



State of Rhode Island
Coastal Resources Management Council
Oliver H. Stedman Government Center
4808 Tower Hill Road, Suite 3
Wakefield, RI 02879-1900

(401) 783-3370
Fax (401) 783-2069

REVISED PUBLIC NOTICE

File Number: 2026-01-003 Date: August 21, 2026

This office has under consideration the application of:

NRI TT RGG LLC ET AL
c/o Turner C. Scott
122 Touro Street; Newport, RI 02840

for a State of Rhode Island Assent to:

The current plan includes conducting maintenance activities along the entire 550-foot length between Webster Street and Narragansett Avenue. For ease of discussion, we have divided the area into 5 sections. Refer to the attached plan set for details.

Section 1 (STA 0+00 to 1+25) - Exposed Cliff Face. A geotextile fabric is proposed with crushed stone and rip rap cover. The wall will extend to approximately MLW with a 1.5:1 slope. Grout or concrete will be used to fill existing cavity(s) in the cliff face. Large stones are proposed at the toe, landward of a new cast-in-place concrete block, and armor stones reduced in size past the 100-Year Flood Water Level. Nearly all activities will be above the MLW line.

Section 2 (STA 1+25 to 2+00) - Granite Block Wall. Rip-rap is proposed along the face of the existing granite block wall from the base flood elevation of 25' NAVD88. Wall construction will be at a 1.5:1 slope. Grout or concrete will be used to fill cavity(s) in the wall face, and/or to create base slope. Large 5'-6' stones will be placed at the toe, landward of a new cast-in-place concrete block, and armor stones will be placed beyond the 100-Year Flood Water Level. Nearly all activities will be above the MLW line.

Section 3 (STA 2+00 to 3+25) - March 3, 2022, Collapsed Area. A modular stone block wall is proposed directly below and adjacent to the Cliff Walk path. The wall will be supported by concrete filled micropiles drilled 5-feet below bedrock. A rip-rap wall is proposed to extend seaward at a 1.5:1 slope. Grout or concrete will be used to fill cavity(ies) in the cliff face. Large 5'-6' stones will be placed at the toe, landward of new cast-in-place concrete blocks, and armor stones reduced in size will be placed beyond the 100-Year Flood Water Level. Nearly all activities will be above the MLW line.

Section 4 (STA 3+25 to 4+25) - Exposed Cliff Face. Rip-rap is proposed to extend seaward from the base flood elevation of 25' NAVD88, sloping at 1.5:1. Grout or concrete will be used to fill cavity(ies) in the cliff face. Large 5'-6' stones will be placed at the toe in front of new cast-in-place concrete blocks, and armor stones reduced in size will be placed beyond the 100-Year Flood Water Level. Nearly all activities will be above the MLW line.

NRI TT RGG LLC ET AL

CRMC File 2026-01-003 -- Public Notice

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Page Two

Section 5 (STA 4+25 to 5+50) – Granite Block Wall. The collapsed area of Section 5, landward of the existing granite block wall is proposed to be filled with crushed stone and topped with a layer of RIDOT R-8 Armor Stone. Seaward of the existing granite block wall, rip-rap is proposed to extend at a slope of 1.5:1. Large 5’-6’ stones will be placed at the toe in front of new cast-in-place concrete blocks, and armor stones reduced in size will be placed beyond the 100-Year Flood Water Level. Nearly all activities will be above the MLW line.

At the location Section F-F (approximately stations 3+75 to 4+25). This portion of the project has been revised to minimize fill within tidal waters by removing the proposed revetment seaward of the rock outcrop (i.e. conglomerate bedrock) Therefore, the work no longer considered a Prohibited Activity as previously designed. In lieu of filling tidal waters, specifically, the work now includes rock bolting/dowling to the bedrock interface in order to stabilize the upper section of the shale bedrock and glacial till bordering and underlying the existing cliff walk. Also, the existing bridge over the cliffwalk will be shored as necessary by underpinning micropiles to its base.

The current estimate is that approximately 18,242 square feet (SF) (3830 cubic yards) of permanent impacts will occur in Rhode Island tidal waters (below high tide line).

Project Location:	185-199 Narragansett Avenue
City/Town:	Newport
Plat/Lot:	Plat 36, lot 1
Waterway:	Easton Bay

Plans of the proposed work can be requested at Cstaff1@crmc.ri.gov.

In accordance with the Administrative Procedures Act (Chapter 42-35 of the Rhode Island General Laws) you may request a hearing on this matter.

You are advised that if you have good reason to enter protests against the proposed work it is your privilege to do so. It is expected that objectors will review the application and plans thoroughly, visit site of proposed work if necessary, to familiarize themselves with the conditions and cite what law or laws, if any, would in their opinion be violated by the work proposed.

If you desire to protest, you must attend the scheduled hearing and give sworn testimony. A notice of the time and place of such hearing will be furnished you as soon as possible after receipt of your request for hearing. If you desire to request a hearing, to receive consideration, it should be in writing (**with your correct mailing address, e-mail address and valid contact number**) and be received at this office on or before **September 21, 2026**.

Please email your comments/hearing requests to: cstaff1@crmc.ri.gov; or mail via USPS to: Coastal Resources Management Council; O. S. Government Center, 4808 Tower Hill Road, Rm 116; Wakefield, RI 02879.

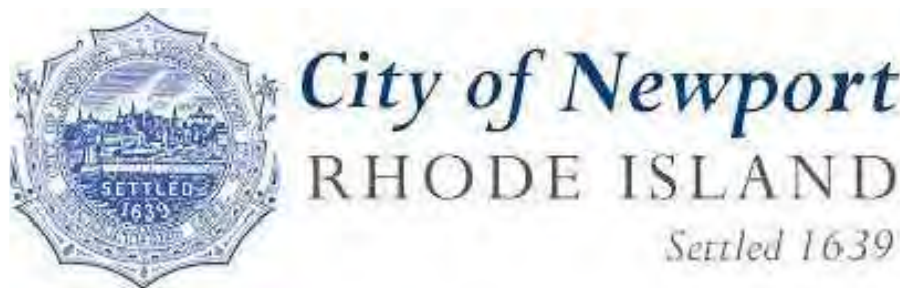
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NEWPORT CLIFF WALK REPAIR

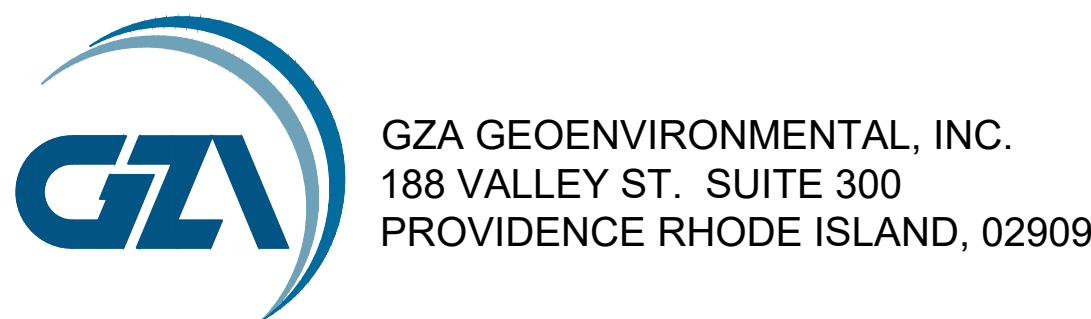
NEWPORT, RHODE ISLAND

AUGUST, 2026

PREPARED FOR:



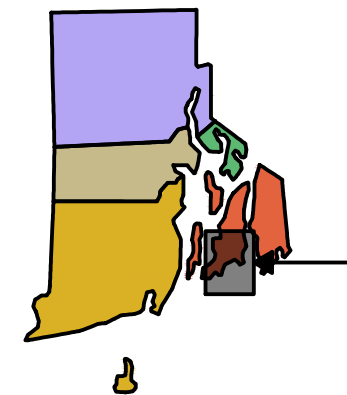
DESIGNED BY:



PROJECT LOCUS MAP

SOURCE: BASE MAP FROM THE FOLLOWING USGS QUADRANGLE MAP:
NEWPORT, RI (2021)
DIGITAL TOPOGRAPHIC MAPS PROVIDED BY USGSSTORE.GOV.
CONTOUR ELEVATIONS REFERENCE NAVD 88.
CONTOURS ARE SHOWN IN FEET AT 10 FOOT INTERVALS

RHODE ISLAND



PROJECT VICINITY MAP

AERIAL BASE MAP DEVELOPED FROM AN ELECTRONIC
IMAGE FILE PROVIDED BY MICROSOFT CORPORATION /
DIGITAL GLOBE / CNES DISTRIBUTION AIRBUS DC IN 2018.

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5	EXISTING CONDITIONS SECTIONS (SHEET 2 OF 3)
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8/14/2026
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Management Council

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© 2025 - GZA GeoEnvironmental, Inc. GZA-J:\GEO\33884.01.TWS\CAD\CURRENT\PLANS\100% DESIGN_12-25\2_NOTES-LEGEND November 24, 2025 GARY BASTIEN

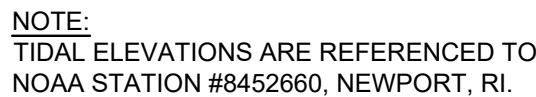
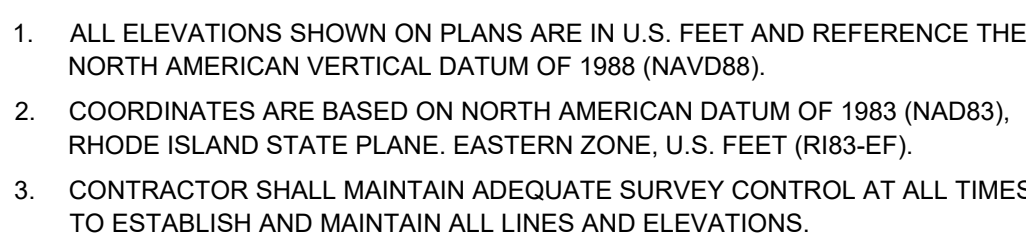
- GENERAL CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY CONSTRUCTION FENCES AND BARRIERS AROUND THE CONTRACTOR WORK AREA. THE CONTRACTOR SHALL COORDINATE ACCESS AND BARRIERS WITH THE CITY OF NEWPORT AND OCHRE POINT PROPERTY.
2. ALL EROSION CONTROL MEASURES SHALL BE PUT INTO PLACE PRIOR TO THE START OF CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL COMPLETION OF THE PROJECT. EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED AND MAINTAINED AFTER EACH RAIN EVENT AND REPLACED AS NECESSARY DURING PROJECT CONSTRUCTION.
3. DEBRIS AND OIL ABSORBENT TURBIDITY BOOMS SHALL BE PLACED AROUND THE LIMIT OF WORK. DEBRIS SHALL BE REMOVED DAILY.
4. TEMPORARY CONTROLS SHALL BE INSTALLED, AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH PERMIT REQUIREMENTS AND SECTION 01 57 00- TEMPORARY CONTROLS, PRIOR TO THE START OF WORK AND BE MAINTAINED THROUGHOUT CONSTRUCTION.
5. STANDARD DUST CONTROL MEASURES, INCLUDING THE USE OF WATER MIST AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST SHALL BE USED, AS NECESSARY, TO COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS. DO NOT USE WATER WHERE IT MAY CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS ICE, FLOODING, AND POLLUTION. CALCIUM CHLORIDE SHALL NOT BE ALLOWED IN ANY ARE IN THE OCHRE POINT YARD. DUST CONTROL SHALL BE PERFORMED USING WATER ONLY.
6. ALL MATERIAL REMOVED AND NOT REUSED SHALL BECOME THE PROPERTY OF THE OWNER AND SHALL BE REMOVED DAILY FROM THE SITE OR PROPERLY STORED AT AN APPROVED LOCATION ON SITE. REMOVED MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS.
7. STOCKPILE ALL REMOVED SOIL ON SITE OR AT A LOCATION DIRECTED BY THE OWNER FOR RE-USE.

1. THE CONTRACTOR MUST SUBMIT A WATER AND SEDIMENT CONTROL PLAN IN ACCORDANCE WITH STATE REGULATIONS AND PROJECT PERMIT. THE PLAN SHALL BE PREPARED AND STAMPED BY A LICENSED RHODE ISLAND PROFESSIONAL ENGINEER, FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. THE PLAN MUST INCLUDE DEWATERING MEASURES FOR EXCAVATED SEDIMENT.

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION WORK WITH OTHER CONTRACTORS WORKING AT THE SITE.
2. TO THE FULLEST EXTENT PRACTICAL, EXCEPT AS PROVIDED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOT INTERFERE WITH ACCESS TO THE SURROUNDING AREA.
3. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE APPROPRIATE UTILITY COMPANY REPRESENTATIVES AND CITY OF NEWPORT AND OCHRE POINT PROPERTY.

1. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE LEGAL DISPOSAL OF ALL MATERIALS. NO MATERIAL IS TO BE DEPOSITED INTO THE SURROUNDING WATERS.
2. DISPOSAL OF ALL WASTE MATERIAL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND CONSISTENT WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
3. PRIOR TO DISPOSAL, THE OWNER SHALL APPROVE ALL DISPOSAL SITES.



LEGEND

	BENCHMARK / CONTROL POINT (CP)
	PROPERTY LINE
	EXISTING CONTOURS (MAJOR)
	EXISTING CONTOURS (MINOR)
	FILTREXX (R) SILT SOXX (OR EQUAL)
	LIMIT OF WORK
	TEMPORARY FENCE LINE
	EXISTING GATES
	NEW GATES
	EXISTING STRUCTURES
	JERSEY BARRIER
	JERSEY BARRIER WITH FENCE

	EXISTING OVERHEAD WIRES
	EXISTING WATER LINE
	ABOVE GROUND FORCE MAIN
	EXISTING ELECTRICAL LINE
	EXISTING GAS LINE
	EXISTING TELECOMMUNICATIONS
	ABANDONED WATER LINE
	EXISTING WATER MANHOLE
	EXISTING ELECTRICAL MANHOLE
	EXISTING UTILITY MANHOLE
	EXISTING TELEPHONE MANHOLE
	EXISTING STORMWATER MANHOLE
	EXISTING UTILITY POLE
	EXISTING HYDRANT
	EXISTING LIGHT POST
	EXISTING STORMWATER CURB INLET / CATCH BASIN

DIA.	DIAMETER
C.I.	CAST IRON
D.I.	DUCTILE IRON
EL.	ELEVATION
HASP	HEALTH AND SAFETY PLAN
HDPE	HIGH-DENSITY POLYETHYLENE
INV.	INVERT
MHHW	MEAN HIGH, HIGH WATER
MHW	MEAN HIGH WATER
MIN.	MINIMUM
MLLW	MEAN LOW, LOW WATER
MLW	MEAN LOW WATER
NOAA	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
OHW	OVERHEAD WIRES
PCP	PRE-CAST PIPE
STA.	STATION
TYP.	TYPICAL
N / F	NON OR FORMERLY
APRX	APPROXIMATE

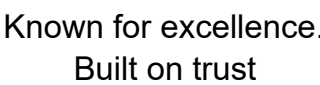
The diagram illustrates the relationship between a section and a detail in architectural drawing. It is divided into two main parts: a top section and a bottom detail.

Top Section:

- A central circle is labeled **A** at the top and contains the text **S-1** and **S-5** separated by a vertical line.
- Two arrows point from this circle to two rectangular boxes. The left box is labeled **SHEET WHERE THE SECTION IS CUT**. The right box is labeled **SHEET WHERE THE SECTION VIEW IS LOCATED**.
- A horizontal line with an arrow pointing right is labeled **SECTION**.
- Below the horizontal line, the text **SCALE: 1" = 2'** is written.

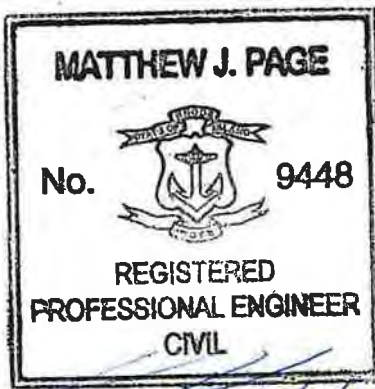
Bottom Detail:

- A central circle is labeled **1** at the top and contains the text **S-2** and **S-4** separated by a vertical line.
- Two arrows point from this circle to two rectangular boxes. The left box is labeled **SHEET WHERE THE DETAIL IS CUT**. The right box is labeled **SHEET WHERE THE DETAIL VIEW IS LOCATED**.
- A horizontal line with an arrow pointing right is labeled **DETAIL**.
- Below the horizontal line, the text **SCALE: 1" = 2'** is written.



City of Newport
RHODE ISLAND
Settled 1639

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REV	DESCRIPTION	DATE	B

PROJECT NO:	33884.01
DATE:	DECEMBER, 2025
PROJECT MGR:	TWS
DESIGNED BY:	SAB
DRAWN BY:	GRB
CHECKED BY:	TWS
REVIEWED BY:	MJP
SCALE:	AS NOTED
REVISION NO.	

NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

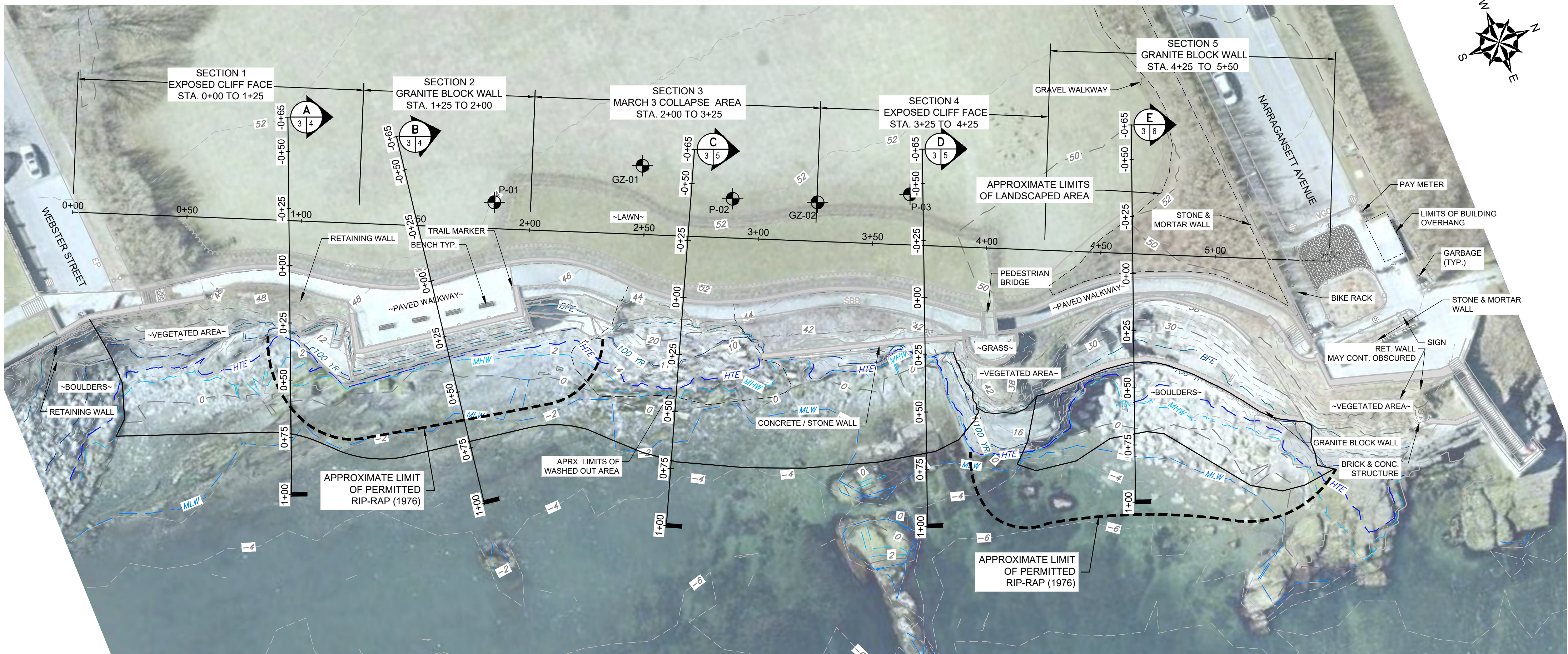
GENERAL NOTES AND LEGENDS

DRAWING

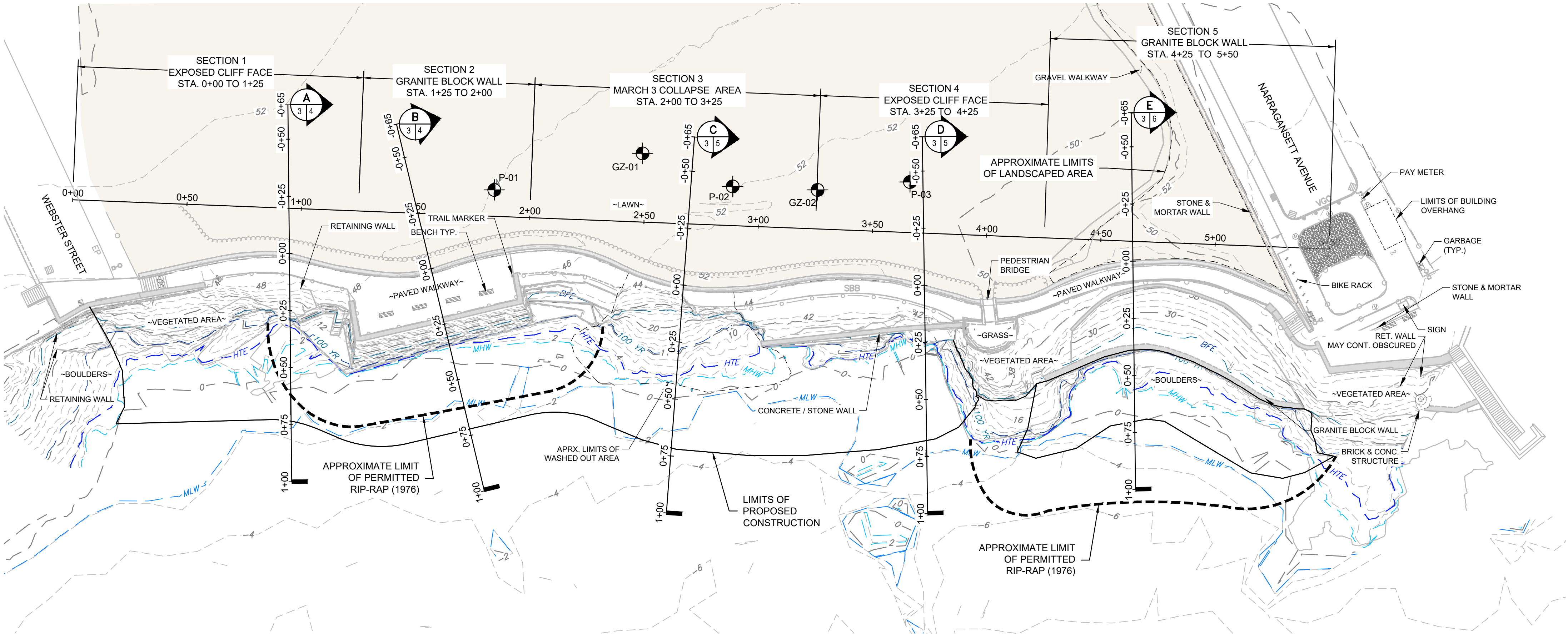
2

SHEET NO. 2 OF 2

© 2026 - GZA GeoEnvironmental, Inc. GZA--\\GEO\33884.01\TWS\GAD\CURRENT\PLANS\100% DESIGN\12-25\3_EXISTING CONDITIONS PLANDWG 3_EXISTING CONDITIONS PLAN February 17, 2026 GARY BASTIEN



AERIAL SITE PLAN



EXISTING CONDITIONS PLAN
SCALE: 1"=30'

NOTES

1. BASE MAP DEVELOPED FROM AERIAL PHOTOGRAMMETRY DATA AND ELECTRONIC DRAWING FILE "7318A 2022-06-02" PREPARED BY DOUCET LAND SURVEYORS AND PROVIDED TO GZA.
2. ALL ELEVATIONS REFERENCE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).

LEGEND

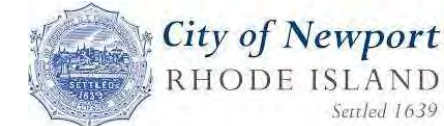
- INDICATES BORINGS/PROBES PERFORMED BY NEW ENGLAND BORING AND OBSERVED BY GZA PERSONNEL.
- RETAINING WALL
- CHAIN LINK FENCE
- HANDRAIL
- SHRUB LINE
- MAJOR CONTOUR 10 FOOT INTERVAL
- MINOR CONTOUR 2 FOOT INTERVAL
- TOPSOIL BEHIND WALL

DESCRIPTION	ELEVATION	CONTOUR
FEMA BASE FLOOD ELEVATION	25.00	BFE
100 YEAR STILL WATER	10.60	100 YR
HIGH TIDE ELEVATION	3.15	HTE
MEAN HIGH WATER	1.57	MHW
MEAN LOW WATER	-1.90	MLW

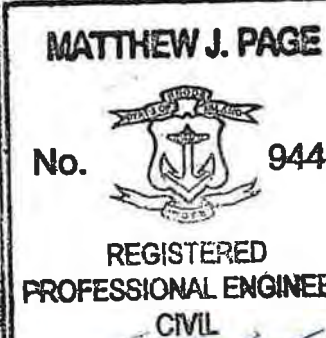
0 15' 30' 60' 90'
SCALE IN FEET 1" = 30'



PREPARED FOR:



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REV	DESCRIPTION	DATE	BY

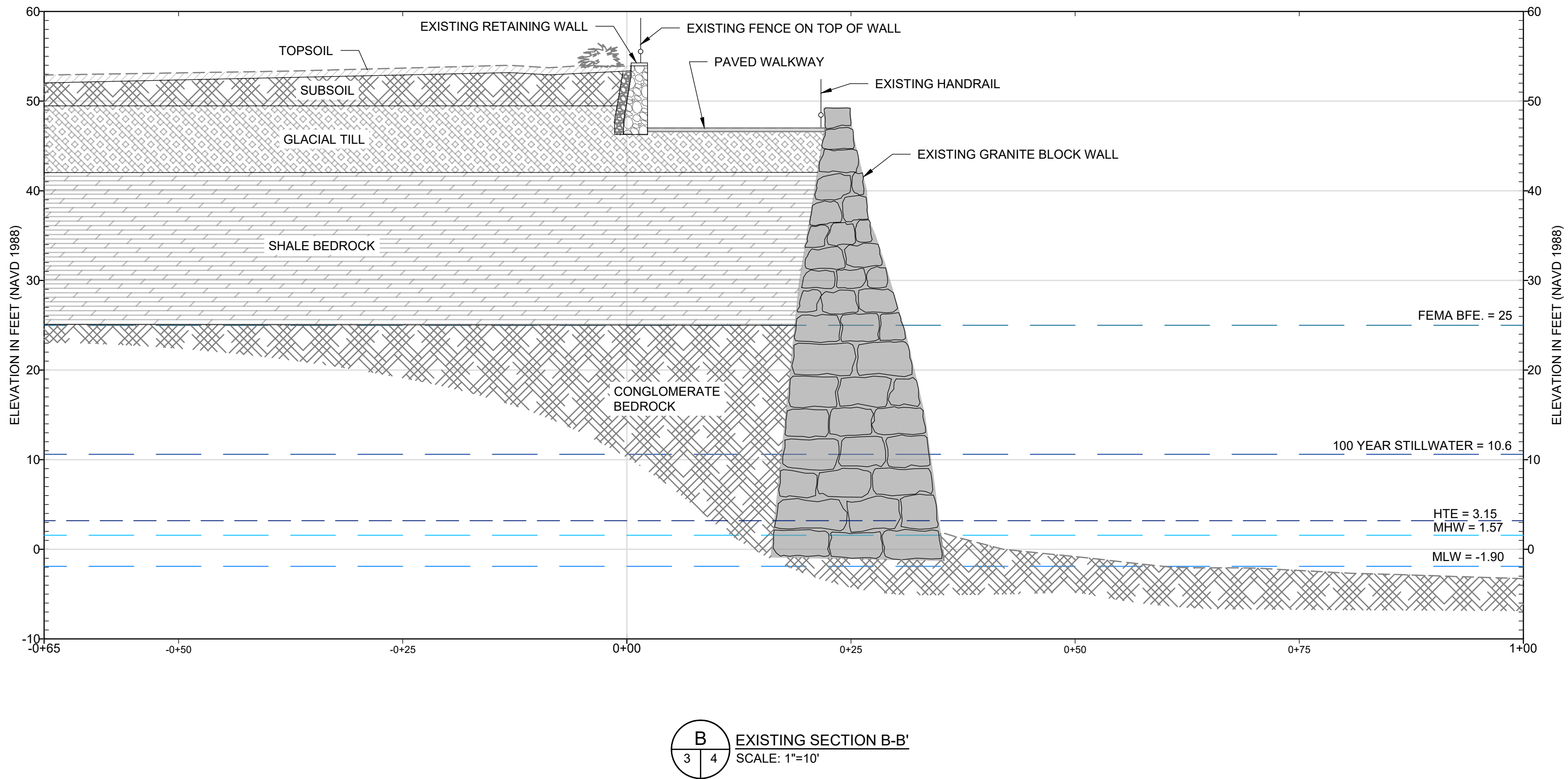
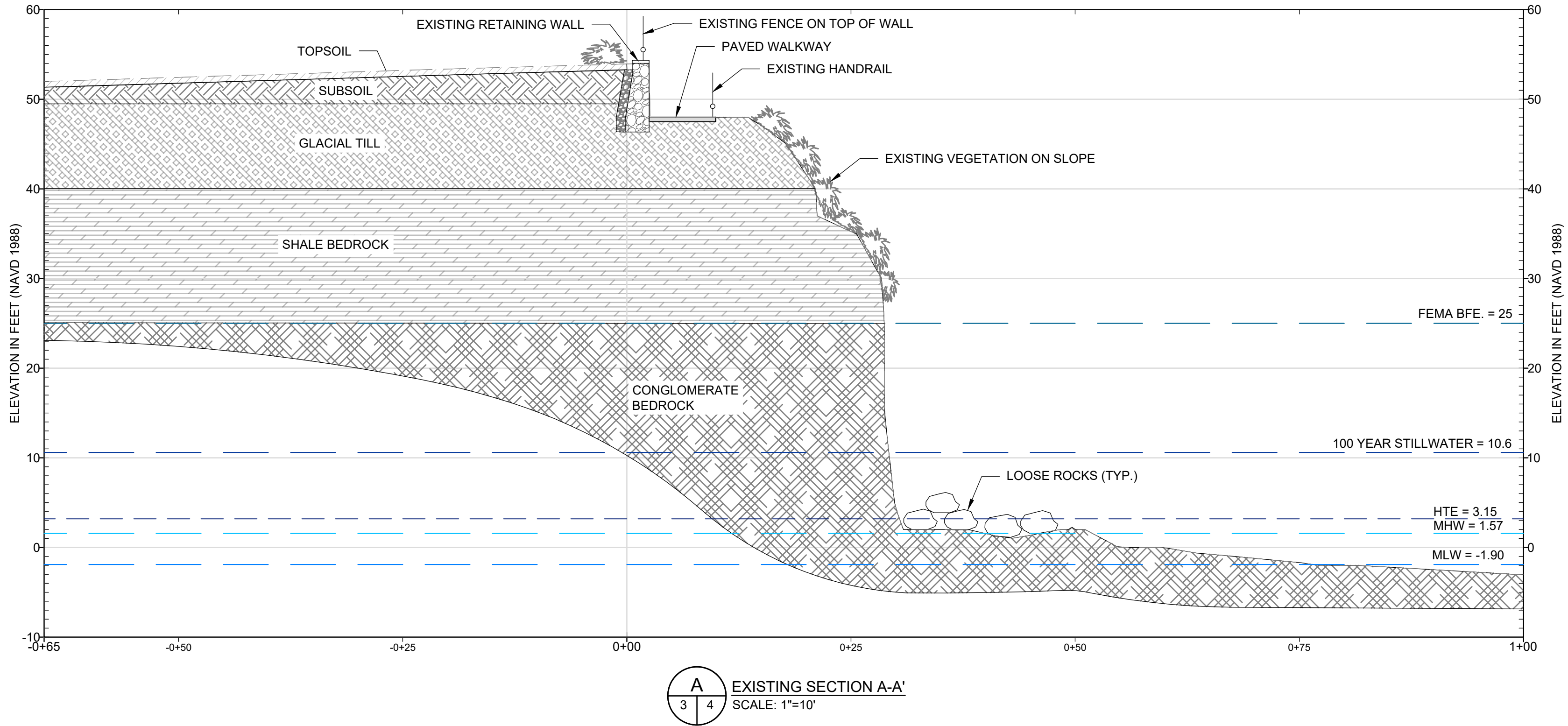
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DATE:	FEBRUARY, 2026
PROJECT MGR:	TWS
DESIGNED BY:	SAB
DRAWN BY:	GRB
CHECKED BY:	TWS
REVIEWED BY:	MJP
SCALE:	AS NOTED
REVISION NO.	

NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

EXISTING CONDITIONS PLAN

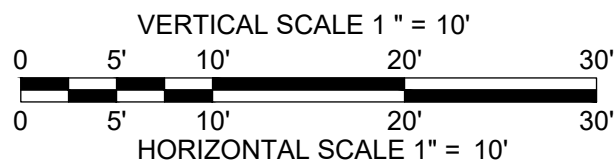
DRAWING
3
SHEET NO. 3 OF 21

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NOTE:

1. LIMITS OF SLOPE MAY VARY. CONTRACTOR SHALL VERIFY IN FIELD. DRAWINGS ARE FOR ILLUSTRATIVE PURPOSES ONLY.
2. SUBSURFACE LAYERING IS APPROXIMATE BASED ON INTERPOLATION FROM NEARBY BORINGS AND VISUAL OBSERVATIONS. VERIFY IN FIELD

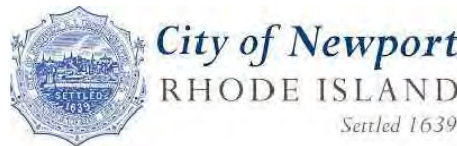


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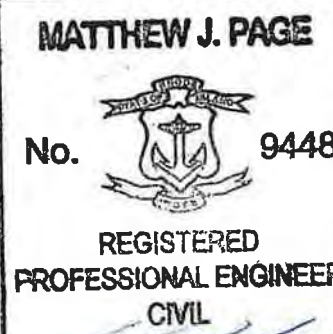


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REV	DESCRIPTION	DATE	BY

PROJECT NO: 33884.01
DATE: DECEMBER, 2025
PROJECT MGR: TWS
DESIGNED BY: SAB
DRAWN BY: GRB
CHECKED BY: TWS
REVIEWED BY: MJP
SCALE: AS NOTED
REVISION NO.

NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

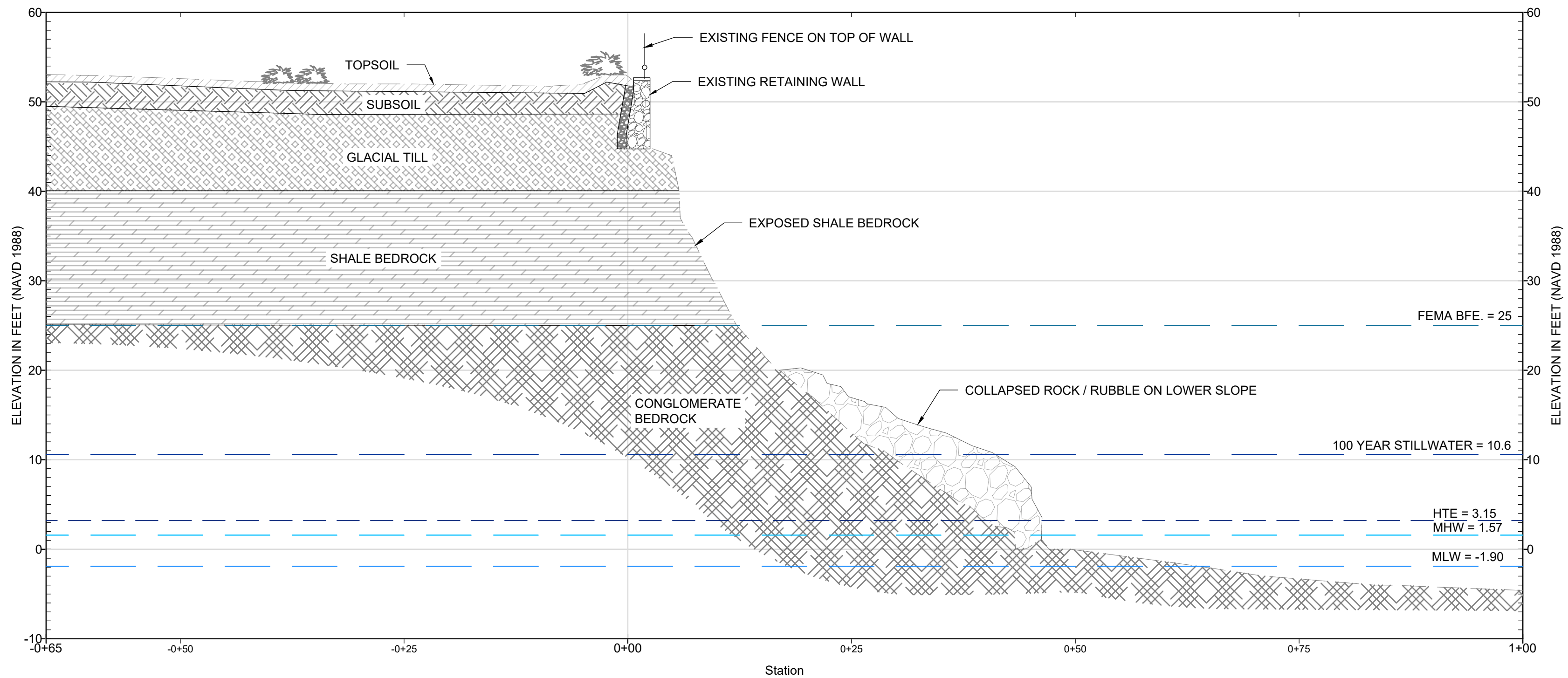
EXISTING CONDITIONS SECTIONS
(SHEET 1 OF 3)

DRAWING

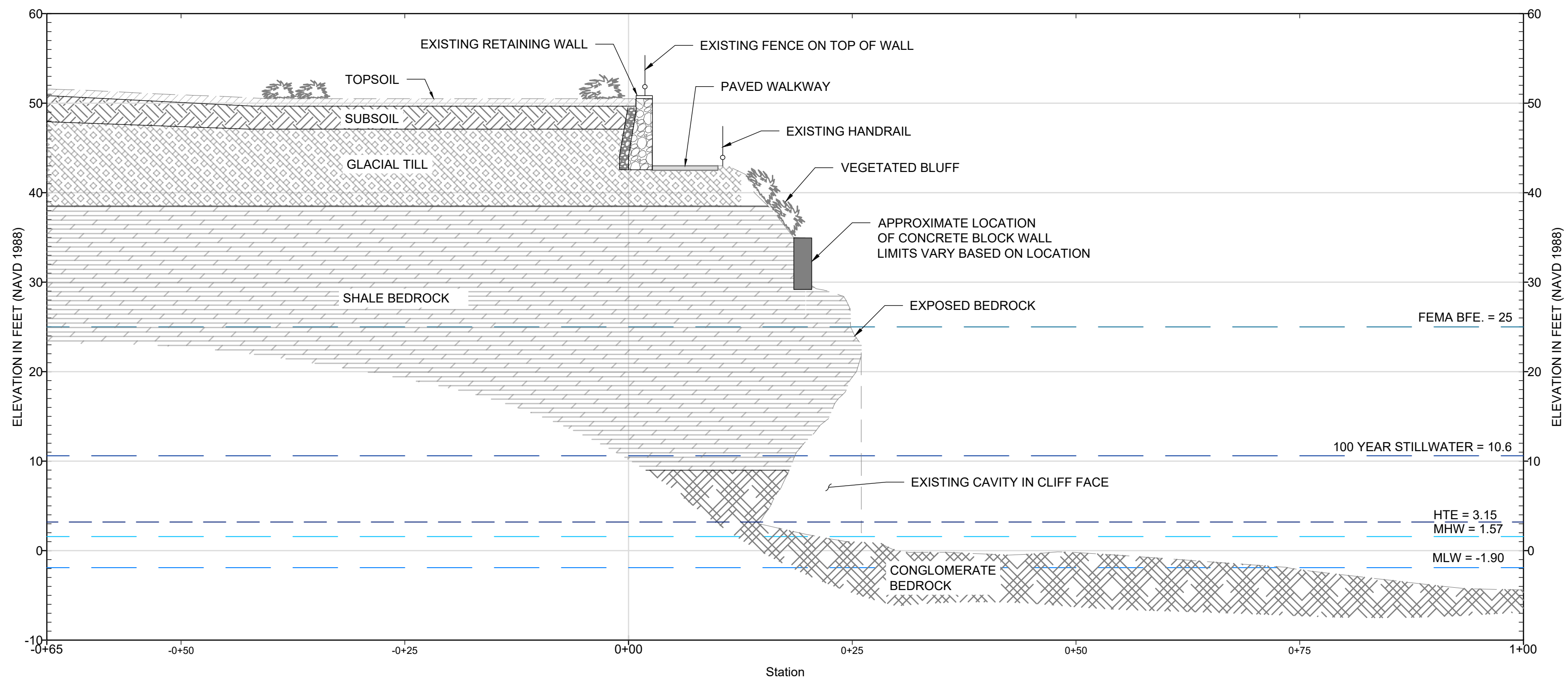
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SHEET NO. 4 OF 21

© 2025 - GZA GeoEnvironmental, Inc. GZA-1\GEO\33884.01.TWS\GAD\CURRENT\PLANS\100% DESIGN\12-25\5 EXISTING CONDITIONS SECTIONS C-C' AND D-D'.DWG 5 EXISTING CONDITIONS SECTIONS C-C' AND D-D'. November 25, 2025 GARY BASTIEN



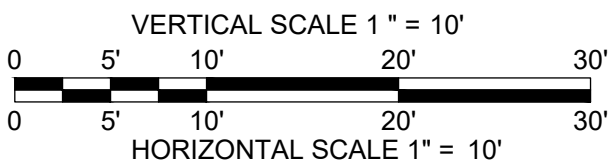
C
3 5
EXISTING SECTION C-C'
SCALE: 1"=10'



D
3 5
EXISTING SECTION D-D'
SCALE: 1"=10'

NOTE:

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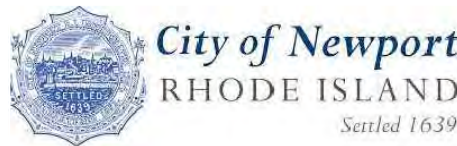


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MATTHEW J. PAGE

No. 9448

REGISTERED
PROFESSIONAL ENGINEER
CIVIL

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REV	DESCRIPTION	DATE	BY

PROJECT NO: 33884.01
DATE: DECEMBER, 2025
PROJECT MGR: TWS
DESIGNED BY: SAB
DRAWN BY: GRB
CHECKED BY: TWS
REVIEWED BY: MJP
SCALE: AS NOTED
REVISION NO.

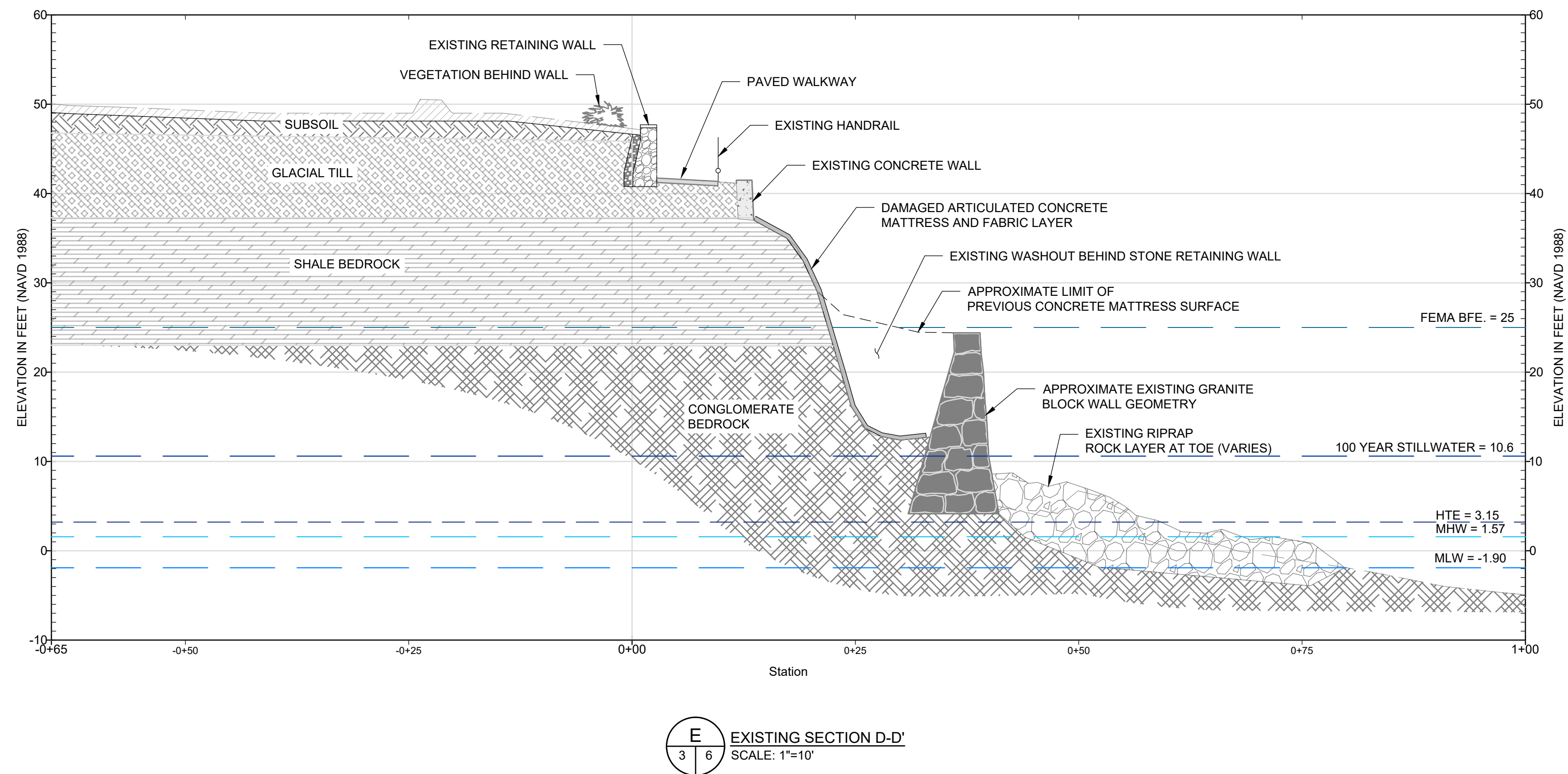
NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

EXISTING CONDITIONS SECTIONS
(SHEET 2 OF 3)

DRAWING

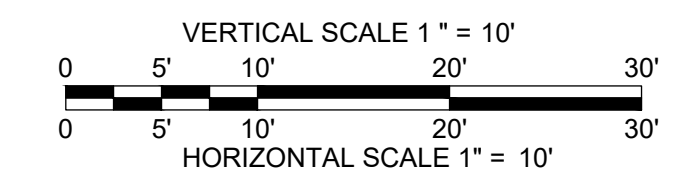
5

SHEET NO. 5 OF 21



NOTE:

1. LIMITS OF SLOPE MAY VARY. CONTRACTOR SHALL VERIFY IN FIELD. DRAWINGS ARE FOR ILLUSTRATIVE PURPOSES ONLY.
2. SUBSURFACE LAYERING IS APPROXIMATE BASED ON INTERPOLATION FROM NEARBY BORINGS AND VISUAL OBSERVATIONS. VERIFY IN FIELD

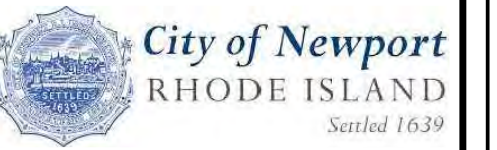


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8/14/2026
Coastal Resources
Management Council



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REV	DESCRIPTION	DATE	BY

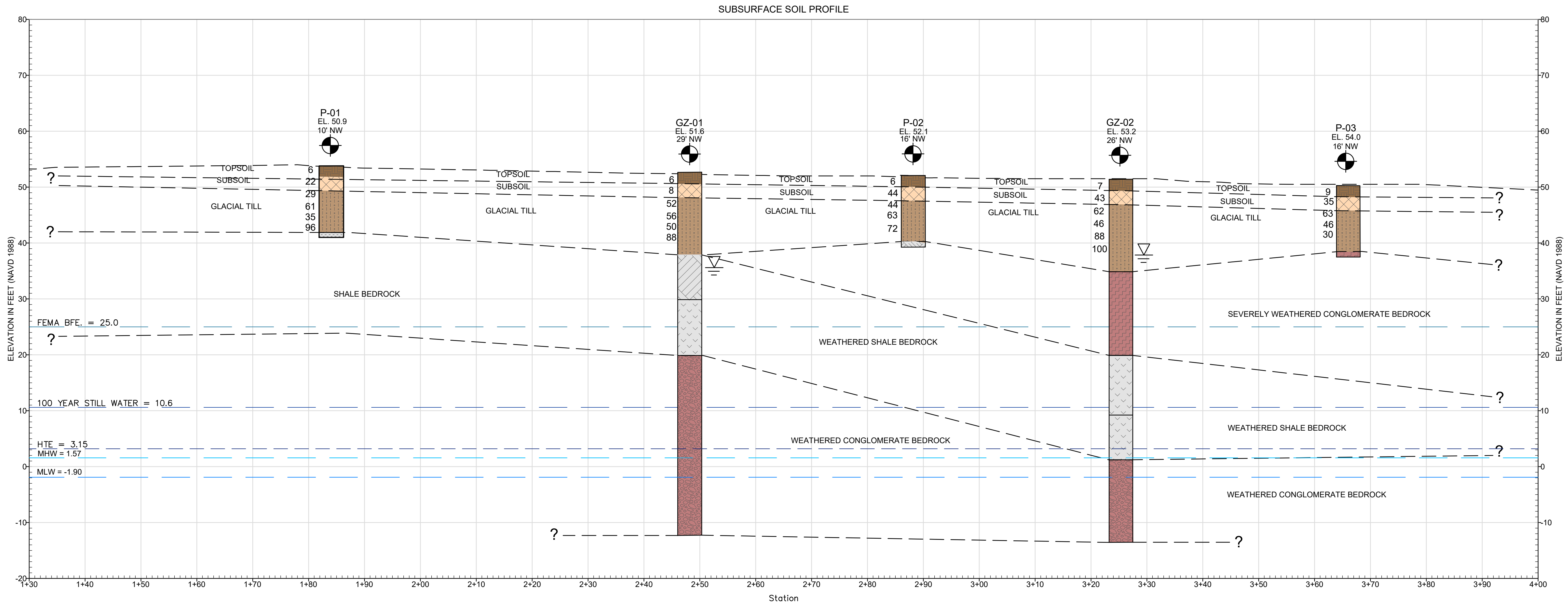
PROJECT NO:	33884.01
DATE:	DECEMBER, 2025
PROJECT MGR:	TWS
DESIGNED BY:	SAB
DRAWN BY:	GRB
CHECKED BY:	TWS
REVIEWED BY:	MJP
SCALE:	AS NOTED
REVISION NO.	

NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

**EXISTING CONDITIONS SECTIONS
(SHEET 3 OF 3)**

DRAWING
6
SHEET NO. 6 OF 2

© 2025 - GZA GeoEnvironmental, Inc. GZA-I:\GEO\33884.01\TWS\CAD\CURRENT\PLANS\100% DESIGN\12-25\7_SUBSURFACE SOIL PROFILE November 24, 2025 GARY BASTIEN



NOTES

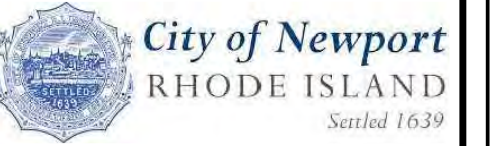
- STRATIFICATION LINES ARE INTERPOLATIONS BASED ON WIDELY SPACED BORING LOCATIONS AND THUS REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES. ACTUAL TRANSITIONS MAY VARY FROM THOSE SHOWN.
- REFER TO DRAWING C-1 FOR BORING LOCATIONS.

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8/14/2026
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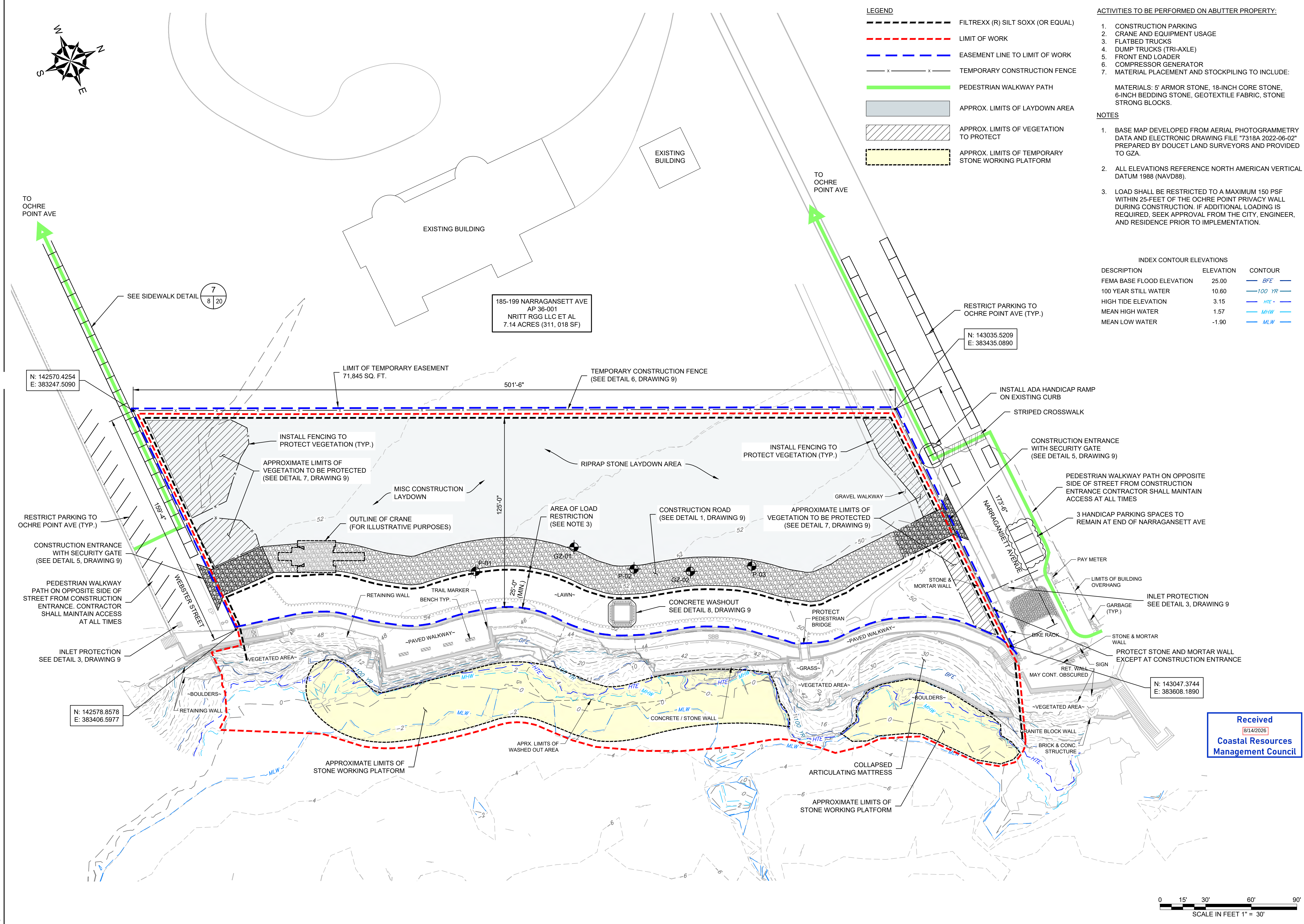
REV	DESCRIPTION	DATE	BY

PROJECT NO:	33884.01
DATE:	DECEMBER, 2025
PROJECT MGR:	TWS
DESIGNED BY:	SAB
DRAWN BY:	GRB
CHECKED BY:	TWS
REVIEWED BY:	MJP
SCALE:	AS NOTED
REVISION NO.	

NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

SUBSURFACE EXPLORATION PROFILES

DRAWING
7
SHEET NO. 7 OF 21



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PREPARED FOR:

City of Newport
RHODE ISLAND
Sealed 1639

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MATTHEW J. PAGE
No. 9448
REGISTERED PROFESSIONAL ENGINEER
CIVIL

PERMITTING
NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	BY

PROJECT NO: 33884.01
DATE: AUGUST, 2026
PROJECT MGR: TWS
DESIGNED BY: SAB
DRAWN BY: GRB
CHECKED BY: TWS
REVIEWED BY: MJP
SCALE: AS NOTED
REVISION NO.

NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

**TEMPORARY CONTROLS
AND EASEMENT PLAN**

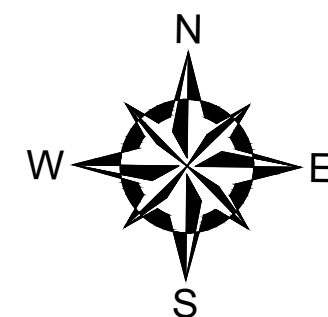
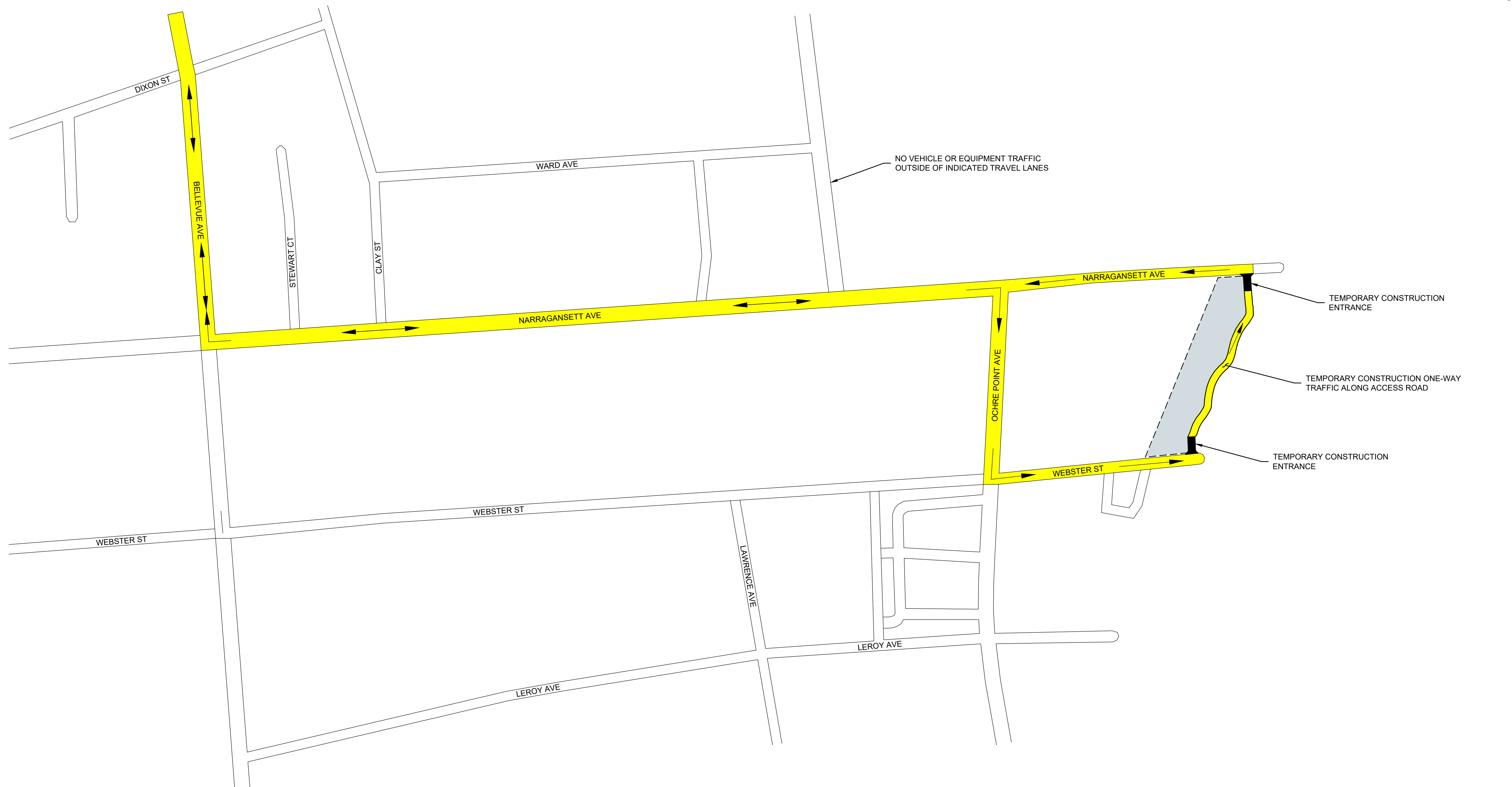
DRAWING
8
SHEET NO. 8 OF 21

Received
8/14/2026
Coastal Resources
Management Council



SHEET NO. 9 OF 21

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LEGEND

 VEHICLE DIRECTION OF TRAVEL

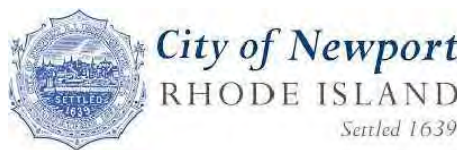
Received
8/14/2026
Coastal Resources Management Council

0 75' 150' 300' 450'
SCALE IN FEET 1" = 150'



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PREPARED FOR:



City of Newport
RHODE ISLAND
Founded 1639

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REV	DESCRIPTION	DATE	BY

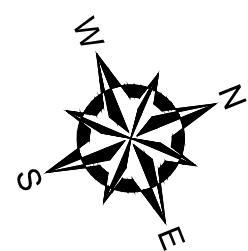
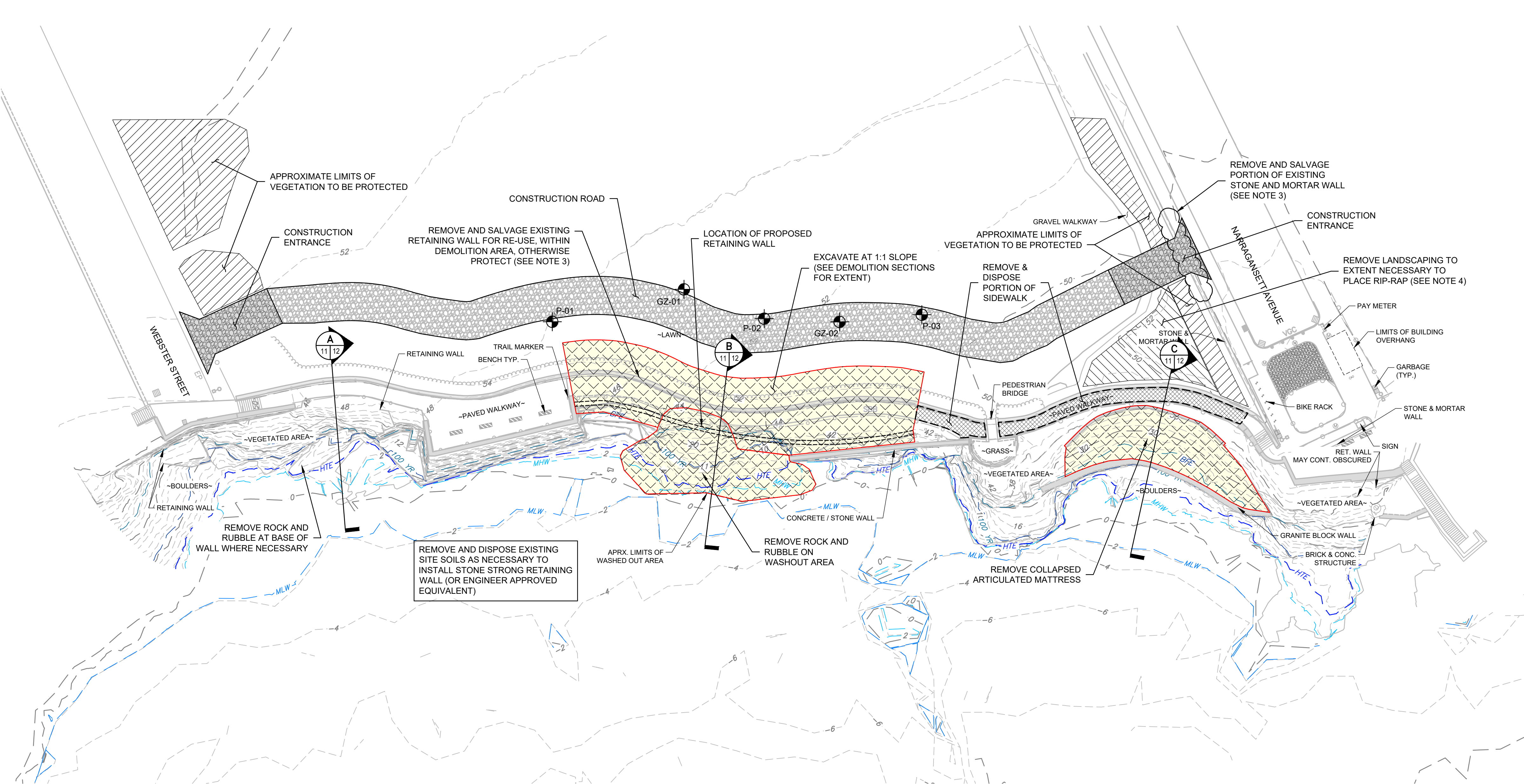
PROJECT NO: 33884.01
DATE: DECEMBER, 2025
PROJECT MGR: TWS
DESIGNED BY: SAB
DRAWN BY: GRB
CHECKED BY: TWS
REVIEWED BY: MJP
SCALE: AS NOTED
REVISION NO.

NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

TRAFFIC CONTROLS PLAN

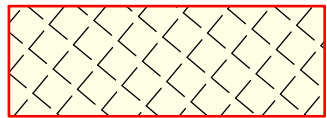
DRAWING
10
SHEET NO. 10 OF 21

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Received
8/14/2025
Coastal Resources
Management Council

LEGEND:



INDICATES AREAS OF SLOPE, ROCK AND DEBRIS TO BE REMOVED

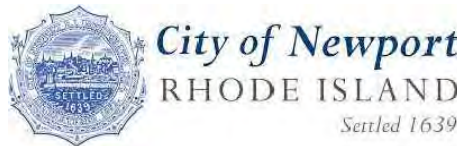
INDEX CONTOUR ELEVATIONS		
DESCRIPTION	ELEVATION	CONTOUR
FEMA BASE FLOOD ELEVATION	25.00	— BFE —
100 YEAR STILL WATER	10.60	— 100 YR —
HIGH TIDE ELEVATION	3.15	— HTE —
MEAN HIGH WATER	1.57	— MHW —
MEAN LOW WATER	-1.90	— MLW —

NOTES

1. BASE MAP DEVELOPED FROM AERIAL PHOTOGRAMMETRY DATA AND ELECTRONIC DRAWING FILE "7318A 2022-06-02" PREPARED BY DOUCET LAND SURVEYORS AND PROVIDED TO GZA.
2. ALL ELEVATIONS REFERENCE NORTH AMERICAN VERTICAL DATUM 1988(NAVD88).
3. CONTRACTOR SHALL INVENTORY ALL WALL SYSTEMS PRIOR TO DEMOLITION. INVENTORY SHALL CONSIST OF DOCUMENTING WELL HEIGHT, WIDTH AND LENGTH USING FIELD NOTES AND PHOTOGRAPHS. CONTRACTOR SHALL STOCKPILE ALL STONE ASSOCIATED WITH EXISTING RETAINING WALL FOR REUSE. SEPARATE STOCKPILES OF EACH WELL SYSTEM SHALL BE MAINTAINED.
4. CONTRACTOR SHALL INVENTORY ALL SHRUBS, BUSHES, PLANTINGS, AND TREES PRIOR TO REMOVAL. INVENTORY SHALL CONSIST OF SPECIES TYPE, QUANTITY, AND PHOTO DOCUMENTATION.



PREPARED FOR:



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MATTHEW J. PAGE



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REV	DESCRIPTION	DATE	BY

PROJECT NO: 33884.01
DATE: DECEMBER, 2025
PROJECT MGR: TWS
DESIGNED BY: SAB
DRAWN BY: GRB
CHECKED BY: TWS
REVIEWED BY: MJP
SCALE: AS NOTED
REVISION NO.

NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

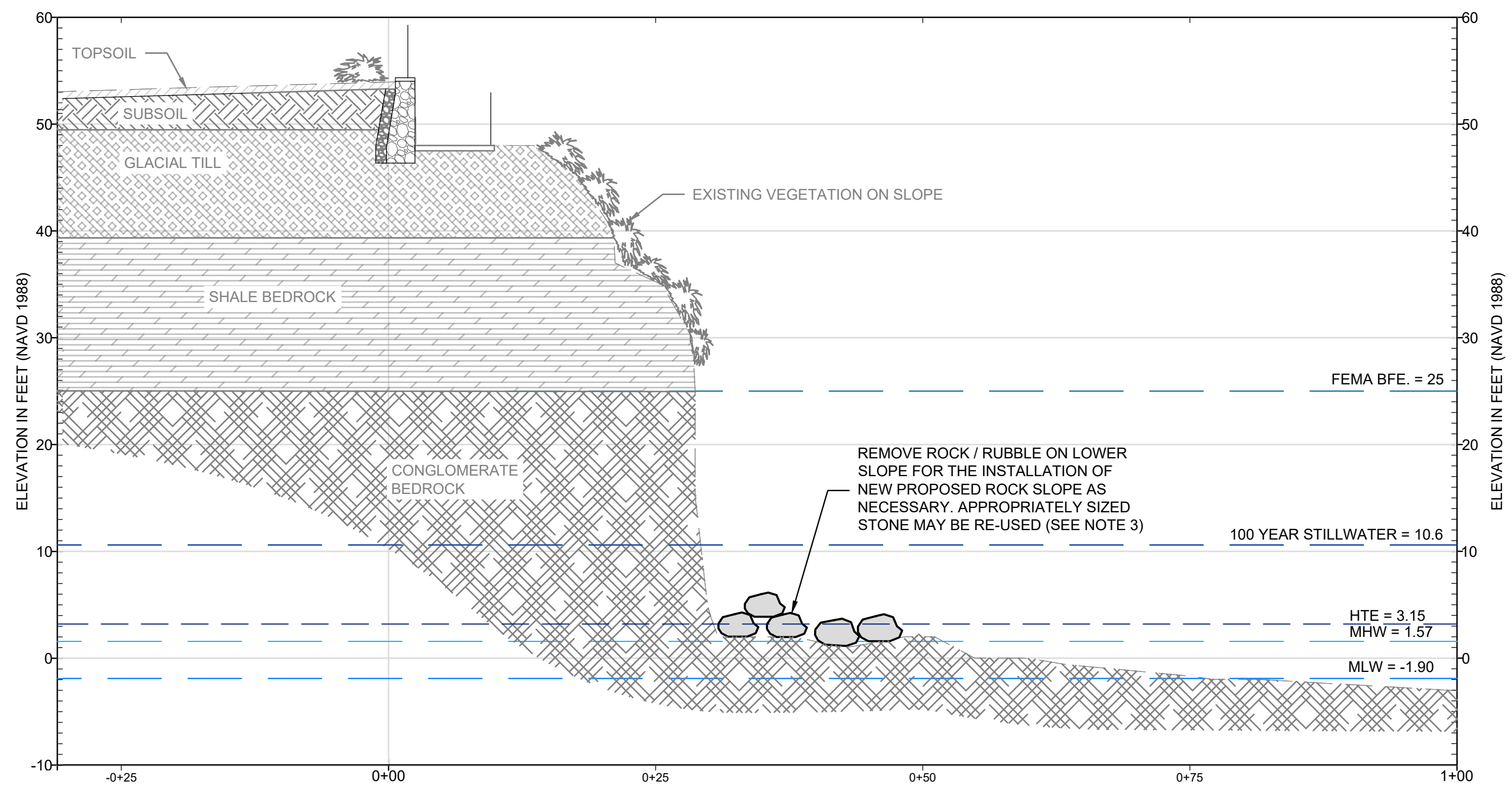
DEMOLITION PLAN

DRAWING

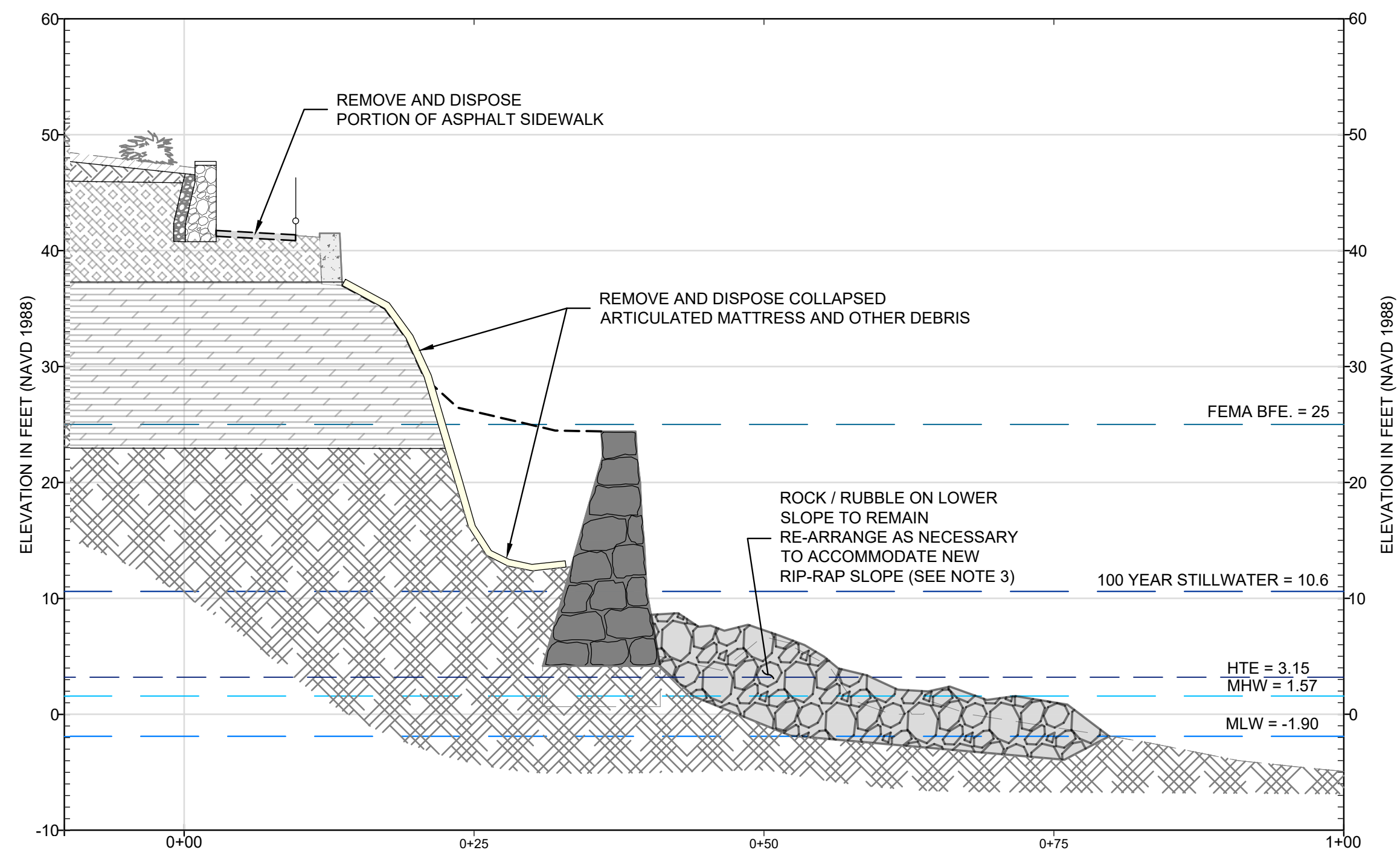
11

SHEET NO. 11 OF 21

© 2025 - GZA GeoEnvironmental, Inc. GZA--A (GEO) 33884.01 TWS (GAI) (CURRENT) PLANS 100% DESIGN 12-25 V12 DEMOLITION SECTIONS.DWG 12 DEMO SECTIONS A-A' AND B-B' September 24, 2025 GARY BASTIEN



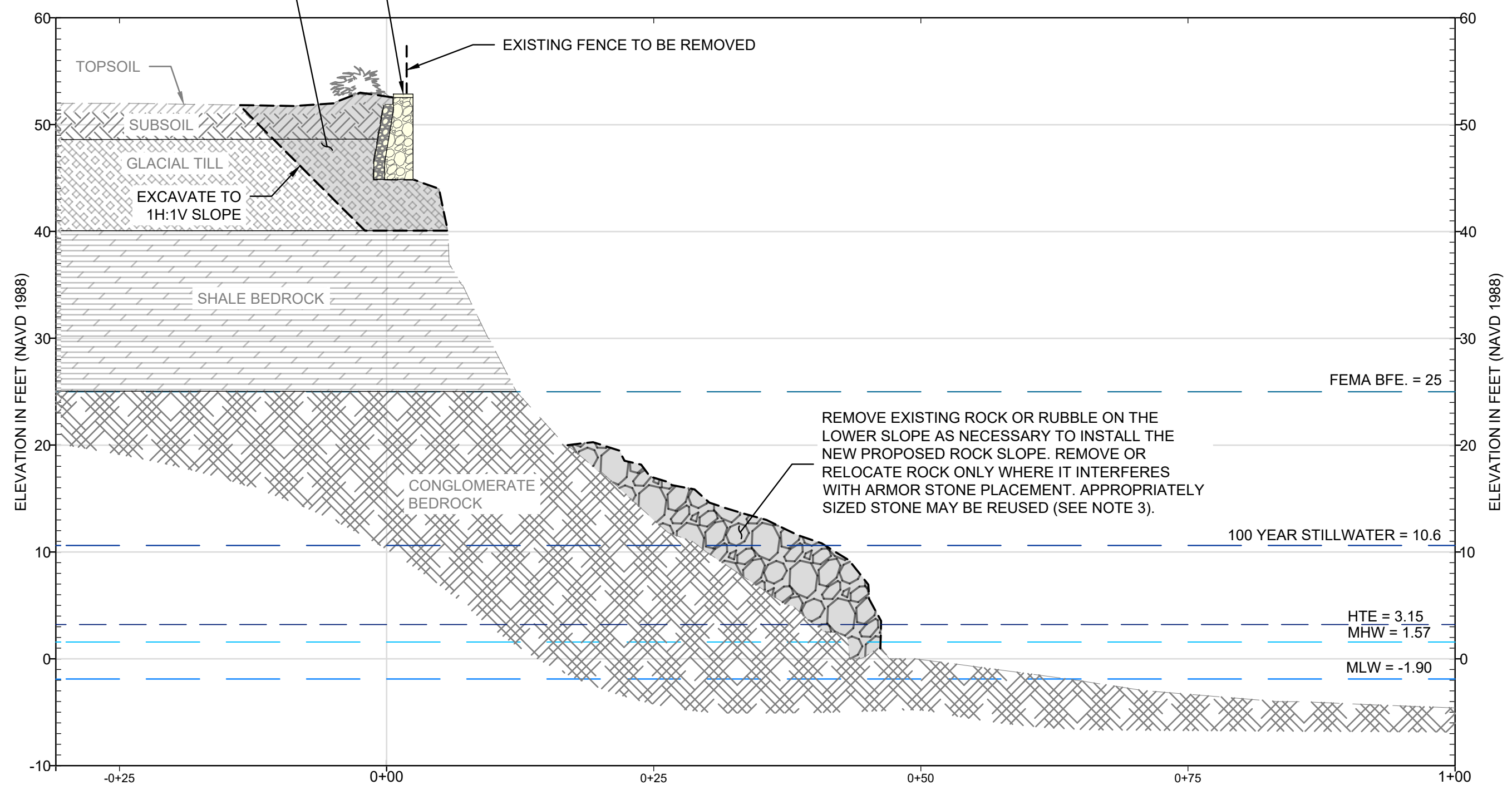
A DEMOLITION SECTION A-A'
SCALE: 1"=10'



C DEMOLITION SECTION E-E'
SCALE: 1"=10'

REMOVE AND SALVAGE EXISTING RETAINING WALL FASCIA STONE AND BLUESTONE CAP FOR RE-CONSTRUCTION AT AREAS BEHIND PROPOSED STONE STRONG RETAINING WALLS

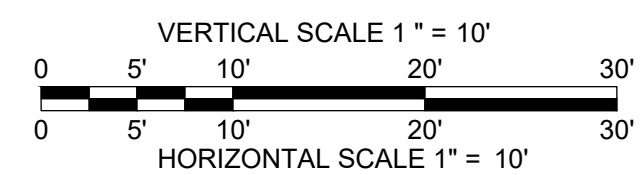
APPROXIMATE LIMITS OF REMOVAL AND STOCKPILE OF EXISTING SITE SOILS AS NECESSARY FOR THE INSTALLATION OF STONE STRONG RETAINING WALL



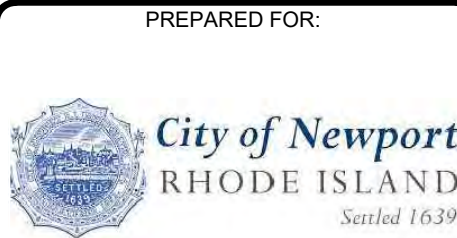
B DEMOLITION SECTION C-C'
SCALE: 1"=10'

NOTE:

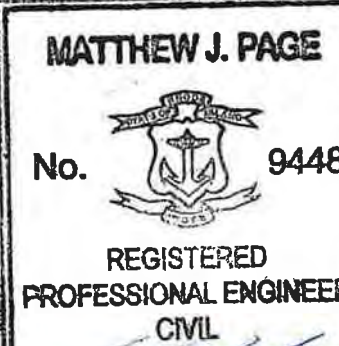
1. LIMITS OF SLOPE MAY VARY. CONTRACTOR SHALL VERIFY IN FIELD. DRAWINGS ARE FOR ILLUSTRATIVE PURPOSES ONLY.
2. SALVAGE EXISTING RETAINING WALL STONE FOR FUTURE RECONSTRUCTION TO MATCH ADJACENT WALL SYSTEM.
3. ROCK RUBBLE MAY BE RE-USED AS RIP-RAP PROVIDED SIZE IS ADEQUATE. CONTRACTOR SHALL IN NO WAY REMOVE MATERIAL THAT MAY LEAD TO DESTABILIZATION OF EXISTING SLOPE.



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REV	DESCRIPTION	DATE	BY

PROJECT NO:	33884.01
DATE:	DECEMBER, 2025
PROJECT MGR:	TWS
DESIGNED BY:	SAB
DRAWN BY:	GRB
CHECKED BY:	TWS
REVIEWED BY:	MJP
SCALE:	AS NOTED
REVISION NO.	

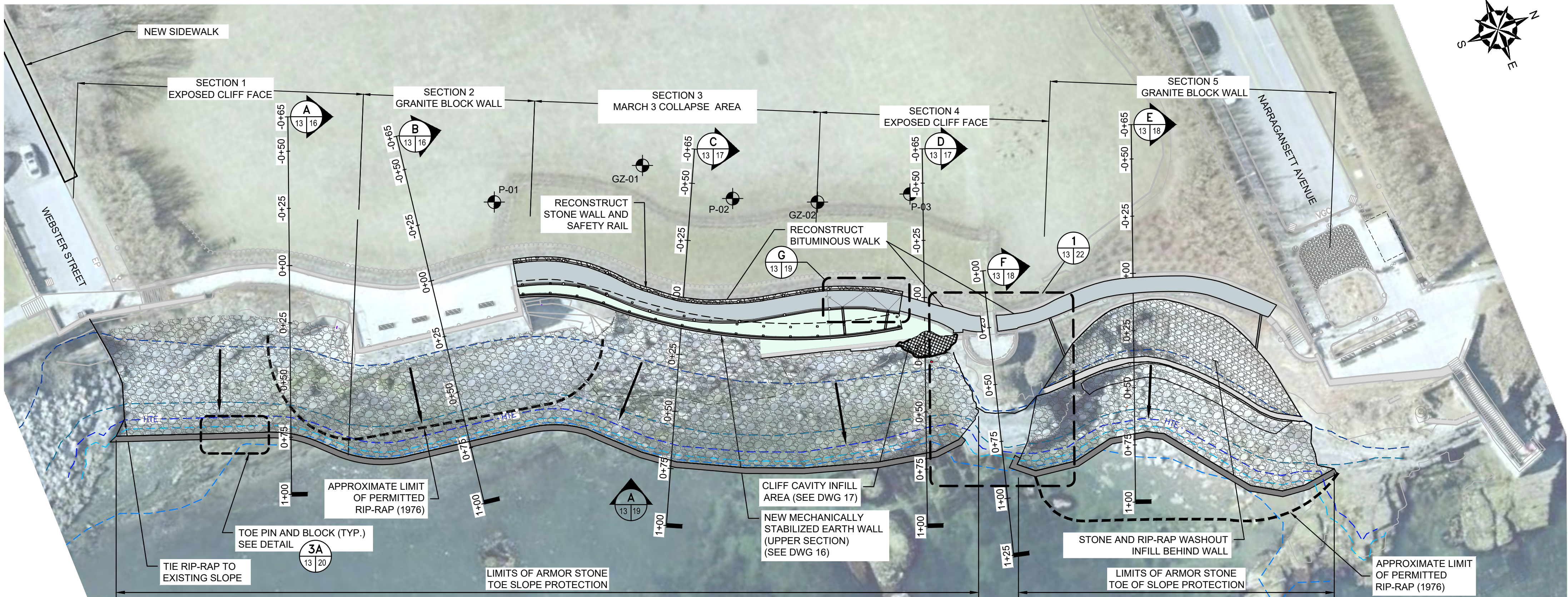
Received
8/14/2026
Coastal Resources
Management Council

NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

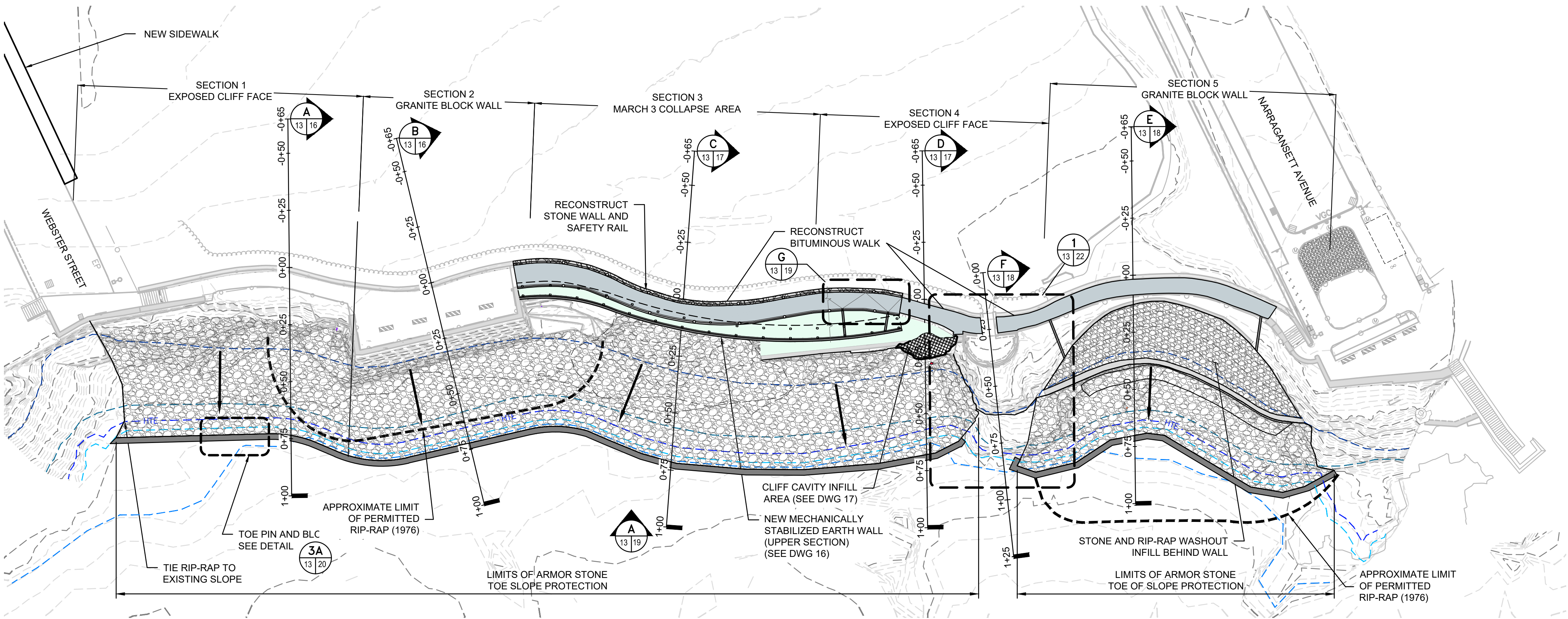
DEMOLITION SECTIONS

DRAWING
12
SHEET NO. 12 OF 21

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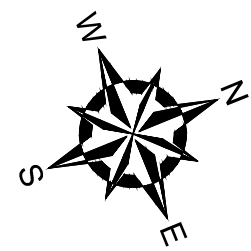


AERIAL SITE PLAN



PROPOSED IMPROVEMENTS

NOTES
ALL PROPOSED ARMOR STONE PROTECTION SLOPES
TO BE (1.5H:1V) - SEE PROPOSED SECTIONS



NOTES

1. BASE MAP DEVELOPED FROM AERIAL PHOTOGRAMMETRY DATA AND ELECTRONIC DRAWING FILE "7318A 2022-06-02" PREPARED BY DOUCET LAND SURVEYORS AND PROVIDED TO GZA.
2. ALL ELEVATIONS REFERENCE NORTH AMERICAN VERTICAL DATUM 1988(NAVD88).

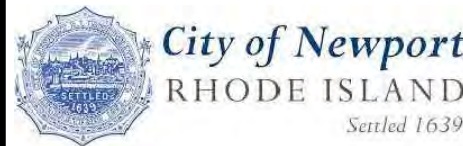
LEGEND

- INDICATES BORINGS/PROBES PERFORMED BY NEW ENGLAND BORING AND OBSERVED BY GZA PERSONNEL.
- RETAINING WALL
- CHAIN LINK FENCE
- HANDRAIL
- SHRUB LINE
- MAJOR CONTOUR 10 FOOT INTERVAL
- MINOR CONTOUR 2 FOOT INTERVAL
- SLOPE DOWN DIRECTION
- LIMIT OF WORK
- PROPOSED SAFETY FENCE
- PROPOSED PAVED WALK
- CAST IN PLACE STEPPED WALL
- RIP-RAP TOE OF WALL PROTECTION
- GROUT BAG TOE PROTECTION

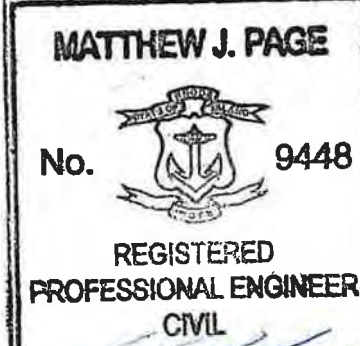
INDEX CONTOUR ELEVATIONS		
DESCRIPTION	ELEVATION	CONTOUR
FEMA BASE FLOOD ELEVATION	25.00	BFE
100 YEAR STILL WATER	10.60	100 YR
HIGH TIDE ELEVATION	3.15	HTE
MEAN HIGH WATER	1.57	MHW
MEAN LOW WATER	-1.90	MLW



PREPARED FOR:



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PERMITTING
NOT FOR CONSTRUCTION

REV DESCRIPTION DATE BY

PROJECT NO: 33884.01
DATE: AUGUST, 2026
PROJECT MGR: TWS
DESIGNED BY: SAB
DRAWN BY: GRB
CHECKED BY: TWS
REVIEWED BY: MJP
SCALE: AS NOTED
REVISION NO.

NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

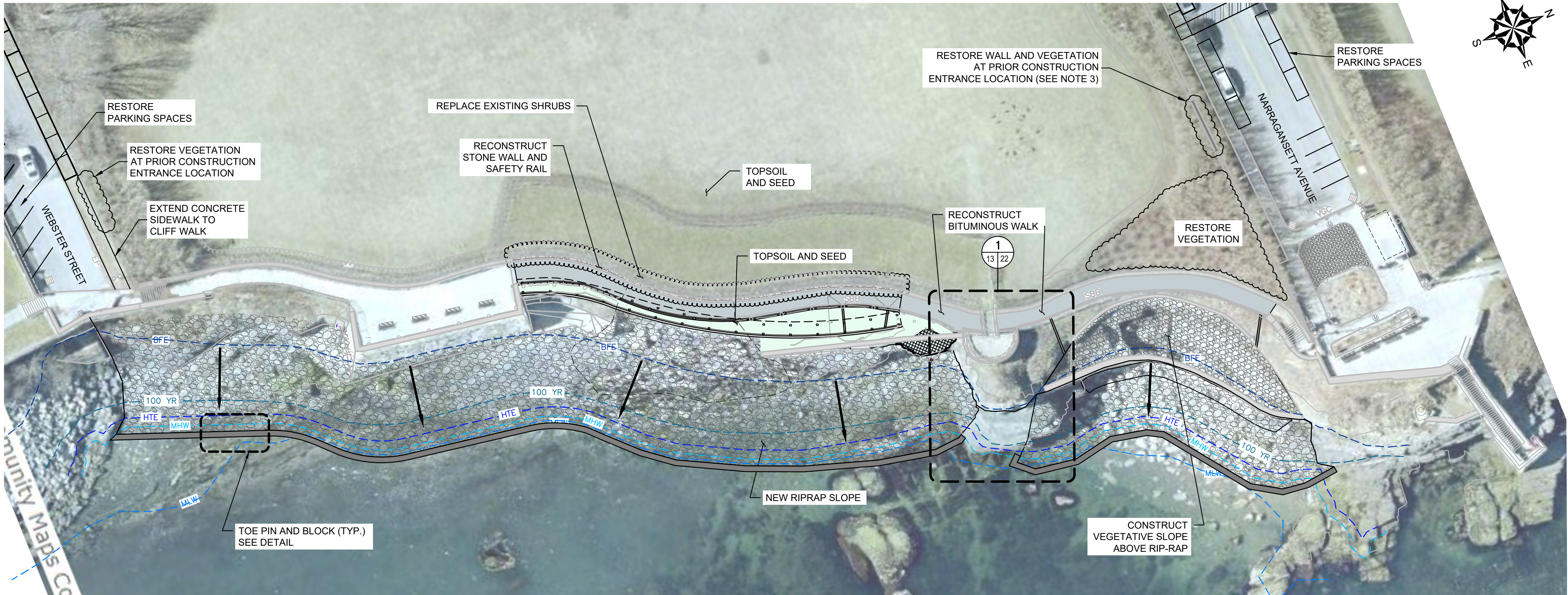
PROPOSED CONDITIONS PLAN

DRAWING

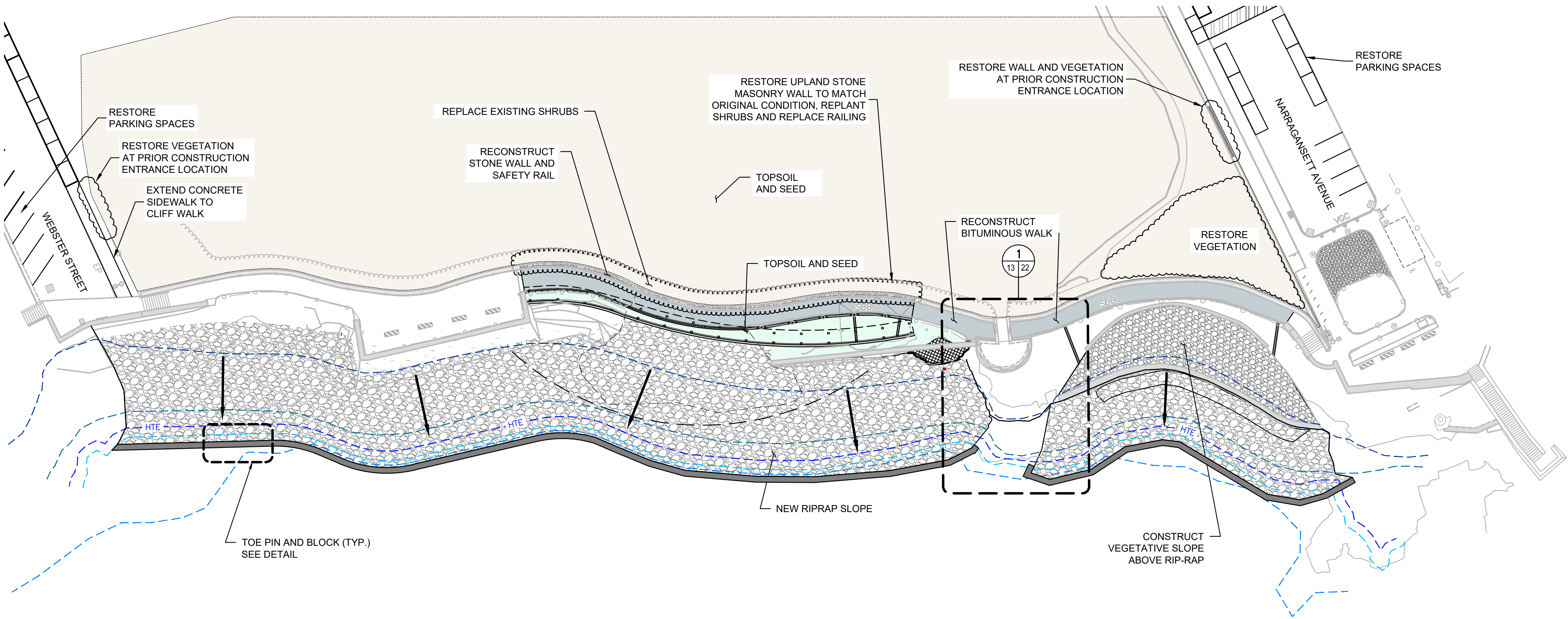
13

SHEET NO. 13 OF 21

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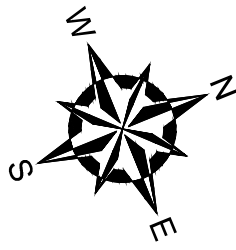


AERIAL SITE PLAN



PROPOSED IMPROVEMENTS

NOTES
ALL PROPOSED ARMOR STONE PROTECTION SLOPES
TO BE (1.5H:1V) - SEE PROPOSED SECTIONS



NOTES

1. BASE MAP DEVELOPED FROM AERIAL PHOTOGRAMMETRY DATA AND ELECTRONIC DRAWING FILE "7318A 2022-06-02" PREPARED BY DOUCET LAND SURVEYORS AND PROVIDED TO GZA.
2. ALL ELEVATIONS REFERENCE NORTH AMERICAN VERTICAL DATUM 1988(NAVD88).
3. AS OUTLINED IN CONTRACT DOCUMENTS WELL SYSTEMS AND VEGETATION SHALL BE RESTORED TO PREVIOUS CONDITIONS. CONTRACTOR SHALL RELY UPON QUALIFIED CONSULTANTS / SUBCONTRACTORS AND INFORMATION GATHERED THROUGH PRE-CONSTRUCTION SURVEYS / INVENTORIES TO MATCH PREVIOUS CONDITIONS.
4. INSTALL REVETMENT STONES WITHIN SECTION F FOLLOWING PLACEMENT OF REVETMENT ALONG ALL OTHER PORTIONS OF CLIFF WALK OR OTHER.

