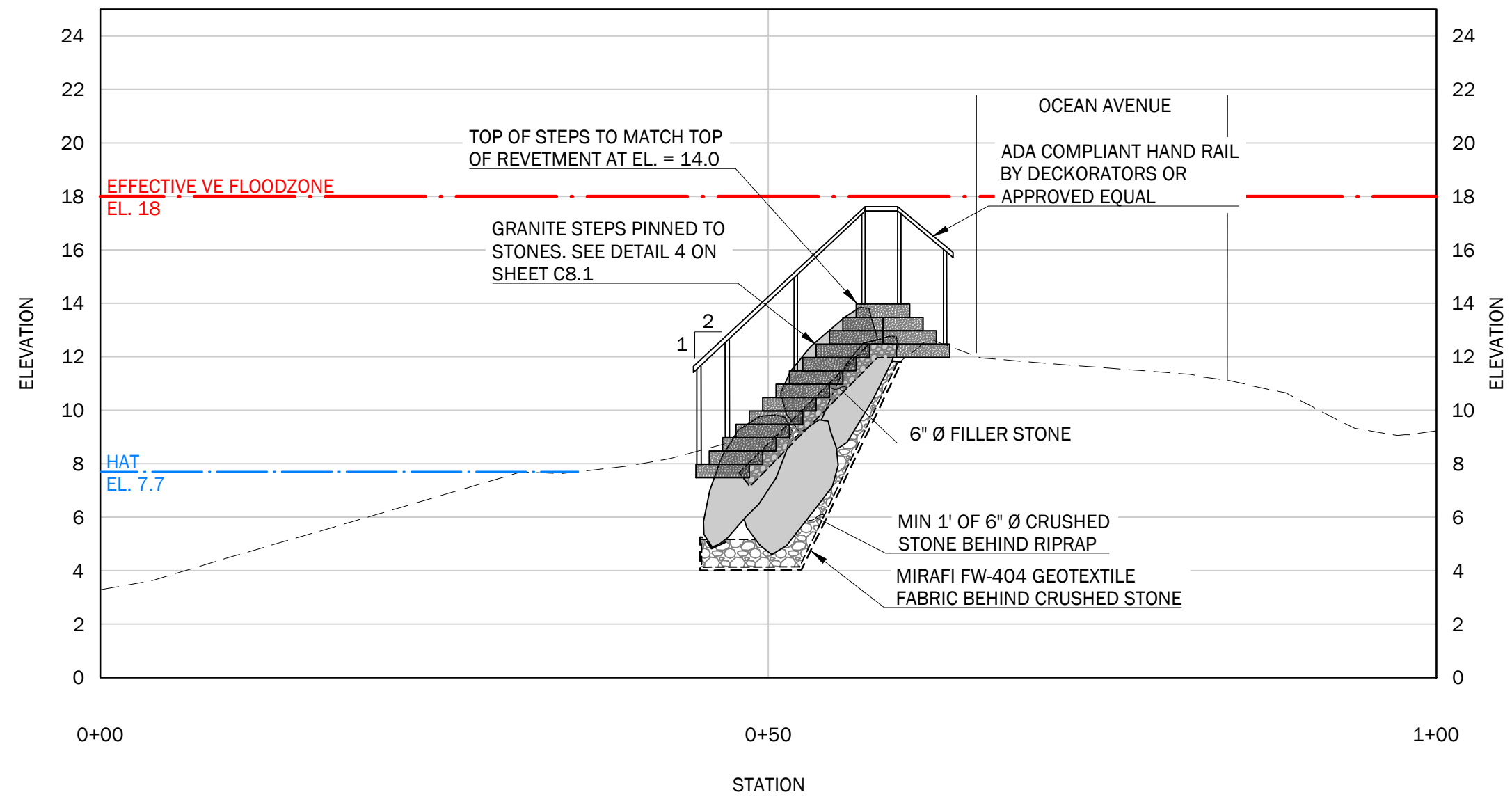
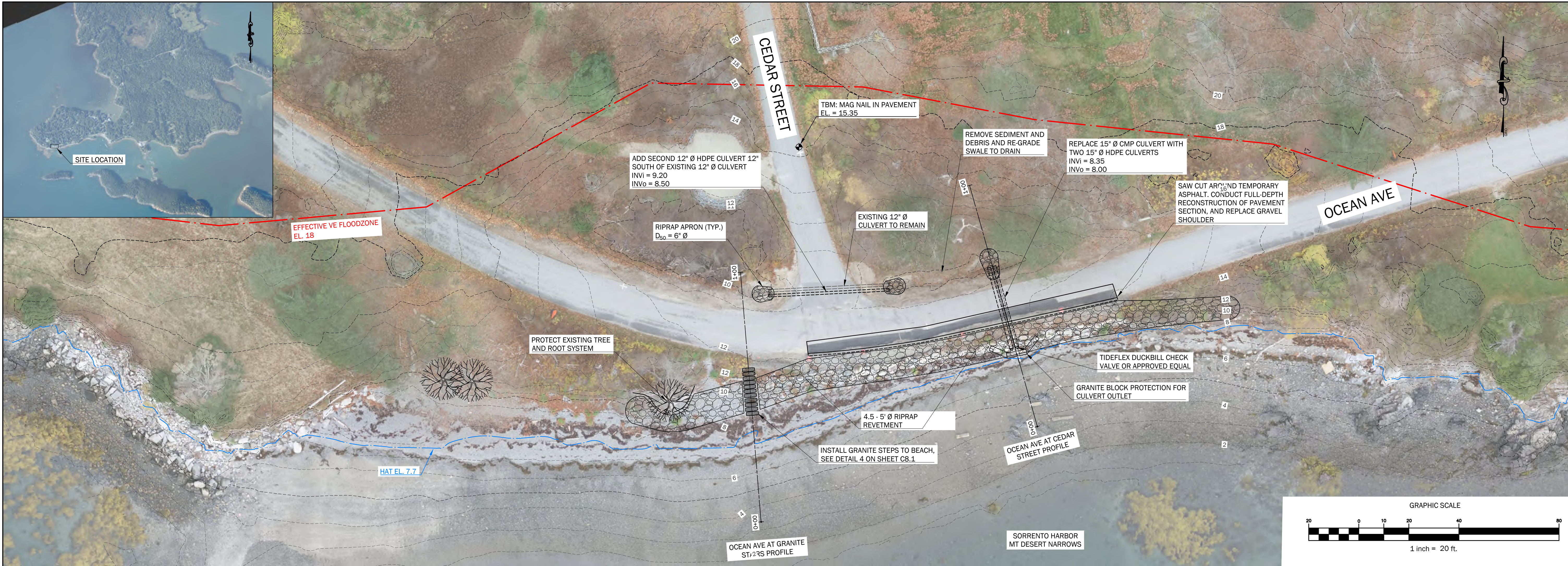
DISPLACED GRANITE BLOCK SEAWALL

