

MOON ISLAND SEAWALL

BOSTON, MA

PFD PROJECT NUMBER - 7222

CITY OF BOSTON

MICHELLE WU, MAYOR

DION S. IRISH, CHIEF OF OPERATIONS

PUBLIC FACILITIES DEPARTMENT

CARLETON W. JONES, EXECUTIVE DIRECTOR

GEI Consultants, Inc.

124 Grove St. Suite 300

Franklin, MA 02038

Contact Person - Alan Pepin, PE 774-571-5324

CONFORMATION STATEMENT:

IN CONFORMATION WITH THE COMMONWEALTH OF MASSACHUSETTS STATE BUILDING CODE, I HEARBY CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE PLANS, COMPUTATIONS AND SPECIFICATIONS MEET THE APPLICABLE PROVISIONS OF SAID CODE, ALL ACCEPTABLE ENGINEERING PRACTICES AND ALL APPLICABLE LAWS AND ORDINANCES.



Chetan Swarn

05/15/2026

REGISTERED PROJECT DESIGNER STAMP AND SIGN HERE

LOCUS PLAN



PROJECT IMAGE



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OSHA REQUIREMENTS:

- PURSUANT TO M.G.L. c.30, §39S, ANY PERSON SIGNING A CONTRACT TO WORK ON A PUBLIC BUILDING OR PUBLIC WORKS PROJECT ESTIMATED TO COST MORE THAN \$10,000, MUST CERTIFY UNDER THE PAINS AND PENALTIES OF PERJURY THAT ALL EMPLOYEES EMPLOYED ON THE WORK SITE, OR IN WORK SUBJECT TO THE BID, HAVE SUCCESSFULLY COMPLETED AT LEAST TEN HOURS OF OSHA APPROVED TRAINING. PROOF OF OSHA CERTIFICATION OF ALL WORKERS ONSITE WILL BE REQUIRED BY THE OWNER PRIOR TO THE START OF WORK.

GENERAL:

- IN THESE DOCUMENTS, THE TERM "OWNER" REFERS TO THE BOSTON PUBLIC FACILITIES DEPARTMENT (BPDF).
- DIMENSIONS AND DETAILS OF THE EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE BEFORE ORDERING MATERIALS AND COMMENCING PROCESSING WITH THE AFFECTED PART OF THE WORK.
- THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS, INCLUDING THE FEDERAL DEPARTMENT OF LABOR, SAFETY, OCCUPATIONAL SAFETY, HEALTH ACT, U.S. ARMY CORPS OF ENGINEERS, AND STATE/LOCAL WETLANDS CONTROL. THE CONTRACTOR SHALL COMPLY FULLY WITH ALL PERMITS INCLUDING THE FINAL ORDER OF CONDITIONS ISSUED BY THE BOSTON CONSERVATION COMMISSION.
- STORAGE, FUELING, AND LUBRICATION OF EQUIPMENT AND MOTOR VEHICLES SHALL BE CONDUCTED IN A MANNER THAT AFFORDS THE MAXIMUM PROTECTION AGAINST SPILL AND EVAPORATION. FUEL, LUBRICANTS, AND OIL SHALL BE MANAGED AND STORED IN ACCORDANCE WITH ALL FEDERAL, STATE, REGIONAL, AND LOCAL LAWS AND REGULATIONS. EQUIPMENT OPERATION, ACTIVITIES, OR PROCESSES PERFORMED BY THE CONTRACTOR SHALL BE IN ACCORDANCE WITH ALL FEDERAL AND STATE AIR EMISSION AND PERFORMANCE LAWS AND STANDARDS.
- EXISTING STRUCTURES AND AMENITIES WITHIN THE PROXIMITY OF THE WORK SHALL BE PROTECTED TO PREVENT ACCIDENTAL DAMAGE BY CONSTRUCTION ACTIVITIES.
- DISCOVERY OF INCONSISTENT SITE INFORMATION OR CONDITIONS SHALL BE IMMEDIATELY CONVEYED TO THE RESIDENT ENGINEER PRIOR TO COMMENCING OR CONTINUING CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND DIMENSIONS OF ALL UNDERGROUND UTILITIES WITHIN THE LIMITS OF WORK PRIOR TO COMMENCING EXCAVATION OR GROUND PENETRATING WORK. THE CONTRACTOR SHALL NOTIFY "DIG SAFE" (1-888-344-7233) AT LEAST 7 CALENDAR DAYS PRIOR TO COMMENCEMENT OF THE EXCAVATION OR GROUND PENETRATING ACTIVITY.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES OCCURRING AS A RESULT OF THE CONTRACTOR'S FAILURE TO LOCATE AND PROTECT UNDERGROUND UTILITIES AND STRUCTURES. ALL REPAIRS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODES.
- THE CONTRACTOR SHALL COORDINATE WITH OWNER FOR SPECIFIC LIMITS AND LOCATION FOR LAY DOWN AND STAGING AREA.
- MAINTAIN THE WORK SITE AND LAYDOWN AREA TO THE SATISFACTION OF THE OWNER AND OWNER'S REPRESENTATIVE.
- EXISTING SITE PLAN IS BASED ON DRAWING TITLED "MOON ISLAND EXISTING CONDITIONS VERIFICATION" PREPARED BY BSC GROUP AND DATED MAY 10, 2006 AND WAS SUPPLEMENTED BY UAS DRONE FLIGHT COMPLETED ON APRIL 23, 2025 BY GEI CONSULTANTS.
- ELEVATIONS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) UNLESS NOTED OTHERWISE.
- FEMA ELEVATIONS REFERENCE NAVD88 AND ARE BASED ON FIRM MAP NUMBER 25021C0086F REVISED JUNE 9, 2014 WITH A LOMR EFFECTIVE JANUARY 19, 2018.

SITE SAFETY:

- CONTRACTOR SHALL PROVIDE AND INSTALL TEMPORARY FENCING AS REQUIRED TO PREVENT FALL HAZARDS, AND TO SECURE THE SITE AS NEEDED.

DESIGN LOADS:

- SEAWALL UNIFORM SURCHARGE LOAD: 250 PSF
- SEAWALL UNIFORM WAVE LOAD FOR 1% WAVE AND WATER LEVEL CONDITIONS: 2565 PSF

DEMOLITION:

- THE CONTRACTOR SHALL EXERCISE CARE DURING DEMOLITION TO AVOID DESTABILIZING OR DAMAGING THE EXISTING MASONRY SEAWALL AND ALL OTHER ADJACENT STRUCTURES, UTILITIES, PAVEMENT, AND OTHER AMENITIES.
- ALL MATERIAL DEMOLISHED AND NOT REUSED OR SALVAGED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED DAILY, UNLESS OTHERWISE APPROVED. REMOVED MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.
- PREVENT THE SPREAD OF DUST AND DEBRIS AND AVOID THE CREATION OF A NUISANCE OR HAZARD IN THE SURROUNDING AREA. DO NOT USE WATER IF IT RESULTS IN HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS, BUT NOT LIMITED TO, FLOODING OR POLLUTION.

EROSION CONTROL:

- THE CONTRACTOR IS RESPONSIBLE FOR EXCAVATING EXISTING MATERIAL AS NEEDED TO COMPLETE THE WORK AND MUST MAINTAIN A STABLE SLOPE DURING ALL OPERATIONS. PROVIDE TEMPORARY EROSION CONTROL WITHIN THE LIMITS OF THE WORK.

CONCRETE:

- ALL CAST-IN-PLACE CONCRETE CONSTRUCTION AND DETAILING SHALL CONFORM TO ACI 318 AND ACI 317.
- THE CAST-IN-PLACE CONCRETE MIX SHALL BE DEVELOPED BY THE CONTRACTOR AND SUPPLIER AND SHALL BE SUITABLE FOR THE INTENDED PLACEMENT MEANS AND METHODS. THE MIX DESIGN SHALL BE IN ACCORDANCE WITH MASSDOT SECTION M4.02, FOR A 4000 PSI CEMENTITIOUS CONCRETE MODIFIED FOR SALT WATER EXPOSURE:
 - 28-DAY STRENGTH: 5000 PSI
 - AGGREGATE: 3/4 IN
 - AIR CONTENT: 5% - 7%
 - CORROSION INHIBITOR: IS REQUIRED AND SHALL BE DOSED AS DIRECTED BY MANUFACTURER
- EXISTING SURFACES SHALL BE CLEANED AND PREPARED PRIOR TO PLACEMENT OF CONCRETE, AND SHALL BE FREE OF ICE, STANDING WATER, AND ANY ORGANIC OR LOOSE/DELETERIOUS MATERIALS.
- THE CONTRACTOR SHALL INSTALL FORMWORK TO PROVIDE A BEST PRACTICAL FIT AND SEAL OVER THE FULL HEIGHT AND DEPTH OF THE WALL.
- CONCRETE PLACED IN TIDAL RANGE SHALL BE PLACED IN DEWATERED CONDITIONS, OR PLACED VIA TREMIE METHOD TO PREVENT WASHING OF THE CONCRETE. CONCRETE PLACED VIA TREMIE SHALL INCLUDE AN ANTI-WASHOUT ADMIXTURE.
- CONTRACTOR SHALL NOTE MASSDOT REQUIREMENTS FOR CONCRETE PLACED IN WATER.
- MAINTAIN 3" CLEAR COVER TO ALL REINFORCING STEEL, UNLESS OTHERWISE NOTED.
- EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" CHAMFER, UNLESS OTHERWISE INDICATED.
- FRESH CONCRETE SURFACES SHALL BE COVERED WITH BURLAP OR APPROVED EQUAL AND MOIST CURED FOR A PERIOD OF NOT LESS THAN SEVEN (7) FULL DAYS AFTER CONCRETE PLACEMENTS.
- CONCRETE FORMWORK SHALL NOT BE REMOVED UNTIL A MINIMUM OF 3 DAYS HAVE ELAPSED FROM FINAL CONCRETE PLACEMENT.
- COMPACTION OF BACKFILL SHALL NOT PROCEED UNTIL A MINIMUM 72-HOUR CONCRETE CURING PERIOD HAS ELAPSED.
- CONCRETE CAST IN PLACE AND/OR CURED IN COLD WEATHER OR IN HOT WEATHER SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 03 31 30.

REINFORCING STEEL:

- REINFORCING STEEL SHALL BE NEW, DEFORMED BILLET STEEL BARS CONFORMING TO ASTM A615, GRADE 60, EITHER HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A767 CLASS 1 OR CONTINUOUS HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A1094. BEND DIAMETERS FOR STEEL SUPPLIED IN ACCORDANCE WITH ASTM A767 SHALL COMPLY WITH ASTM A767.
- ALL REINFORCING SHALL BE FULLY SUPPORTED ON APPROVED PLASTIC CHAIRS AND/OR COATED STEEL WHERE REINFORCING STEEL IS IN CONTACT WITH FORMS. SUPPORTS SHALL BE PLASTIC OR STAINLESS STEEL. ALL STEEL INSTALLED BY A CONTRACTOR SHALL BE COATED OR STAINLESS STEEL, INCLUDING FORM TIES AND FORMWORK SUPPORTS, UNLESS OTHERWISE NOTED.
- ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS.
- WHERE "DRILL AND GROUT" IS CALLED FOR IN THE DRAWING SET, GROUT SHALL CONFORM TO THOSE LISTED WITHIN CONTRACT DOCUMENTS FOR CONCRETE ADHESIVE ANCHOR SYSTEMS OR APPROVED EQUIVALENT.
- DOWELS SHALL BE DEFORMED STAINLESS STEEL IN ACCORDANCE WITH ASTM A955, GRADE 60 KSI.
- ALTERNATE REINFORCING STEEL SUPPLIED BY ALLIUM MAY BE USED AS APPROVED IN THE CONTRACT DOCUMENTS. INSTALLATION, FABRICATION, HANDLING, AND STORAGE SHALL BE IN ACCORDANCE WITH ALLIUM'S CURRENT SPECIFICATIONS AND RECOMMENDATIONS.
- IN THE EVENT OF A CONFLICT BETWEEN THESE NOTES AND ALLIUM'S REQUIREMENTS FOR THE ALTERNATE REINFORCING SYSTEM, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE MORE STRINGENT REQUIREMENT SHALL GOVERN UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

EARTHWORK:

- ALL EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATIONS.
- BACKFILL SHALL CONFORM TO THE REQUIREMENTS OF MASSDOT SECTION M1.01.0 "ORDINARY BORROW" OR APPROVED EQUIVALENT. PLACE AND COMPACT IN LIFTS AS REQUIRED TO PREVENT SETTLEMENT. NO BACKFILL COMPACTION SHALL OCCUR SOONER THAN 72 HOURS AFTER CONCRETE PLACEMENT.
- IN LIEU OF ORDINARY BORROW, CONTRACTOR MAY ALTERNATIVELY USE CRUSHED STONE IN ACCORDANCE WITH MASSDOT SECTION M1.03.0 "GRAVEL BORROW."
- CRUSHED STONE SHALL CONFORM TO THE REQUIREMENTS OF MASSDOT SECTION M2.01.07 "DENSE GRADED CRUSHED STONE FOR SUB-BASE" OR APPROVED EQUIVALENT. PLACE AND COMPACT AS REQUIRED TO PREVENT SETTLEMENT.
- ARMOR STONE SHALL CONFORM TO THE REQUIREMENTS OF MASSDOT SECTION M2.06.0 "SLOPE PAVING" OR APPROVED EQUIVALENT. PLACE AS REQUIRED TO MATCH EXISTING SLOPE.
- GEOTEXTILE SHALL BE MIRAFI 140N OR EQUAL APPROVED.

ENVIRONMENTAL CONTROL NOTES:

- ENVIRONMENTAL CONTROLS SHALL CONFORM TO ALL STATE, LOCAL, AND FEDERAL REGULATIONS AND PERMITS INCLUDING THE FINAL ORDER OF CONDITIONS ISSUED BY THE BOSTON CONSERVATION COMMISSION.
- SUITABLE MEASURES SHALL BE TAKEN TO PREVENT DEBRIS AND WASTE WATERS ORIGINATING FROM CONCRETE WORK AND DEMOLITION WORK FROM ENTERING THE OCEAN.
- DURING ALL CONCRETE OPERATIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION, TREATMENT, AND REMOVAL OF ALL WATER AND WASTE WITHIN THE CONTRACTOR'S WORK AREA. CONCRETE WASH WATER SHALL BE REMOVED AND DISPOSED OF OFF SITE.
- CONTRACTOR SHALL PROVIDE A SUITABLE CONCRETE WASHDOWN AREA
- EROSION CONTROL SHALL INCLUDE BUT NOT BE LIMITED TO SILT BARRIERS AND SILT SACKS.

UTILITY NOTES:

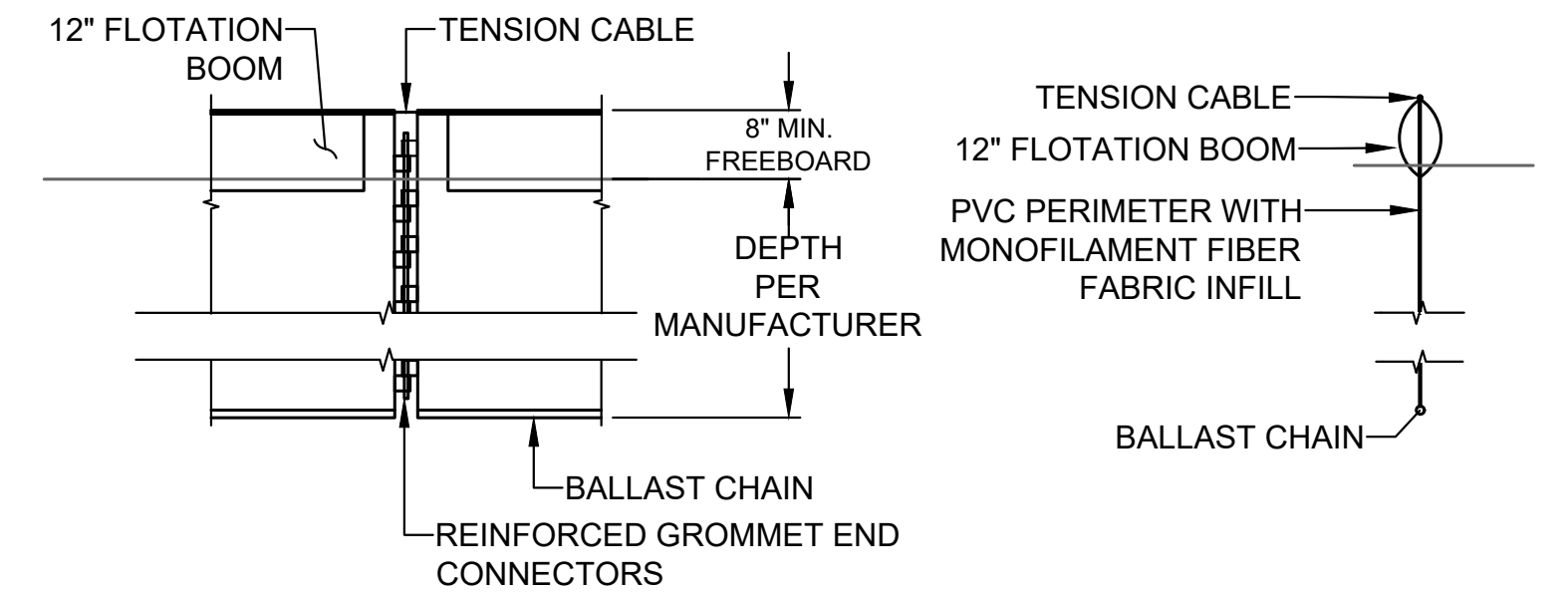
- LOCATE UNDERGROUND UTILITIES WITHIN THE LIMITS OF THE EXCAVATION OR GROUND PENETRATING WORK BEFORE STARTING EXCAVATION OR GROUND PENETRATING WORK. NOTIFY "DIG SAFE" (1-888-344-7233) WITHIN THREE (3) CALENDAR DAYS, BUT NO MORE THAN 30 DAYS, PRIOR TO THE STARTING EXCAVATION OR GROUND PENETRATING ACTIVITY. COMPLY WITH THE STATE OF MASSACHUSETTS "DIG SAFE" LAW G.L. c. 82, SECTION 40A.
- PROTECT ALL UTILITIES WITHIN THE LIMITS OF WORK FROM DAMAGE DURING CONSTRUCTION. ALL UTILITIES SHALL REMAIN OPERATIONAL UNLESS OTHERWISE APPROVED.
- DAMAGE TO EXISTING UTILITIES DURING THE WORK SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY AT NO ADDITIONAL COST.