LEGEND

- RETAINING WALL
- CHAIN LINK FENCE
- HANDRAIL
- SHRUB LINE
- MAJOR CONTOUR 10 FOOT INTERVAL
- MINOR CONTOUR 2 FOOT INTERVAL
- SLOPE DOWN DIRECTION
- LIMIT OF WORK
- PROPOSED SAFETY FENCE
- PROPOSED PAVED WALK
- CAST IN PLACE STEPPED WALL
- RIP-RAP TOE OF WALL PROTECTION
- GROUT BAG TOE PROTECTION
- TOPSOIL AND SEED

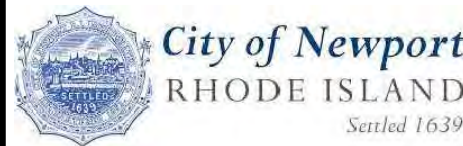
INDEX CONTOUR ELEVATIONS		
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FEMA BASE FLOOD ELEVATION	25.00	---BFE---
100 YEAR STILL WATER	10.60	---100 YR---
HIGH TIDE ELEVATION	3.15	---HTE---
MEAN HIGH WATER	1.57	---MHW---
MEAN LOW WATER	-1.90	---MLW---

Received
8/14/2026
Coastal Resources
Management Council

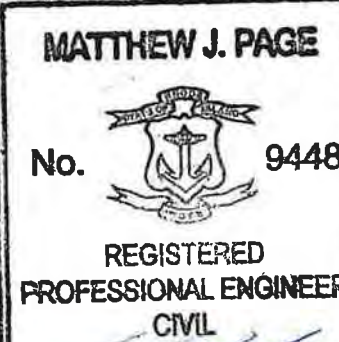
0 15' 30' 60' 90'
SCALE IN FEET 1" = 30'



PREPARED FOR:



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PERMITTING
NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	BY

PROJECT NO:	33884.01
DATE:	AUGUST, 2026
PROJECT MGR:	TWS
DESIGNED BY:	SAB
DRAWN BY:	GRB
CHECKED BY:	TWS
REVIEWED BY:	MJP
SCALE:	AS NOTED
REVISION NO.	

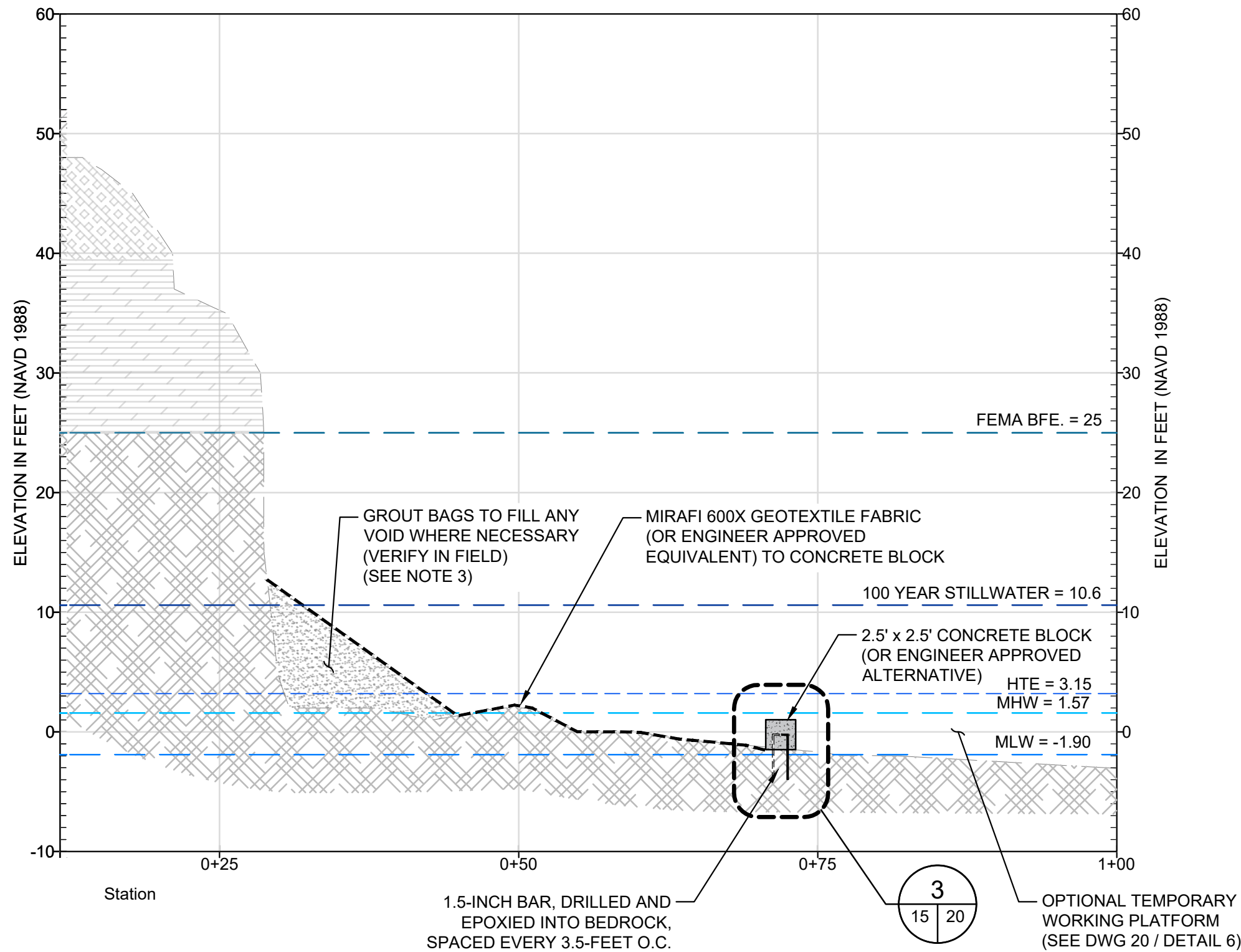
NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

FINAL - RESTORATION PLAN

DRAWING

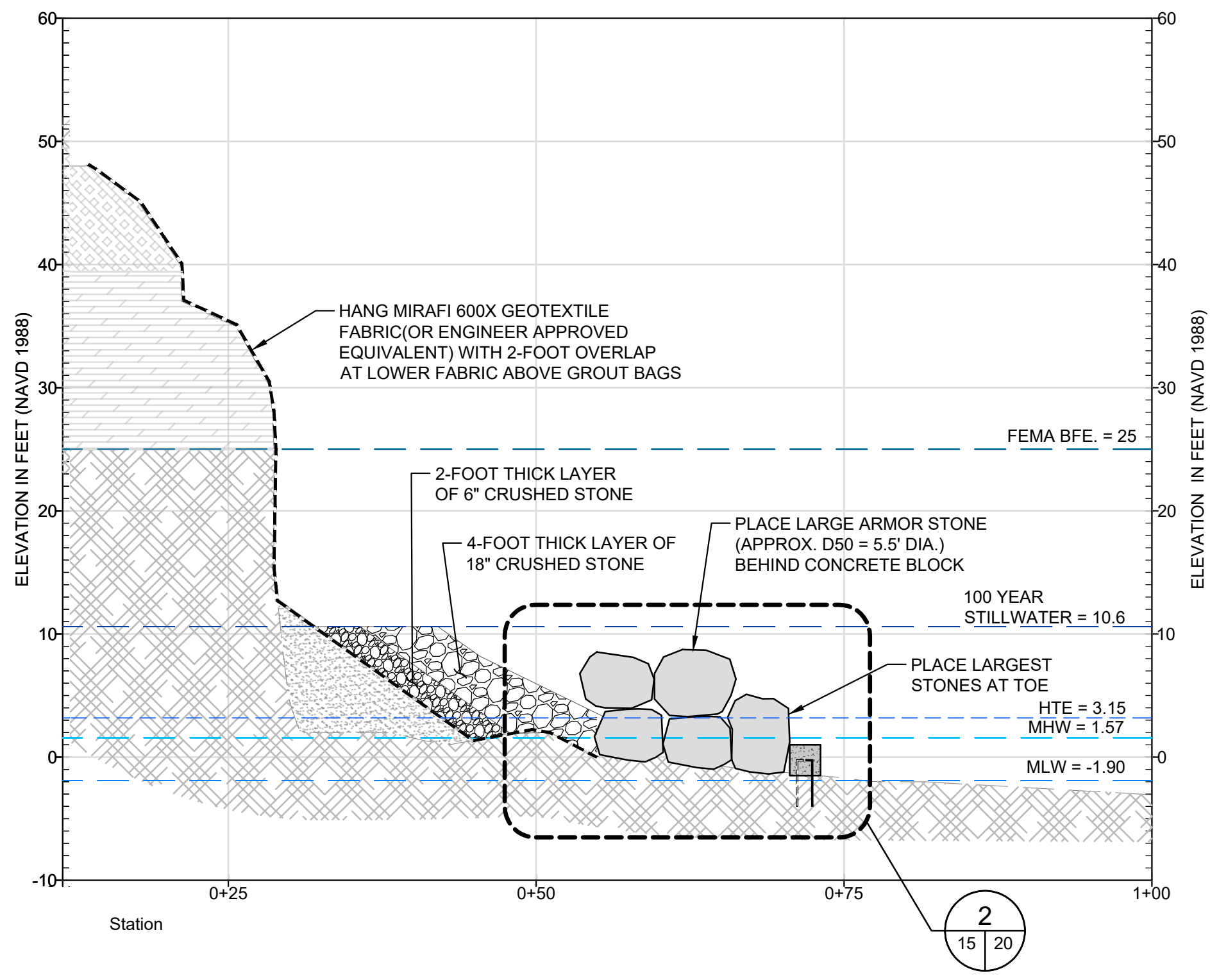
14

SHEET NO. 14 OF 21

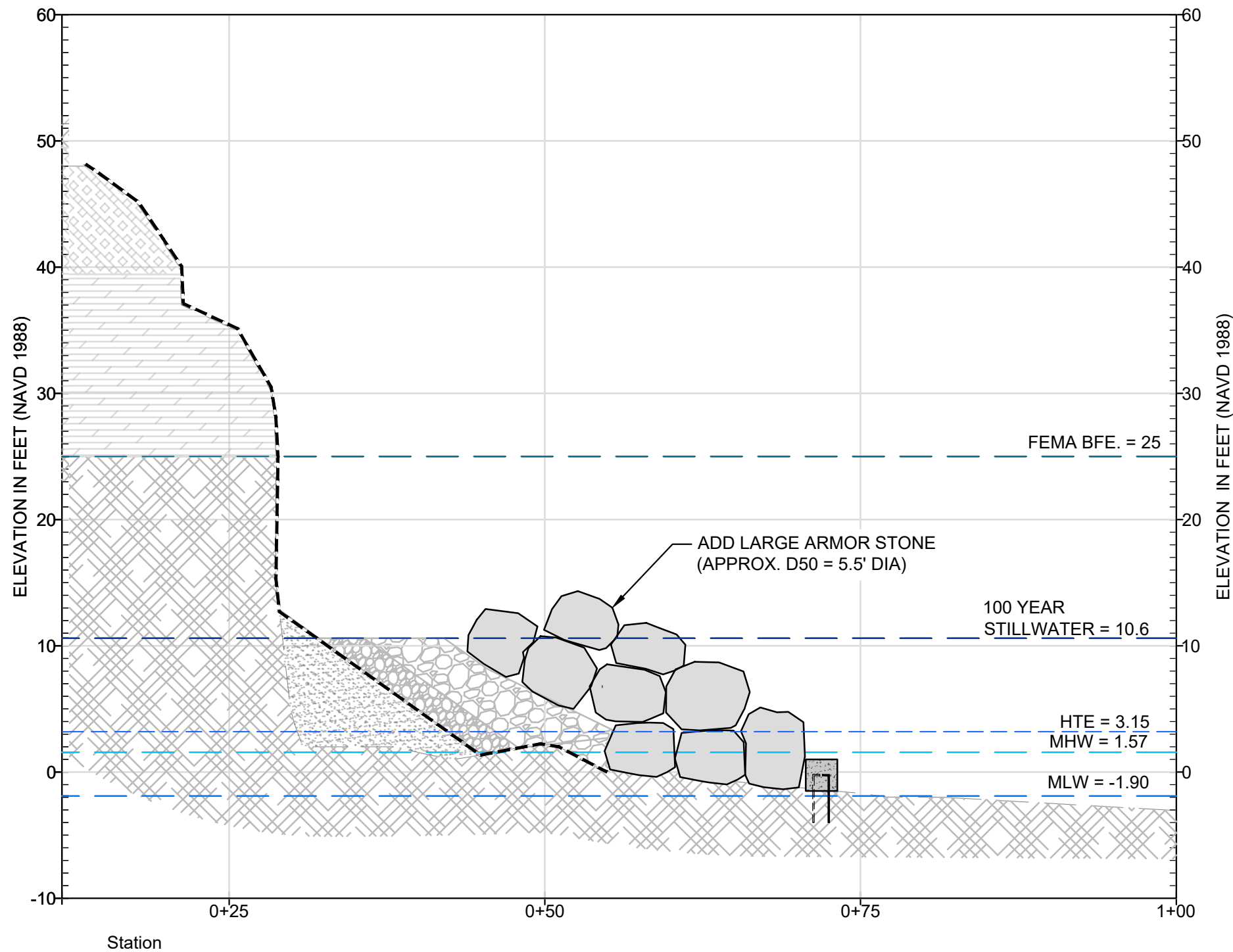


TYPICAL REVETMENT CONSTRUCTION - PHASE 1
SCALE: 1"=10'

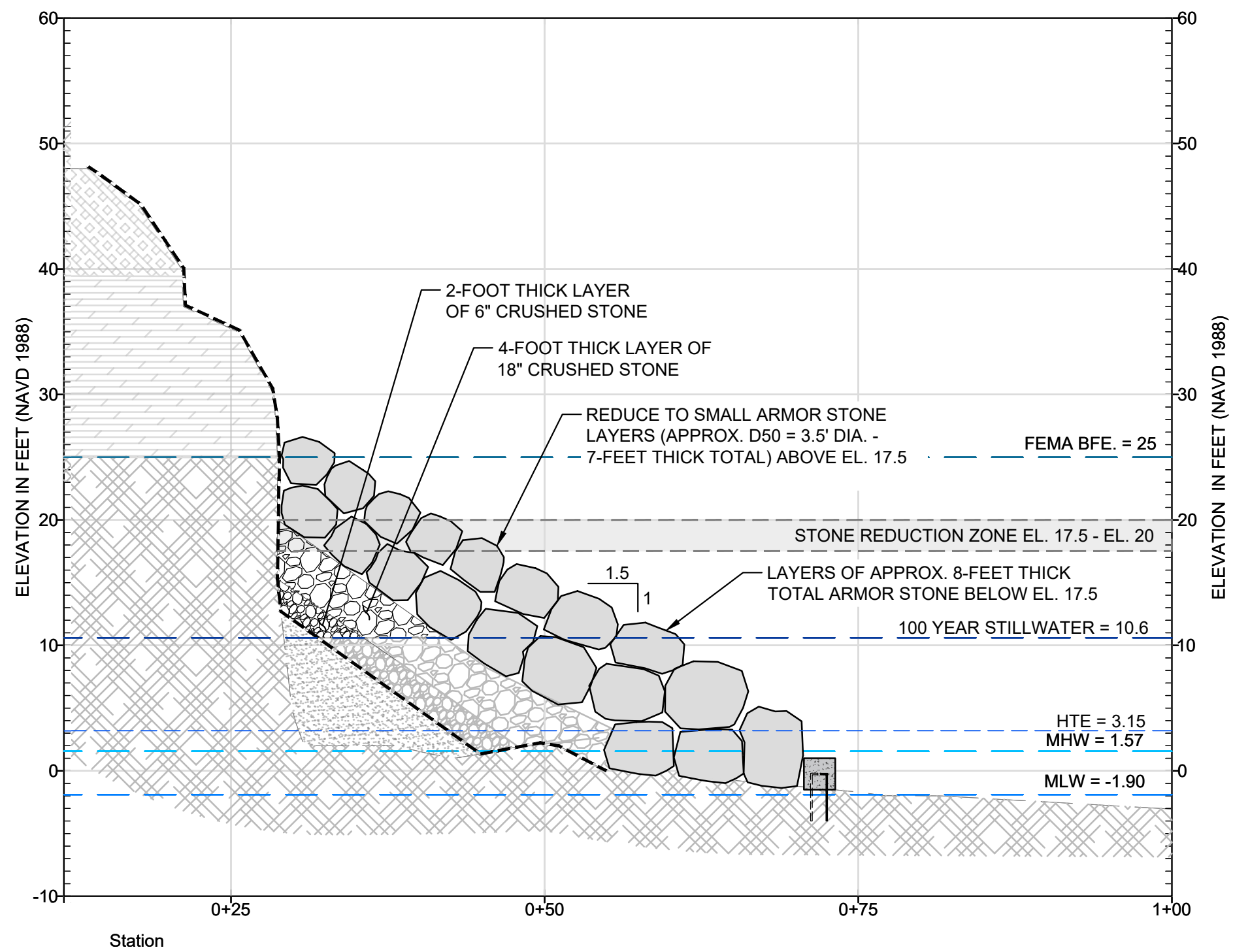
NOTE:
SECTION A-A SHOWN
(TYPICAL FOR ALL SECTIONS)



TYPICAL REVETMENT CONSTRUCTION - PHASE 2
SCALE: 1"=10'



TYPICAL REVETMENT CONSTRUCTION - PHASE 3
SCALE: 1"=10'



TYPICAL REVETMENT CONSTRUCTION - PHASE 4
SCALE: 1"=10'

LARGE ARMOR STONE (Below EL. 20ft.)		
	STONE WEIGHT (LB) (EACH)	NOMINAL DIAMETER (FT)
MAX	36700	6.1
50% (D.50)	30000	5.6
MIN	22000	5.1

SMALL ARMOR STONE (Above EL. 20ft.)		
	STONE WEIGHT (LB) (EACH)	NOMINAL DIAMETER (FT)
MAX	30000	5.6
50% (D.50)	7500	3.5
15% (D.15)	4000	2.8
MIN	937.5	1.8

CORE STONE		
	STONE WEIGHT (LB) (EACH)	NOMINAL DIAMETER (FT)
MAX	621.1	1.6
50% (D.50)	155.3	1.2
15% (D.15)	77.6	0.8
MIN	19.4	0.5

BEDDING STONE		
	STONE WEIGHT (LB) (EACH)	NOMINAL DIAMETER (IN)
MAX	44.9	8.0
50% (D.50)	11.2	4.8
15% (D.15)	5.6	3.8
MIN	1.4	0.2

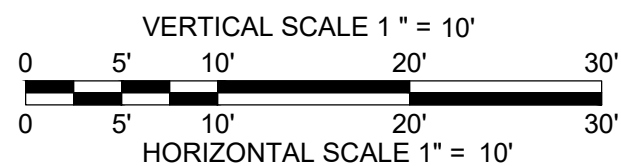
NOTES:

- NOMINAL DIAMETER OF THE ARMOR STONE WAS CALCULATED USING AN EQUIVALENT CUBIC VOLUME ESTIMATION. STONE SIZING SHOULD BE DETERMINED IN THE FIELD USING THE STONE WEIGHT.
- BASE AND CORE MATERIAL SHALL CONSIST OF ANGULAR, QUARRIED, CRUSHED STONE. STONE SHALL HAVE A MINIMUM DENSITY OF 160 POUNDS PER CUBIC FOOT AND A MINIMUM DIMENSION NOT LESS THAN ONE THIRD OF THE MAXIMUM DIMENSION. REFER TO RI DOT "M.10.03.2 STONE FOR RIPRAP", NSA NO. R-2 (SEE GRADATION ABOVE).
- PRIOR TO FILLING OF VOIDS BEYOND LIMITS OF REVETMENT, CONTRACTOR SHALL COORDINATE APPROVAL WITH ENGINEER AND OWNER.
- GROUT BAGS SHALL BE USED WHERE EXISTING MAN-MADE STRUCTURES HAVE BEEN UNDERMINED. STONES MAY BE USED IN LIEU OF GROUT BAGS AT OTHER LOCATIONS.

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CONSTRUCTION SEQUENCE:

- PLACE CONCRETE BLOCK AT TOE OF SLOPE. INSTALL 1.5 INCH DIA. BAR AND EPOXY WITH HILTI RE-500 OR APPROVED EQUIVALENT INTO BEDROCK.
- INSTALL GROUT BAGS IN NECESSARY VOID (VERIFY IN FIELD) (AS NECESSARY).
- HANG GEOTEXTILE FROM CLIFF FACE OVER GROUT BAGS (AS NECESSARY).
- PLACE 5.5 FOOT STONES BEHIND CONCRETE BLOCK.
- BEGIN INSTALLING CRUSHED STONE AND BEDDING LAYERS.
- PLACE 5.5 FOOT STONES ATOP BEDDING LAYER, AND BUILD SLOPE.
- AT ELEVATION 15.0 NAVD88, TRANSITION TO 3.5 FOOT ARMOR STONES.
- CONSTRUCT LAYERED SLOPE AT A 1.5H:1V TO NOTED ELEVATION.



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PERMITTING
NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	BY

PROJECT NO:	33884.01
DATE:	AUGUST, 2026
PROJECT MGR:	TWS
DESIGNED BY:	SAB
DRAWN BY:	GRB
CHECKED BY:	TWS
REVIEWED BY:	MJP
SCALE:	AS NOTED
REVISION NO.	

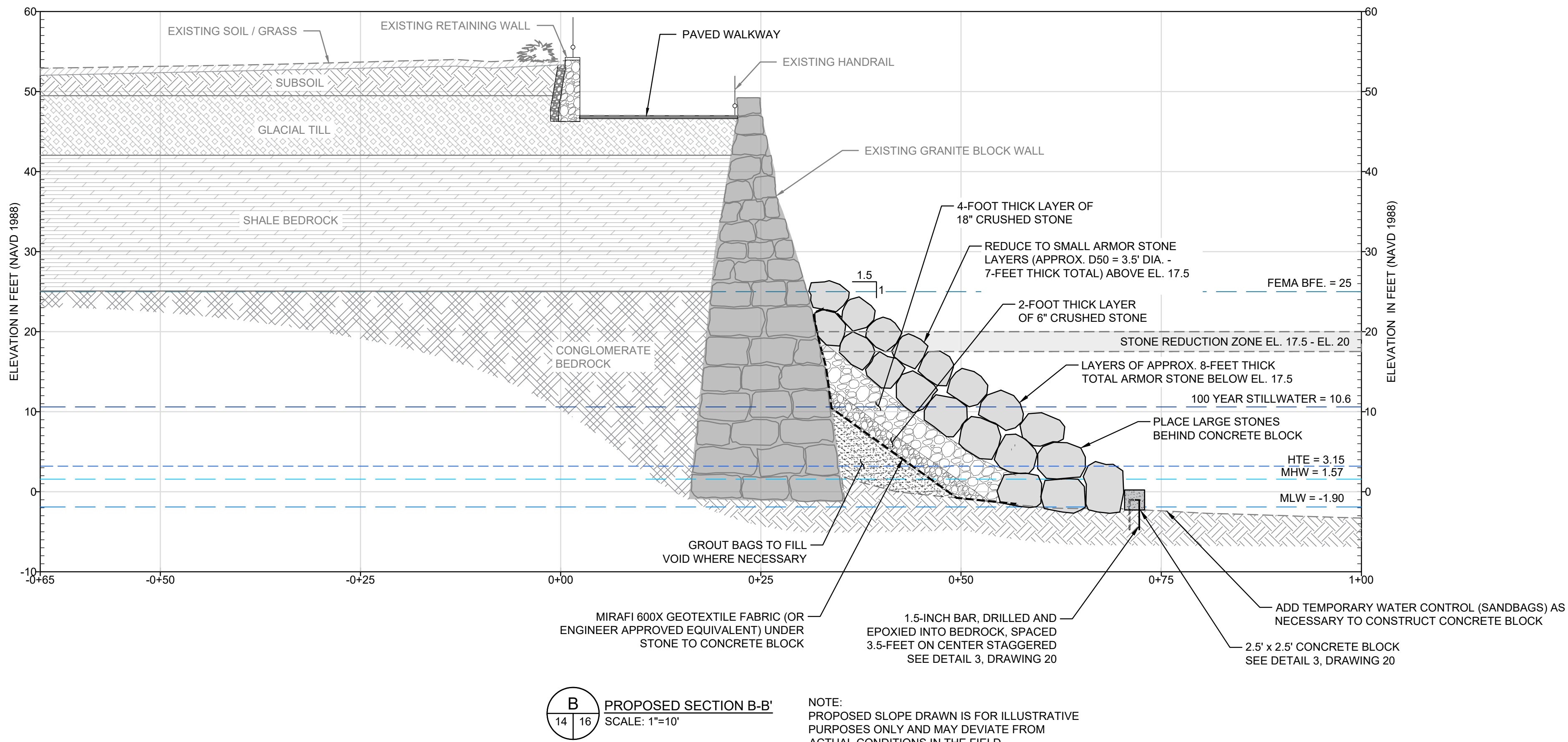
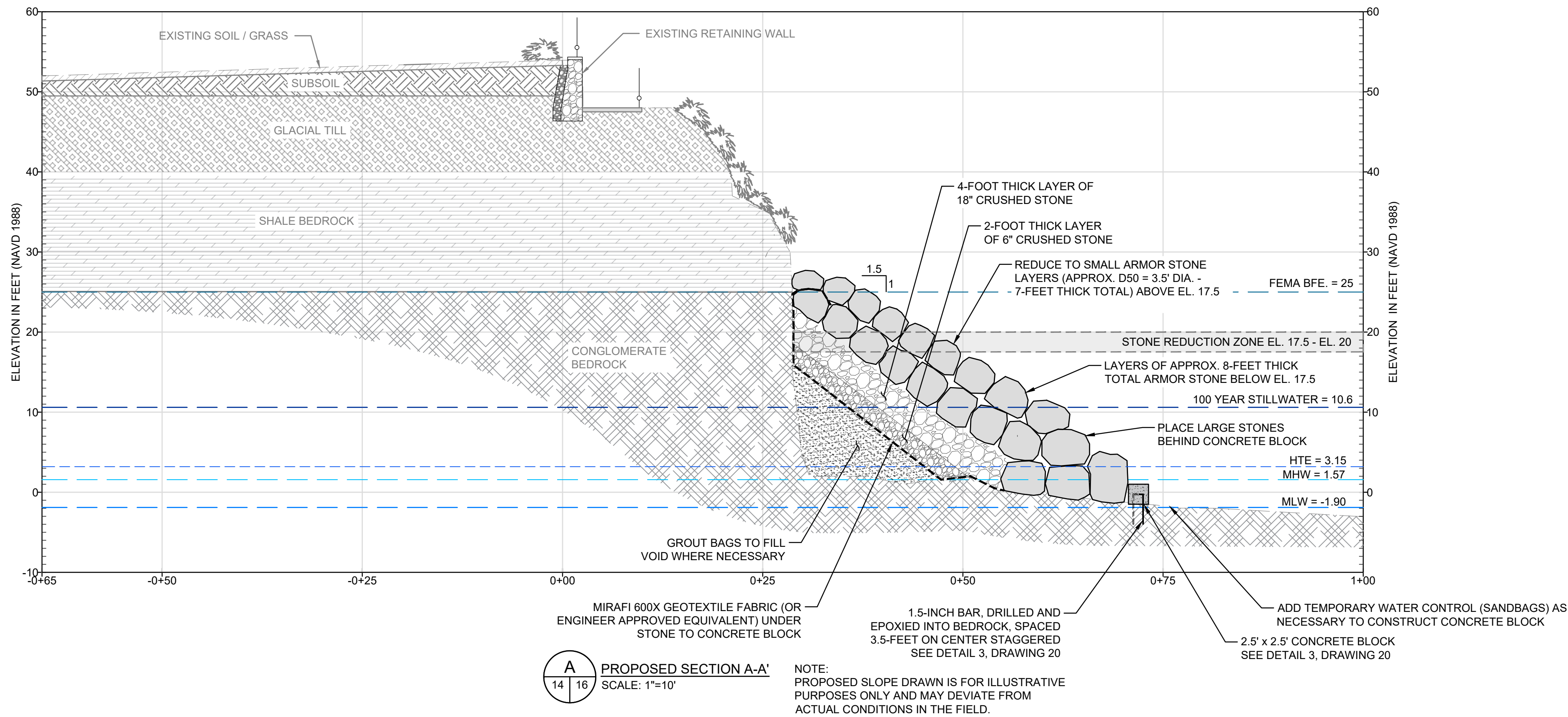
NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

TYPICAL REVETMENT
CONSTRUCTION PHASING

DRAWING

15

SHEET NO. 15 OF 21



LARGE ARMOR STONE (Below EL. 20ft.)		
	STONE WEIGHT (LB) (EACH)	NOMINAL DIAMETER (FT)
MAX	36700	6.1
50% (D.50)	30000	5.6
MIN	22000	5.1

SMALL ARMOR STONE (Above EL. 20ft.)		
	STONE WEIGHT (LB) (EACH)	NOMINAL DIAMETER (FT)
MAX	30000	5.6
50% (D.50)	7500	3.5
15% (D.15)	4000	2.8
MIN	937.5	1.8

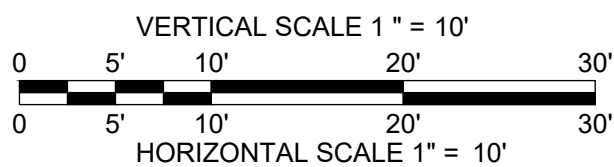
CORE STONE		
	STONE WEIGHT (LB) (EACH)	NOMINAL DIAMETER (FT)
MAX	621.1	1.6
50% (D.50)	155.3	1.2
15% (D.15)	77.6	0.8
MIN	19.4	0.5

BEDDING STONE		
	STONE WEIGHT (LB) (EACH)	NOMINAL DIAMETER (IN)
MAX	44.9	8.0
50% (D.50)	11.2	4.8
15% (D.15)	5.6	3.8
MIN	1.4	0.2

NOTES:

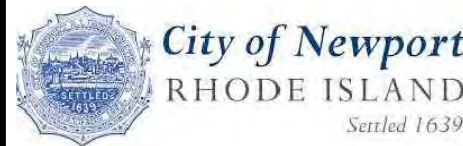
- NOMINAL DIAMETER OF THE ARMOR STONE WAS CALCULATED USING AN EQUIVALENT CUBIC VOLUME ESTIMATION. STONE SIZING SHOULD BE DETERMINED IN THE FIELD USING THE STONE WEIGHT.
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8/14/2026
Coastal Resources
Management Council

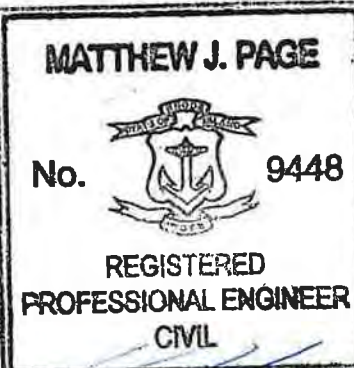


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PROJECT MGR:	TWS
DESIGNED BY:	SAB
DRAWN BY:	GRB
CHECKED BY:	TWS
REVIEWED BY:	MJP
SCALE:	AS NOTED
REVISION NO.	

NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

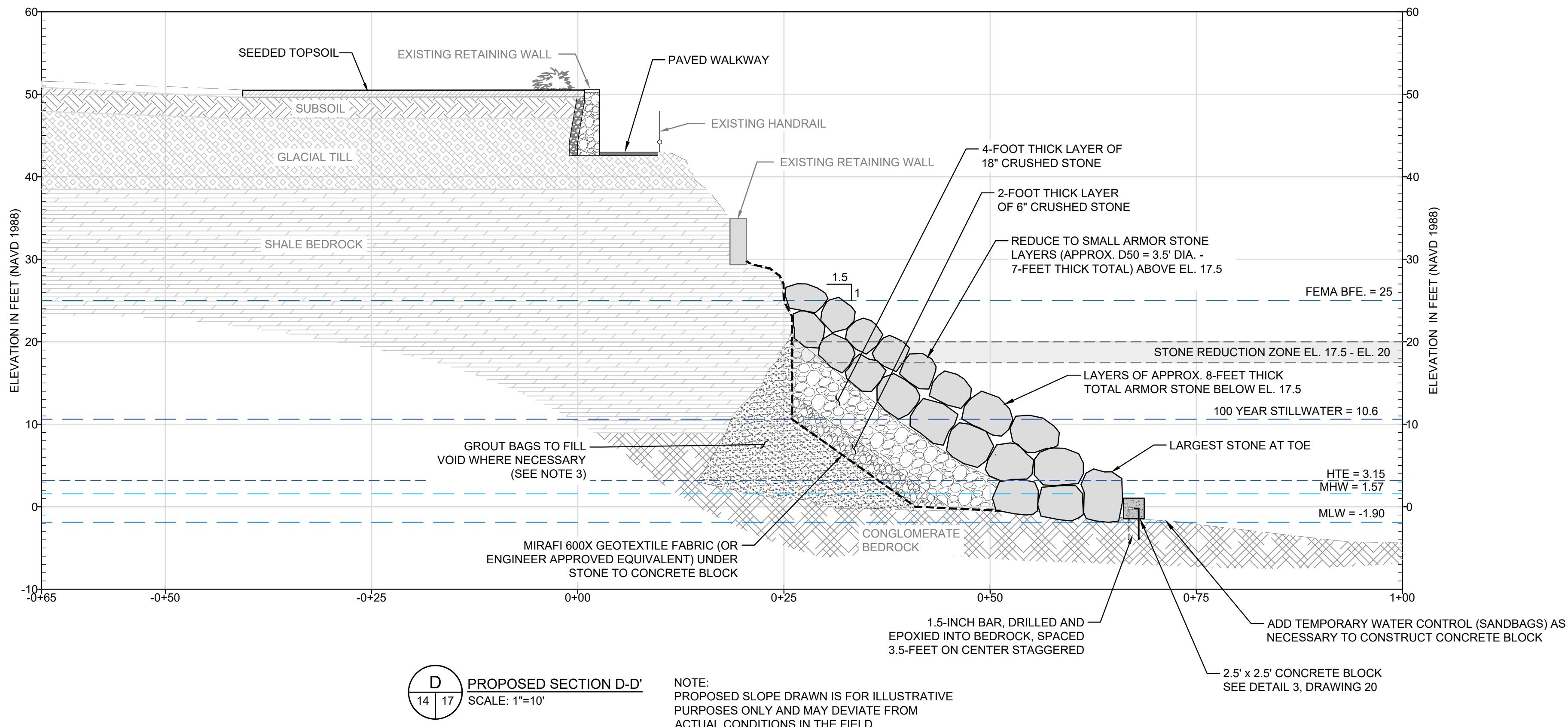
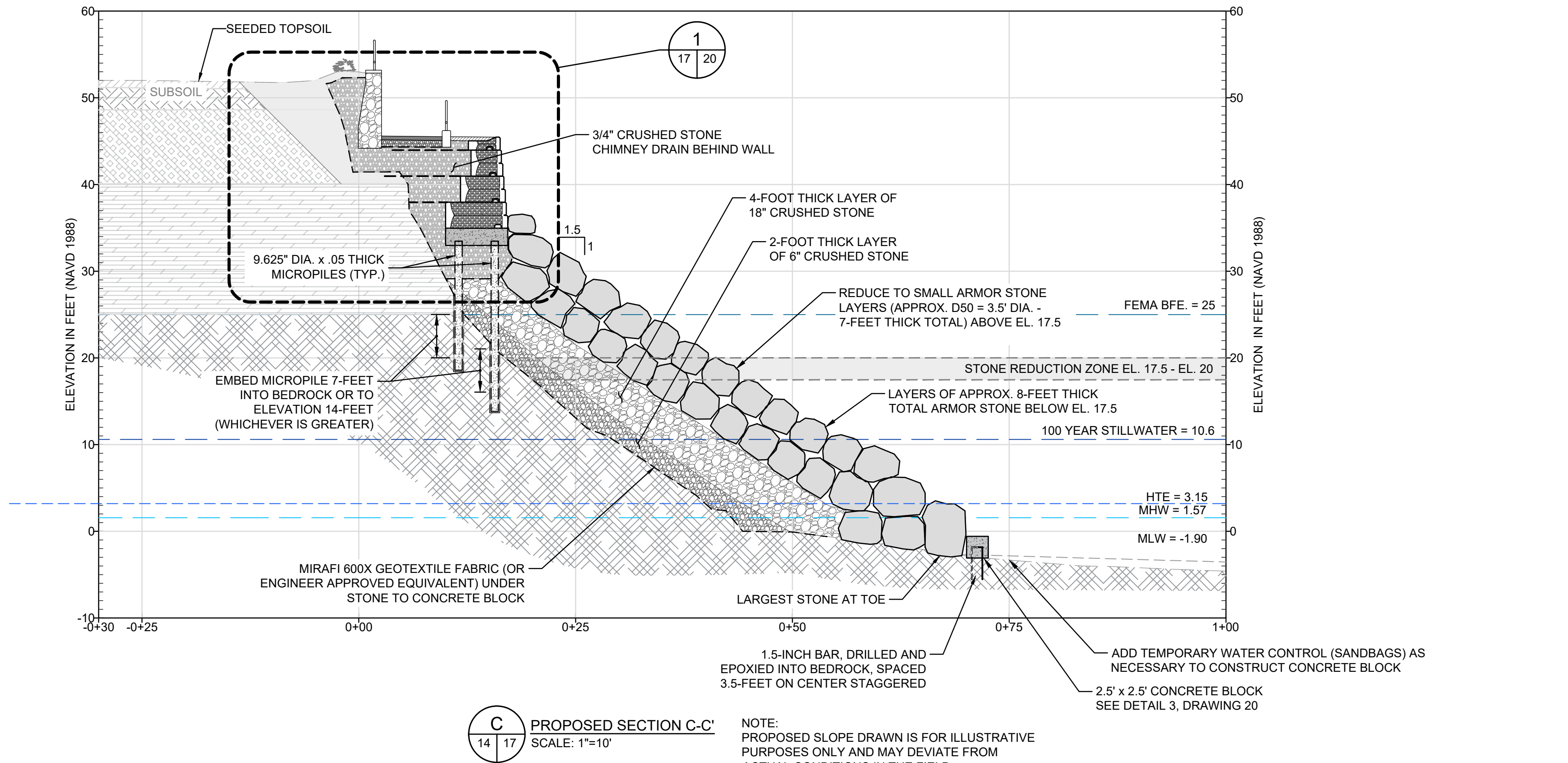
PROPOSED CONDITIONS SECTIONS
(SHEET 1 OF 3)

DRAWING

16

SHEET NO. 16 OF 21

© 2025 - GZA GeoEnvironmental, Inc. GZA--(1) (GEO) 33884.01 TWS (GEO) (CURRENT) PLANS 100% DESIGN 12-25 17-PROPOSED TYPICAL REPAIR SECTION C-C' AND D-D' DWG 17-PROP SECT December 4, 2025 GARY BASTIEN



LARGE ARMOR STONE (Below EL. 20ft.)		
	STONE WEIGHT (LB) (EACH)	NOMINAL DIAMETER (FT)
MAX	36700	6.1
50% (D.50)	30000	5.6
MIN	22000	5.1

SMALL ARMOR STONE (Above EL. 20ft.)		
	STONE WEIGHT (LB) (EACH)	NOMINAL DIAMETER (FT)
MAX	30000	5.6
50% (D.50)	7500	3.5
15% (D.15)	4000	2.8
MIN	937.5	1.8

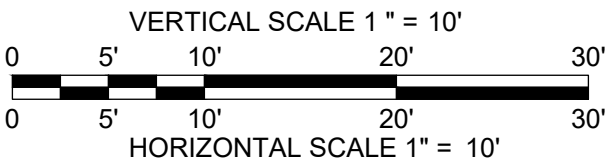
CORE STONE		
	STONE WEIGHT (LB) (EACH)	NOMINAL DIAMETER (FT)
MAX	621.1	1.6
50% (D.50)	155.3	1.2
15% (D.15)	77.6	0.8
MIN	19.4	0.5

BEDDING STONE		
	STONE WEIGHT (LB) (EACH)	NOMINAL DIAMETER (IN)
MAX	44.9	8.0
50% (D.50)	11.2	4.8
15% (D.15)	5.6	3.8
MIN	1.4	0.2

NOTES:

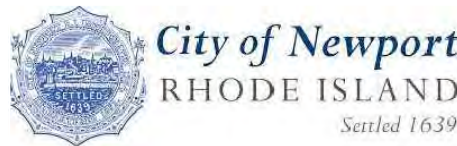
- NOMINAL DIAMETER OF THE ARMOR STONE WAS CALCULATED USING AN EQUIVALENT CUBIC VOLUME ESTIMATION. STONE SIZING SHOULD BE DETERMINED IN THE FIELD USING THE STONE WEIGHT.
- BASE AND CORE MATERIAL SHALL CONSIST OF ANGULAR, QUARRIED, CRUSHED STONE. STONE SHALL HAVE A MINIMUM DENSITY OF 160 POUNDS PER CUBIC FOOT AND A MINIMUM DIMENSION NOT LESS THAN ONE THIRD OF THE MAXIMUM DIMENSION. REFER TO RI DOT "M.10.03.2 STONE FOR RIPRAP", NSA NO. R-2 (SEE GRADATION ABOVE).
- PRIOR TO FILLING OF VOIDS BEYOND LIMITS OF REVETMENT, CONTRACTOR SHALL COORDINATE APPROVAL WITH ENGINEER AND OWNER.
- GROUT BAGS SHALL BE USED WHERE EXISTING MAN-MADE STRUCTURES HAVE BEEN UNDERMINED. STONES MAY BE USED IN LIEU OF GROUT BAGS AT OTHER LOCATIONS.

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PROJECT NO:	33884.01
DATE:	DECEMBER, 2025
PROJECT MGR:	TWS
DESIGNED BY:	SAB
DRAWN BY:	GRB
CHECKED BY:	TWS
REVIEWED BY:	MJP
SCALE:	AS NOTED
REVISION NO.	

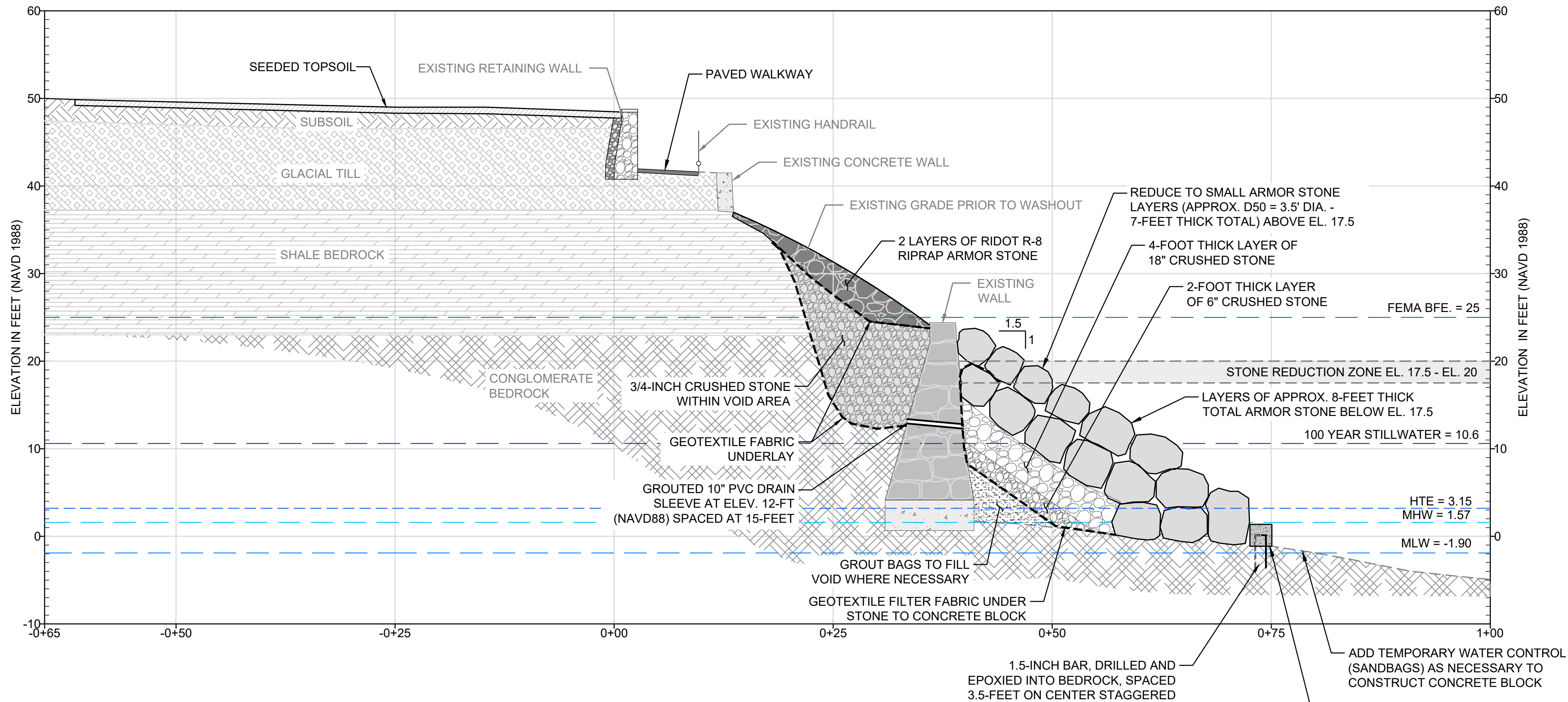
NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

PROPOSED CONDITIONS SECTIONS
(SHEET 2 OF 3)

DRAWING

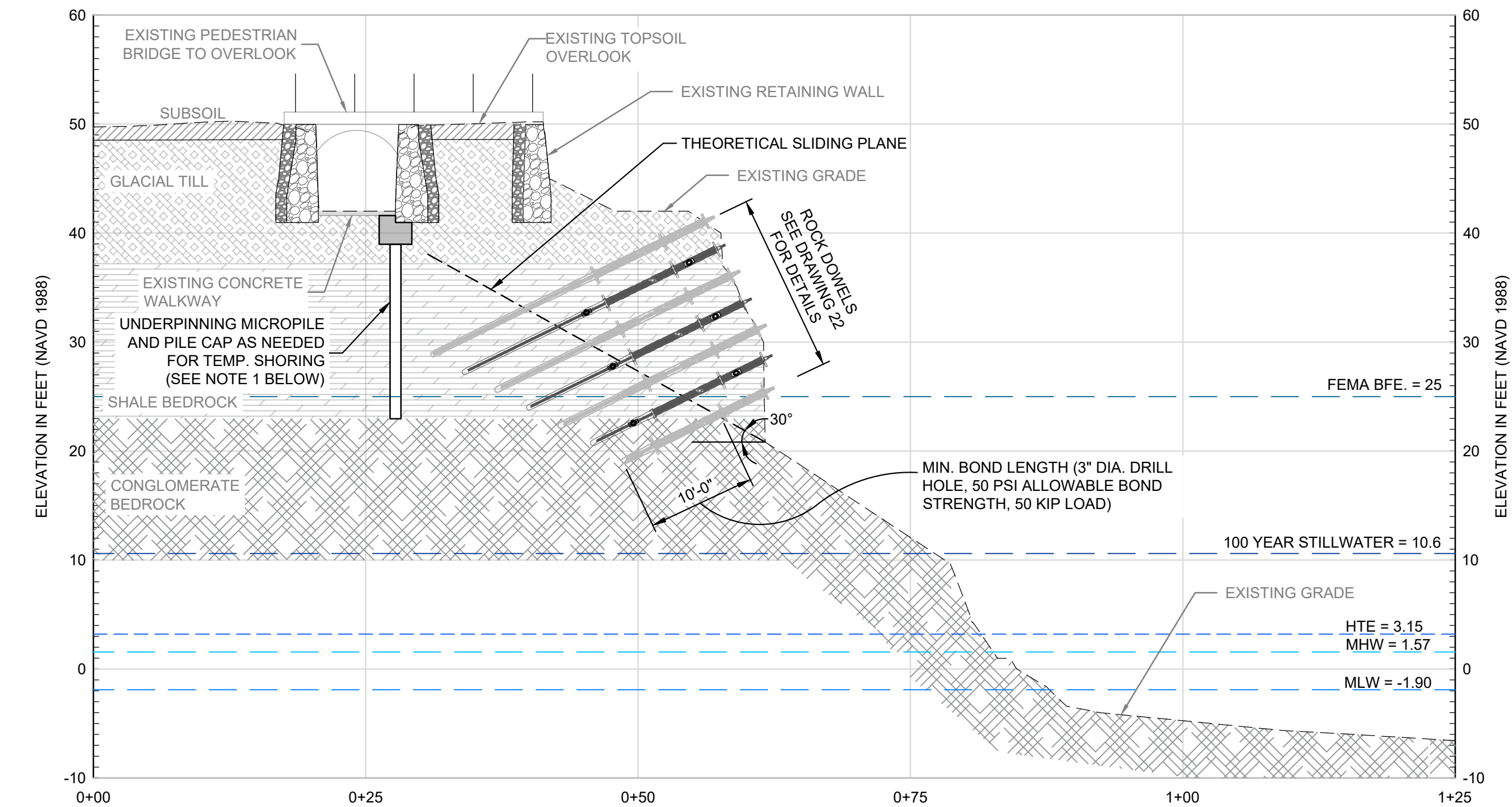
17

SHEET NO. 17 OF 21



E
14 18
PROPOSED SECTION E-E'
SCALE: 1"=10'

NOTE:
SLOPE DRAWN IS ILLUSTRATIVE FOR
REPRESENTATIVE SECTION SHOWN.
ELEVATIONS SHOWN ARE TO BE MAINTAINED
FOR ENTIRE WALL ALIGNMENT.



F
14 18
PROPOSED SECTION F-F'
SCALE: 1"=10'

NOTE:
1. DURING PROPOSED REVETMENT AND ROCK DOWEL
CONSTRUCTION, BRIDGE TO BE CONTINUOUSLY
MONITORED FOR MOVEMENT. IF STABILITY OF THE BRIDGE
IS IMPACTED, CONTRACTOR SHALL DESIGN AND
CONSTRUCT MICROPILE AND CAP UNDERPINNING SYSTEM.

NOTE:
SLOPE DRAWN IS ILLUSTRATIVE FOR
REPRESENTATIVE SECTION SHOWN.
ELEVATIONS SHOWN ARE TO BE MAINTAINED
FOR ENTIRE WALL ALIGNMENT.

RIDOT R8 RIPRAP ARMOR STONE		
	STONE WEIGHT (LB) (EACH)	NOMINAL DIAMETER (FT)
MAX	14000	4.4
50% (D.50)	3500	2.7
15% (D.15)	1750	2.2
MIN	437.5	1.4

LARGE ARMOR STONE (Below EL. 20ft.)		
	STONE WEIGHT (LB) (EACH)	NOMINAL DIAMETER (FT)
MAX	36700	6.1
50% (D.50)	30000	5.6
MIN	22000	5.1

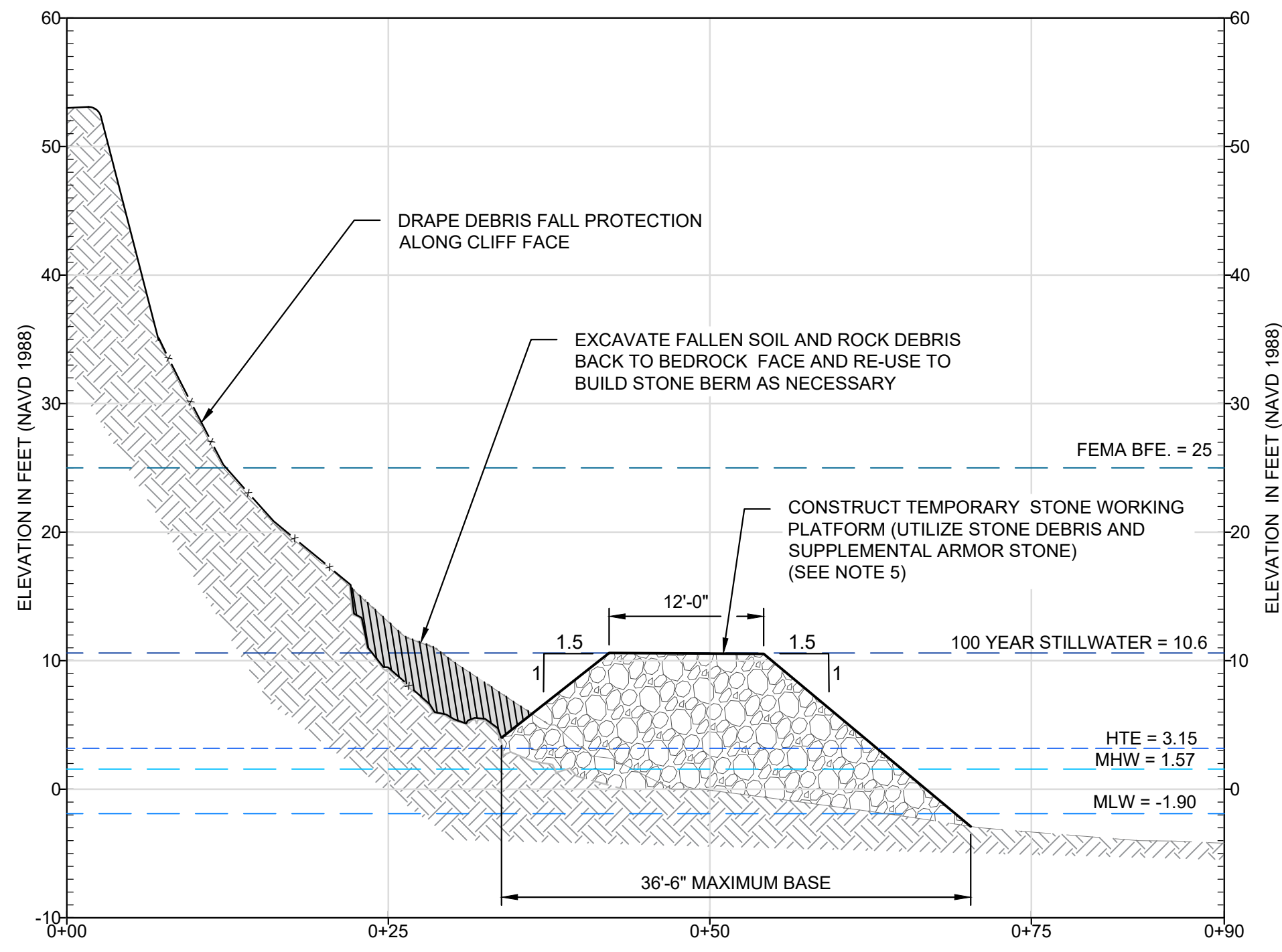
SMALL ARMOR STONE (Above EL. 20ft.)		
	STONE WEIGHT (LB) (EACH)	NOMINAL DIAMETER (FT)
MAX	30000	5.6
50% (D.50)	7500	3.5
15% (D.15)	4000	2.8
MIN	937.5	1.8

CORE STONE		
	STONE WEIGHT (LB) (EACH)	NOMINAL DIAMETER (FT)
MAX	621.1	1.6
50% (D.50)	155.3	1.2
15% (D.15)	77.6	0.8
MIN	19.4	0.5

BEDDING STONE		
	STONE WEIGHT (LB) (EACH)	NOMINAL DIAMETER (IN)
MAX	44.9	8.0
50% (D.50)	11.2	4.8
15% (D.15)	5.6	3.8
MIN	1.4	0.2

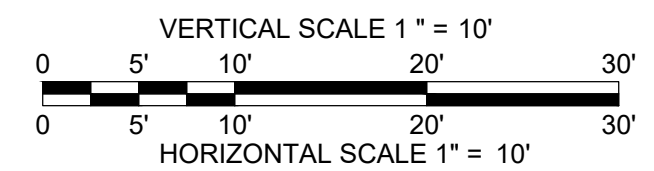
NOTES:

- NOMINAL DIAMETER OF THE ARMOR STONE WAS
CALCULATED USING AN EQUIVALENT CUBIC VOLUME
ESTIMATION. STONE SIZING SHOULD BE DETERMINED IN
THE FIELD USING THE STONE WEIGHT.
- BASE AND CORE MATERIAL SHALL CONSIST OF ANGULAR,
QUARRIED, CRUSHED STONE. STONE SHALL HAVE A
MINIMUM DENSITY OF 160 POUNDS PER CUBIC FOOT AND
A MINIMUM DIMENSION NOT LESS THAN ONE THIRD OF THE
MAXIMUM DIMENSION. REFER TO RI DOT "M.10.03.2 STONE
FOR RIPRAP", NSA NO. R-2 (SEE GRADATION ABOVE).
- RIDOT R8 STONE TO BE PLACED ABOVE EXISTING
CONCRETE BLOCK WALL AND WILL SIT DIRECTLY ON
CRUSHED STONE LAYER.
- STONE BELOW BLOCK WALL TO BE CONSISTENT WITH
REVTMENT FROM SECTIONS A-D.
- TEMPORARY STONE PLATFORM IS SHOWN FOR
ILLUSTRATION PURPOSES ONLY. CONTRACTOR SHALL BE
RESPONSIBLE FOR DESIGN OF PLATFORM BASED ON
THESE MEANS AND METHODS. PLATFORM SHALL BE
REMOVED FOLLOWING CONSTRUCTION EFFORT. NO SOIL
SHOULD BE ALLOWED FOR THE CONSTRUCTION OF THE
STONE PLATFORM.
- INSTALL REVETMENT STONES WITHIN SECTION F
FOLLOWING PLACEMENT OF REVETMENT ALONG ALL
OTHER PORTIONS OF CLIFF WALK OR OTHER.

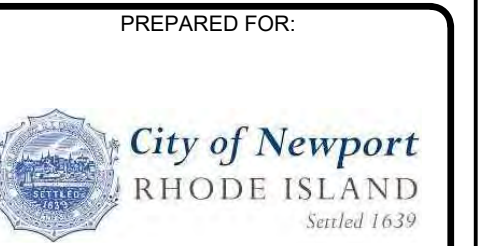


1
14 18
OPTIONAL WORKING PLATFORM - DETAIL
SCALE: 1"=10'

NOTE:
FOR TEMPORARY USE ONLY DURING
REPAIR CONSTRUCTION



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REV	DESCRIPTION	DATE	BY

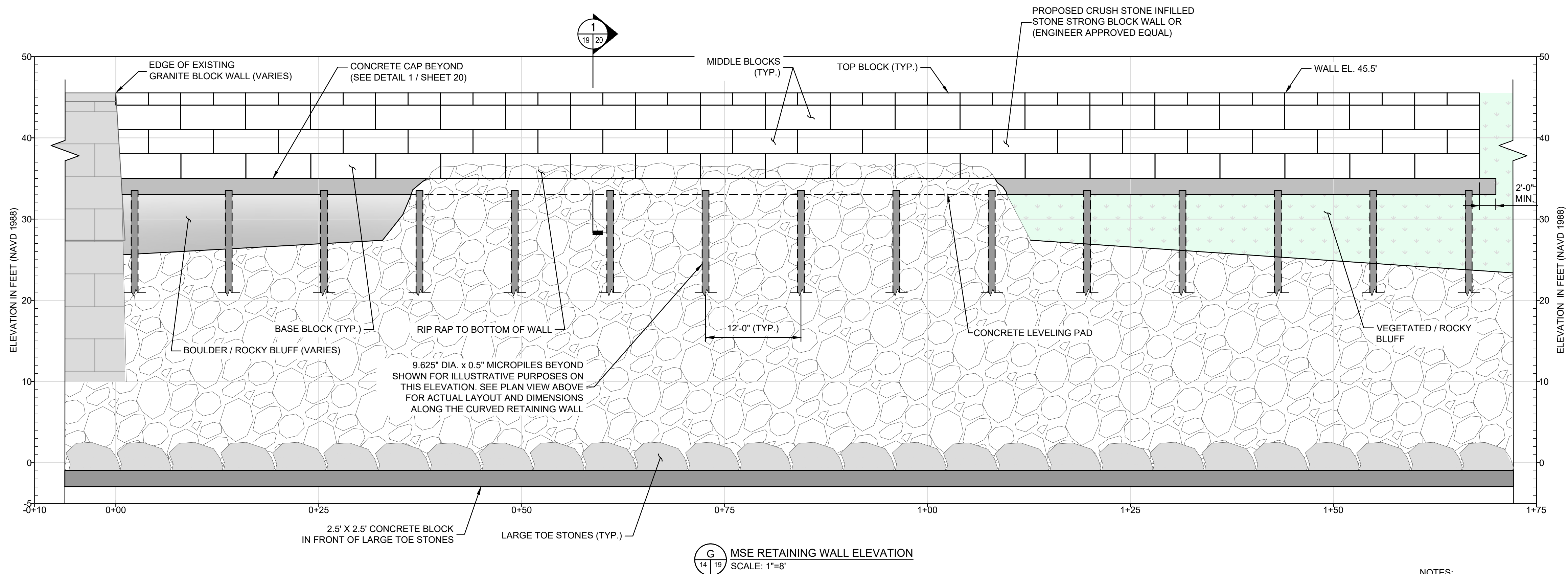
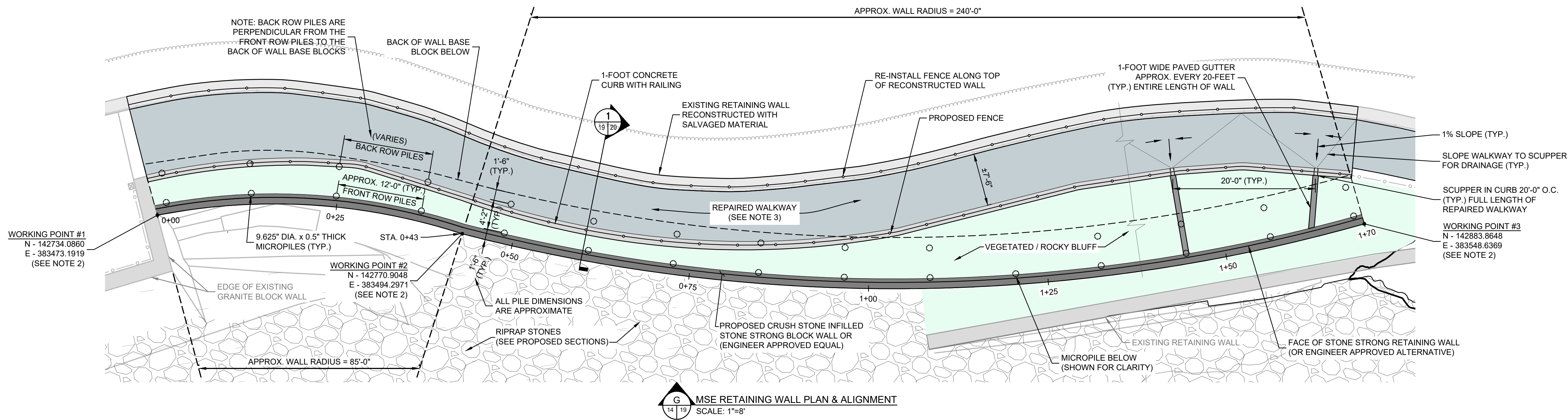
PROJECT NO:	33884.01
DATE:	AUGUST, 2026
PROJECT MGR:	TWS
DESIGNED BY:	SAB
DRAWN BY:	GRB
CHECKED BY:	TWS
REVIEWED BY:	MJP
SCALE:	AS NOTED
REVISION NO.	

NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

PROPOSED CONDITIONS AND
WORKING PLATFORM SECTIONS
(SHEET 3 OF 3)

DRAWING
18
SHEET NO. 18 OF 21

© 2025 - GZA GeoEnvironmental, Inc. GZA--1\GEO\33884.01\TWS\GAD\CURRENT\PLANS\100% DESIGN\12-25\19_REPAIR_PLAN-ELEVATIONS.DWG 19-DETAILS December 2, 2025 GARY BASTEN

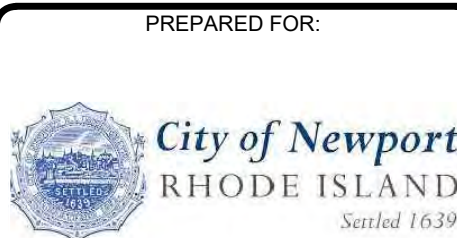


NOTES:

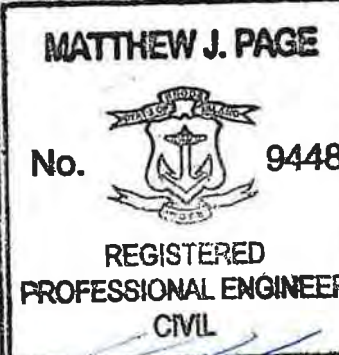
- STONE STRONG BLOCK CONFIGURATION MUST MAINTAIN MINIMUM CONCAVE RADIUS OF 14'-6" AND A MINIMUM CONVEX RADIUS OF 17'. MINIMUM RADII PERTAIN TO THE TOP COURSE.
- WORKING POINTS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.
- REPAIRED WALKWAY ALIGNMENT TO MATCH EXISTING FACE OF EXISTING PRIVACY RETAINING WALL. PERFORM PRE-CONSTRUCTION SURVEY OF EXISTING PRIVACY WALL TO ESTABLISH ACTUAL WALKWAY ALIGNMENT.