Rev.	Date	Description	Drawn	Check

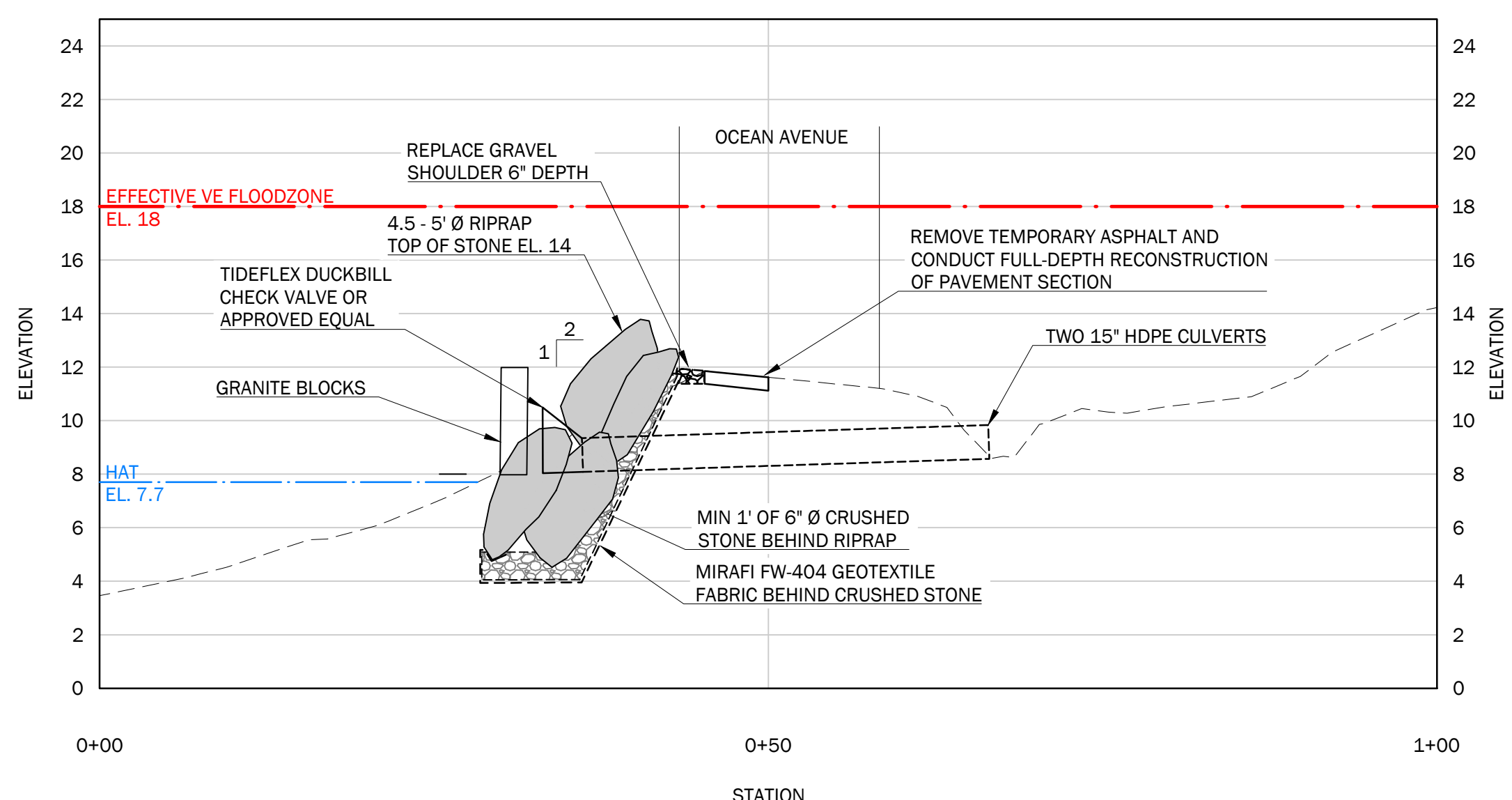
Sheet Title:
**EXISTING
CONDITIONS &
DAMAGES (AREA 1)**