AS-BUILT DRAWING NOTES:

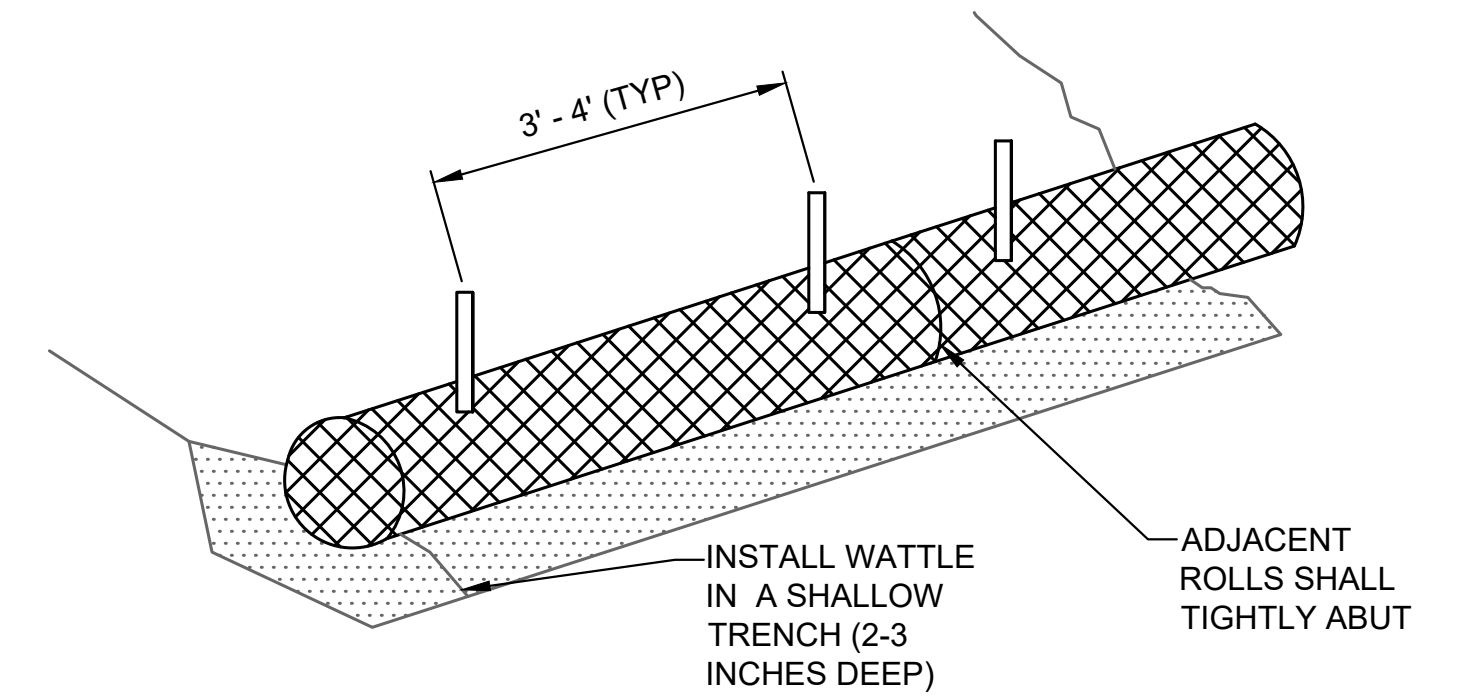
- MAINTAIN A SET OF AS-BUILT DRAWINGS, INCLUDING REDLINES, ON SITE AT ALL TIMES TO ACCURATELY RECORD PROJECT PROGRESS AND CHANGES. SUBMIT FINAL REDLINE AS-BUILT SET TO THE OWNER AT THE COMPLETION OF WORK.

ABBREVIATION	ITEM
BOW	BOTTOM OF WALL
ESW	EXISTING SEAWALL
MIN	MINIMUM
MAX	MAXIMUM
PFD	PUBLIC FACILITIES DEPARTMENT
PSW	PROPOSED SEAWALL
TOW	TOP OF WALL
TYP	TYPICAL

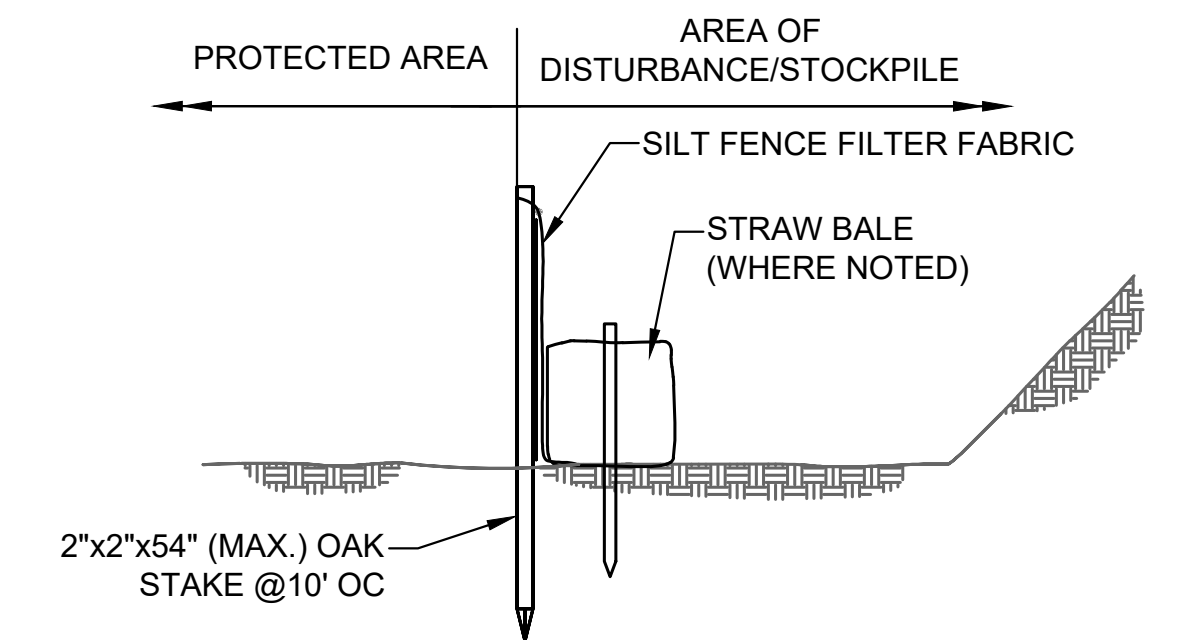
DATUM CONVERSION:	
FEMA FLOOD ZONE (VE)	16.00'
FEMA FLOOD ZONE (AE)	14.00'
HIGHEST ASTRONOMICAL TIDE (HAT)	7.56'
HIGH TIDE LINE (HTL)	6.89'
MEAN HIGHER-HIGH WATER (MHHW)	4.74'
MEAN HIGH WATER (MHW)	4.29'
NAVD88	0.00'
NGVD 29	0.71'
MEAN SEA LEVEL (MSL)	-0.31'
MEAN LOW WATER (MLW)	-5.14'
MEAN LOWER-LOW WATER (MLLW)	-5.48'
BOSTON CITY BASE DATUM (BCB)	-6.50'
LOWEST ASTRONOMICAL TIDE (LAT)	-8.61'
CENTRAL ARTERY/TUNNEL (CA/T)	-100.65'
REFERENCES: NOAA TIDAL STATION #8443970 BOSTON, MA	



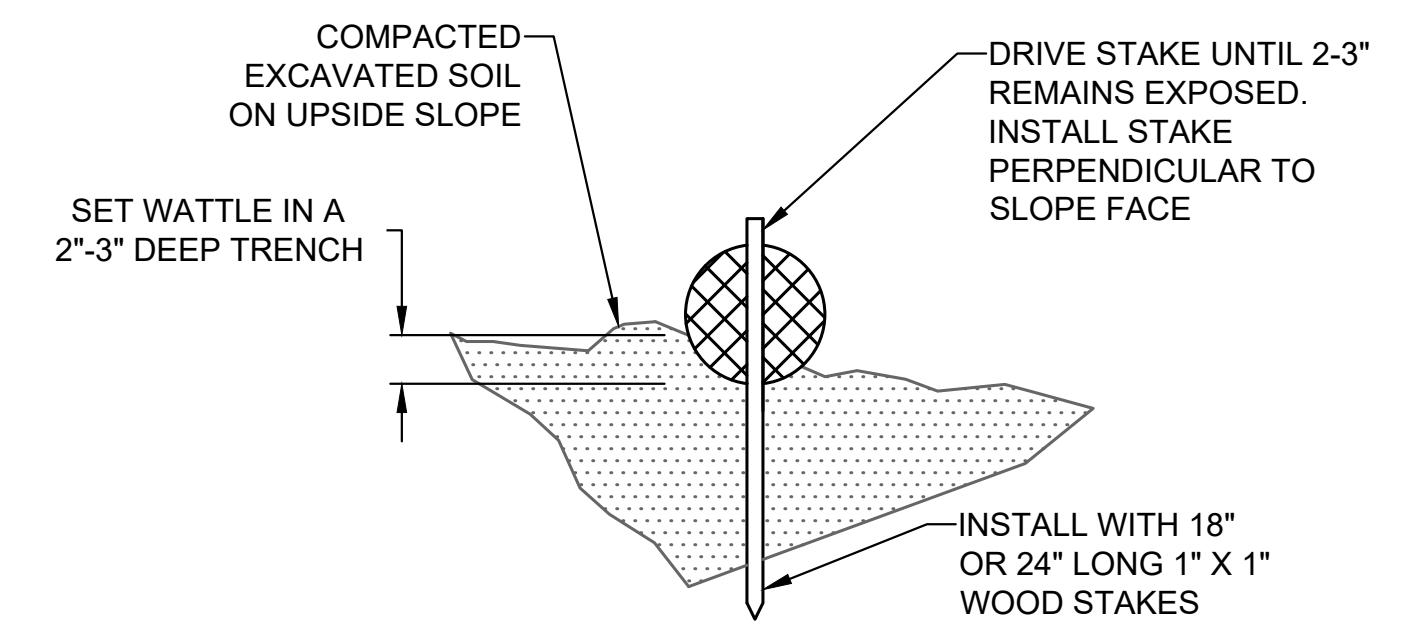
A TURBIDITY CURTAIN DETAILS
G-02 NO SCALE



B TYPICAL WATTLE INSTALLATION GUIDE
G-02 NO SCALE



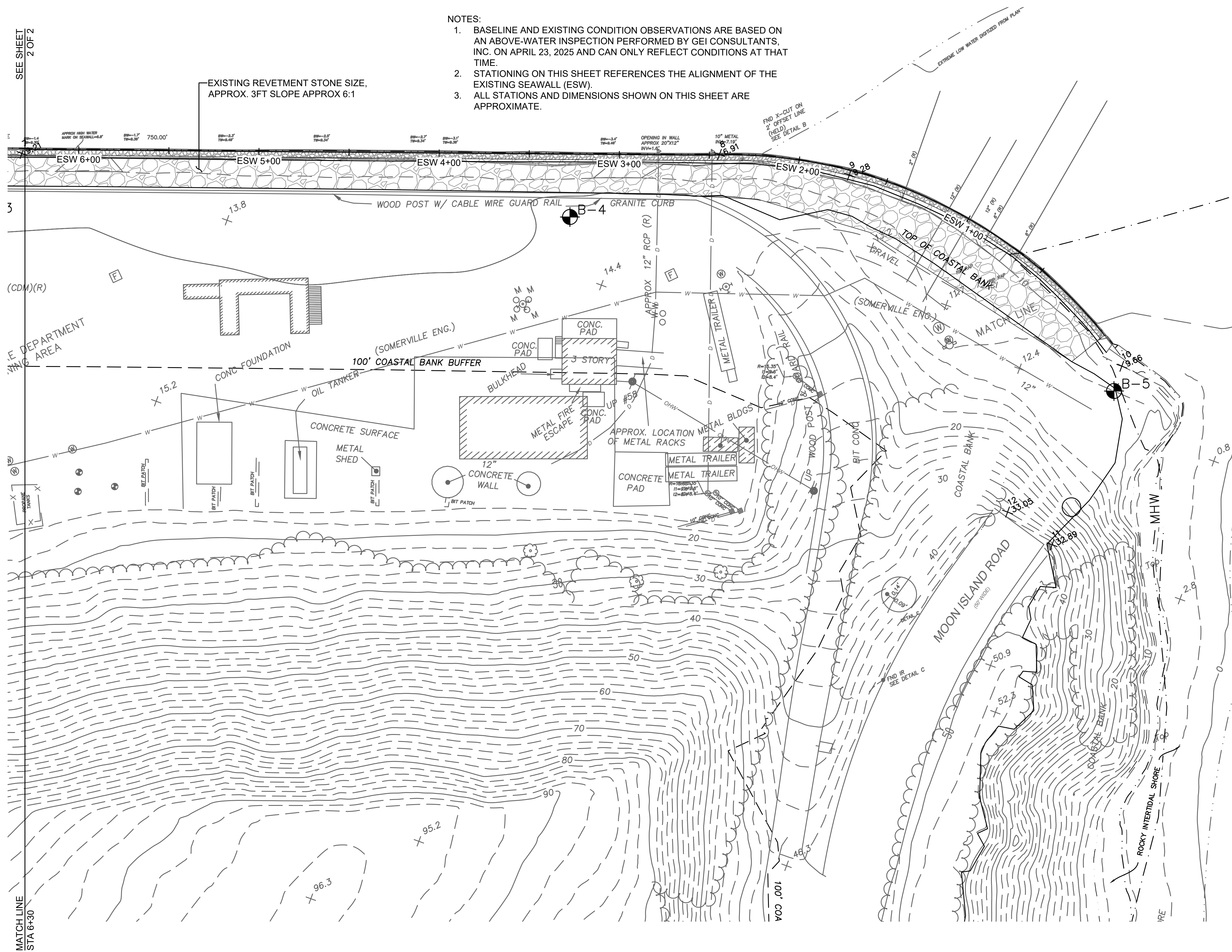
C SILT FENCE DETAIL
G-02 NO SCALE



D ENTRENCHMENT
G-02 NO SCALE

FITZGERALD, JAMISON, B. Working BOSTON PFD250219 Moon Island Seawall - Final Design & Construction03_CAD01.dwg - 5/15/2026

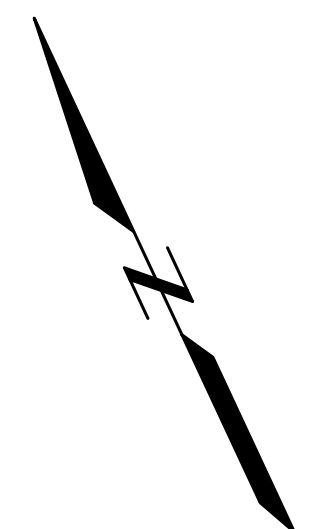
Attention: If this scale bar does not measure 1" then drawing is not original scale.		Designed: IJP Drawn: JSF Checked: ADP Approved: CS P.E. No: 58108 GEI Project: 2502319	 GEI CONSULTANTS, INC. 124 GROVE STREET FRANKLIN, MA 02038 (774)277-6001	 BOSTONIA. CONDITA A.D. 1630.	MOON ISLAND SEAWALL BOSTON PFD PROJECT: #7222 BOSTON, MA	SHEET NAME GENERAL NOTES AND DETAILS	SHEET NO. G-02												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO</th> <th>DATE</th> <th>ISSUE/REVISION</th> <th>APP</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>5/15/2026</td> <td>ISSUED FOR BID</td> <td>CS</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>						NO	DATE	ISSUE/REVISION	APP	0	5/15/2026	ISSUED FOR BID	CS						
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- NOTES:
1. BASELINE AND EXISTING CONDITION OBSERVATIONS ARE BASED ON AN ABOVE-WATER INSPECTION PERFORMED BY GEI CONSULTANTS, INC. ON APRIL 23, 2025 AND CAN ONLY REFLECT CONDITIONS AT THAT TIME.
 2. STATIONING ON THIS SHEET REFERENCES THE ALIGNMENT OF THE EXISTING SEAWALL (ESW).
 3. ALL STATIONS AND DIMENSIONS SHOWN ON THIS SHEET ARE APPROXIMATE.