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REVISION NO.	

Received
8/14/2026
Coastal Resources
Management Council

NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

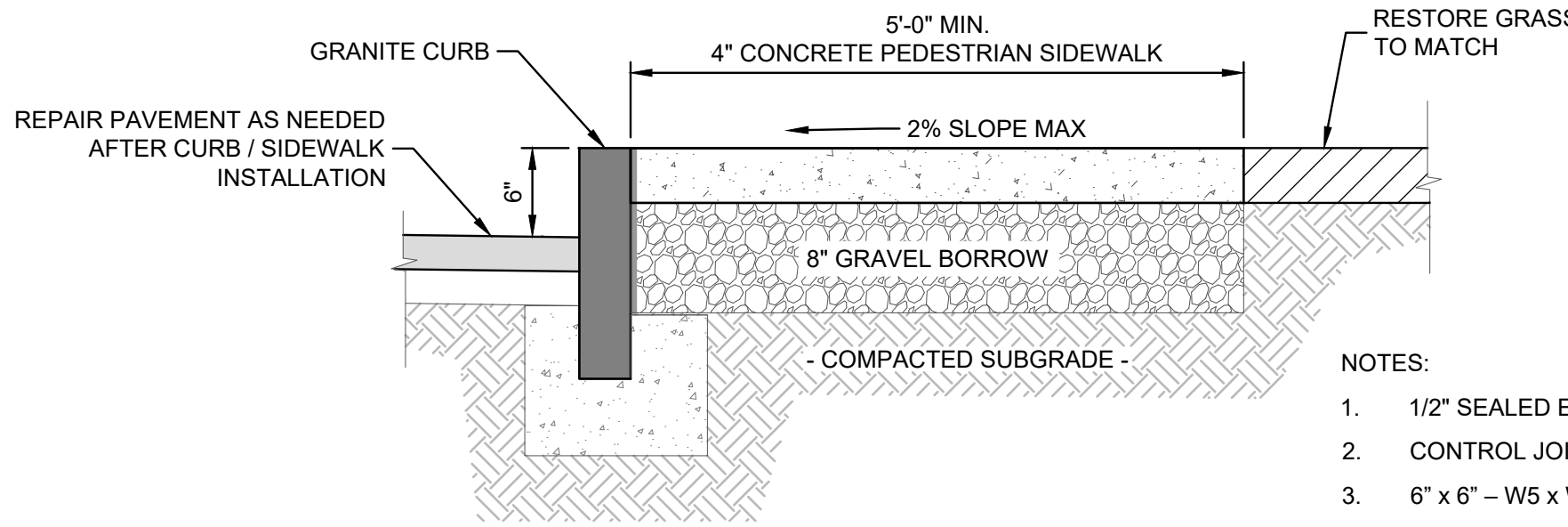
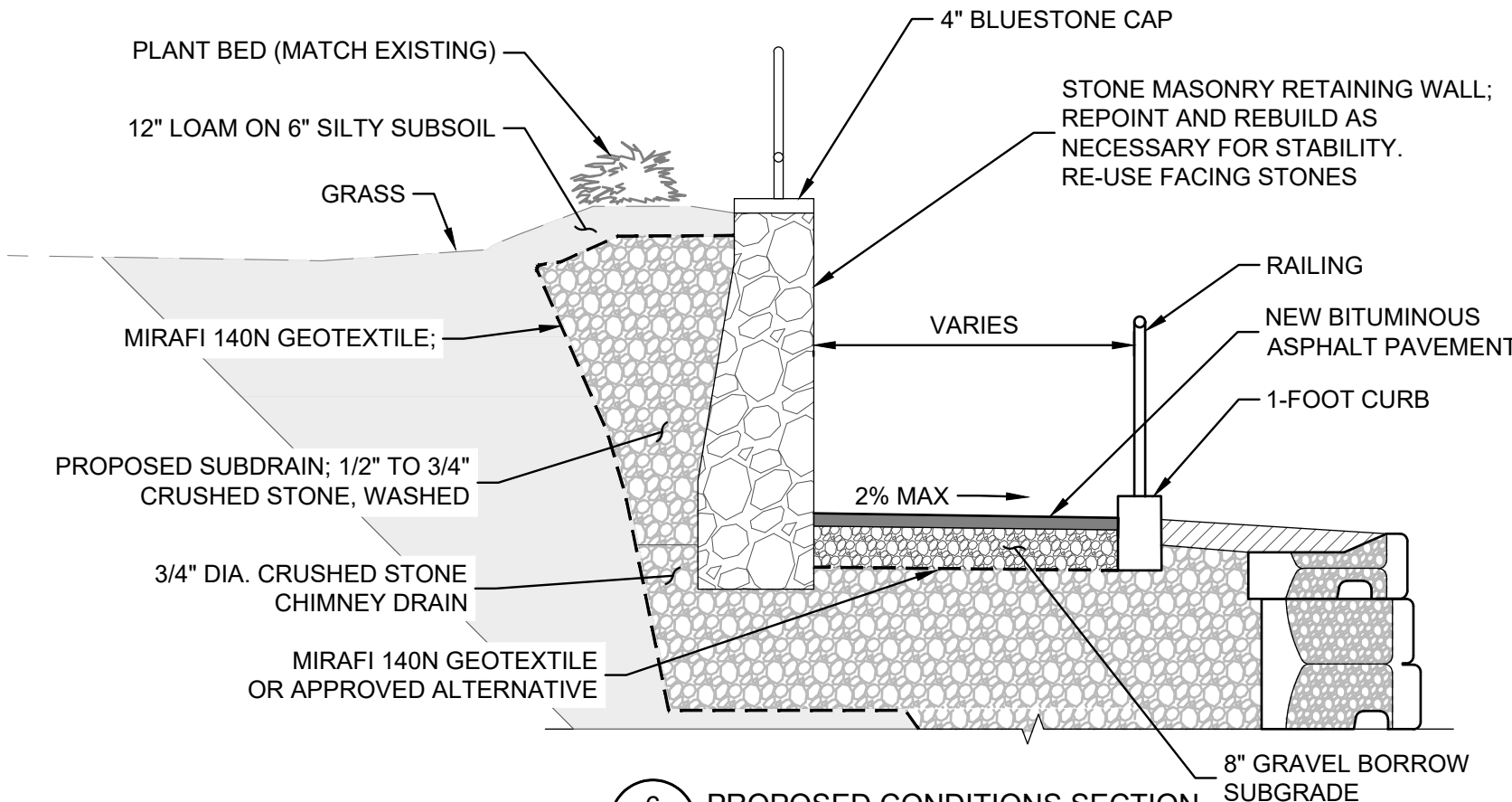
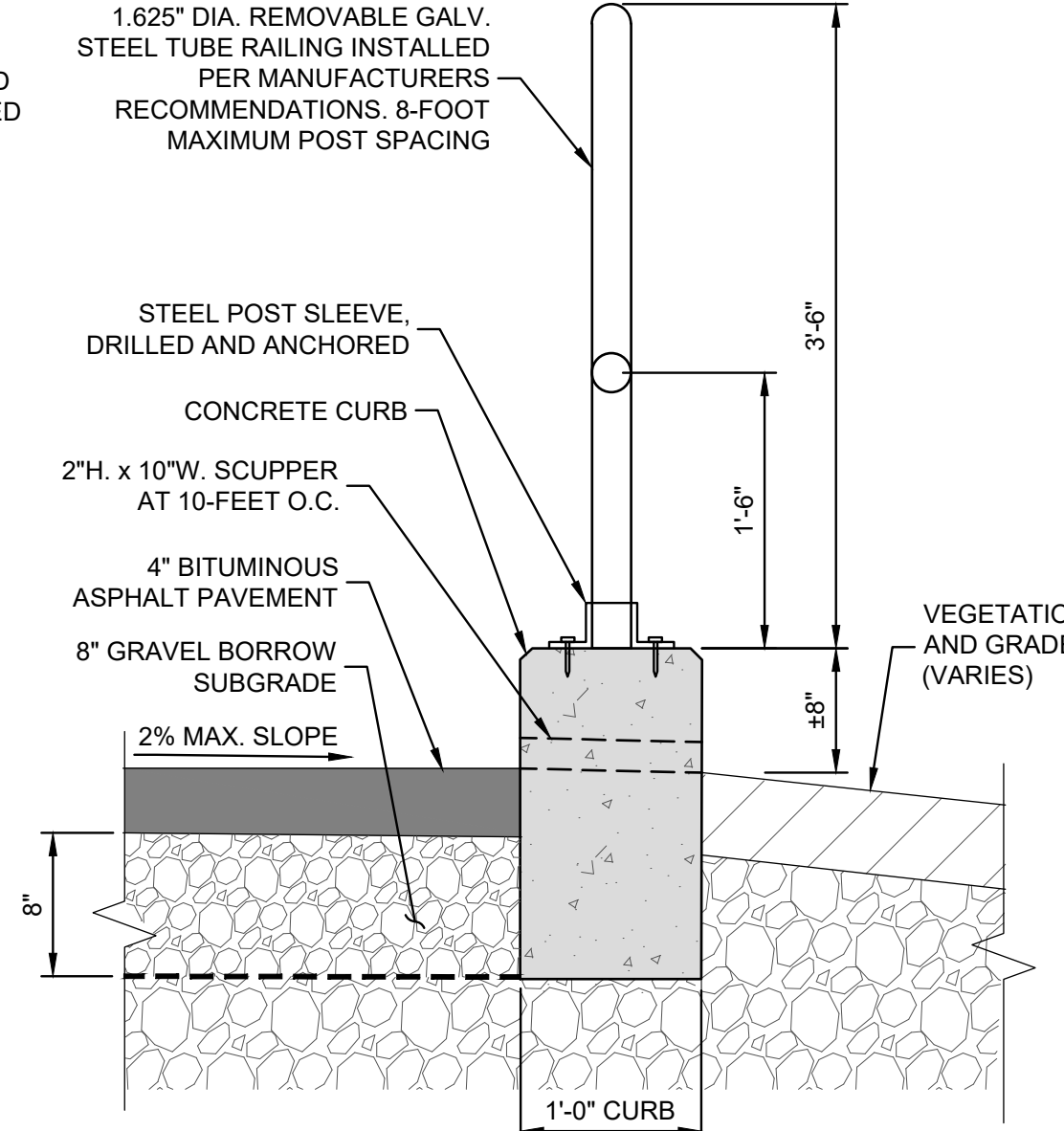
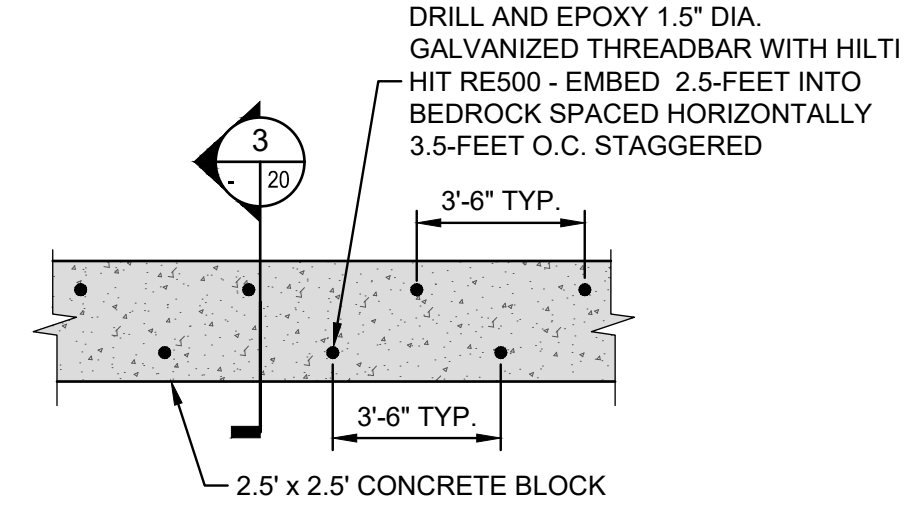
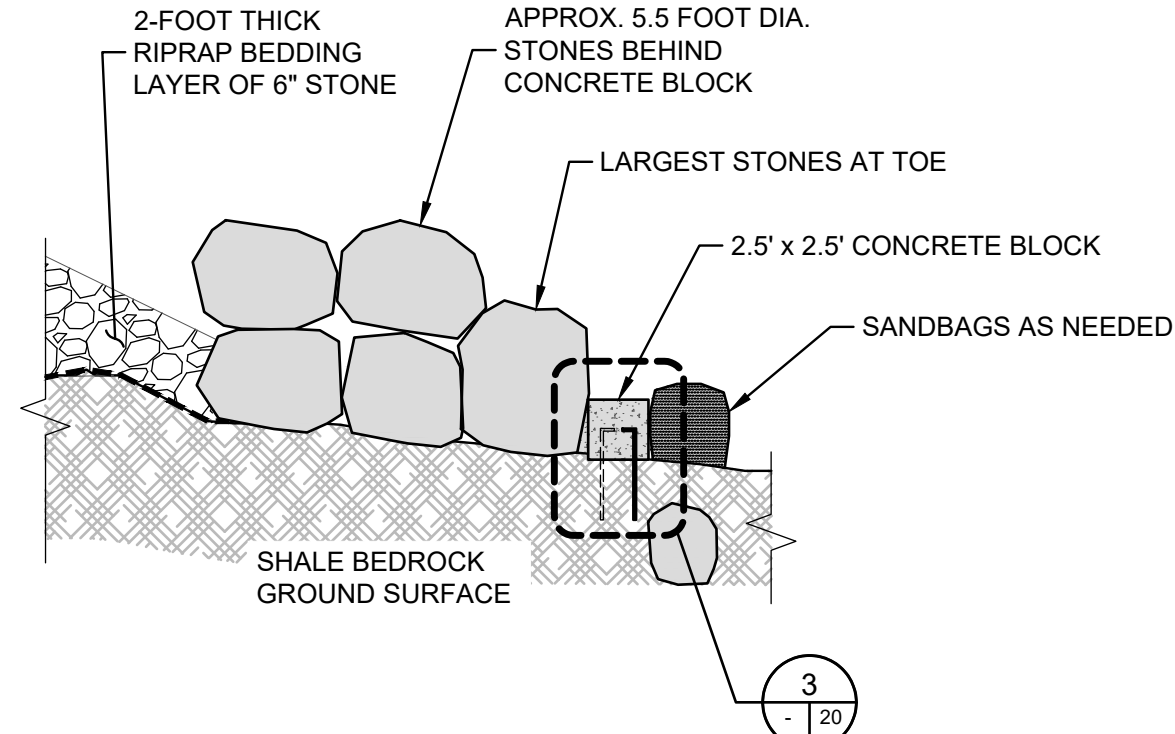
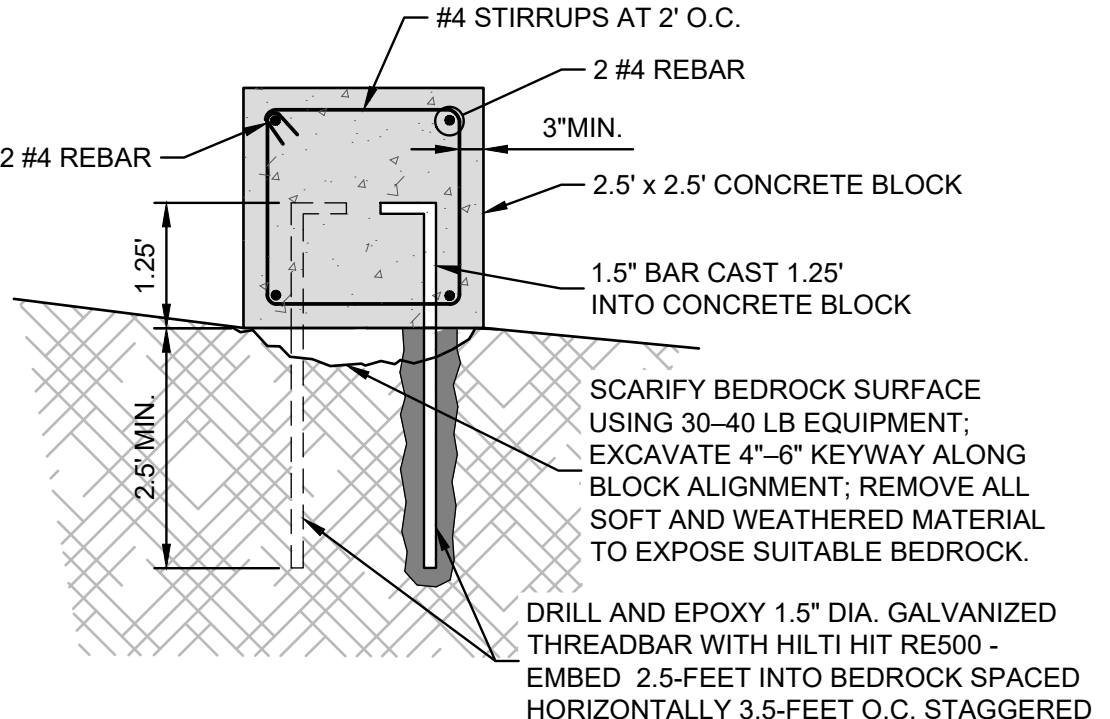
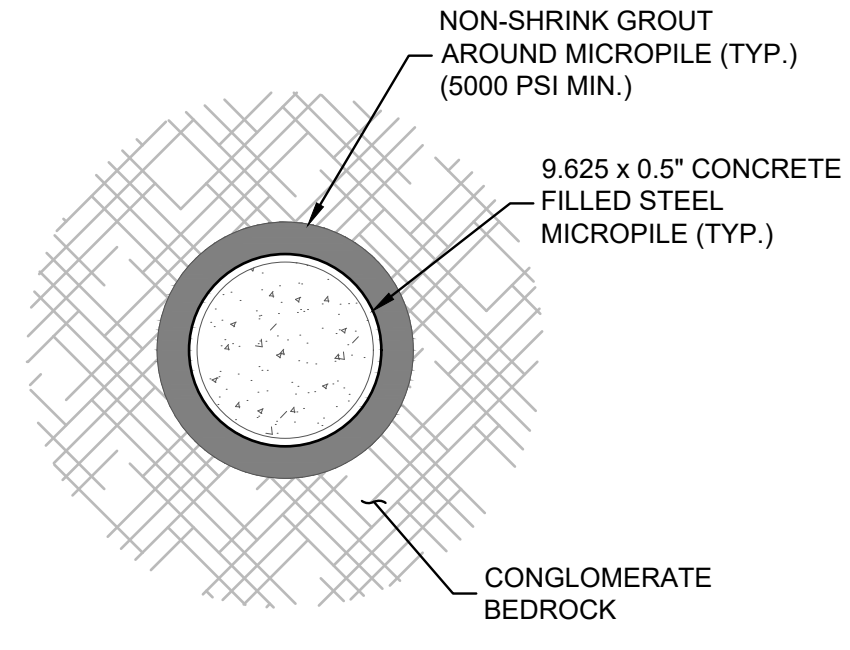
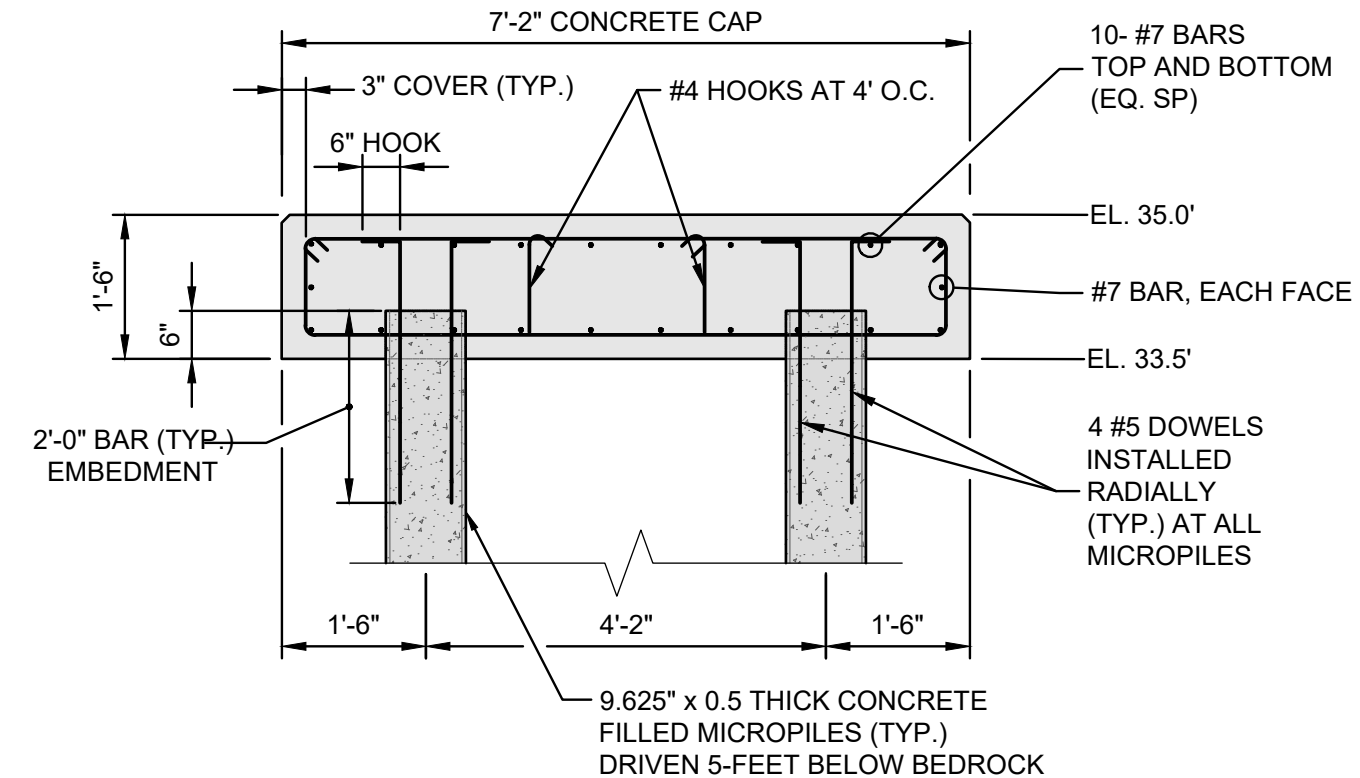
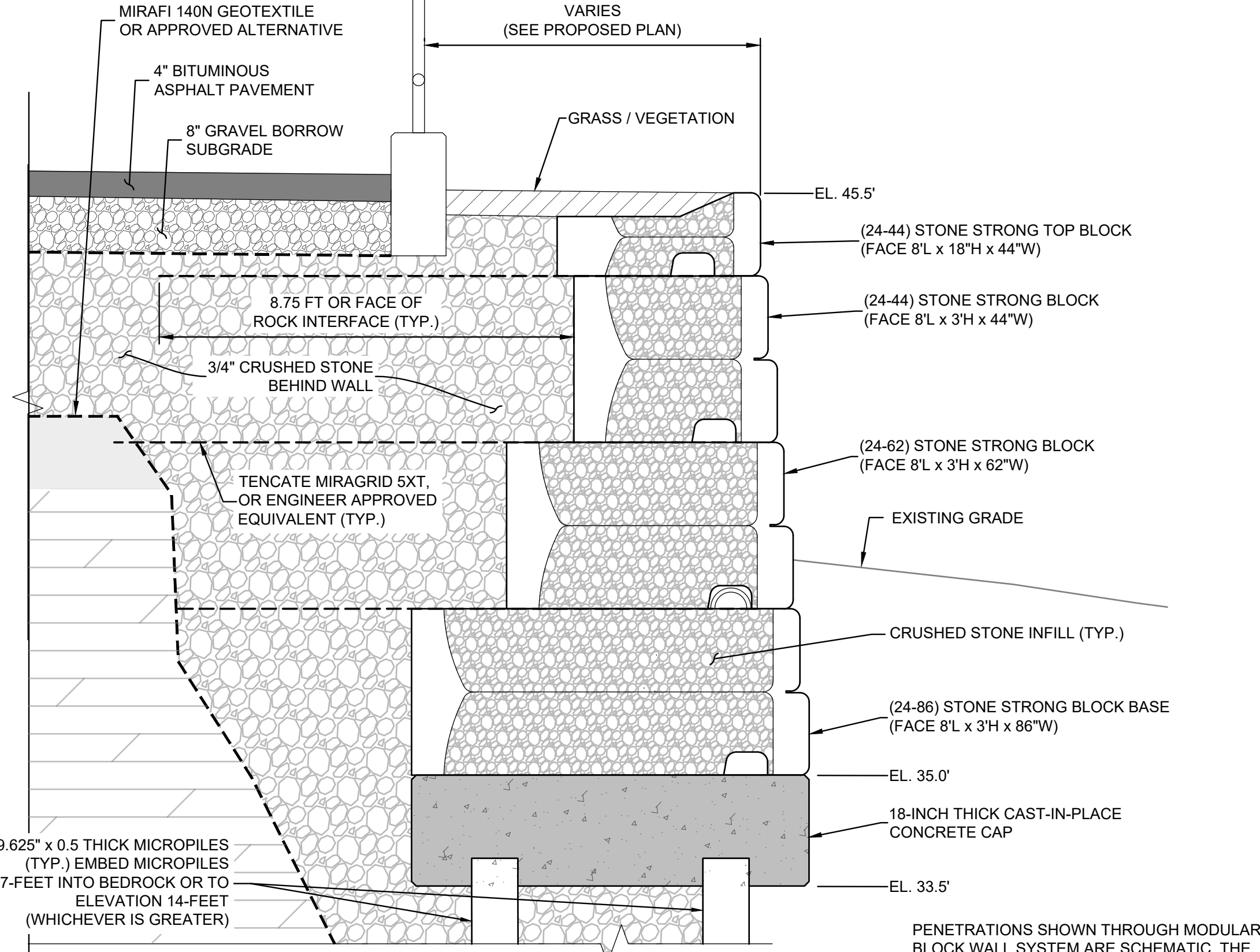
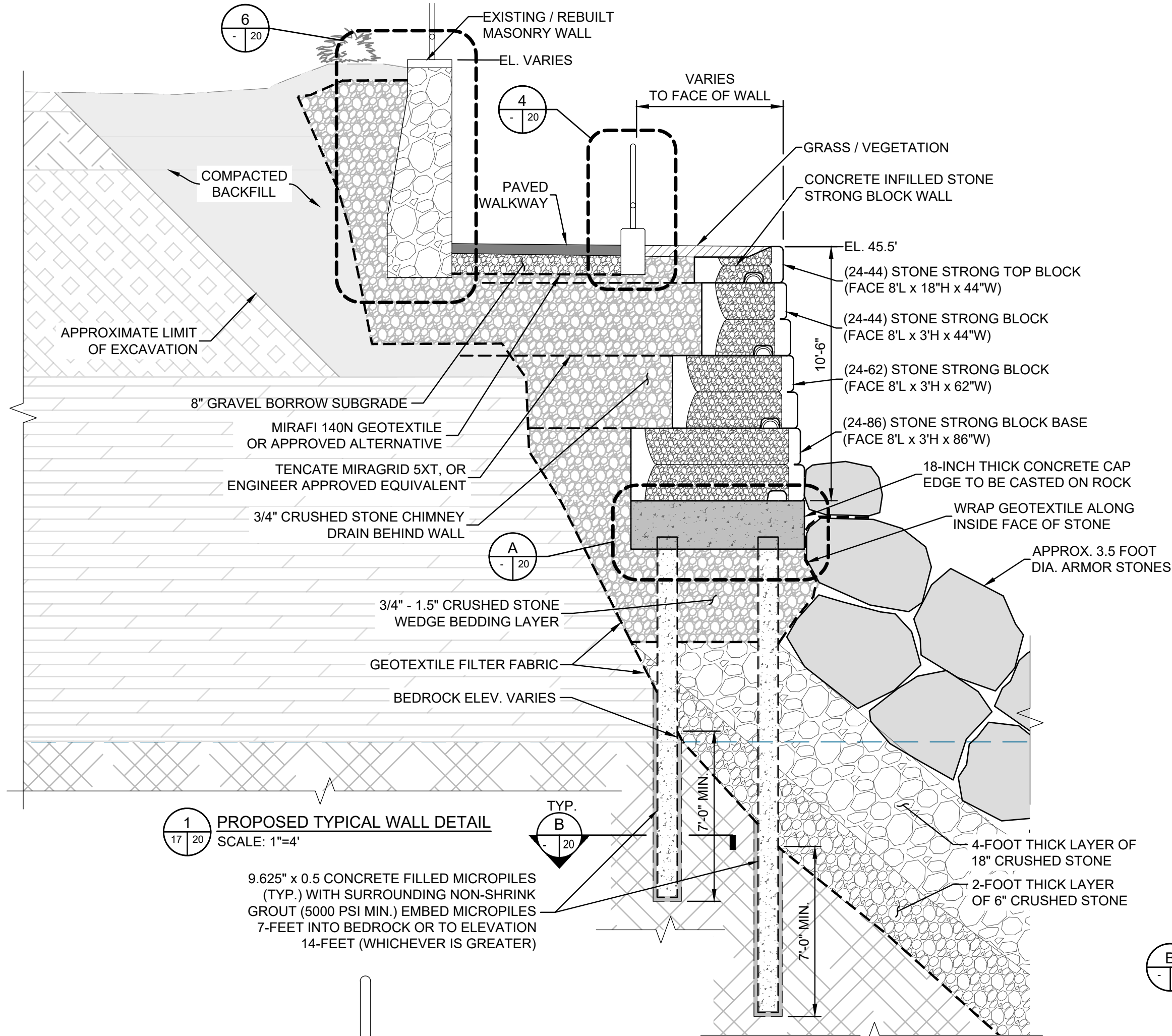
REPAIR PLAN AND ELEVATION

DRAWING

19

SHEET NO. 19 OF 21

© 2025 - GZA GeoEnvironmental, Inc. GZA--A\GEO\33884.01 TWS\GAD\CURRENT\PLANS\100% DESIGN\12-25-25\20_REPAIR DETAILS.DWG 20-DETAILS December 2, 2025 GARY BASTIEN

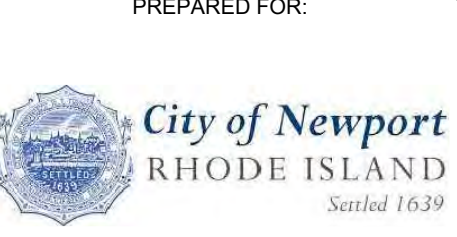


- NOTES:
- 1/2" SEALED EXPANSION JOINT EVERY 30 FEET.
 - CONTROL JOINTS EVERY 6 FEET
 - 6" x 6" - W5 x W5 WELDED WIRE FABRIC
 - 4,000 PSI MIN. STRENGTH, CLASS D.
 - CONCRETE SHALL BE INTEGRALLY COLORED AND STAMPED WHERE SHOWN ON PLANS