Job No.:	942	Sheet No.:	C2.0
Date:	1/21/2025		
Scale:	AS SHOWN		
Drawn:	MNW/MRM		
Checked:	WRW / LLT		

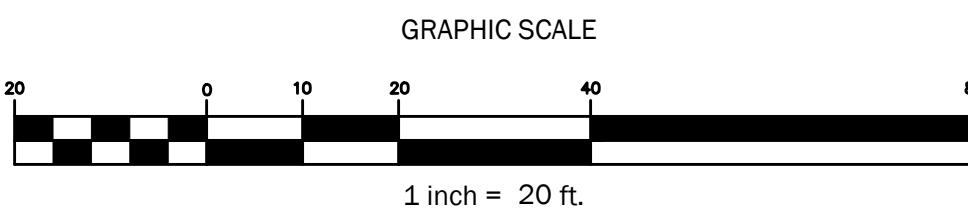
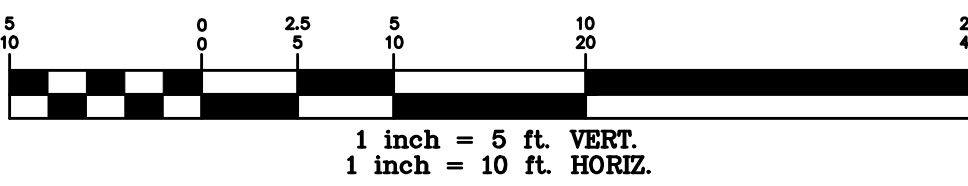
PRELIMINARY - NOT FOR CONSTRUCTION



OCEAN AVE AT GRANITE STAIRS PROFILE



OCEAN AVE AT CEDAR STREET PROFILE



Rev.	Date	Description	Drawn	Check

Sheet Title:
SITE PLAN (AREA 1)