SEE SHEET 2 OF 2

MATCH LINE STA 6+30

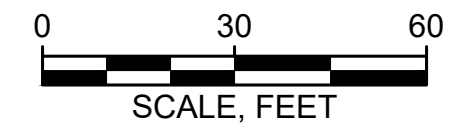


HATCH LEGEND

	EXISTING ARMOR STONE
	EXISTING CONCRETE SEAWALL
	SECTION OF WALL FAILURE
	SINKHOLE

PRELIMINARY

TIDAL DATUMS	
WATER LEVEL	ELEVATION (FT NAVD)
HAT	7.56
MHHW	4.74
MHW	4.29
NAVD 88	0
MSL	-0.31
MLW	-5.14
MLLW	-5.48
LAT	-8.61



Attention:

 If this scale bar does not measure 1" then drawing is not original scale.



Designed:	IJP
Drawn:	JSF
Checked:	ADP
Approved:	CS
P.E. No.:	58108
GEI Project:	2502319



**MOON ISLAND SEAWALL
 BOSTON PFD
 PROJECT: #7222**

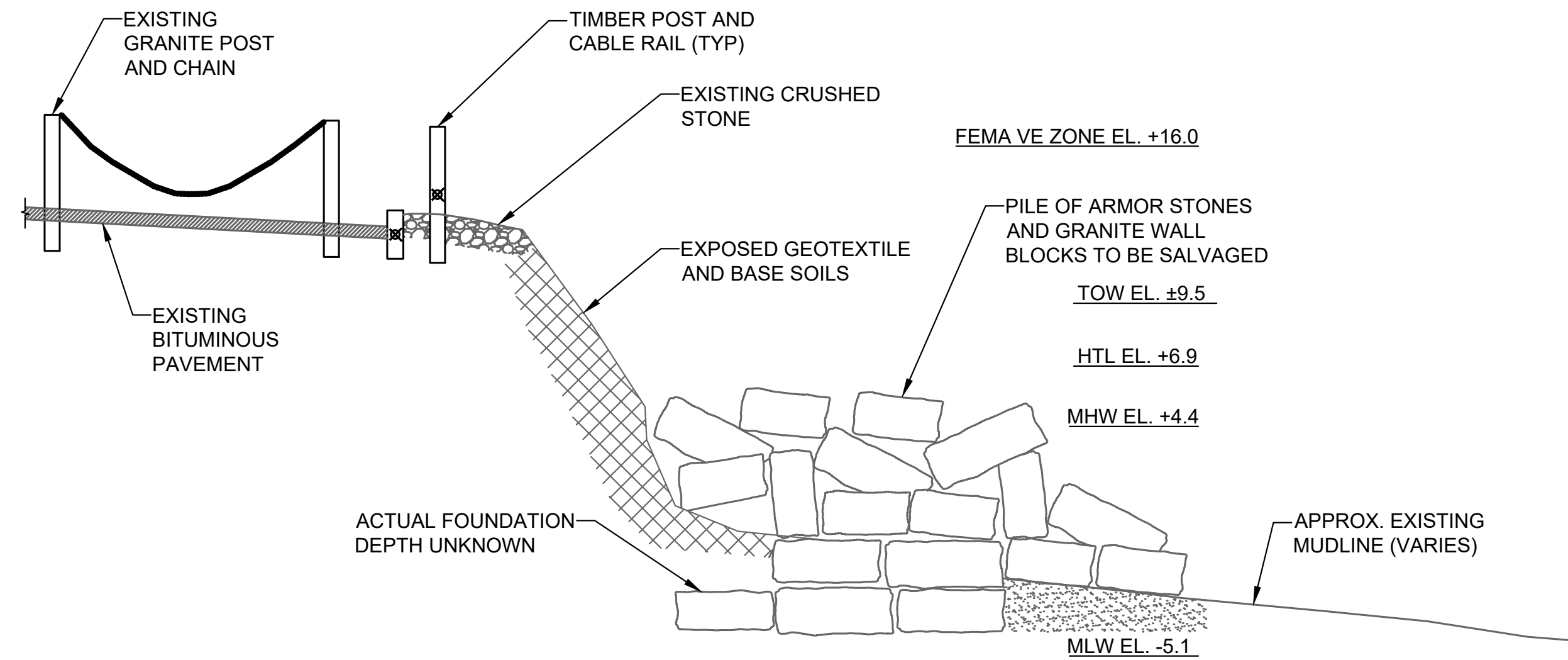
BOSTON, MA

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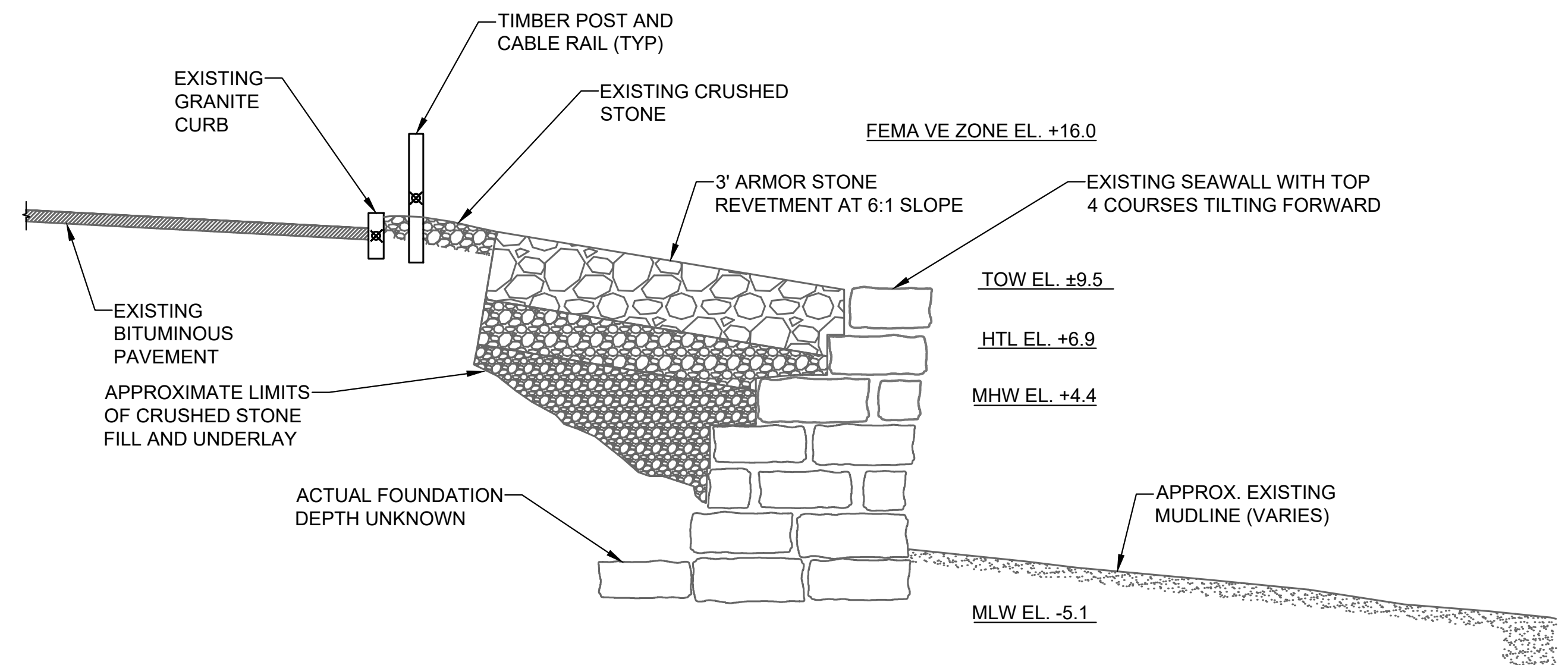
SHEET NAME
**EXISTING CONDITIONS
 PLAN - PART B**

SHEET NO.
V-01B

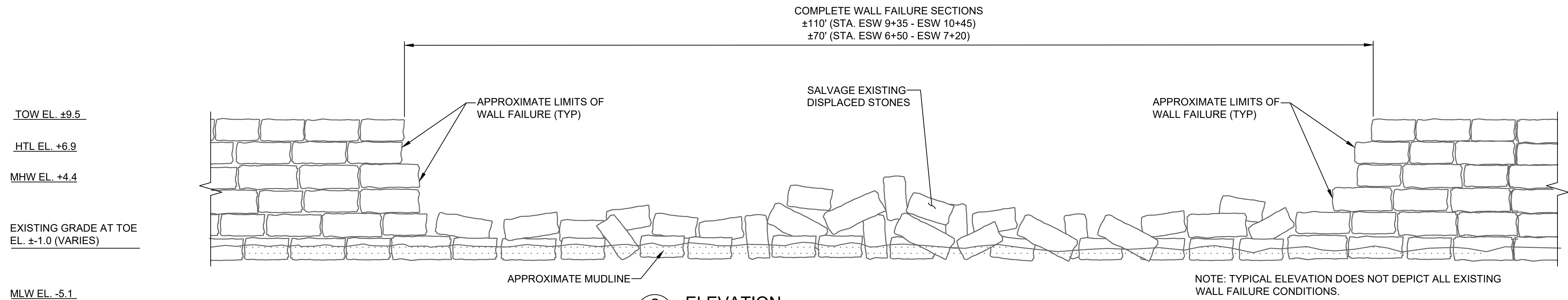
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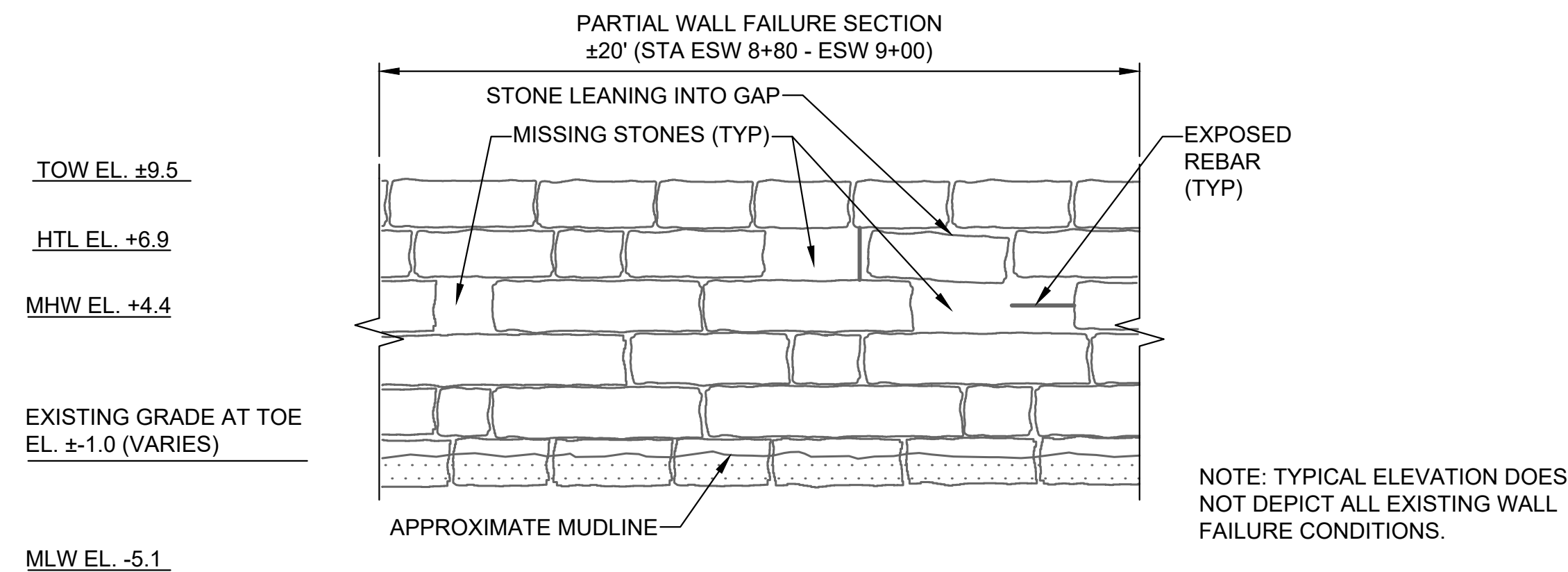
A TYPICAL SECTION
V-01A WALL FAILURE SCALE: 1" = 5'



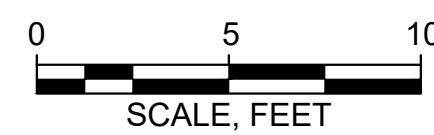
B TYPICAL SECTION
V-01A WALL DISPLACEMENT SCALE: 1" = 5'



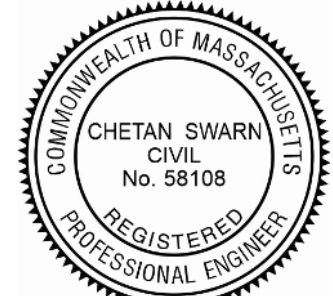
C ELEVATION
V-01A COMPLETE WALL FAILURE SCALE: 1" = 5'



D ELEVATION
V-01A PARTIAL WALL FAILURE SCALE: 1" = 5'



Attention:
0 1"
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**MOON ISLAND SEAWALL
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BOSTON, MA