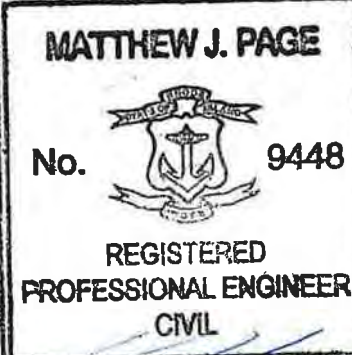
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8/14/2026
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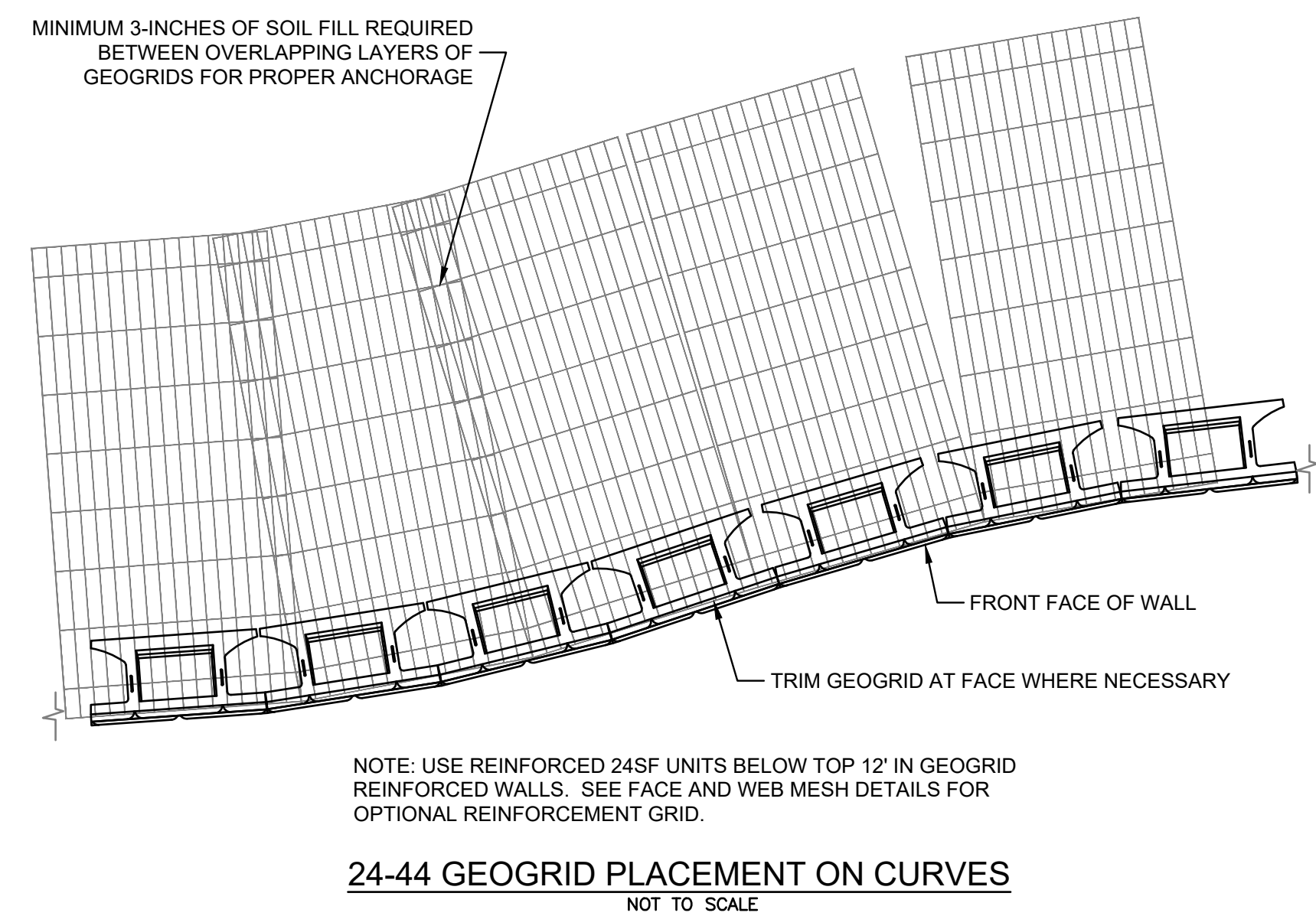
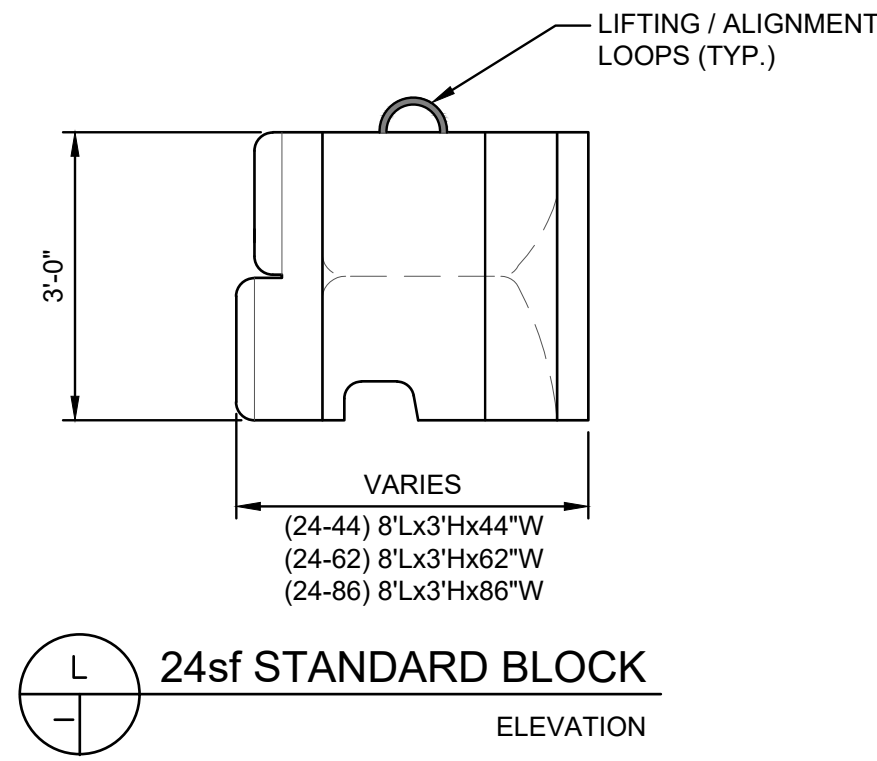
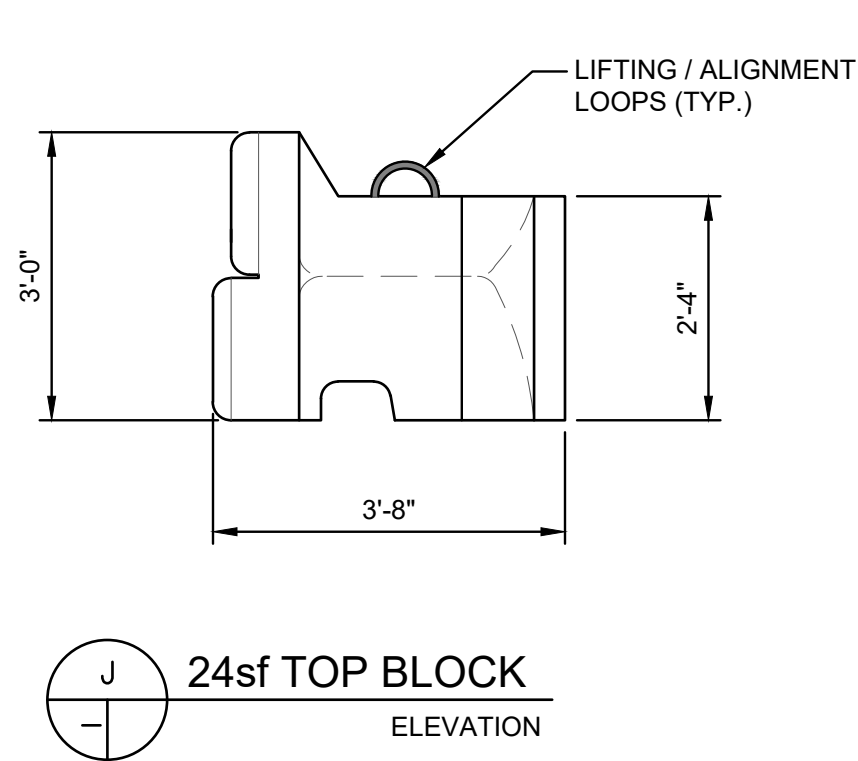
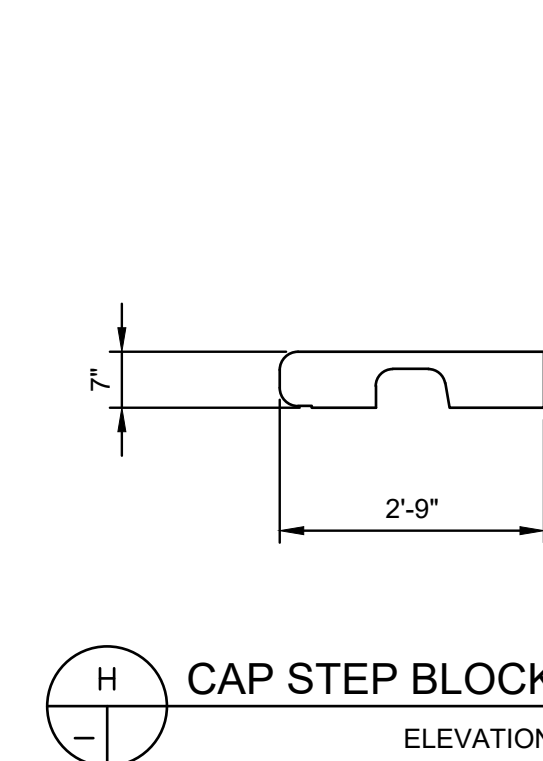
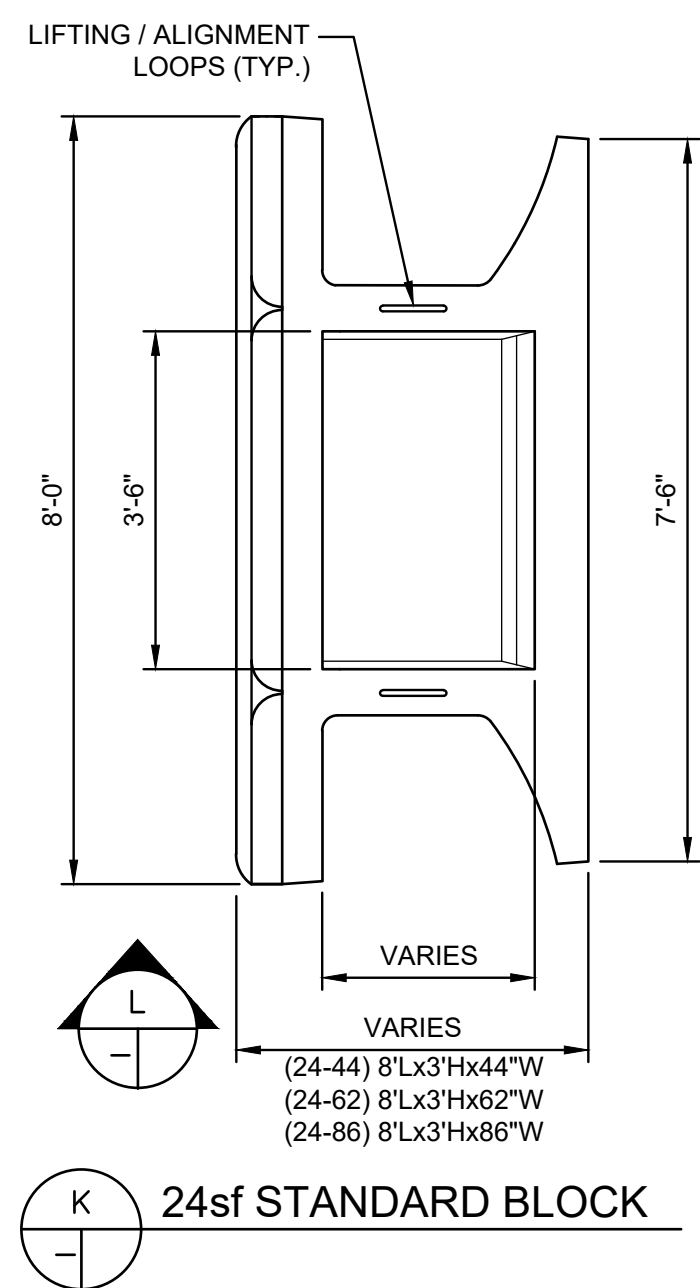
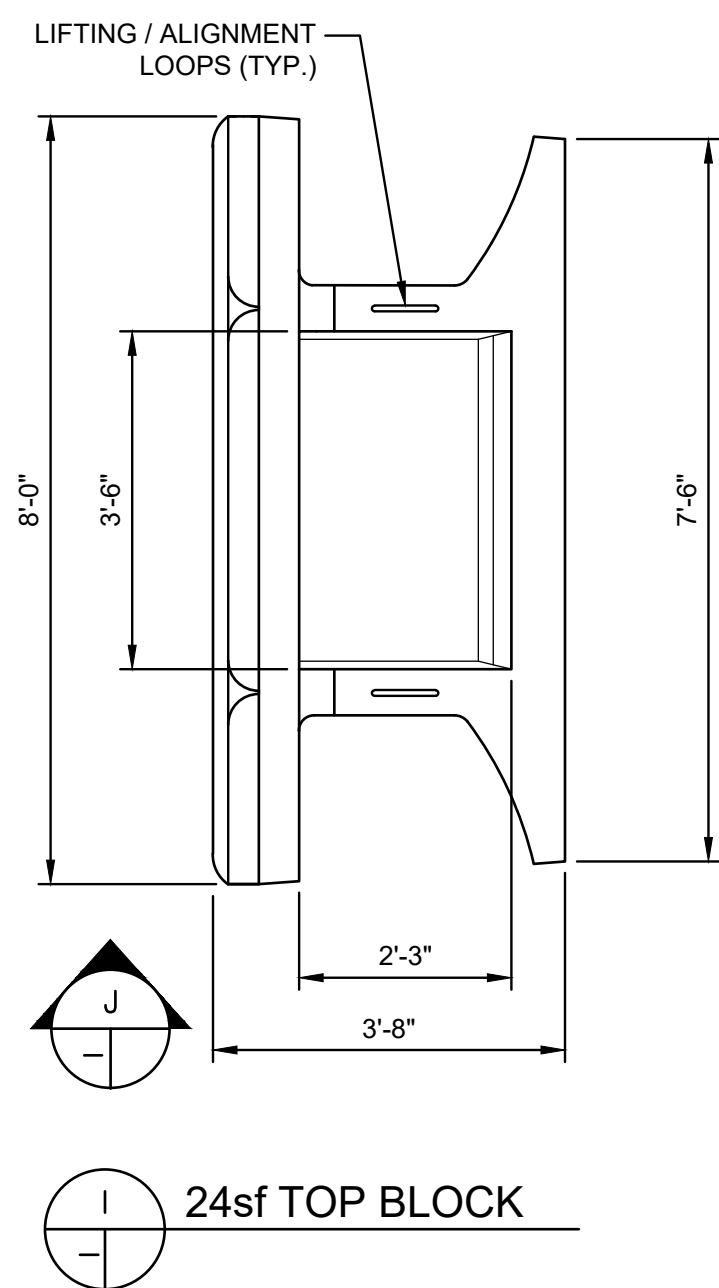
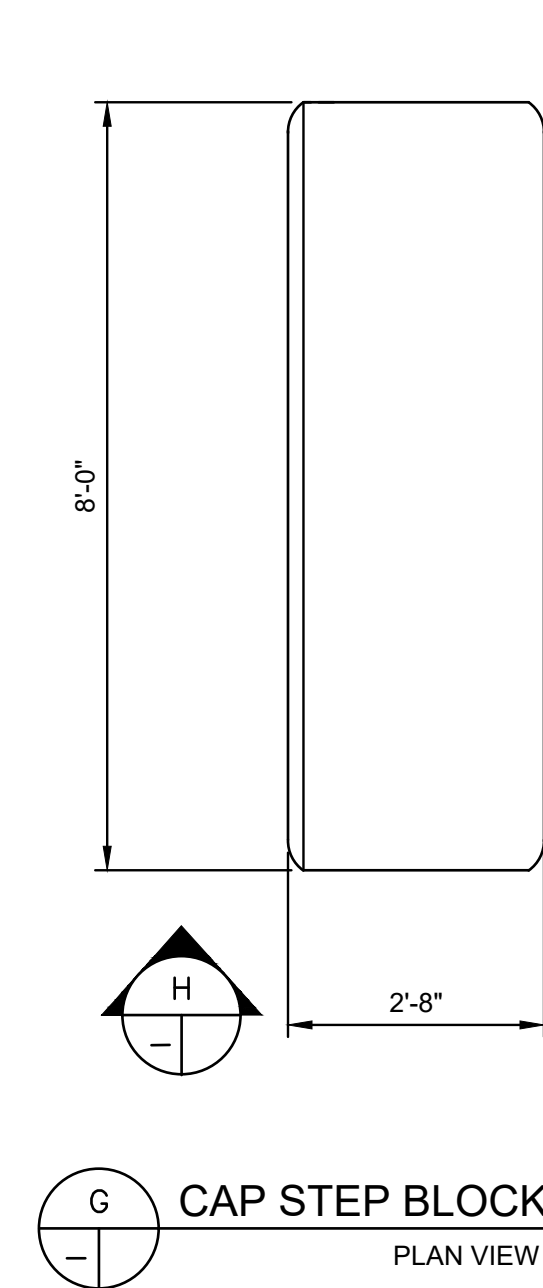
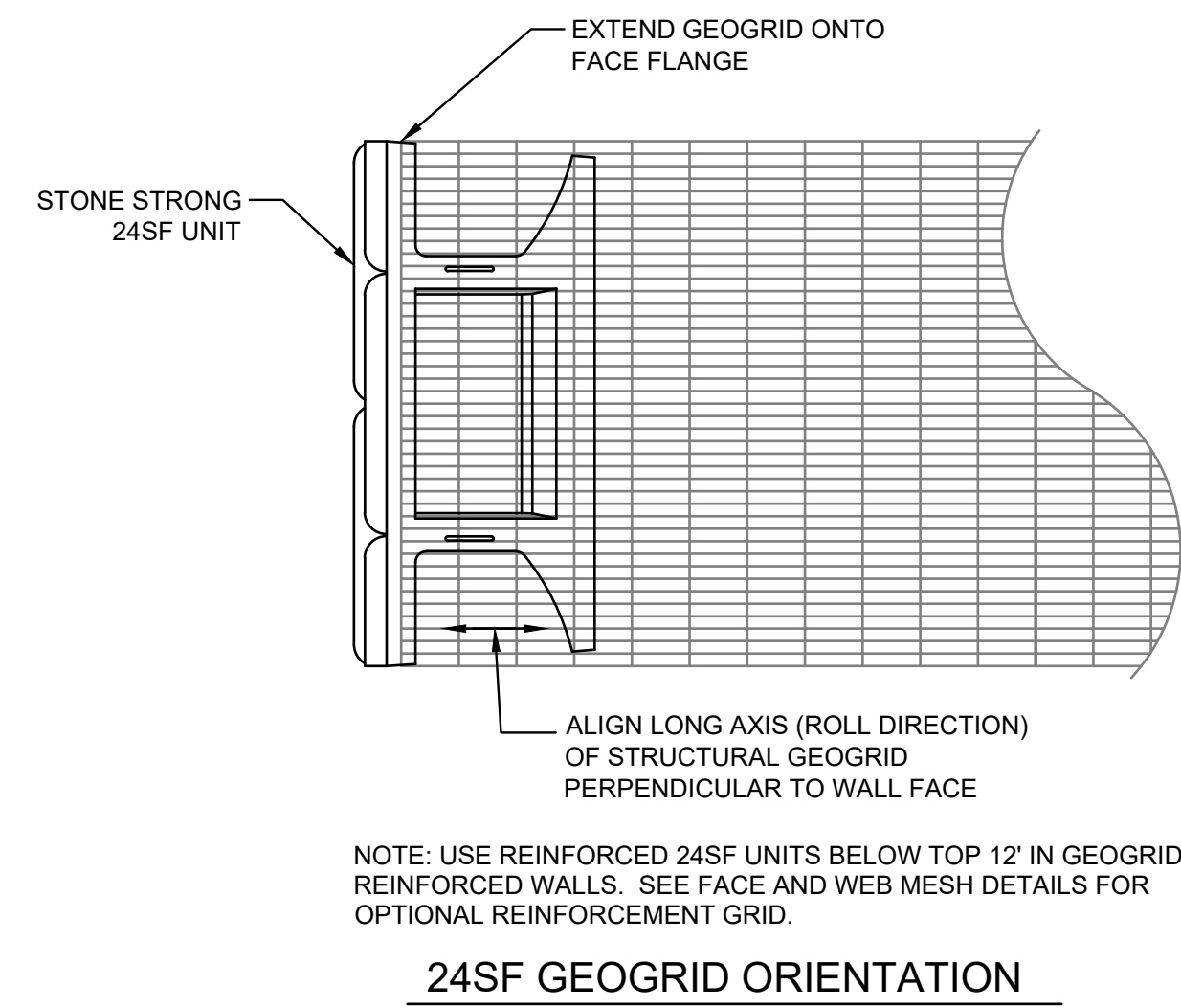
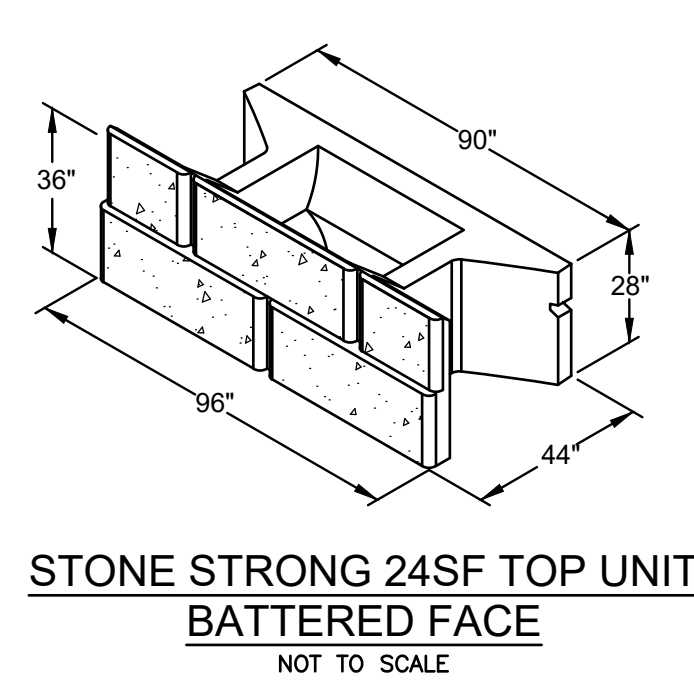
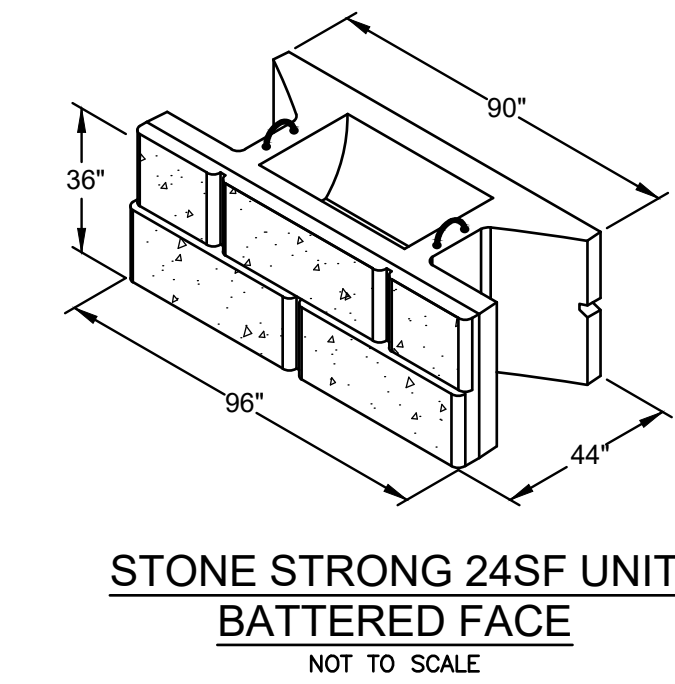
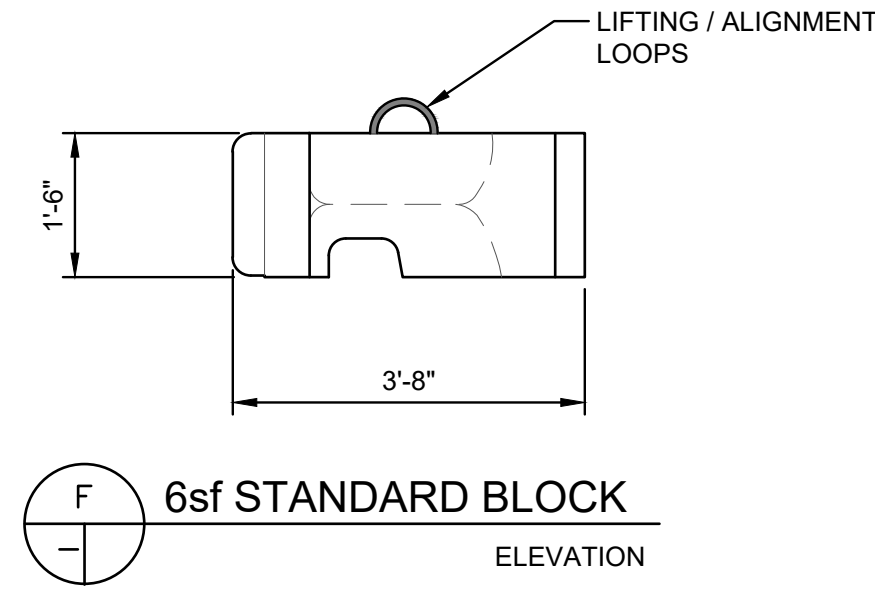
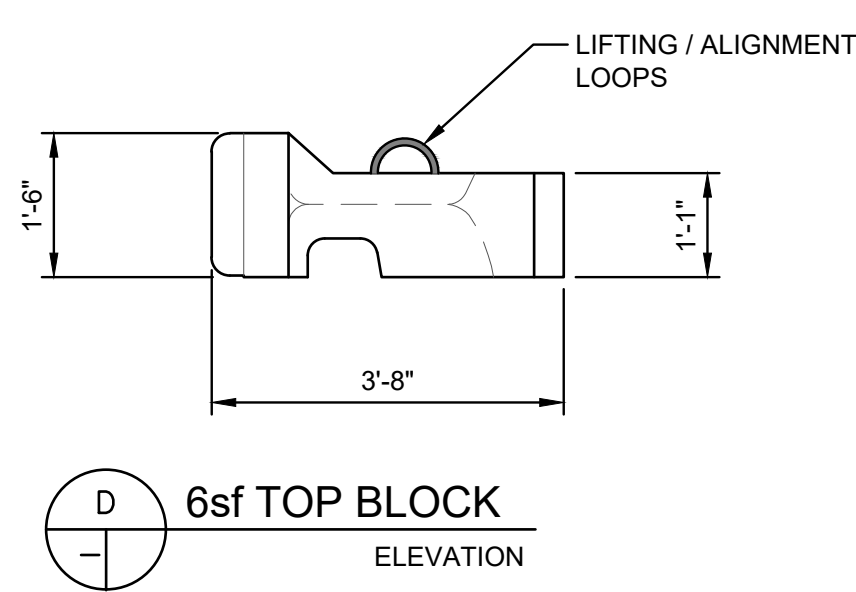
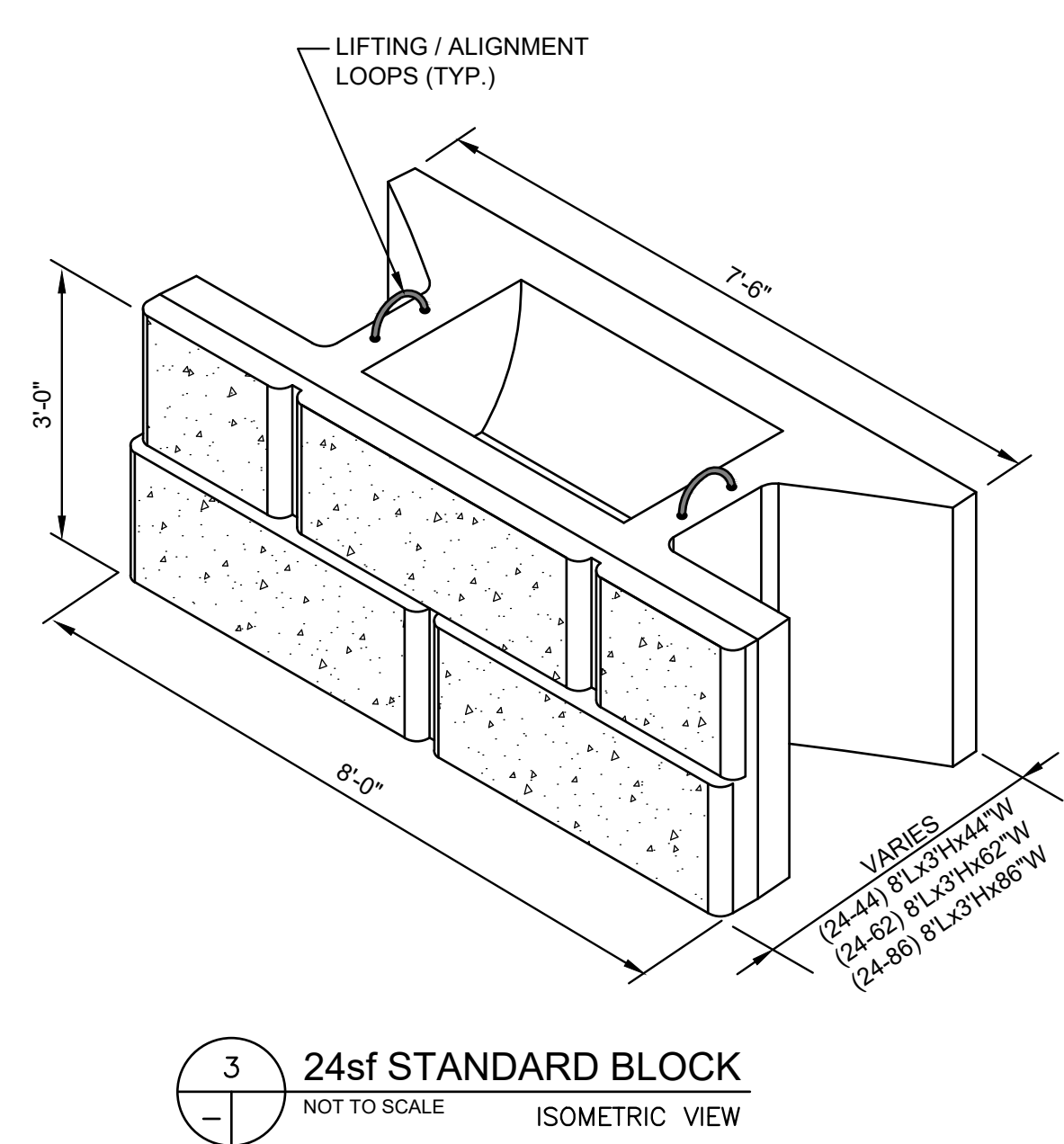
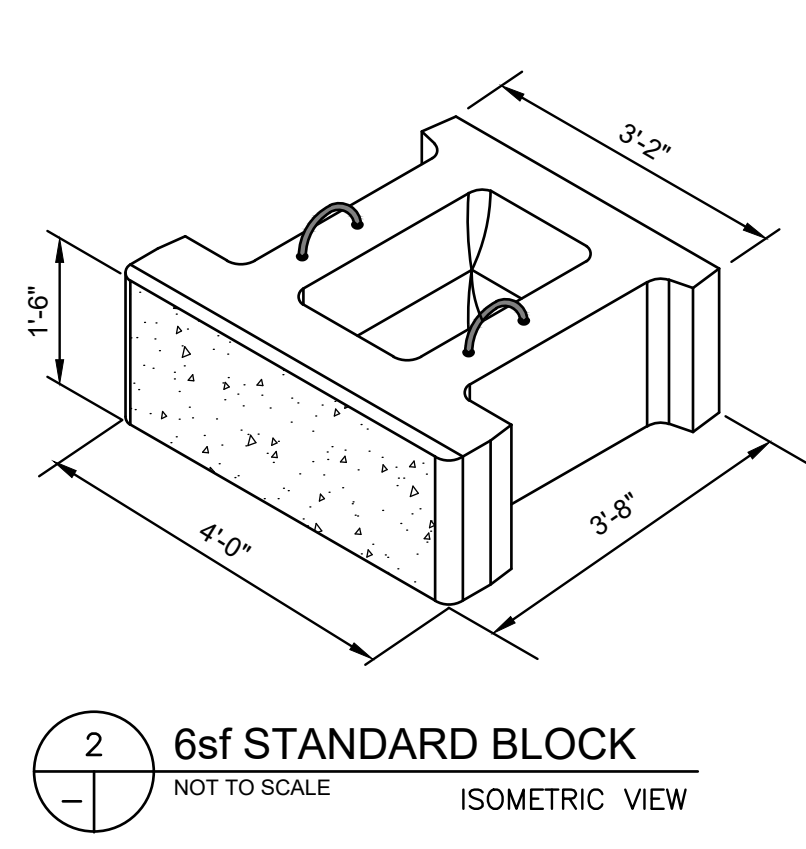
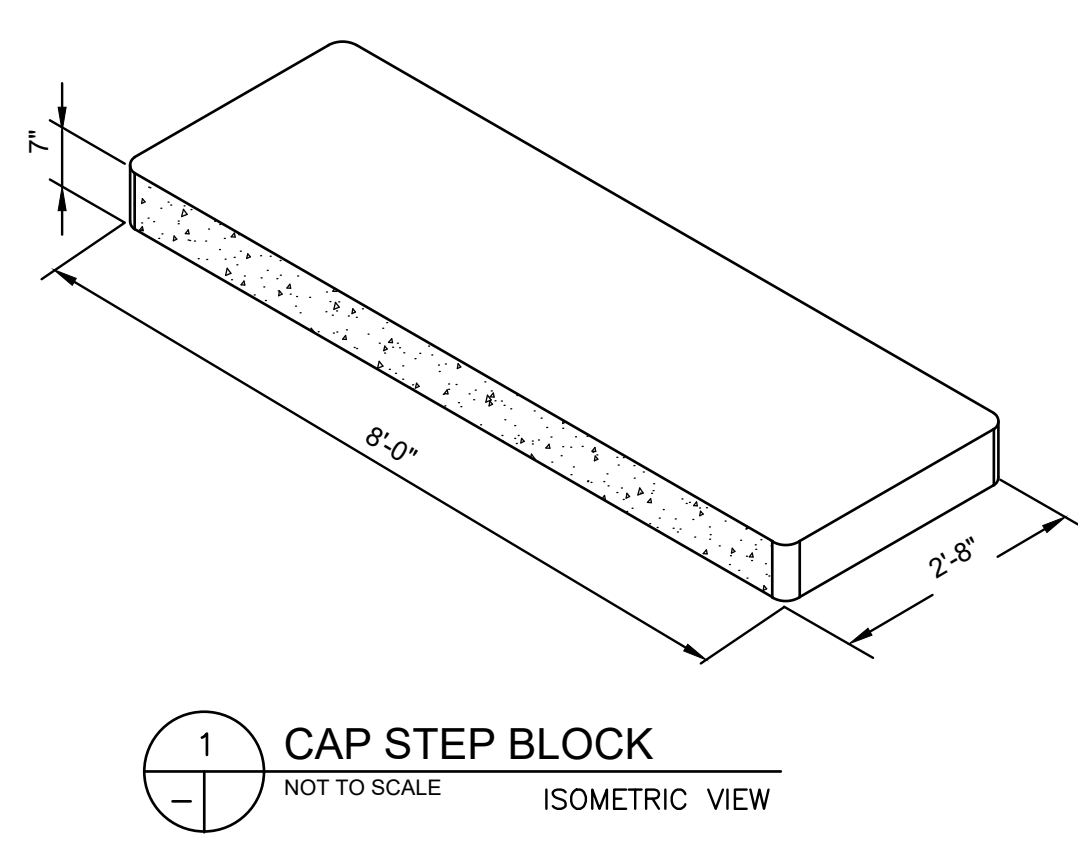
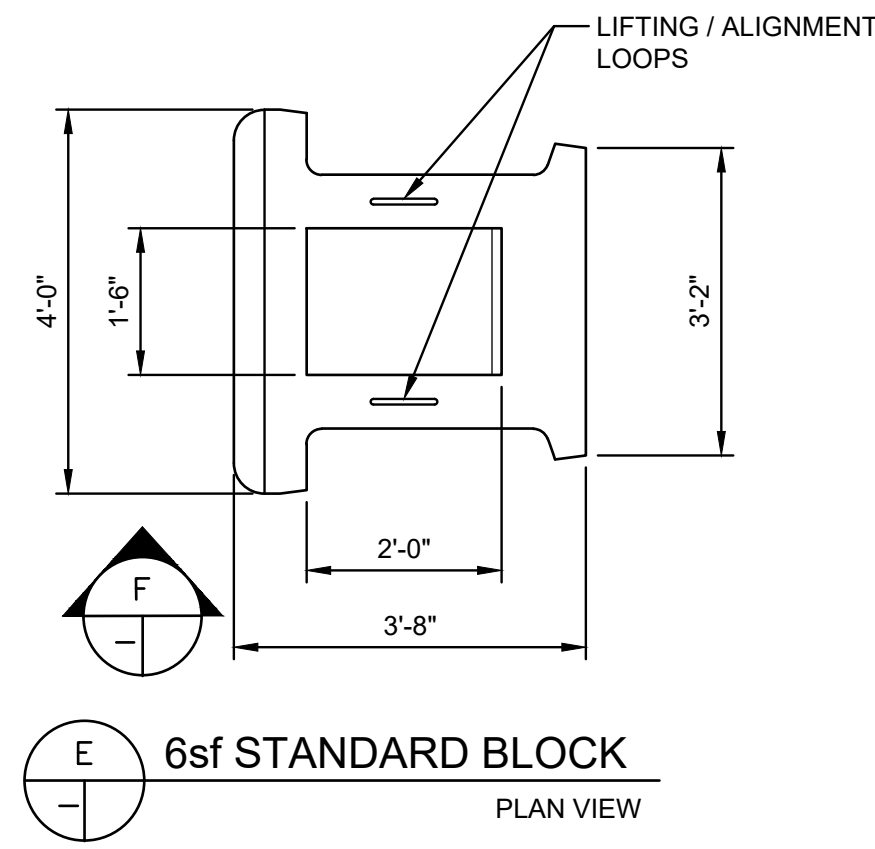
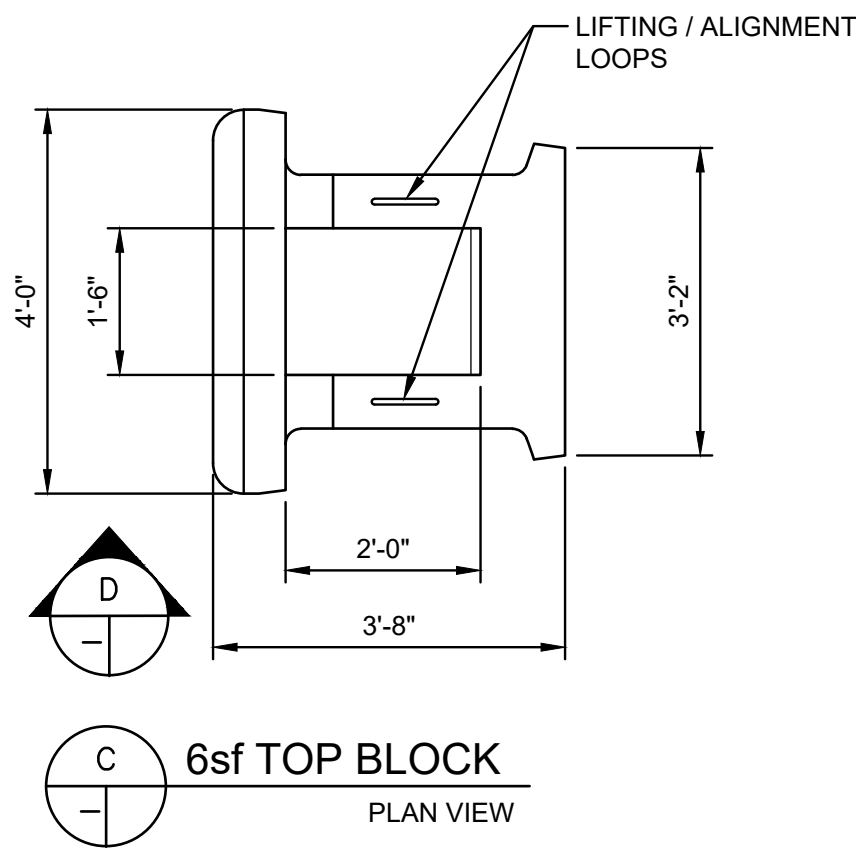
REV	DESCRIPTION	DATE	BY