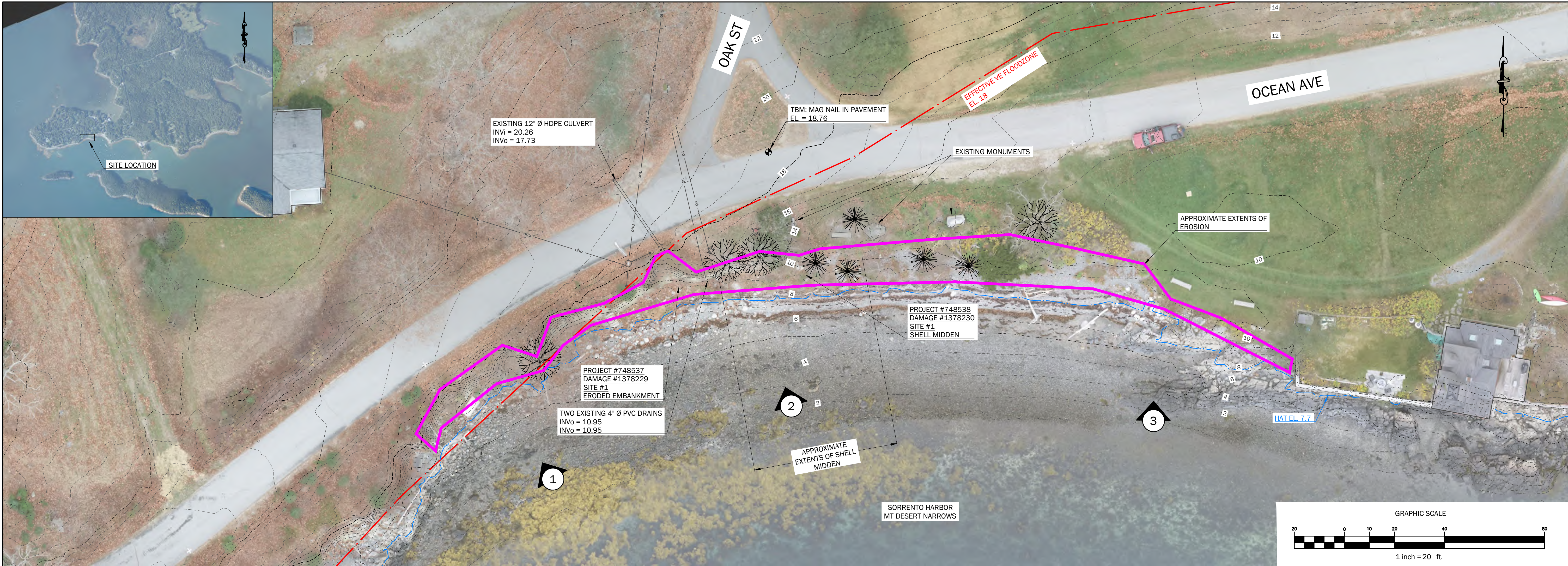


PHOTO TAKEN VIA DRONE ON 4/21/2024



PHOTO TAKEN VIA DRONE ON 4/21/2024