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SHEET NAME
EXISTING SECTIONS AND ELEVATION - I

SHEET NO.
V-02

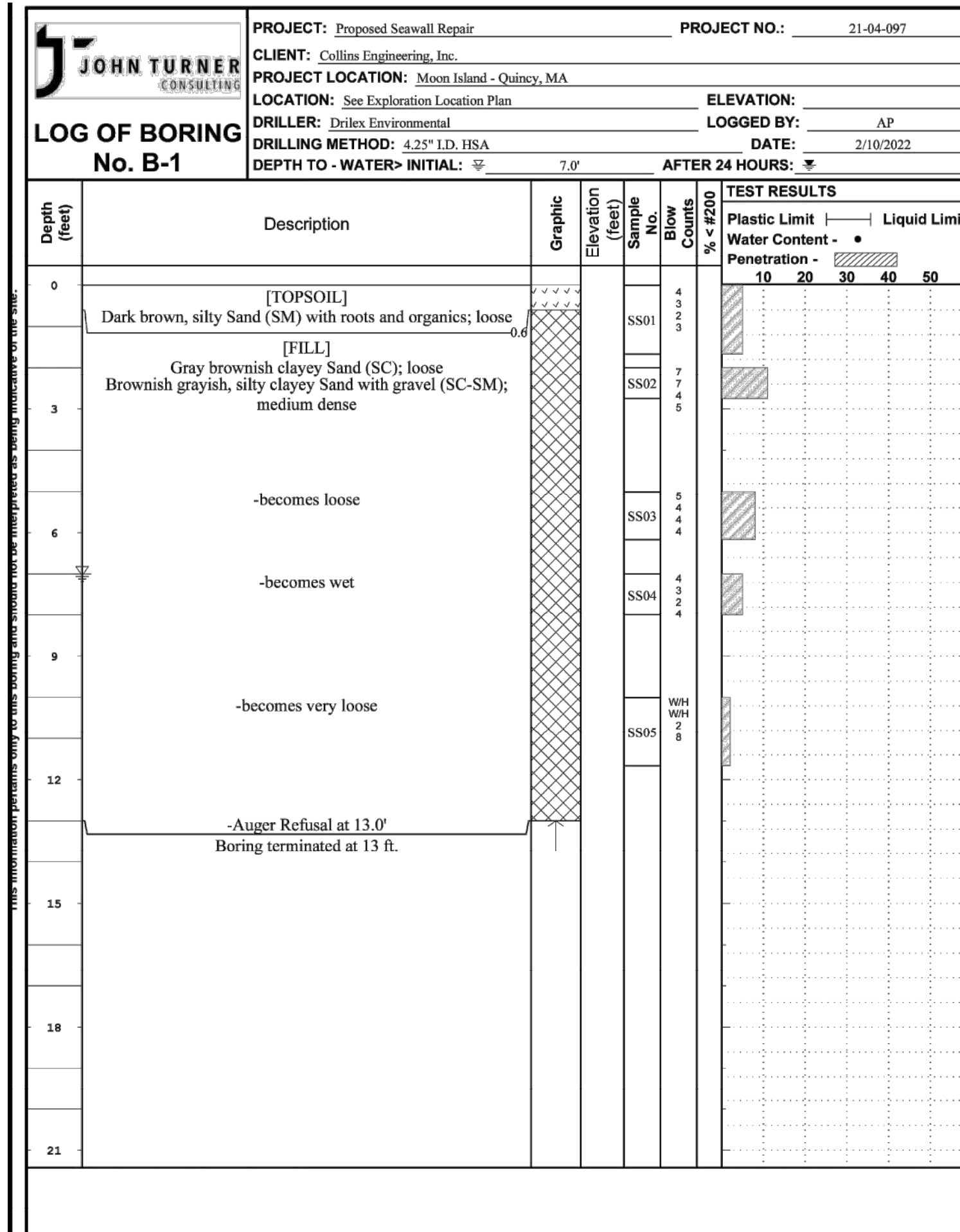


Figure 1 PAGE 1 of 1

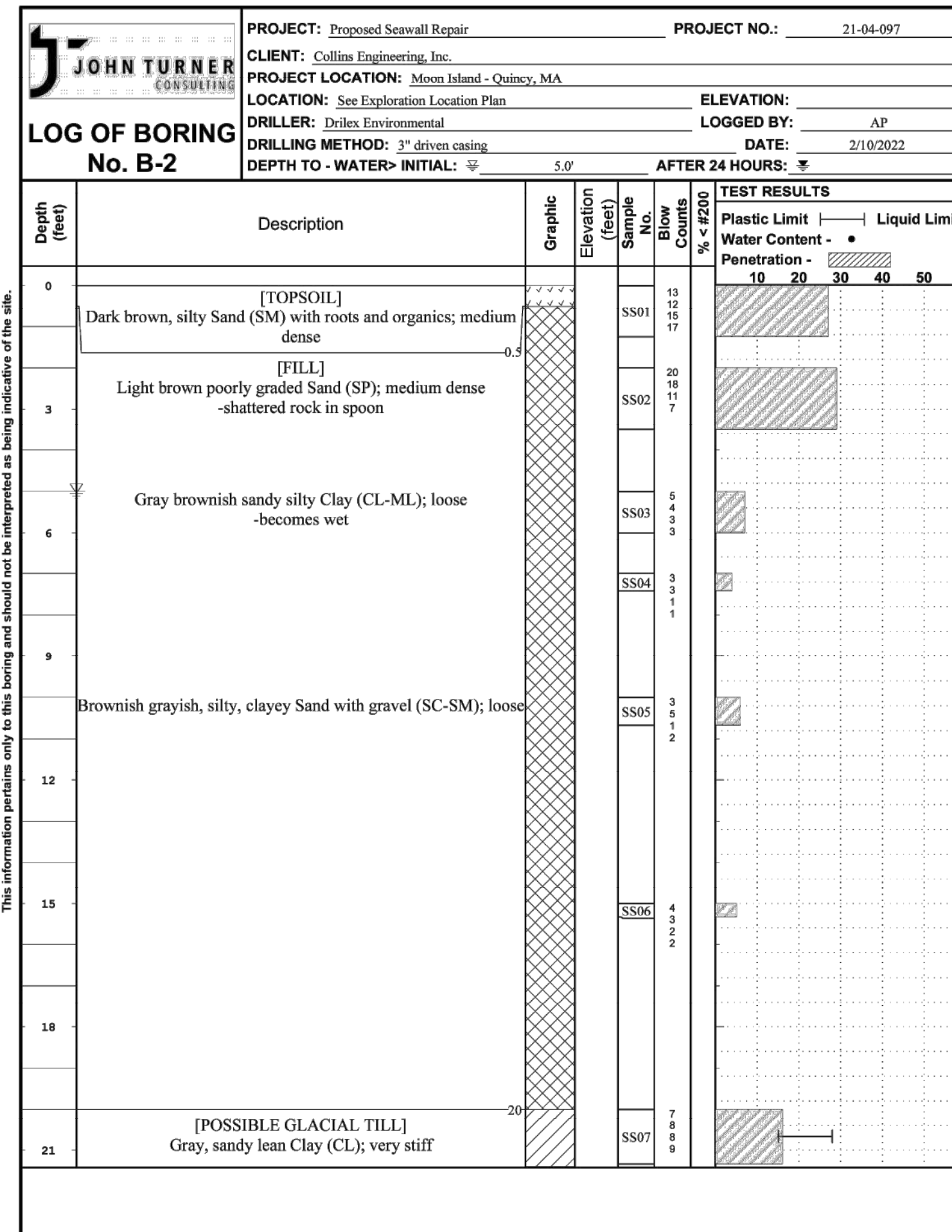


Figure 2 PAGE 1 of 2

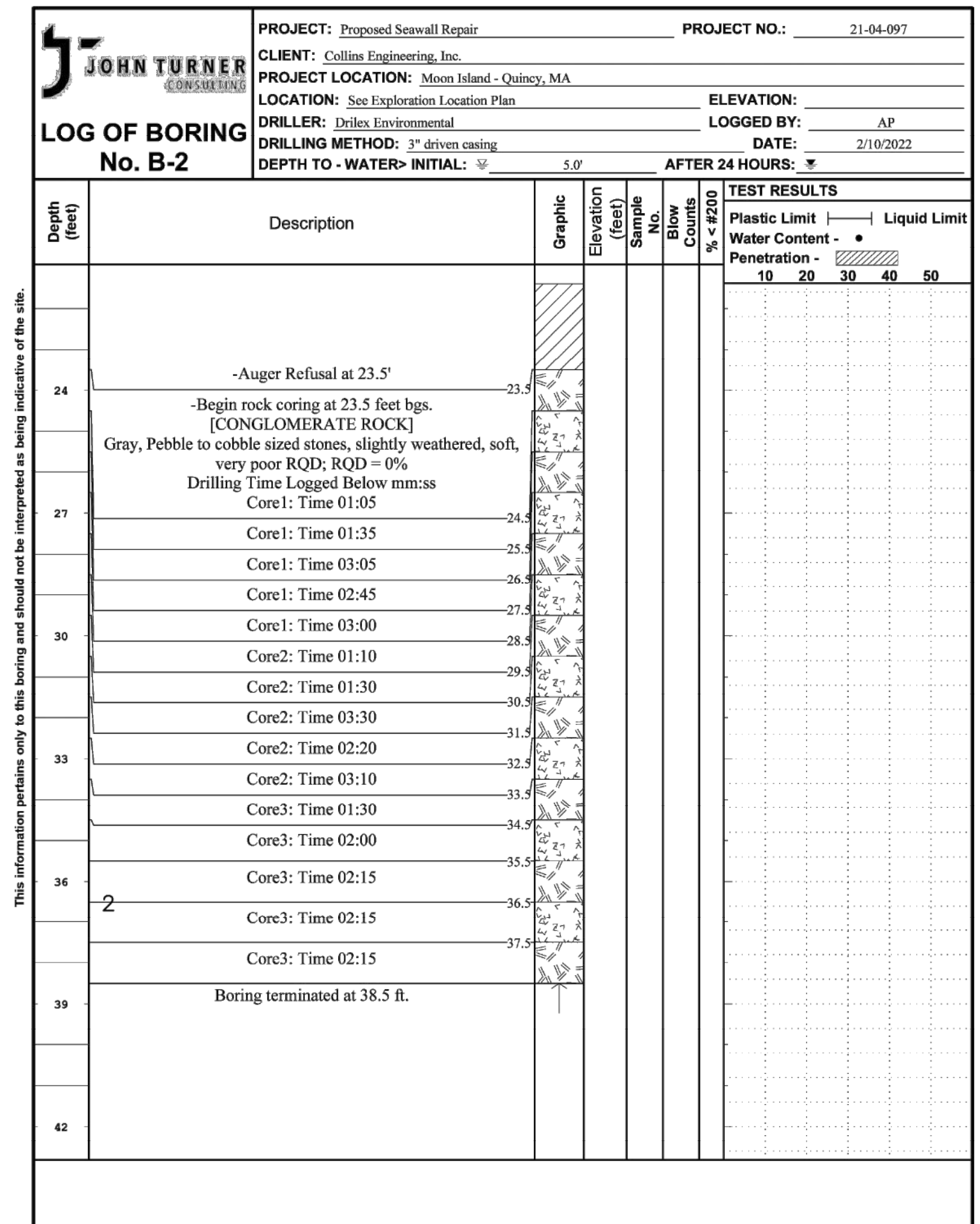


Figure PAGE 2 of 2

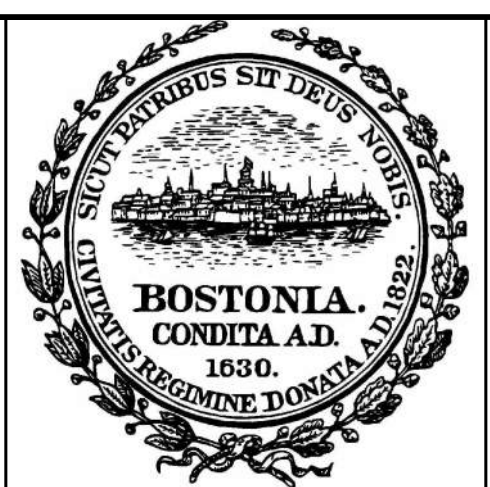
FITZGERALD, JAMISON, B:\Working\BOSTON PFD\202319 Moon Island Seawall - Final Design & Construction\03_CAD\Design\Sheets\BORING LOGS - 1.dwg - 5/15/2026

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SHEET NAME
BORING LOGS - SHEET 1 OF 3

SHEET NO.
B-01

FITZGERALD, JAMISON, B/W/working/BOSTON/PFD/2502319/Moon Island Seawall - Final Design & Construction/003_CAD/Design/Sheets/B-02 BORING LOGS - 2.dwg - 5/13/2026

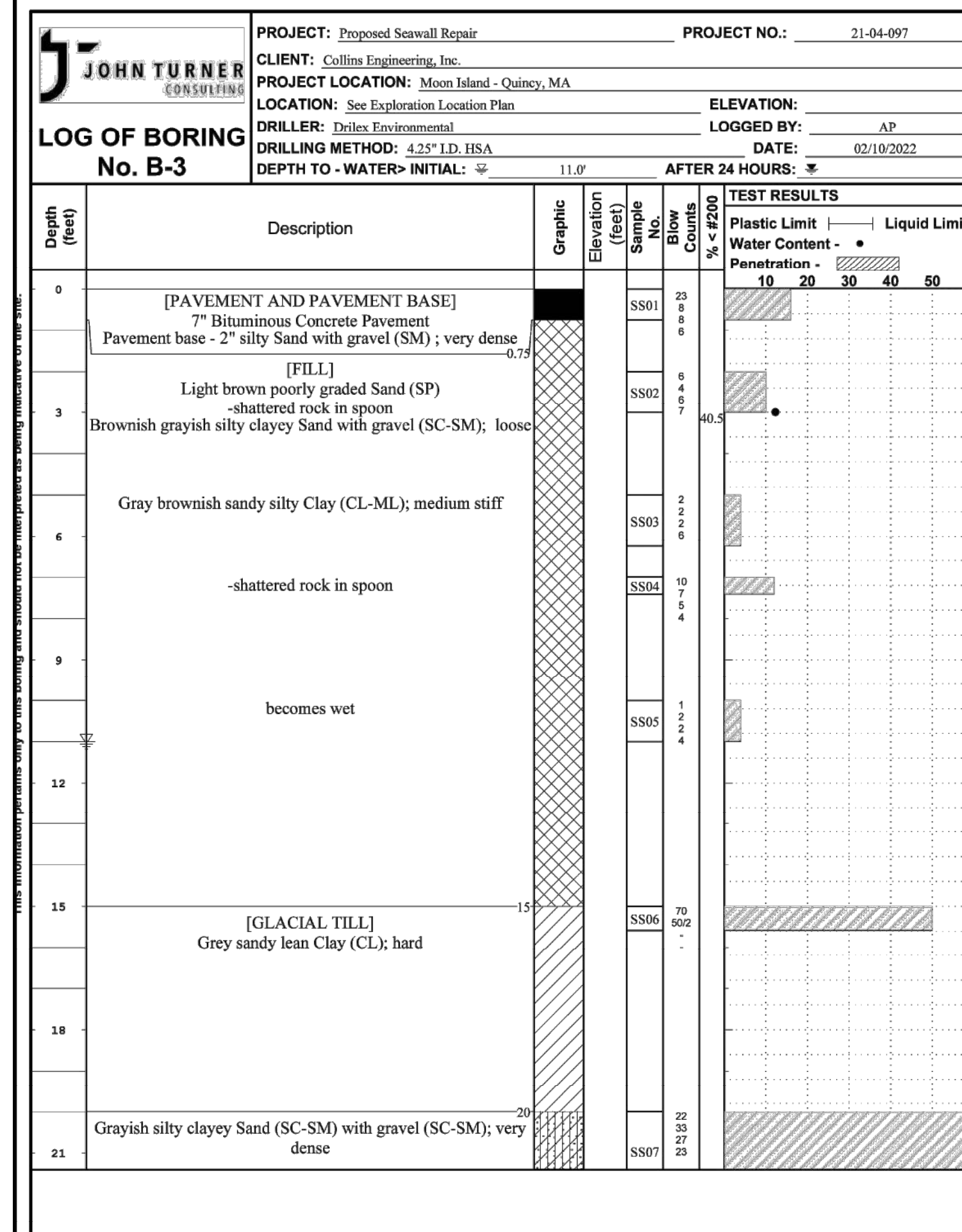


Figure 3 PAGE 1 of 2

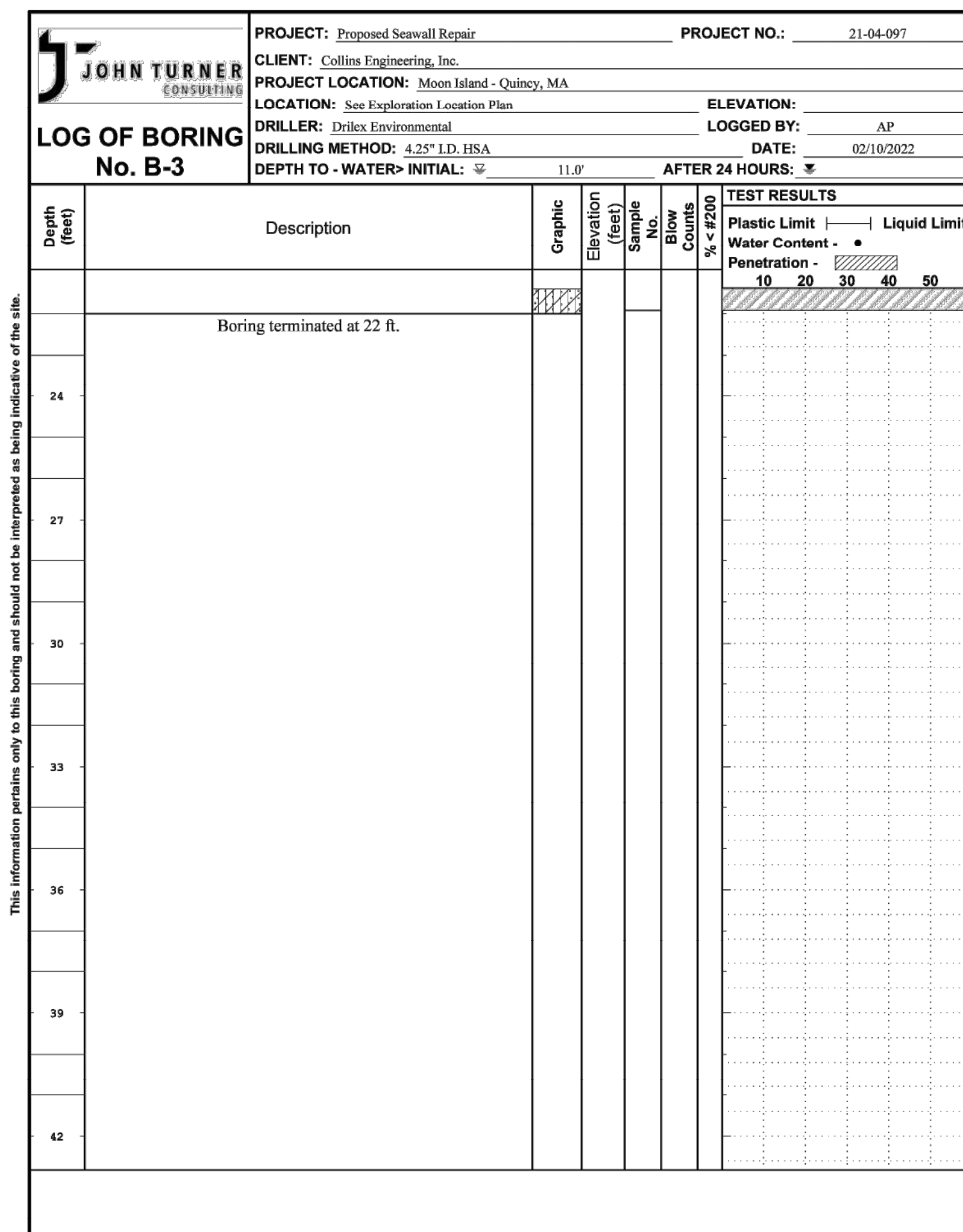

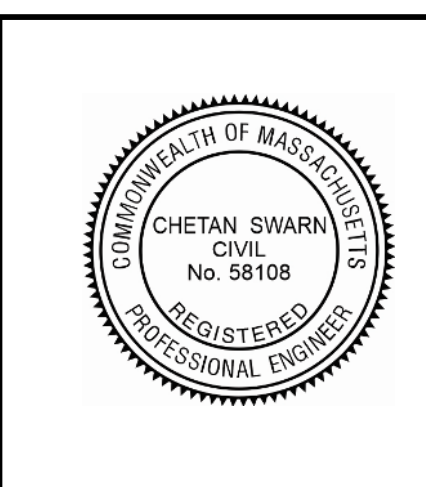


Figure 3 PAGE 2 of 2

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 P.E. No: 58108
 GEI Project 2502319