PROJECT NO: 33884.01
DATE: DECEMBER, 2025
PROJECT MGR: TWS
DESIGNED BY: SAB
DRAWN BY: GRB
CHECKED BY: TWS
REVIEWED BY: MJP
SCALE: AS NOTED
REVISION NO.

NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

REPAIR DETAILS

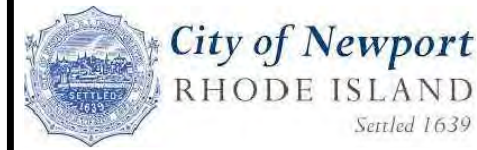
DRAWING
20
SHEET NO. 20 OF 21



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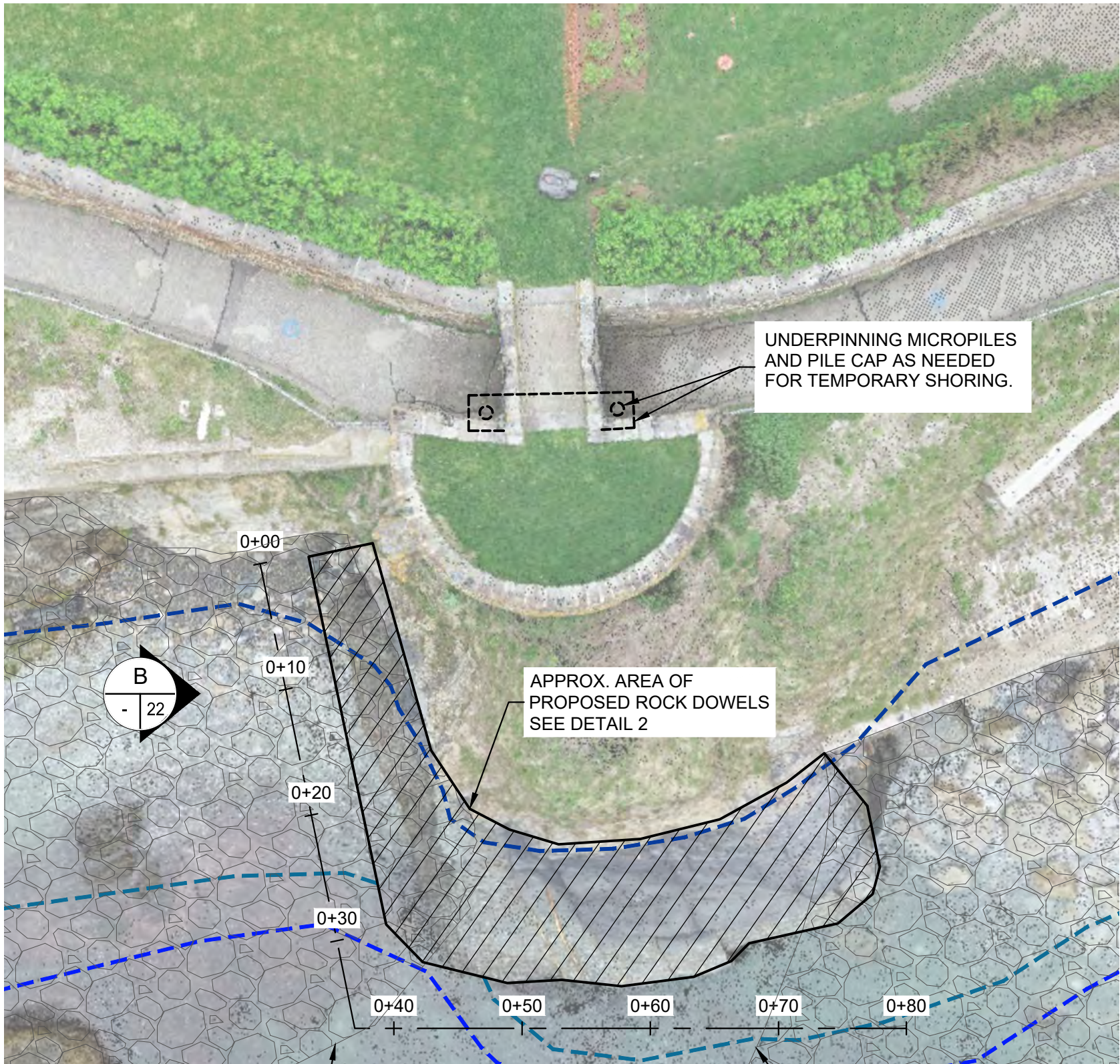
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DATE:	DECEMBER, 2025
PROJECT MGR:	TWS
DESIGNED BY:	SAB
DRAWN BY:	GRB
CHECKED BY:	TWS
REVIEWED BY:	MJP
SCALE:	AS NOTED
REVISION NO.	

NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

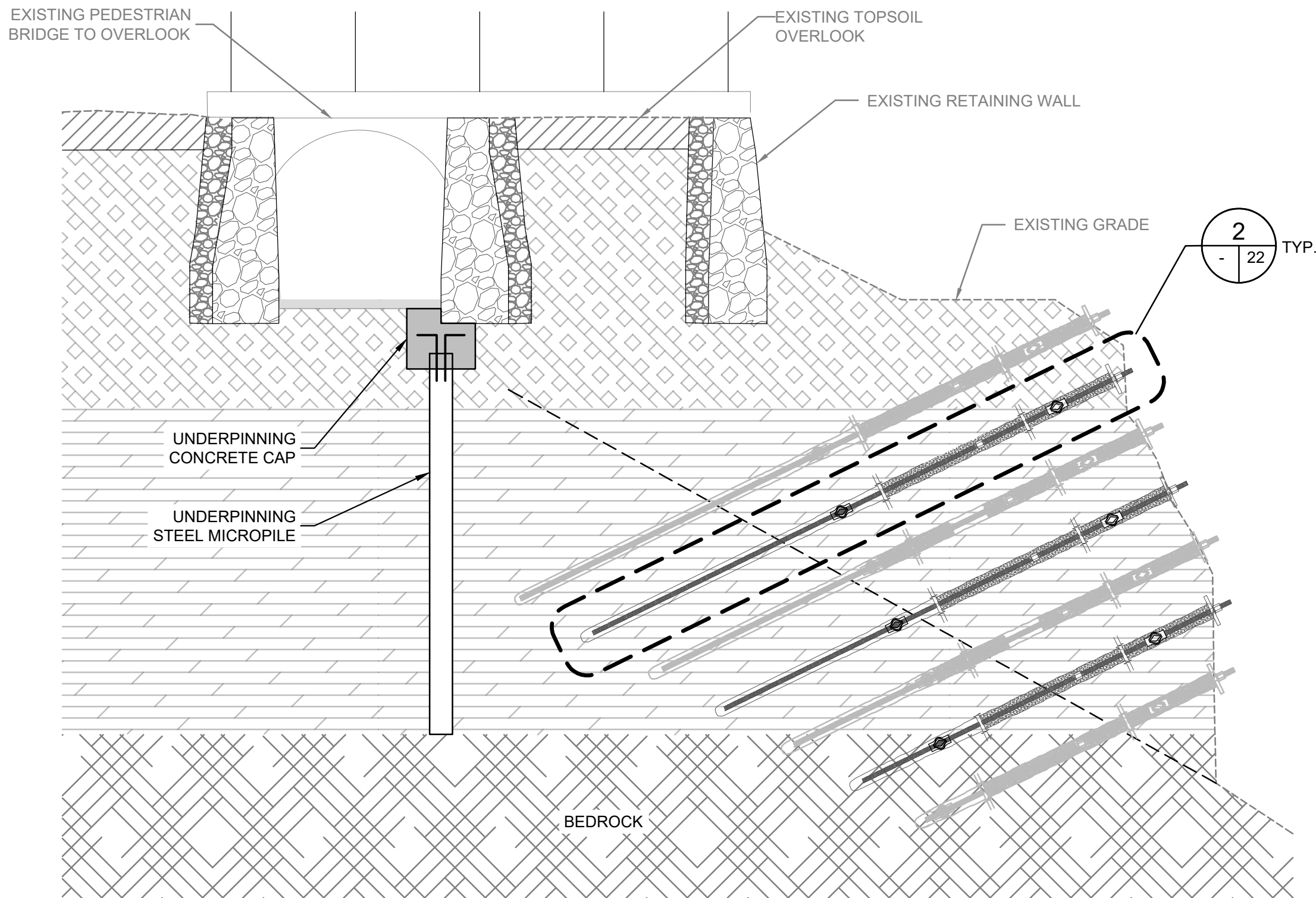
STONE STRONG BLOCK DETAILS

DRAWING
21
SHEET NO. 21 OF 21

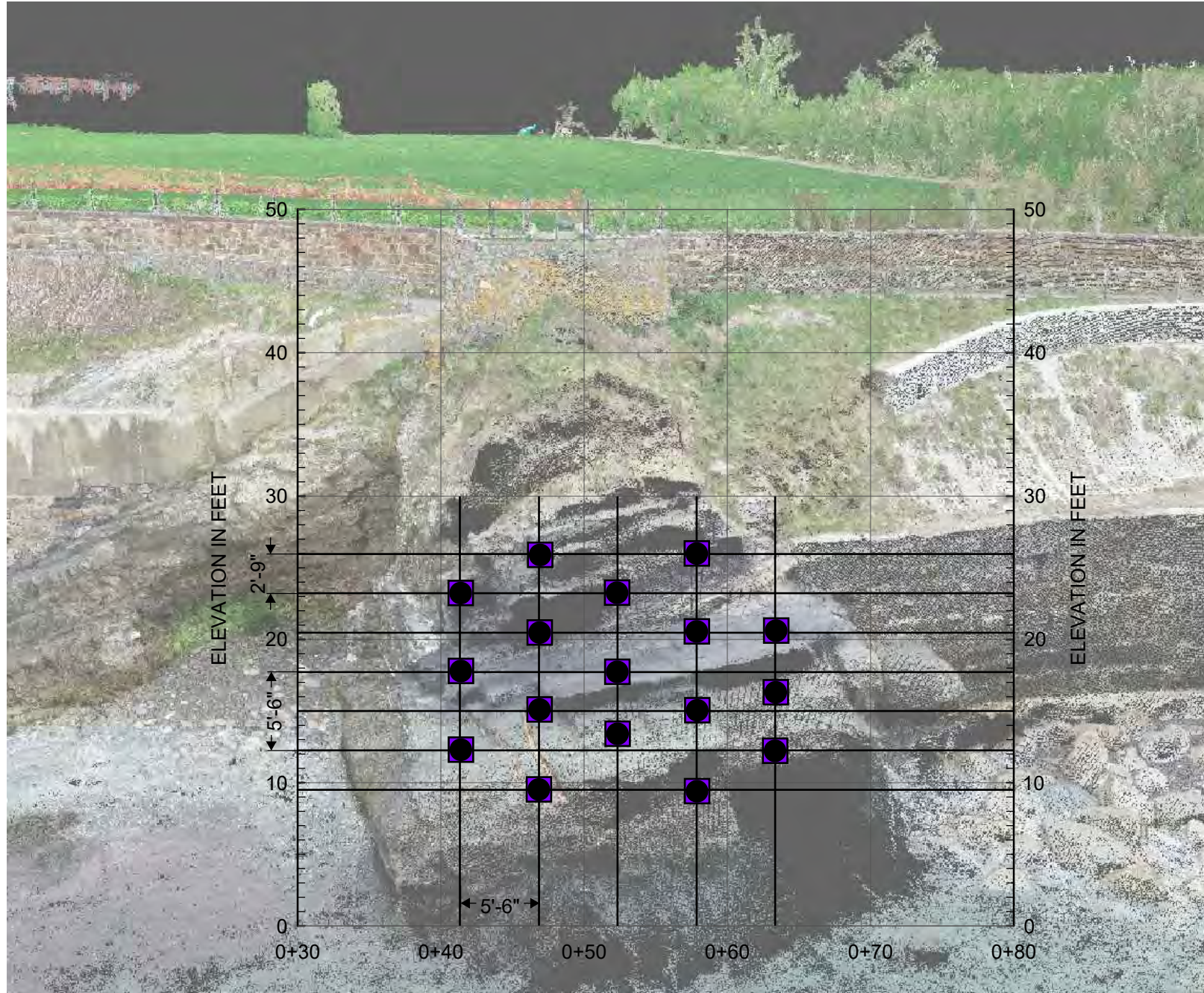
© 2026 - GZA GeoEnvironmental, Inc. GZA-1-1031 (GED) 33884.01.TWS (CAD) CURRENT PLANS 100% DESIGN 12-25-22 ROCK DOWEL AND TEMP. SHORING DETAILS.DWG 22-PROP. SECT August 12, 2026 GARY BASTIEN



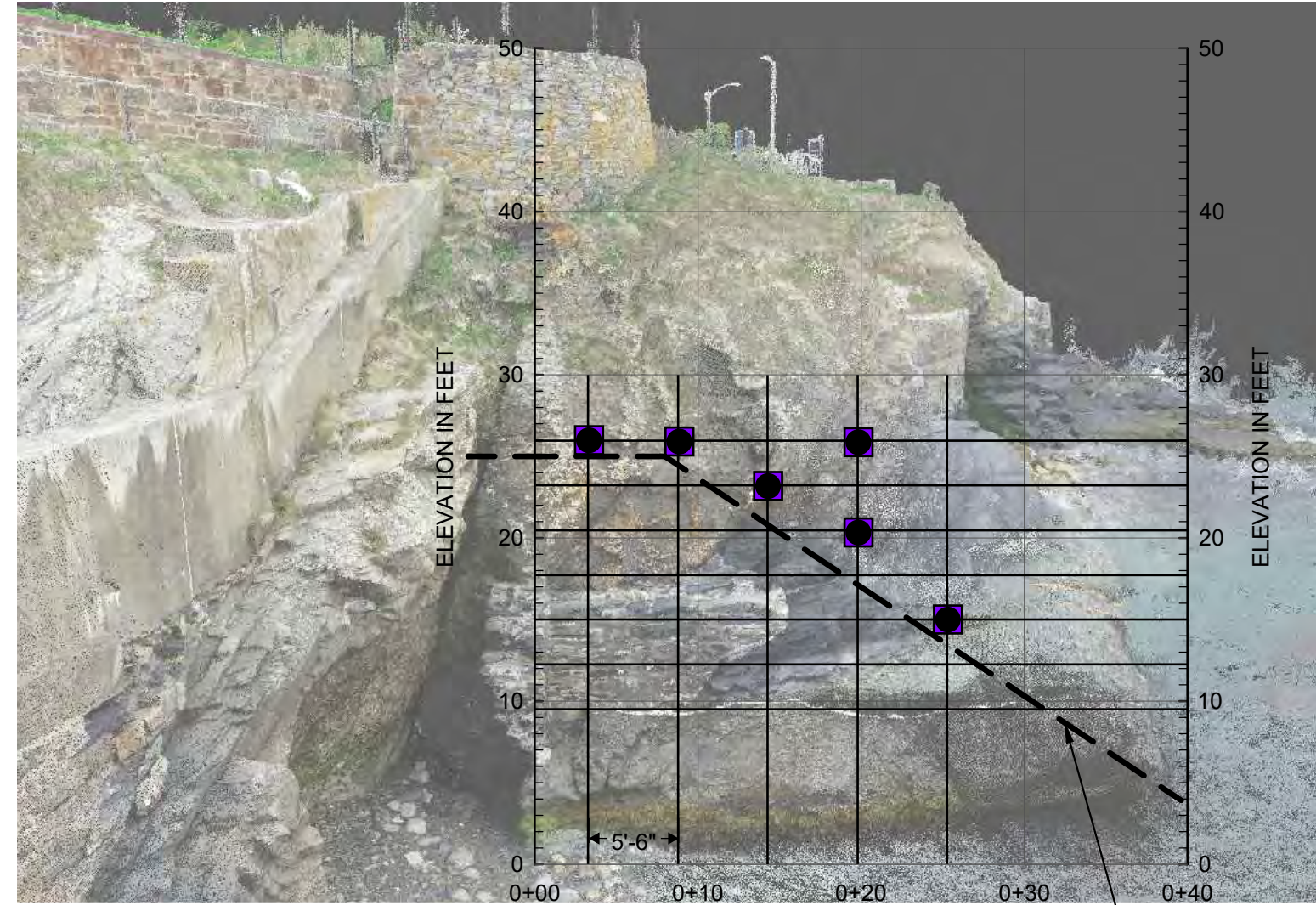
1
- 22
AERIAL PHOTO - PARTIAL PLAN
APPROX. SCALE: 1"=10'



3
- 22
UNDERPINNING DETAIL
SCALE: 1"=5'

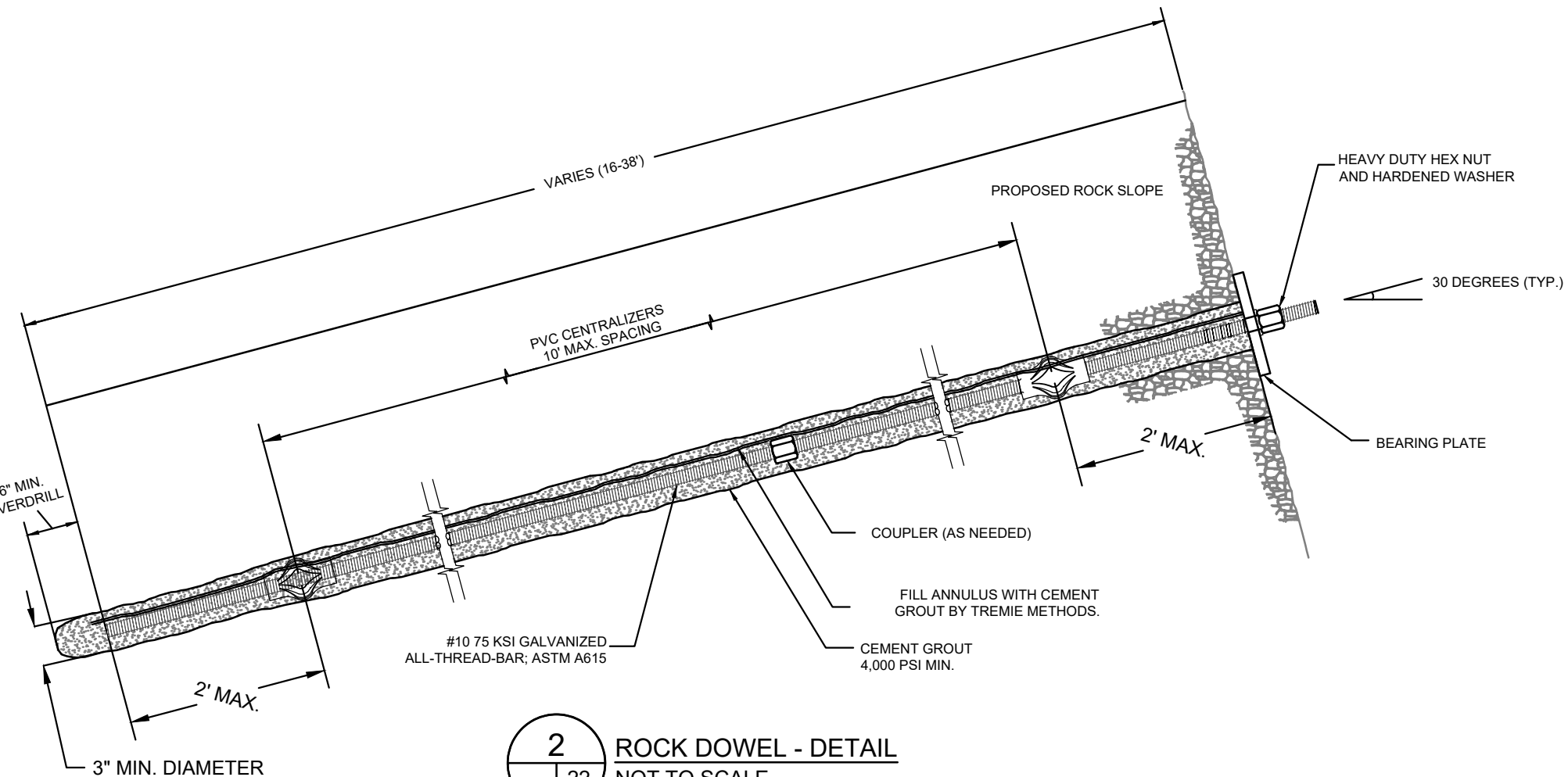


A
- 22
ROCK DOWEL LOCATIONS - FRONT ELEVATION AERIAL IMAGE
APPROX. SCALE: 1"=10'



B
- 22
ROCK DOWEL LOCATIONS - SIDE ELEVATION AERIAL IMAGE
APPROX. SCALE: 1"=10'

LEGEND:
■ APPROXIMATE LOCATION OF PROPOSED ROCK DOWELS. ACTUAL LOCATIONS MAY BE AS DIRECTED BY ENGINEER DURING CONSTRUCTION BASED ON FIELD CONDITIONS



2
- 22
ROCK DOWEL - DETAIL
NOT TO SCALE

ROCK DOWEL NOTES:

1. MATERIALS: MATERIALS FOR CONSTRUCTION SHALL BE FURNISHED NEW AND WITHOUT DEFECTS. DEFECTIVE MATERIALS REJECTED BY GZA SHALL BE REMOVED BY THE CONTRACTOR.
2. ROCK DOWEL LENGTHS SHALL BE AS SPECIFIED IN THE DRAWINGS. THE DRAWINGS PROVIDE MINIMUM LENGTHS. ACTUAL LENGTHS WILL BE DETERMINED BY GZA BASED ON EXPOSED CONDITIONS.
3. CENTRALIZERS SHALL BE CONSTRUCTED OF SCHEDULE 40 PVC. SHALL BE SECURELY ATTACHED TO THE DOWEL BAR, SIZED TO POSITION THE DOWEL BAR OR ROPE ANCHOR WITHIN 1 INCH OF THE CENTER OF THE DRILL HOLE. SIZED TO ALLOW TREMIE PIPE INSERTION TO THE BOTTOM OF THE DRILL HOLE, AND SIZED TO ALLOW GROUT TO FLOW FREELY UP THE DRILL HOLE.
4. GROUT MATERIAL HANDLING AND STORAGE: CEMENT SHALL BE ADEQUATELY STORED TO PREVENT MOISTURE DEGRADATION AND PARTIAL HYDRATION. CEMENT THAT HAS BECOME CAKED OR LUMPY SHALL NOT BE USED.
5. DOWEL BAR STORAGE: ALL DOWEL BARS SHALL BE CAREFULLY HANDLED AND SHALL BE STORED ON SUPPORTS TO KEEP THE STEEL FROM CONTACT WITH THE GROUND. STEEL BARS SHALL BE PICKED UP IN SUCH A WAY AS TO PREVENT OVERSTRESSING. DAMAGE TO THE STEEL OR COATING AS A RESULT OF OVERSTRESSING, ABRASION, CUTS, NICKS, WELDS, AND WELD SPATTER SHALL BE CAUSE FOR REJECTION. GROUNDING OF WELDING LEADS TO THE DOWEL STEEL WILL NOT BE ALLOWED. DOWEL STEEL SHALL BE PROTECTED FROM AND SUFFICIENTLY FREE OF DIRT, RUST AND OTHER DELETERIOUS SUBSTANCES PRIOR TO INSTALLATION. DOWELS SHOULD BE STORED SUCH THAT THEY WILL ABOVE FREEZING TEMPERATURE WHEN INSTALLED FOR GROUTING. HEAVY CORROSION OR PITTING OF DOWELS SHALL BE CAUSE FOR REJECTION BY THE GEOLOGIST/GEOTECHNICAL ENGINEER. REPLACE DOWELS WITH DAMAGED COATING.

ROCK DOWEL INSTALLATION:

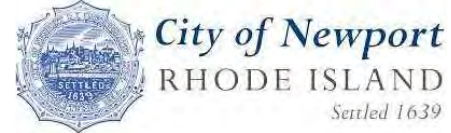
1. PRIOR TO ROCK DOWEL INSTALLATION, SCALING SHALL BE CONDUCTED TO PROVIDE A COMPETENT ROCK SURFACE.
2. DOWELS SHALL BE INSTALLED AT THE LOCATIONS AND TO THE LENGTHS INDICATED ON THE PLANS AND/OR AS DIRECTED BY GZA DURING CONSTRUCTION. THE LENGTHS SPECIFIED IN THE DETAILS DO NOT INCLUDE THE PORTION OF THE DOWEL EXTENDING BEYOND THE FACE THROUGH THE DOWEL PLATE AND NUT, WHICH WILL REQUIRE BARS TO BE NOMINALLY 1' LONGER THAN THE RECOMMENDED DESIGN LENGTHS.
3. THE CONTRACTOR SHALL SELECT THE DRILLING EQUIPMENT AND METHODS SUITABLE FOR THE GROUND CONDITIONS. THE DRILL HOLE DIAMETER SHALL BE AS SPECIFIED IN THE DRAWINGS OR GREATER. WATER, DRILLING MUD OR OTHER FLUIDS USED TO ASSIST IN CUTTINGS REMOVAL SHALL NOT BE ALLOWED. DRILL HOLES SHALL BE OBSERVED FOR CLEANLINESS PRIOR TO INSERTION OF THE DOWEL.
4. DRILL HOLES THAT WILL NOT BE GROUTED THE SAME DAY AS DRILLING SHALL BE CAPPED WITH A PLUG ON THE SAME DAY THEY ARE DRILLED.
5. DOWEL BARS SHALL BE INSERTED INTO THE DRILL HOLE IMMEDIATELY PRIOR TO GROUTING TO THE REQUIRED LENGTH WITHOUT DIFFICULTY AND IN SUCH A MANNER AS TO PREVENT DAMAGE TO THE DRILL HOLE, BAR, TREMIE TUBE OR SPACERS. DOWEL BARS THAT CANNOT BE FULLY INSERTED TO THE DESIGN DEPTH SHALL BE REMOVED FROM THE DRILL HOLE AND THE DRILL HOLE SHALL BE CLEANED SUFFICIENTLY TO ALLOW UNOBSTRUCTED INSTALLATION OF THE BAR. ALTERNATIVELY, THE HOLE MAY BE GROUTED AND THE DOWEL BAR SHALL BE INSERTED INTO THE DRILL HOLE IMMEDIATELY THEREAFTER.
6. IF THE BAR CANNOT BE FULLY INSERTED INTO THE HOLE, THE BAR SHALL BE REMOVED AND THE HOLE REDRILLED.

VERTICAL SCALE 1" = 10'
0 5' 10' 20' 30'
HORIZONTAL SCALE 1" = 10'
0 5' 10' 20' 30'



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PREPARED FOR:



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REV	DESCRIPTION	DATE	BY

PROJECT NO: 33884.01
DATE: AUGUST, 2026
PROJECT MGR: TWS
DESIGNED BY: SAB
DRAWN BY: GRB
CHECKED BY: TWS
REVIEWED BY: MJP
SCALE: AS NOTED
REVISION NO.

Received
8/14/2026
Coastal Resources
Management Council

NEWPORT CLIFF WALK REPAIR
NEWPORT, RHODE ISLAND

ROCK DOWEL AND TEMPORARY
SHORING DETAILS

DRAWING

22

SHEET NO. 22 OF 22