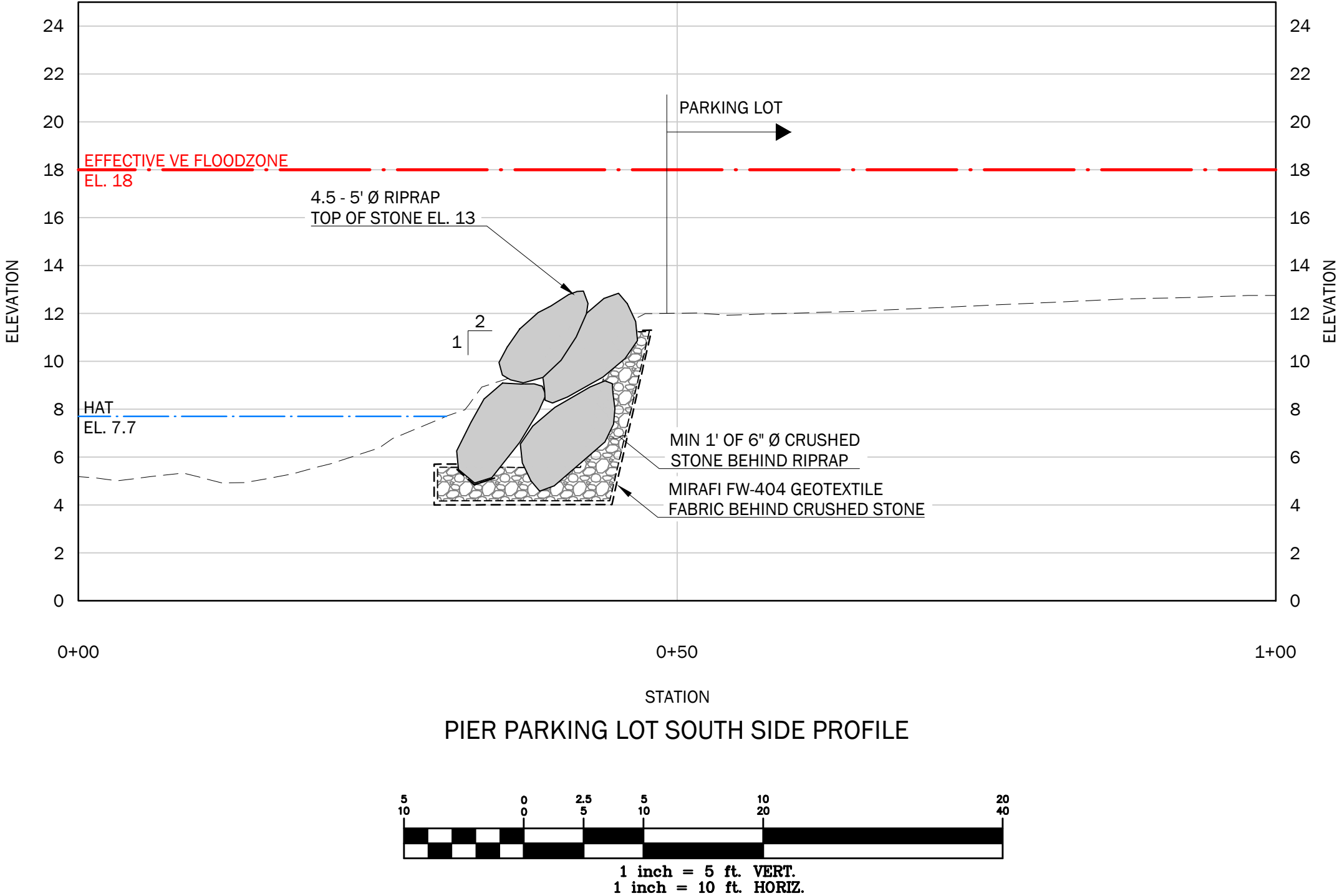
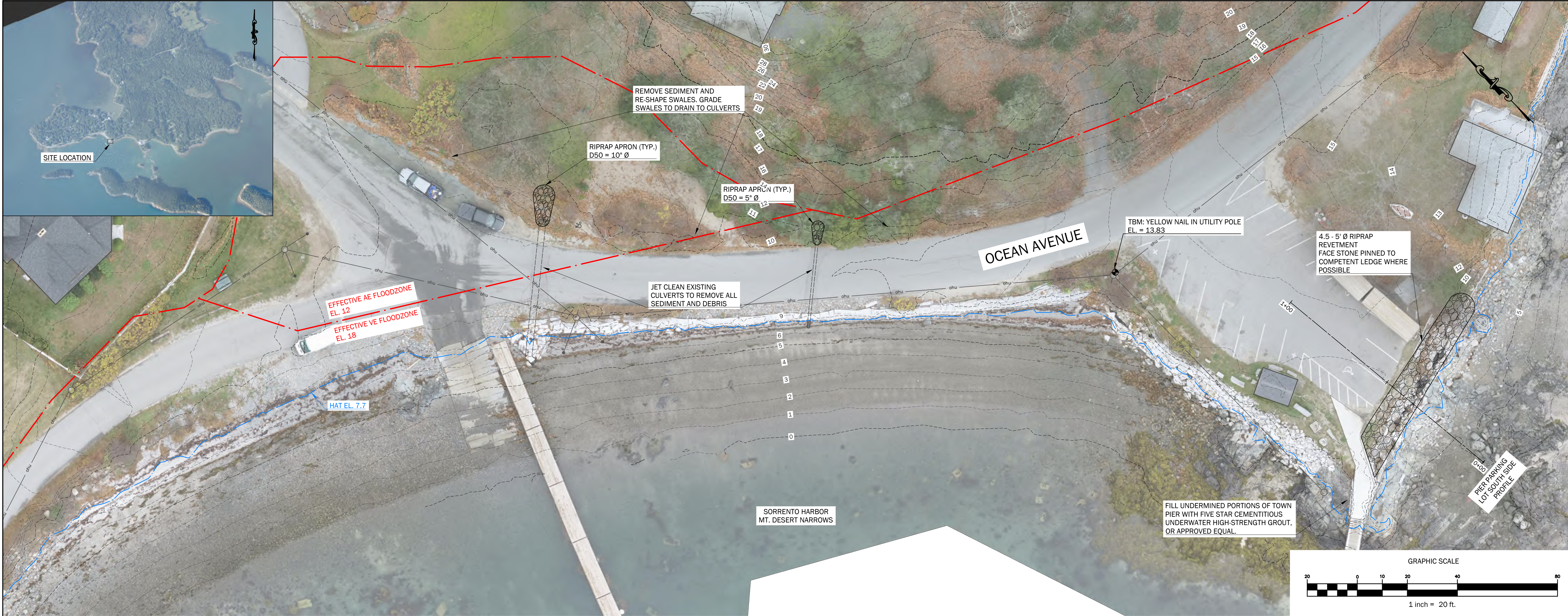
PHOTO TAKEN VIA DRONE ON 4/21/2024