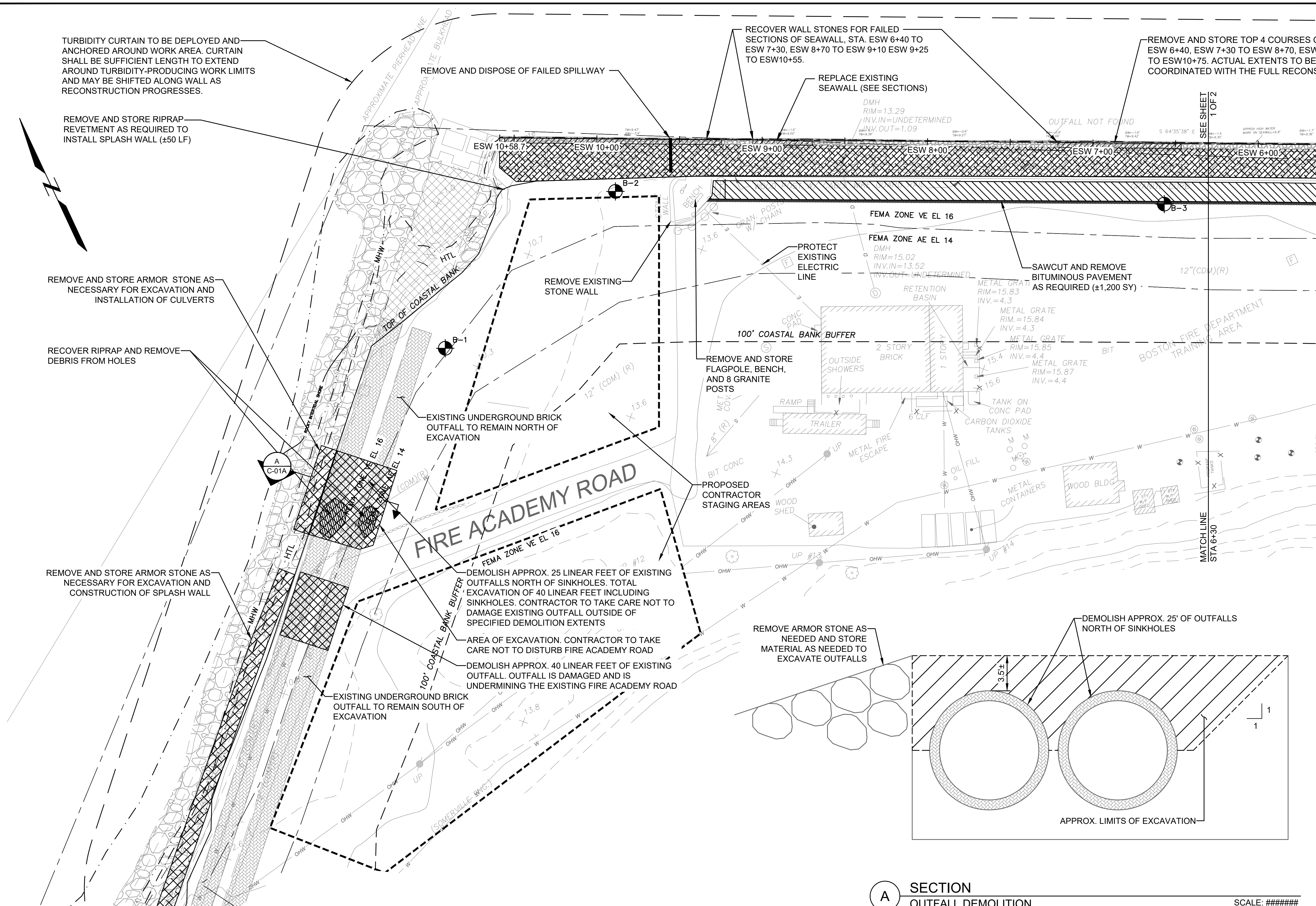
**MOON ISLAND SEAWALL
 BOSTON PFD
 PROJECT: #7222**
 BOSTON, MA

NO	DATE	ISSUE/REVISION	APP
0	5/15/2026	ISSUED FOR BID	CS

SHEET NAME
**BORING LOGS
 - SHEET 2 OF 3**

SHEET NO.
 B-02

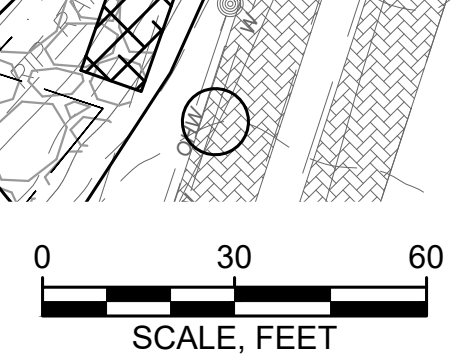
FITZGERALD, JAMISON, BOWEN/BOSTON PFD2502319 Moon Island Seawall - Final Design & Construction 003_CAD/Design/Sheet/C-01 DEMOLITION AND SITE PREPARATION PLAN.dwg - 5/13/2026



HATCH LEGEND

	TEMPORARILY REMOVE ARMOR STONE
	SAWCUT BITUMINOUS PAVEMENT
	DEMOLISHED SECTIONS OF OUTFALLS
	FAILED PORTIONS OF SEAWALL. RECOVER FALLEN STONES, REMOVE WALL STONE IN PLACE, AND STORE
	EXISTING ARMOR STONE
	REMOVE AND STORE TOP FOUR COURSES OF SEAWALL
	SINKHOLE
	ERODED OUTFALL AREA

A SECTION OUTFALL DEMOLITION SCALE: #####



Attention:

If this scale bar does not measure 1" then drawing is not original scale.

Designed:	IJP
Drawn:	JSF
Checked:	ADP
Approved:	CS
P.E. No.:	58108
GEI Project:	2502319



**MOON ISLAND SEAWALL
BOSTON PFD
PROJECT: #7222**

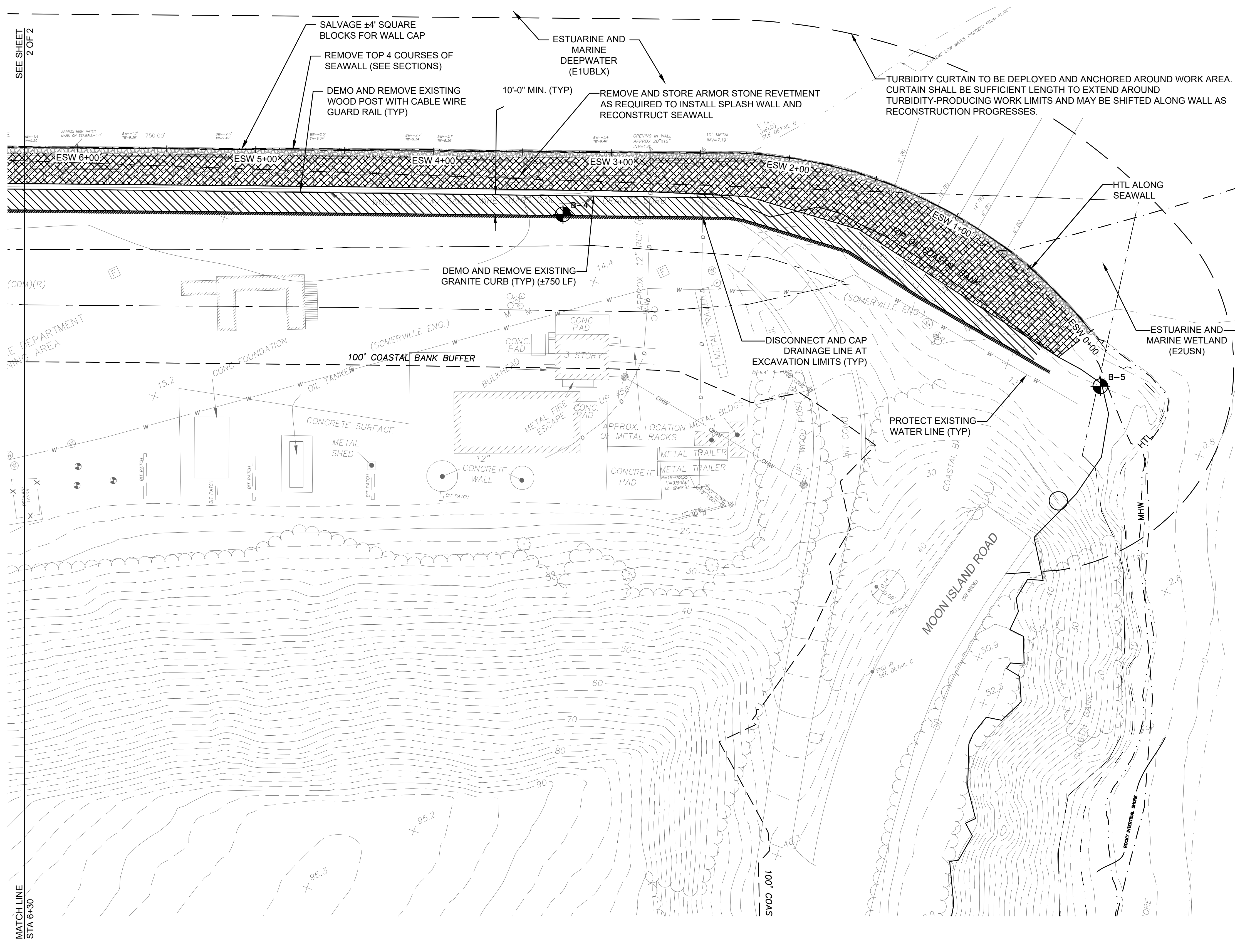
BOSTON, MA

NO	DATE	ISSUE/REVISION	APP
0	5/15/2026	ISSUED FOR BID	CS

SHEET NAME
DEMOLITION AND SITE PREPARATION PLAN - PART A

SHEET NO.
C-01A

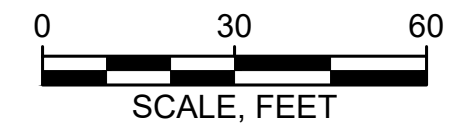
FITZGERALD, JAMISON, B. Working BOSTON PFD 2502319 Moon Island Seawall - Final Design & Construction 003_CAD Design Sheet C-01 DEMOLITION AND SITE PREPARATION PLAN - 5/13/2026



- NOTES:**
1. USE OF SITE COORDINATION MUST SPECIFICALLY INCLUDE BOSTON FIRE DEPARTMENT. NO SITE COORDINATION DECISIONS SHALL BE PERFORMED WITHOUT THE FULL INVOLVEMENT AND PRIOR NOTICE OF THE PFD AND THE ASSISTANT DIRECTOR.
 2. THE CONTRACTOR SHALL EXERCISE CARE DURING DEMOLITION TO AVOID DESTABILIZING OR DAMAGING THE EXISTING MASONRY SEAWALL AND ADJACENT STRUCTURES.
 3. ENVIRONMENTAL CONTROLS SHALL CONFORM TO ALL STATE, LOCAL, AND FEDERAL REGULATIONS AND PERMITS INCLUDING THE FINAL ORDER OF CONDITIONS ISSUED BY THE QUINCY CONSERVATION COMMISSION.
 4. STATIONING ON THIS SHEET REFERENCES THE ALIGNMENT OF THE EXISTING SEAWALL (ESW)

HATCH LEGEND

	TEMPORARILY REMOVE ARMOR STONE
	SAWCUT BITUMINOUS PAVEMENT
	DEMOLISHED SECTIONS OF OUTFALLS
	FAILED PORTIONS OF SEAWALL. RECOVER FALLEN STONES, REMOVE WALL STONE IN PLACE, AND STORE
	EXISTING ARMOR STONE
	REMOVE AND STORE TOP FOUR COURSES OF SEAWALL
	SINKHOLE RIPRAP
	ERODED OUTFALL AREA

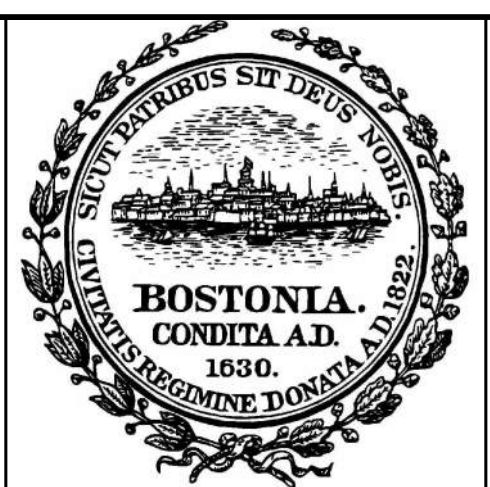


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Designed:	IJP
Drawn:	JSF
Checked:	ADP
Approved:	CS
P.E. No.:	58108
GEI Project:	2502319



**MOON ISLAND SEAWALL
 BOSTON PFD
 PROJECT: #7222**

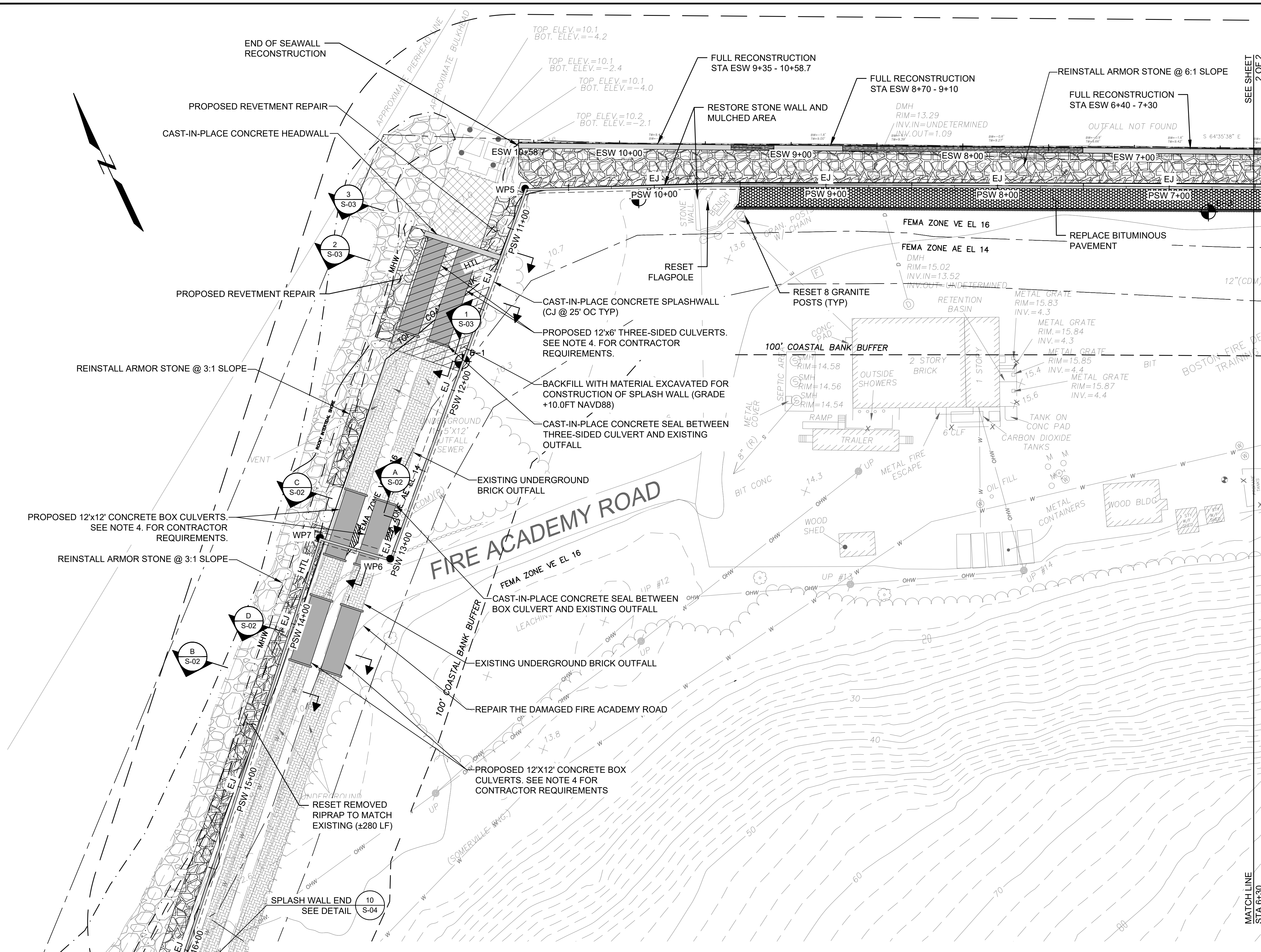
BOSTON, MA

NO	DATE	ISSUE/REVISION	APP
0	5/15/2026	ISSUED FOR BID	CS

SHEET NAME
DEMOLITION AND SITE PREPARATION PLAN - PART B

SHEET NO.
C-01B

FITZGERALD, JAMISON, B. Working BOSTON PFD 202319 Moon Island Seawall - Final Design & Construction 03_CAD Design Sheet C-02 PROPOSED SITE PLAN.dwg - 5/13/2026



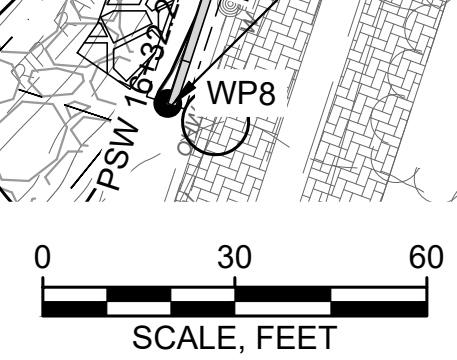
STRUCTURAL WORKING POINTS			
POINT ID	NORTHING	EASTING	DESCRIPTION
WP1	2937061.02	794803.43	SOUTHEASTERN WALL END
WP2	2937087.11	794840.75	NORTHEASTERN WALL CORNER
WP3	2937198.08	794765.16	WALL BEND CORNER
WP4	2937240.28	794717.47	WALL BEND CORNER
WP5	2937595.87	793965.83	NORTHWESTERN WALL CORNER
WP6	2937433.73	793803.42	CORNER EAST OF CONC. CULVERT
WP7	2937462.10	793771.36	CORNER WEST OF CONC. CULVERT
WP8	2937254.29	793576.81	SOUTHWESTERN WALL END

BOTTOM OF WALL ELEVATIONS		
BEGINNING STATION	ENDING STATION	BOTTOM ELEVATION (FT NAVD88)
0+00	10+85	8.0
10+85	12+95	6.0
12+95	13+58	7.0
13+58	16+32	6.0

- NOTES:
- USE OF SITE COORDINATION MUST SPECIFICALLY INCLUDE BOSTON FIRE DEPARTMENT. NO SITE COORDINATION DECISIONS SHALL BE PERFORMED WITHOUT THE FULL INVOLVEMENT AND PRIOR NOTICE OF THE PFD AND THE ASSISTANT DIRECTOR.
 - ENVIRONMENTAL CONTROLS SHALL CONFORM TO ALL STATE, LOCAL, AND FEDERAL REGULATIONS AND PERMITS INCLUDING THE FINAL ORDER OF CONDITIONS ISSUED BY THE QUINCY CONSERVATION COMMISSION.
 - TWO STATIONING SYSTEMS ARE PROVIDED ON THIS SHEET. THE FIRST REFERENCES THE ALIGNMENT OF EXISTING SEAWALL (ESW) AND THE SECOND REFERENCES THE ALIGNMENT OF PROPOSED SPLASHWALL (PSW).
 - BOX CULVERTS AND THREE-SIDED CULVERTS SHALL BE RATED FOR HS20 LOADING AS DEFINED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS. CONTRACTORS SHALL PROVIDE MANUFACTURER'S SUBMITTALS REGARDING CULVERT SPECIFICATIONS AND INSTALLATION.

HATCH LEGEND

	NEW ARMOR STONE
	REINSTALL ARMOR STONE
	PARTIAL SEAWALL RECONSTRUCTION
	NEW BITUMINOUS PAVEMENT
	FULL SEAWALL RECONSTRUCTION



Attention:

 If this scale bar does not measure 1" then drawing is not original scale.

Designed:	IJP
Drawn:	JSF
Checked:	ADP
Approved:	CS
P.E. No.:	58108
GEI Project:	2502319

GEI Consultants
 GEI CONSULTANTS, INC.
 124 GROVE STREET
 FRANKLIN, MA 02038
 (774)277-6001

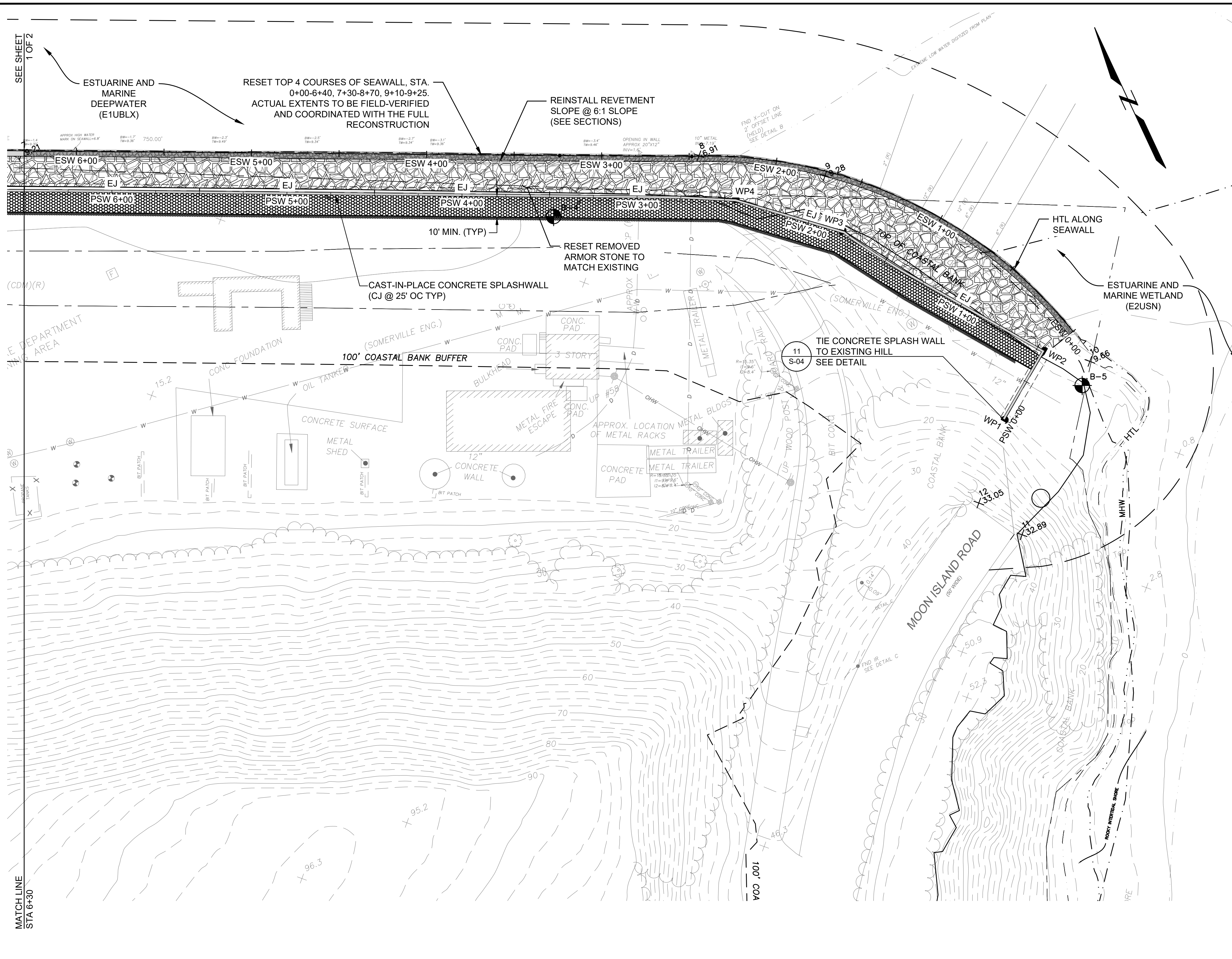
BOSTONIA.
 CONDITA A.D.
 1630.

**MOON ISLAND SEAWALL
 BOSTON PFD
 PROJECT: #7222**

BOSTON, MA

NO	DATE	ISSUE/REVISION	APP
0	5/15/2026	ISSUED FOR BID	CS
			APP

SHEET NAME	SHEET NO.
PROPOSED SITE PLAN - PART A	C-02A



STRUCTURAL WORKING POINTS			
POINT ID	NORTHING	EASTING	DESCRIPTION
WP1	2937061.02	794803.43	SOUTHEASTERN WALL END
WP2	2937087.11	794840.75	NORTHEASTERN WALL CORNER
WP3	2937198.08	794765.16	WALL BEND CORNER
WP4	2937240.28	794717.47	WALL BEND CORNER
WP5	2937595.87	793965.83	NORTHWESTERN WALL CORNER
WP6	2937433.73	793803.42	CORNER EAST OF CONC. CULVERT
WP7	2937462.10	793771.36	CORNER WEST OF CONC. CULVERT
WP8	2937254.29	793576.81	SOUTHWESTERN WALL END

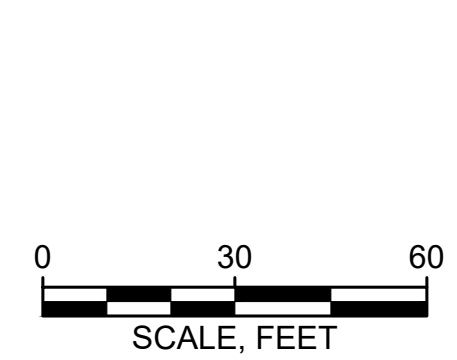
BOTTOM OF WALL ELEVATIONS		
BEGINNING STATION	ENDING STATION	BOTTOM ELEVATION (FT NAVD88)
0+00	10+85	8.0
10+85	12+95	6.0
12+95	13+58	7.0
13+58	16+32	6.0

- NOTES:
- USE OF SITE COORDINATION MUST SPECIFICALLY INCLUDE BOSTON FIRE DEPARTMENT. NO SITE COORDINATION DECISIONS SHALL BE PERFORMED WITHOUT THE FULL INVOLVEMENT AND PRIOR NOTICE OF THE PFD AND THE ASSISTANT DIRECTOR.
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 - TWO STATIONING SYSTEMS ARE PROVIDED ON THIS SHEET. THE FIRST REFERENCES THE ALIGNMENT OF EXISTING SEAWALL (ESW) AND THE SECOND REFERENCES THE ALIGNMENT OF PROPOSED SPLASHWALL (PSW).

HATCH LEGEND

	NEW ARMOR STONE
	REINSTALL ARMOR STONE
	PARTIAL SEAWALL RECONSTRUCTION
	NEW BITUMINOUS PAVEMENT
	FULL SEAWALL RECONSTRUCTION

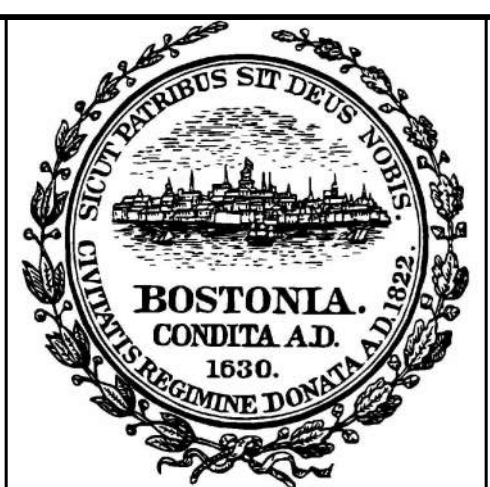
FITZGERALD, JAMISON, B. Working BOSTON PFD 250219 Moon Island Seawall - Final Design & Construction C-02 PROPOSED SITE PLAN.dwg - 5/13/2026



Attention:

 If this scale bar does not measure 1" then drawing is not original scale.

Designed:	IJP
Drawn:	JSF
Checked:	ADP
Approved:	CS
P.E. No.:	58108
GEI Project:	2502319



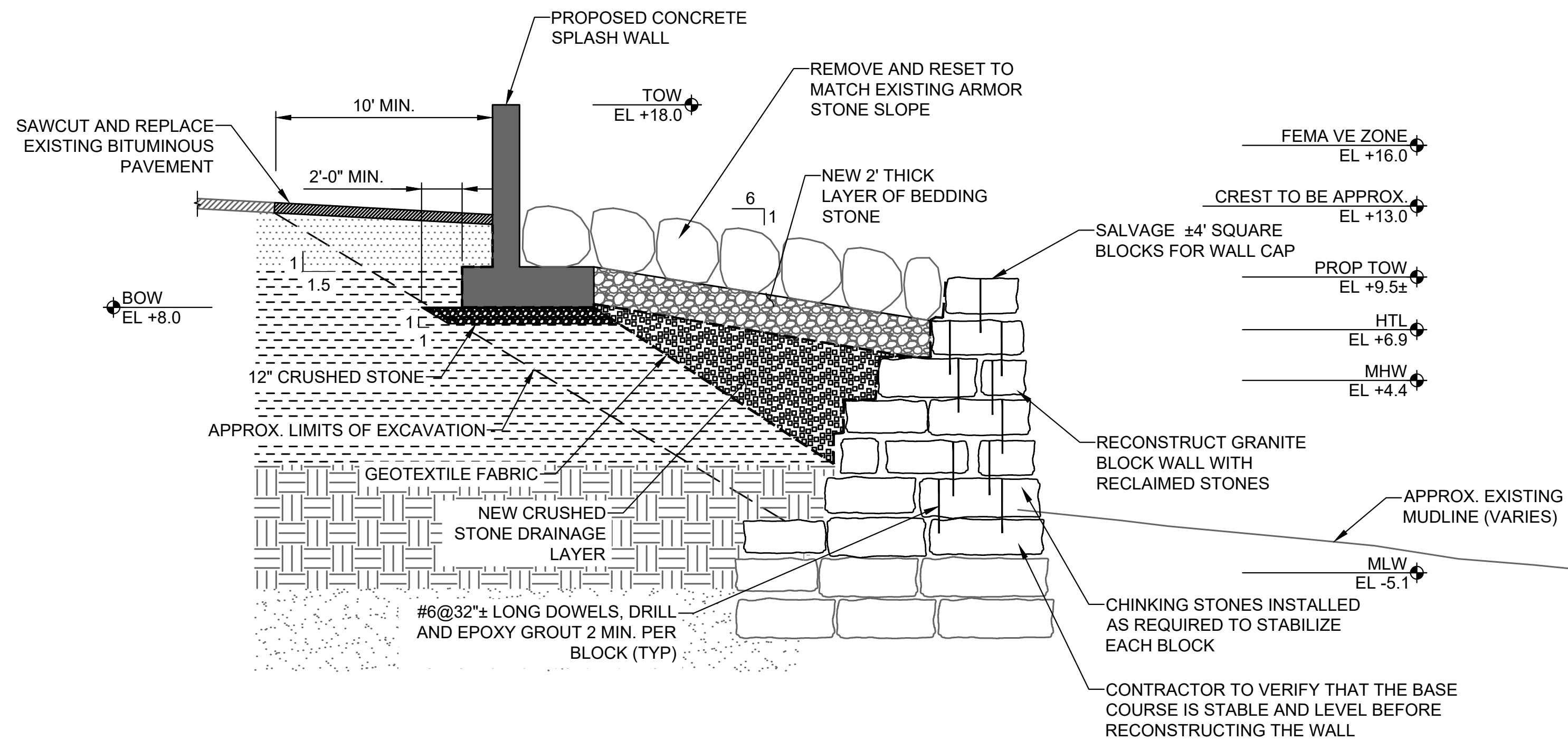
**MOON ISLAND SEAWALL
 BOSTON PFD
 PROJECT: #7222**