**ERODED EMBANKMENT &
SHELL MIDDEN**

Rev.	Date	Description	Drawn	Check

Sheet Title:
**EXISTING
CONDITIONS AND
DAMAGES (AREA 2)**

Job No.:	942	Sheet No.:	C3.0
Date:	1/21/2025		
Scale:	AS SHOWN		
Drawn:	MNW/MRM		
Checked:	WRW / LLT		



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SORRENTO, ME 04877

Rev.	Date	Description	Drawn	Check

Sheet Title:
SITE PLAN (AREA 3)

Job No.: 942

Sheet No.: C4.1

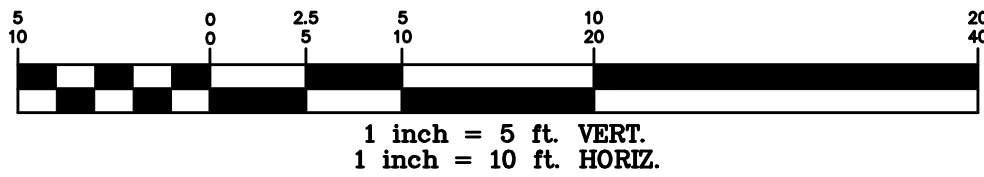
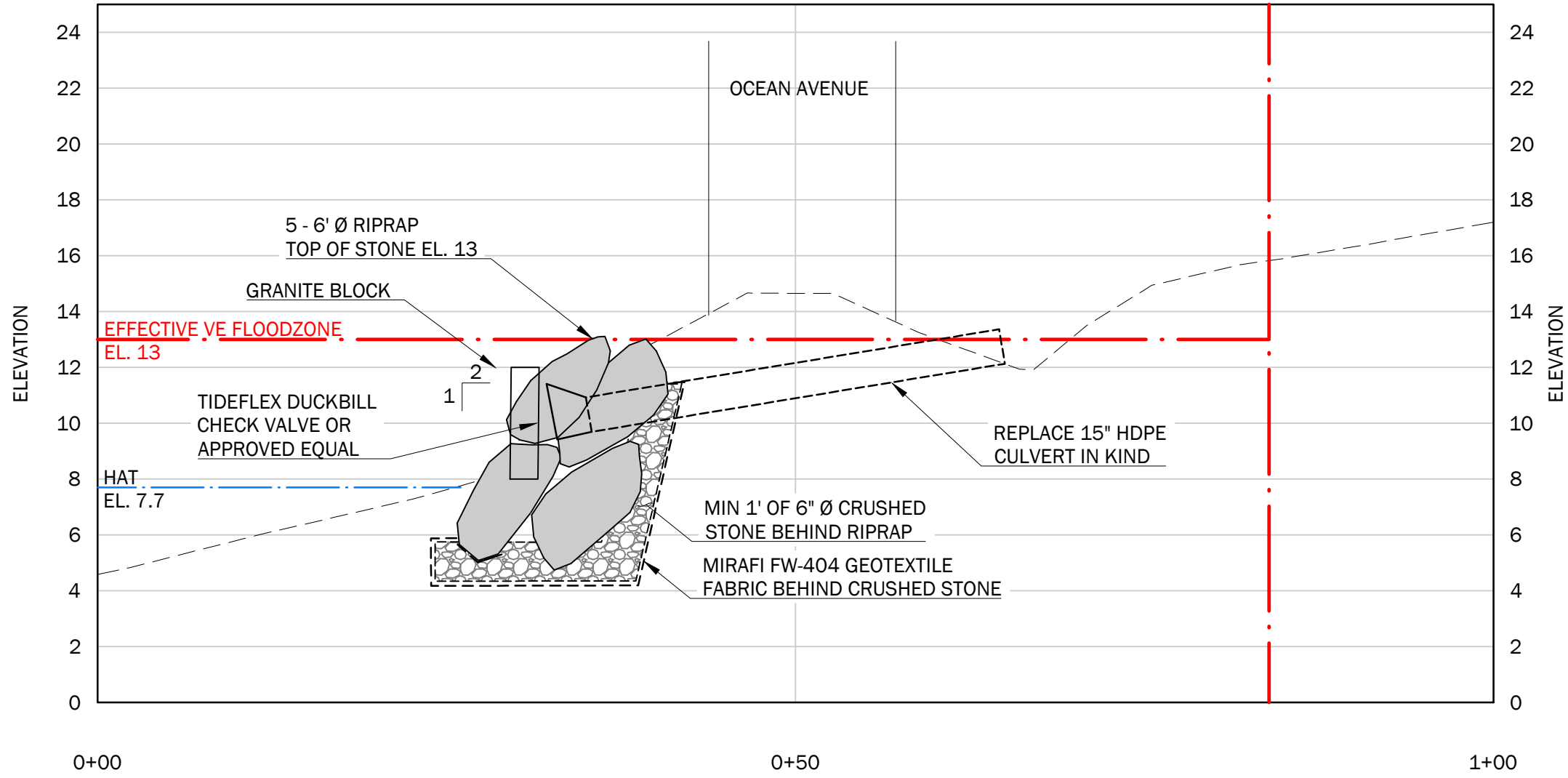
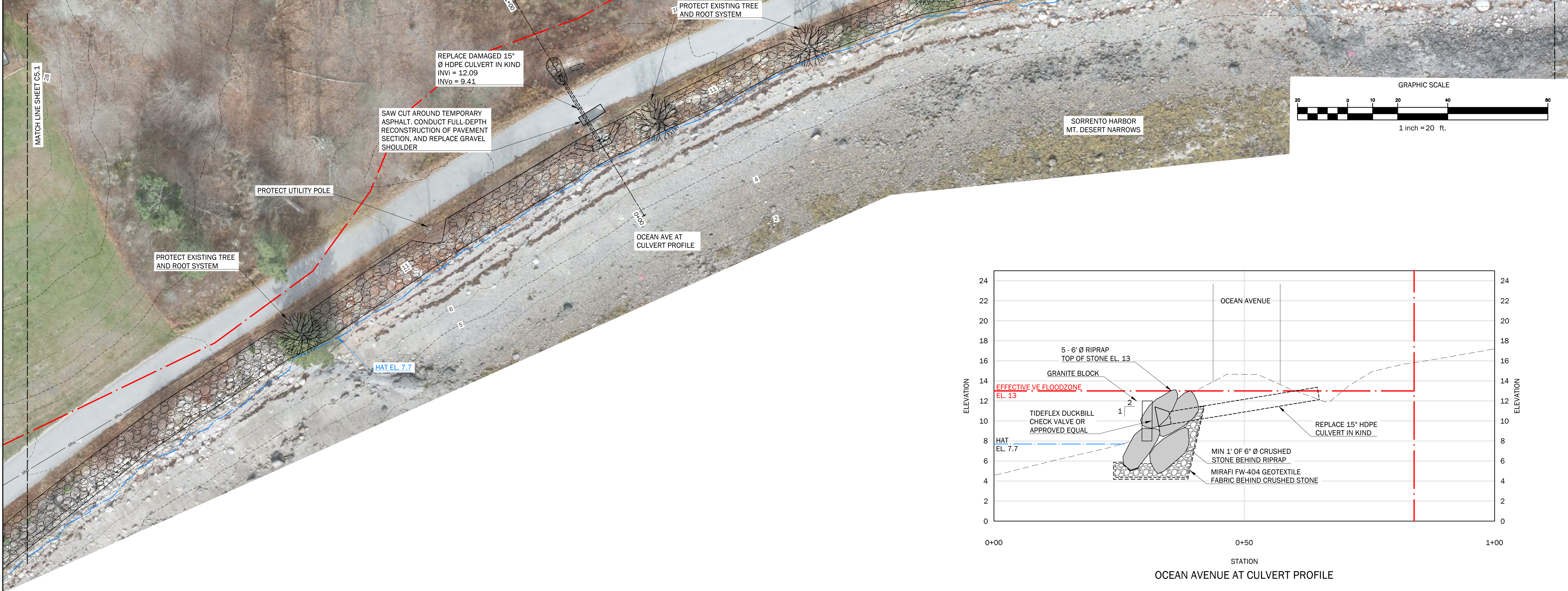
Date: 1/21/2025