BOSTON, MA

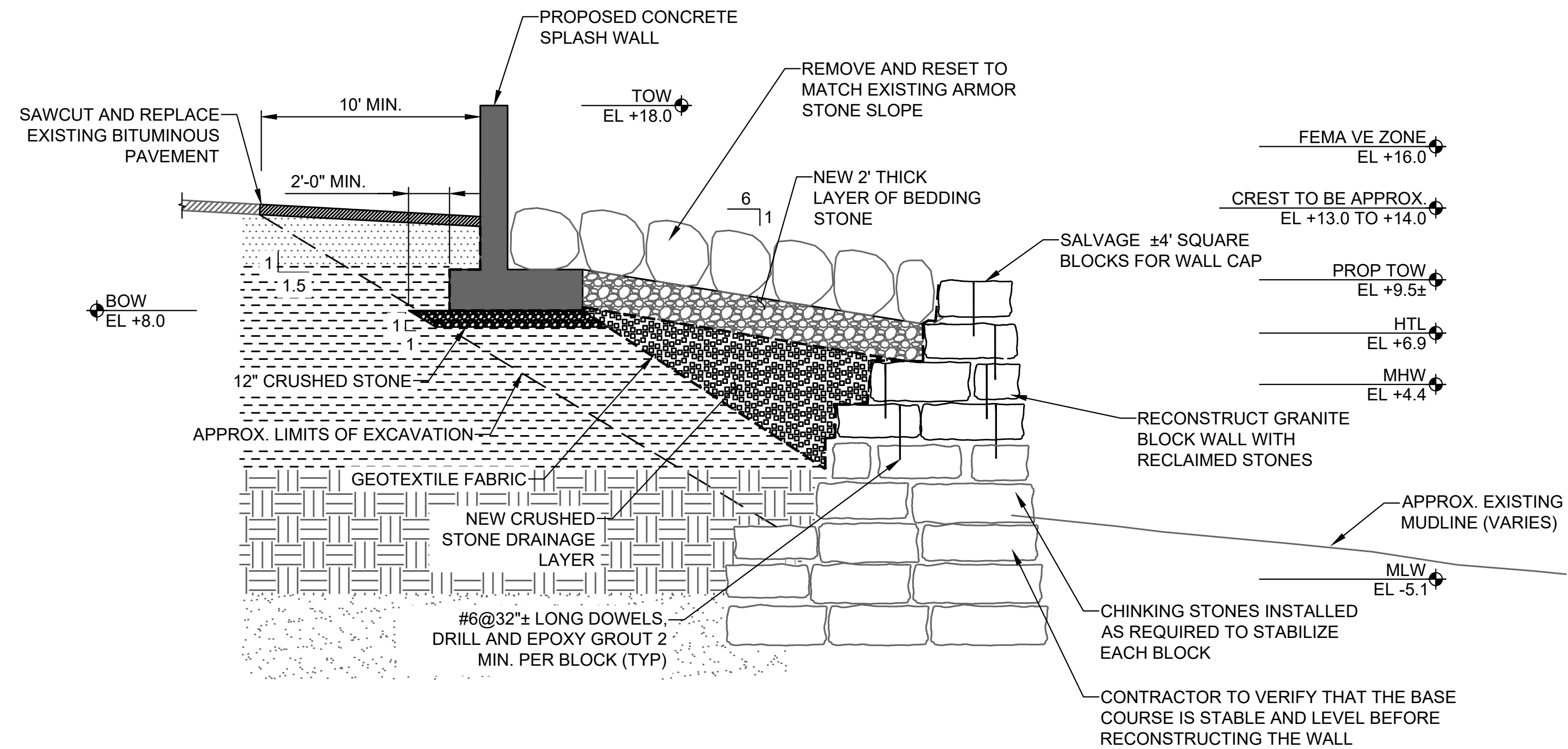
NO	DATE	ISSUE/REVISION	APP
0	5/15/2026	ISSUED FOR BID	CS

SHEET NAME
PROPOSED SITE PLAN - PART B

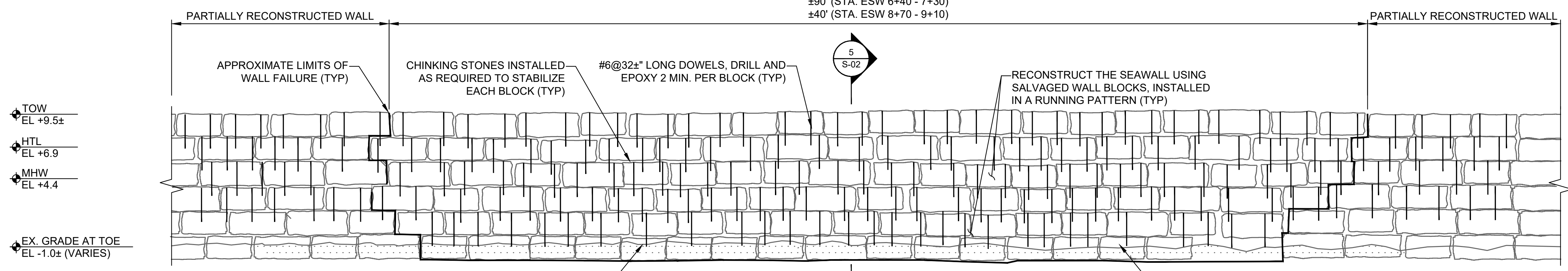
SHEET NO.
C-02B



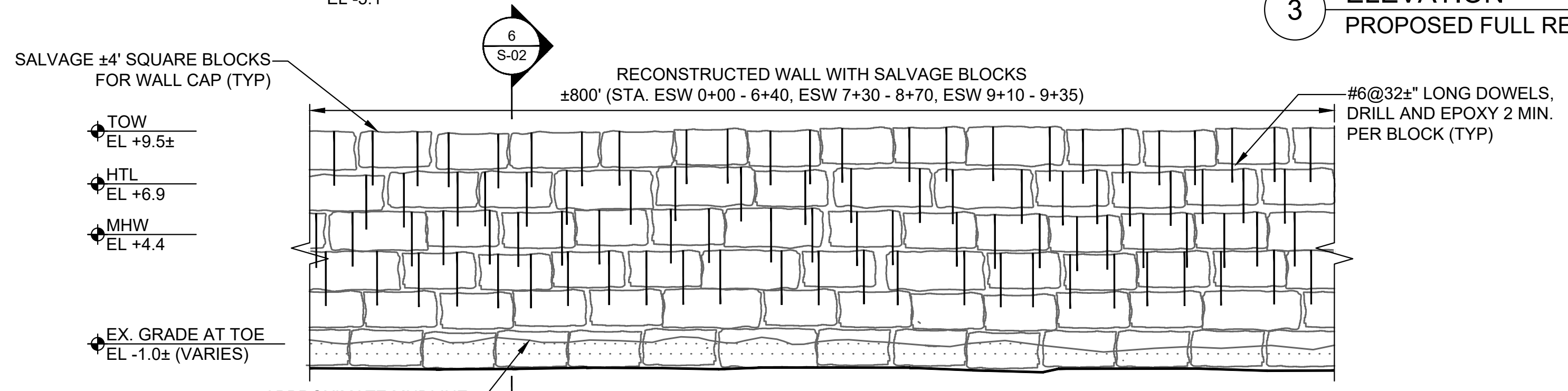
1 TYPICAL SECTION
PROPOSED FULL RECONSTRUCTION SCALE: 1" = 5'



2 TYPICAL SECTION
PROPOSED PARTIAL RECONSTRUCTION SCALE: 1" = 5'



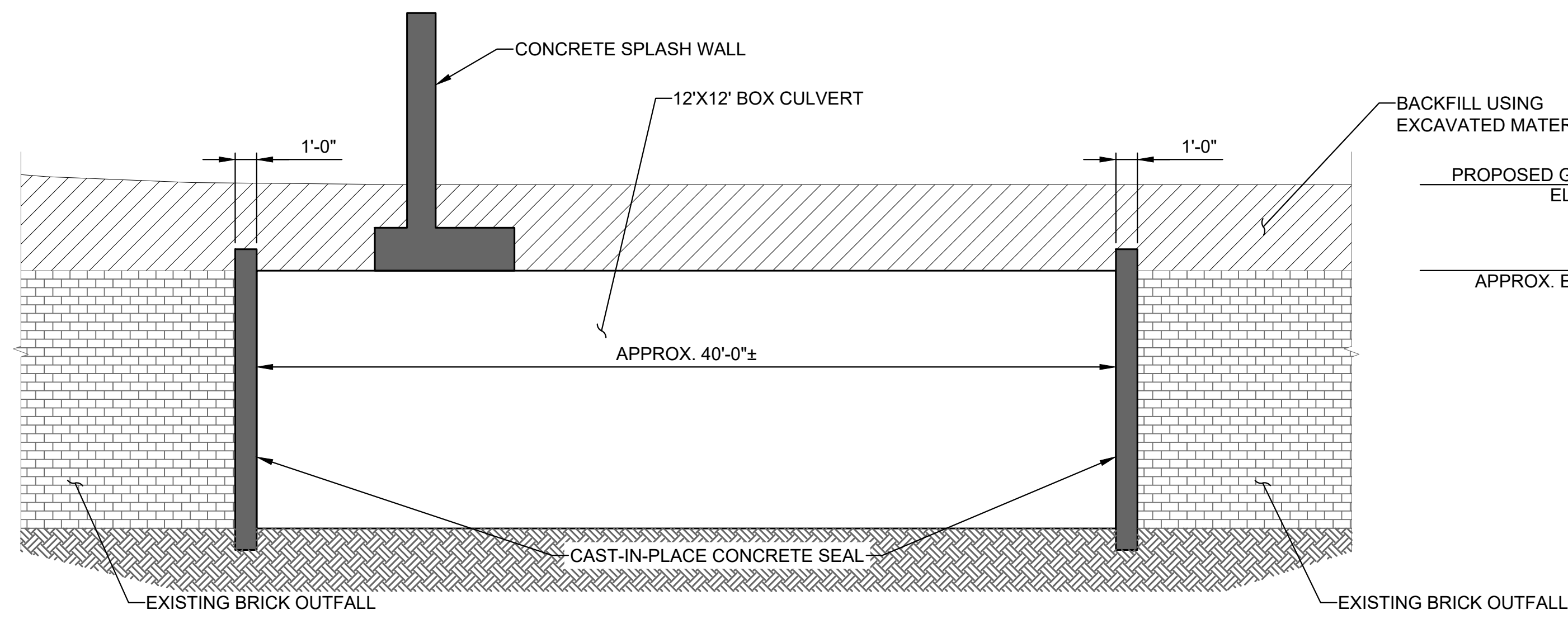
3 ELEVATION
PROPOSED FULL RECONSTRUCTION SCALE: 1" = 5'



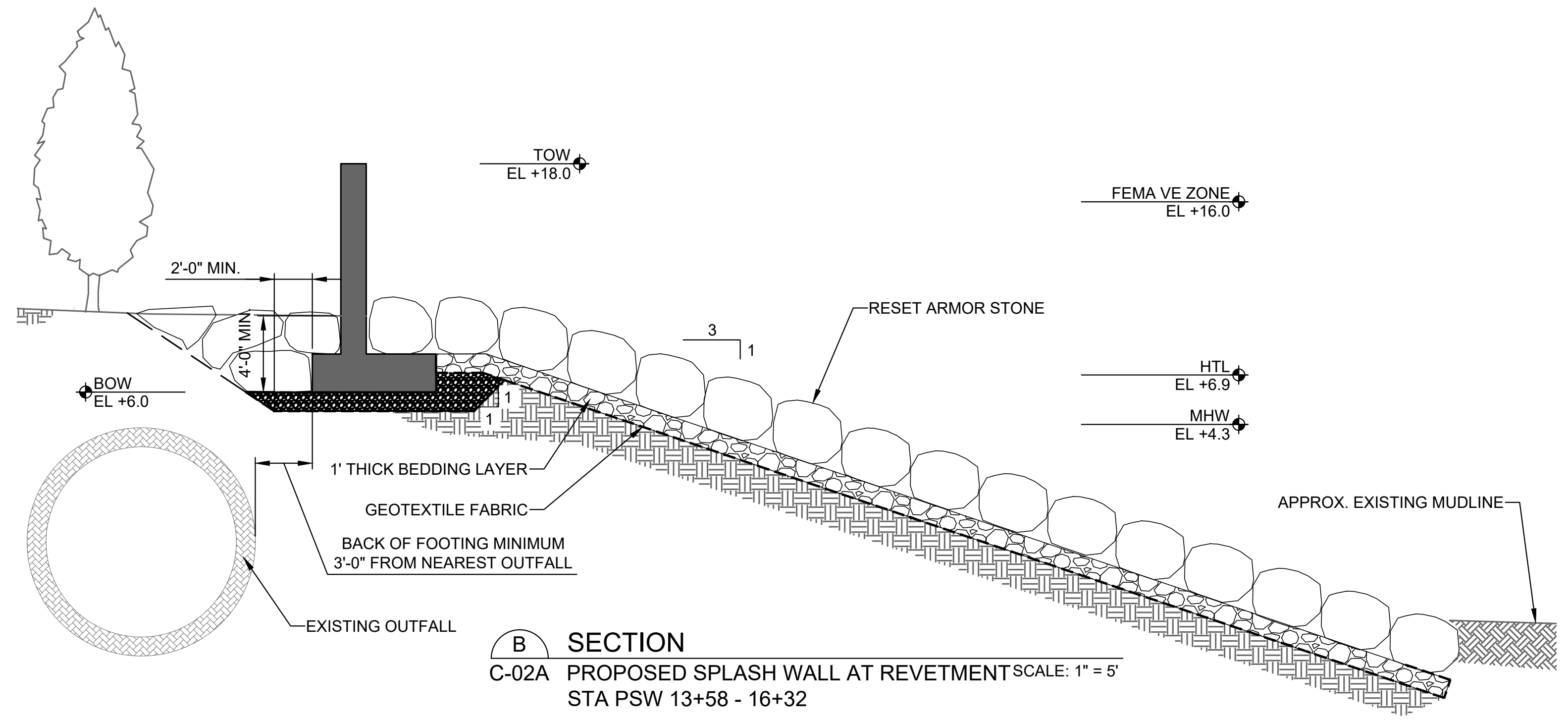
4 ELEVATION
PROPOSED PARTIAL RECONSTRUCTION SCALE: 1" = 5'

FITZGERALD, JAMISON, B/W/working/BOSTON/PFD/2502319/Moon Island Seawall - Final Design & Construction/003_WALL SECTIONS AND ELEVATION.dwg - 5/13/2026

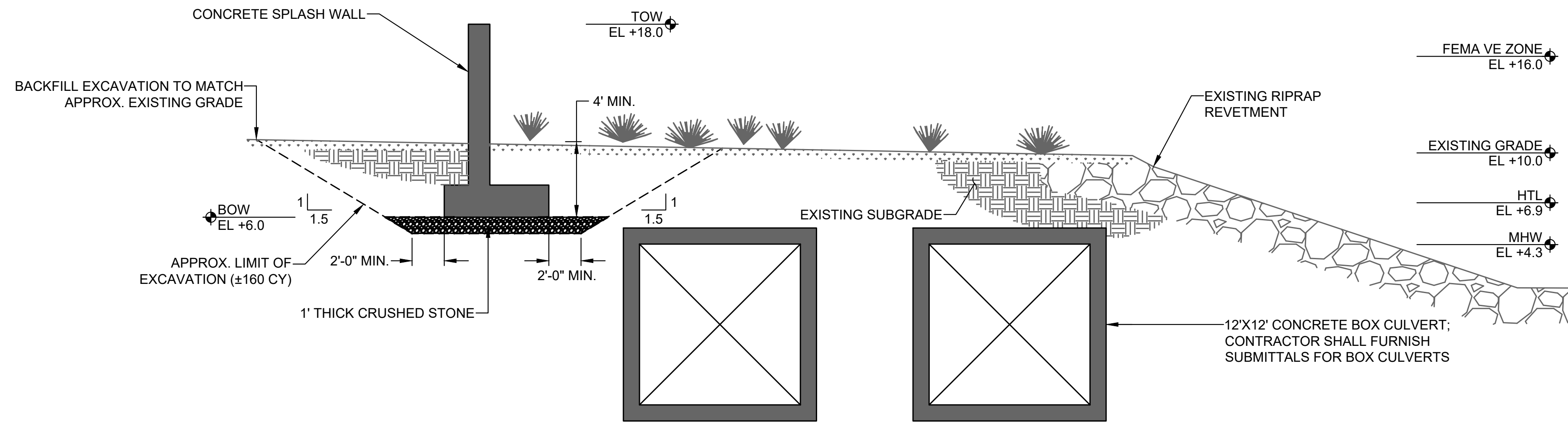
Attention: If this scale bar does not measure 1" then drawing is not original scale.		Designed: IJP Drawn: JSF Checked: ADP Approved: CS P.E. No: 58108 GEI Project: 2502319	 GEI CONSULTANTS, INC. 124 GROVE STREET FRANKLIN, MA 02038 (774)277-6001	 BOSTONIA. CONDITA A.D. 1630.	MOON ISLAND SEAWALL BOSTON PFD PROJECT: #7222 BOSTON, MA	SHEET NAME WALL SECTIONS AND ELEVATION		SHEET NO. S-01	
		0 5/15/2026 ISSUED FOR BID CS NO DATE ISSUE/REVISION APP							