Scale: AS SHOWN

Drawn: MNW/MRM

Checked: WRW / LLT

1/21/25 - Final/As-Built - Sorrento Shoreline Stabilization - C40000 - JAC/LLT/WRW - 1/21/25 1:24 PM



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SORRENTO, ME 04877

Rev.	Date	Description	Drawn	Check

Sheet Title:

SITE PLAN (AREA 5)

Job No.:942

Sheet No.:

Date:1/21/2025

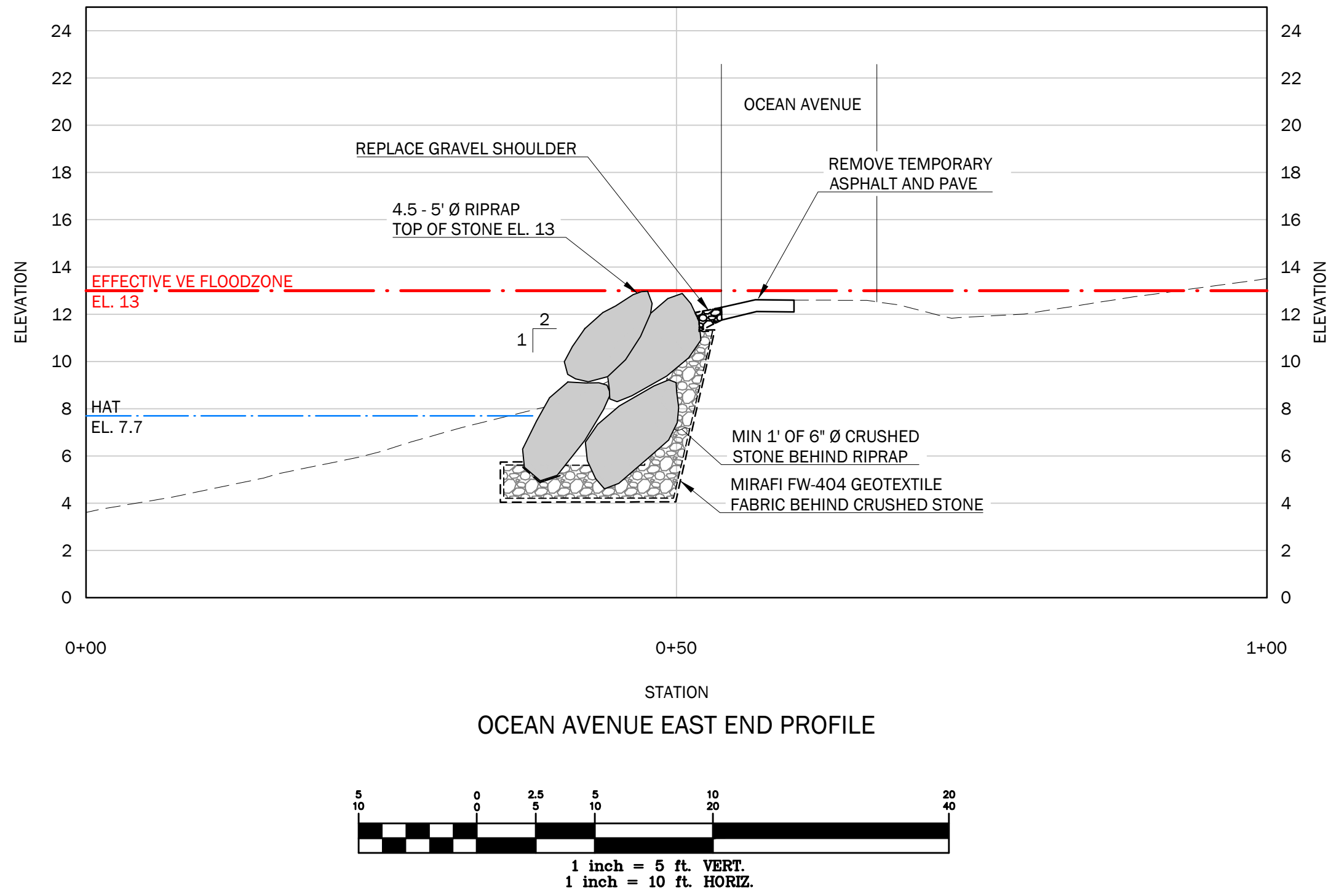
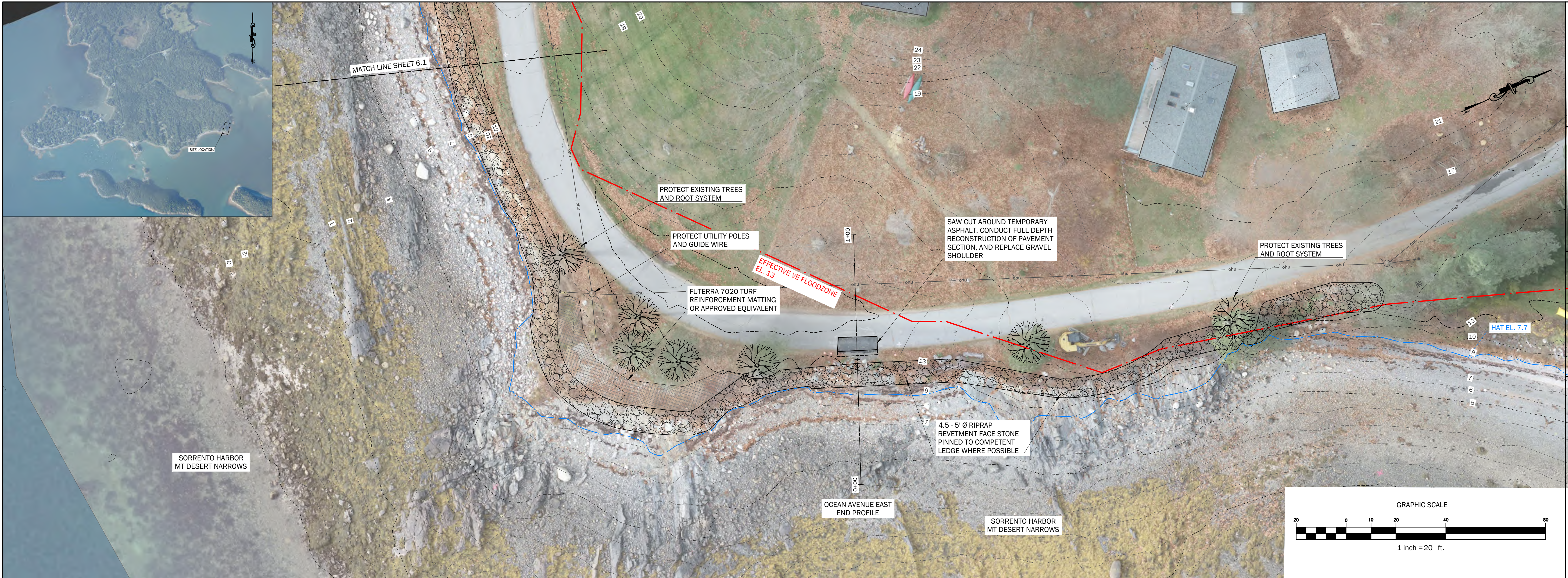
Scale:AS SHOWN

Drawn:MNW/MRM

Checked:WRW / LLT

C6.1

PRELIMINARY - NOT FOR CONSTRUCTION



PRELIMINARY - NOT FOR CONSTRUCTION

Rev.	Date	Description	Drawn	Check

Sheet Title:
SITE PLAN (AREA 6)

Job No.:	942	Sheet No.:	C7.1
Date:	1/21/2025		
Scale:	AS SHOWN		
Drawn:	MNW/MMR		
Checked:	WRW / LLT		