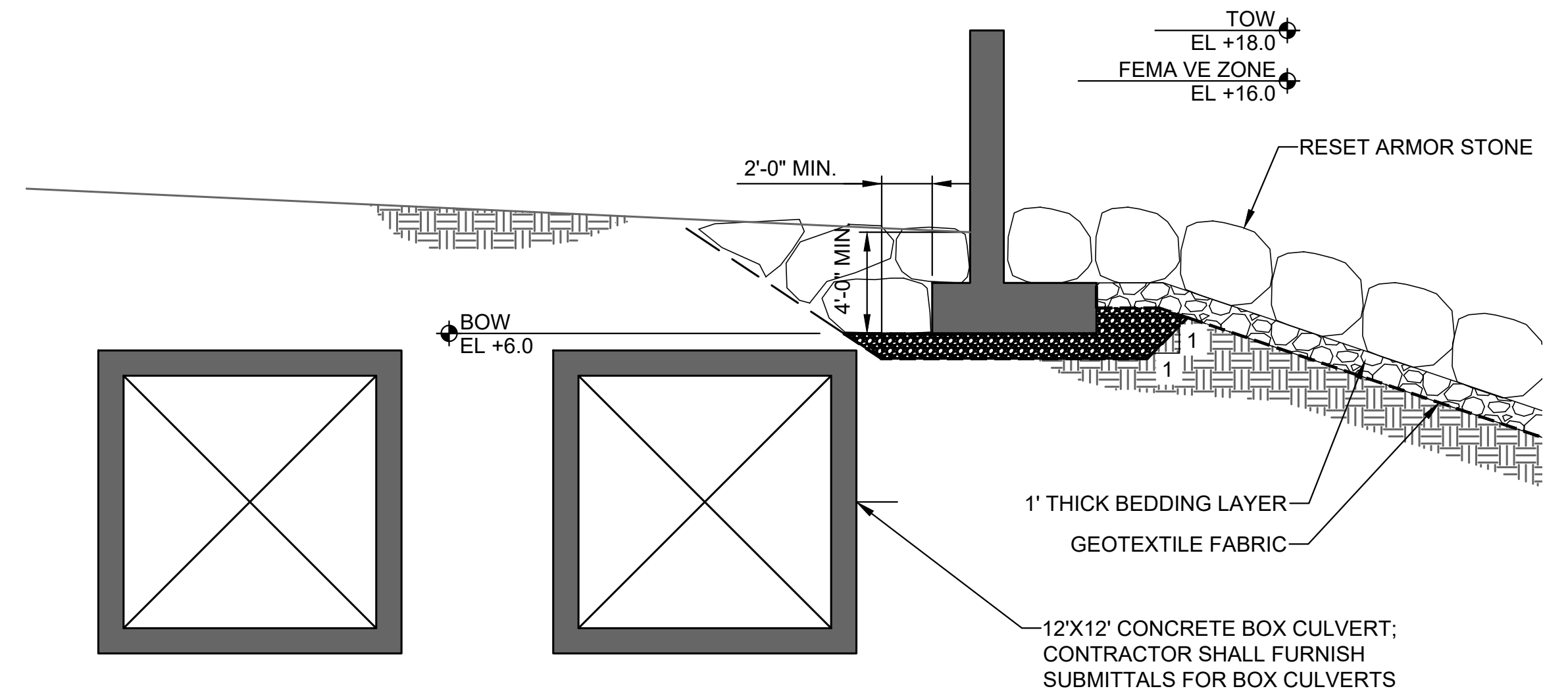
A SECTION
 C-02A EXISTING BRICK OUTFALL TO PROPOSED BOX CULVERT TRANSITION
 STA PSW 13+05 - 13+48
 SCALE: 1" = 5'



B SECTION
 C-02A PROPOSED SPLASH WALL AT REVETMENT
 STA PSW 13+58 - 16+32
 SCALE: 1" = 5'

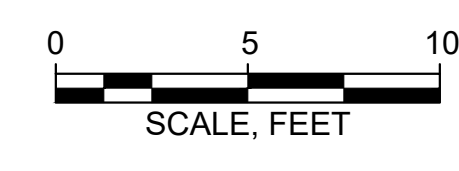


C SECTION
 C-02A SPLASH WALL
 STA PSW 12+95 - 13+05
 SCALE: 1" = 5'

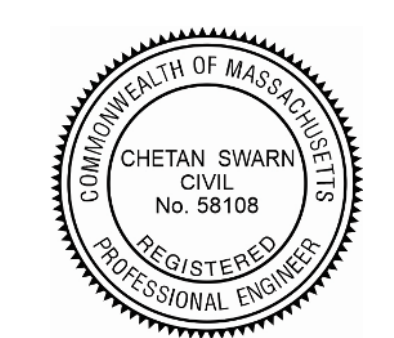


D SECTION
 C-02A PROPOSED SPLASH WALL AT REVETMENT
 STA PSW 13+58 - 16+32
 SCALE: 1" = 5'

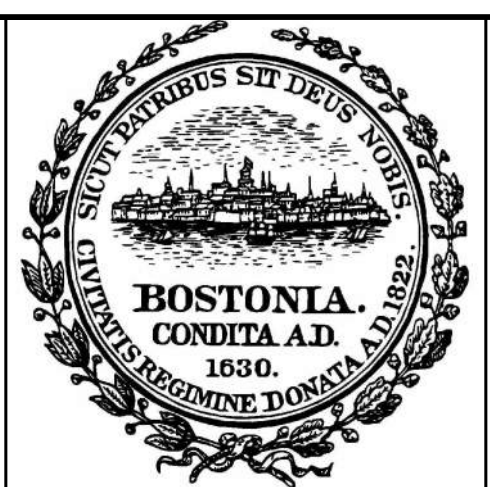
FITZGERALD, JAMISON, B. Working BOSTON PFD 2502319 Moon Island Seawall - Final Design & Construction 003_CAD/Design/Sheet/S-02 PROPOSED REVETMENT SECTIONS.dwg - 5/13/2026



Attention:
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Designed: IJP
 Drawn: JSF
 Checked: ADP
 Approved: CS
 P.E. No: 58108
 GEI Project: 2502319



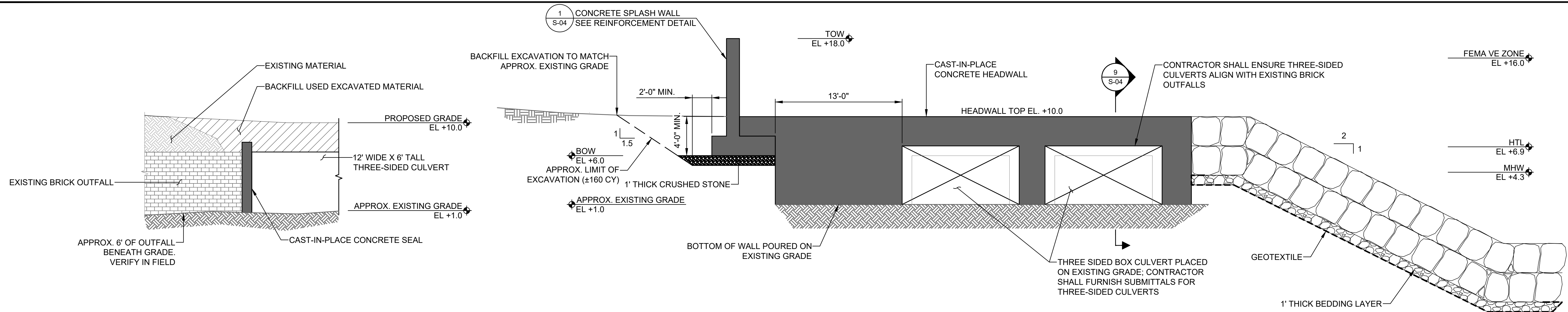
**MOON ISLAND SEAWALL
 BOSTON PFD
 PROJECT: #7222**

BOSTON, MA

NO	DATE	ISSUE/REVISION	APP
0	5/15/2026	ISSUED FOR BID	CS

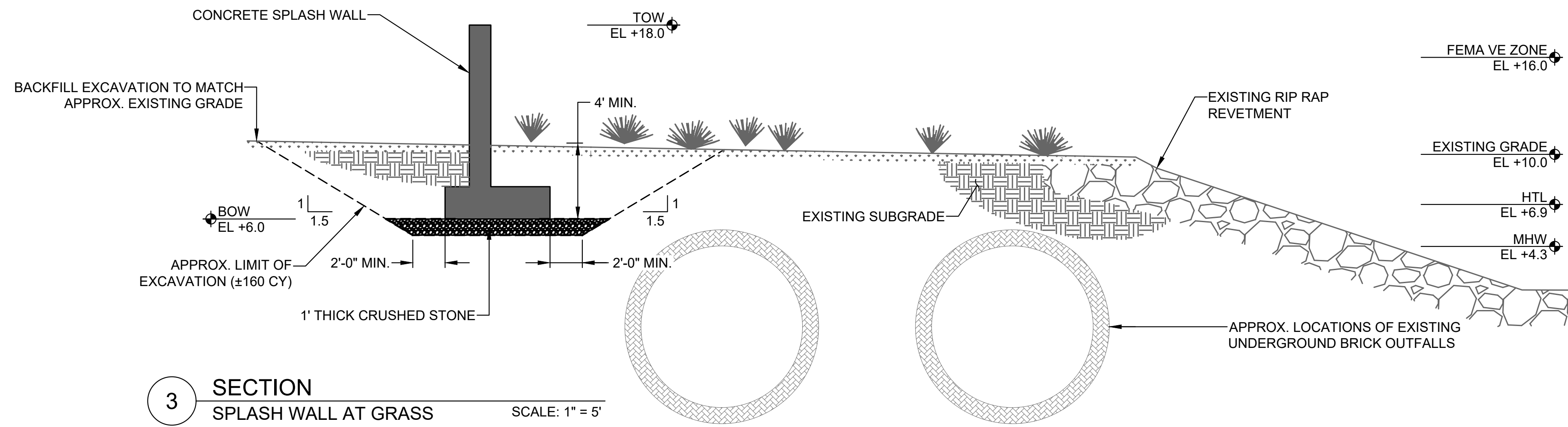
SHEET NAME
PROPOSED SPLASH WALL AND OUTFALL SECTIONS - I

SHEET NO.
 S-02

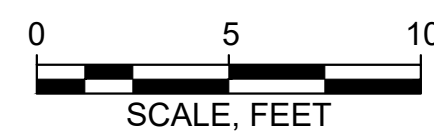


1 SECTION
EXISTING BRICK OUTFALL TO PROPOSED THREE-SIDED CULVERT TRANSITION
 SCALE: 1" = 5'

2 SECTION
SPLASH WALL AT REVETMENT WITH THREE-SIDED CULVERTS
 STA PSW 11+20
 SCALE: 1" = 5'



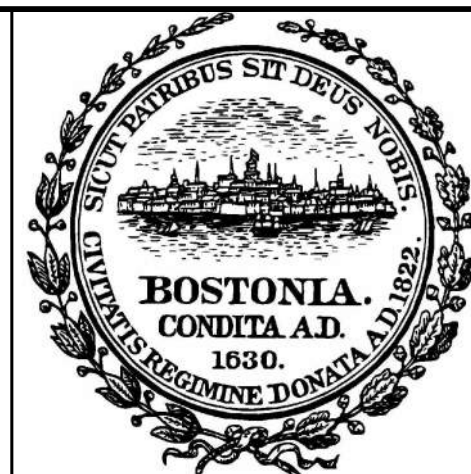
3 SECTION
SPLASH WALL AT GRASS
 STA PSW 11+75 - 12+95
 SCALE: 1" = 5'



Attention:
 0 1"
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Designed: IJP
 Drawn: JSF
 Checked: ADP
 Approved: CS
 P.E. No: 58108
 GEI Project 2502319



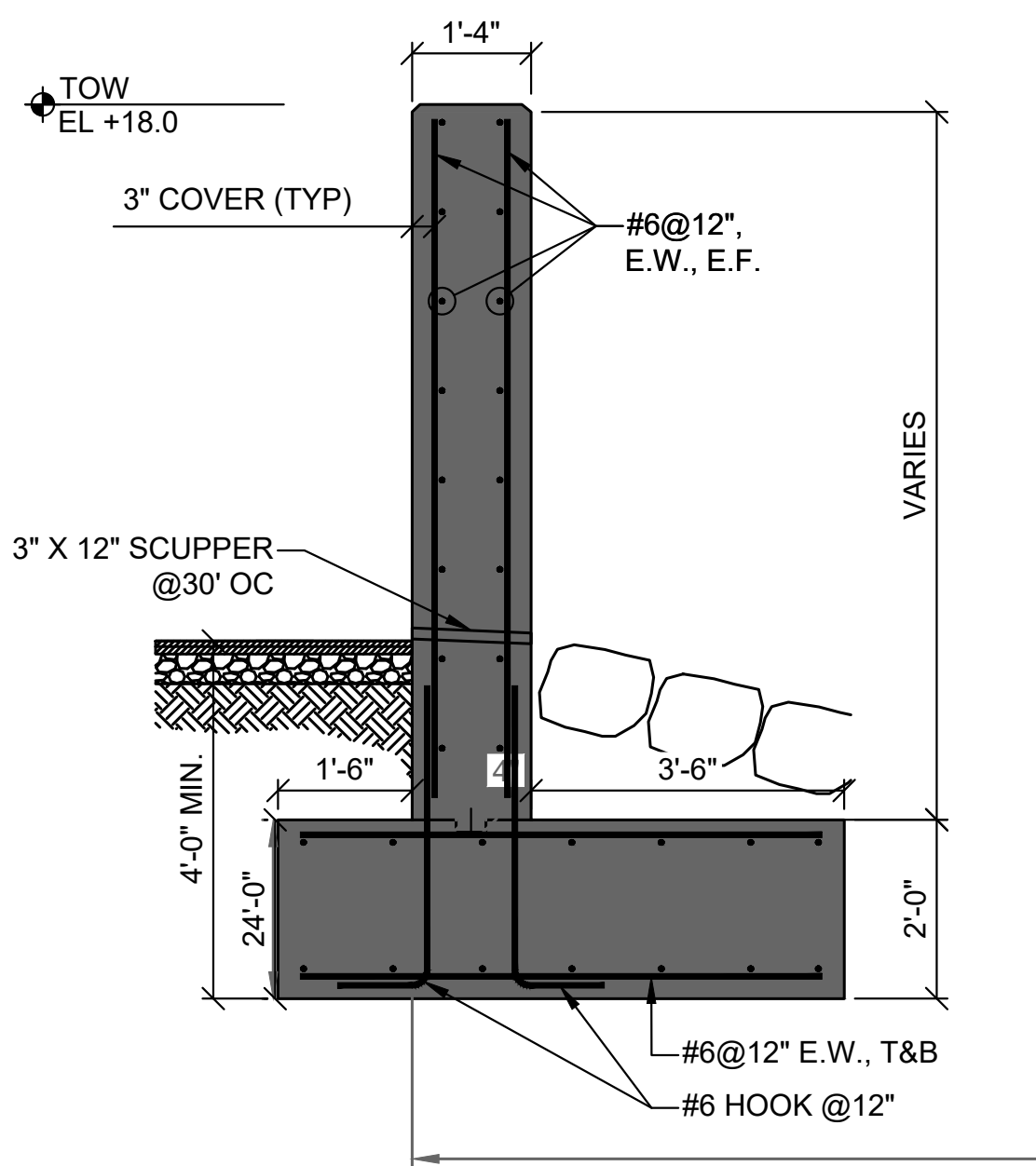
MOON ISLAND SEAWALL
BOSTON PFD
PROJECT: #7222

BOSTON, MA

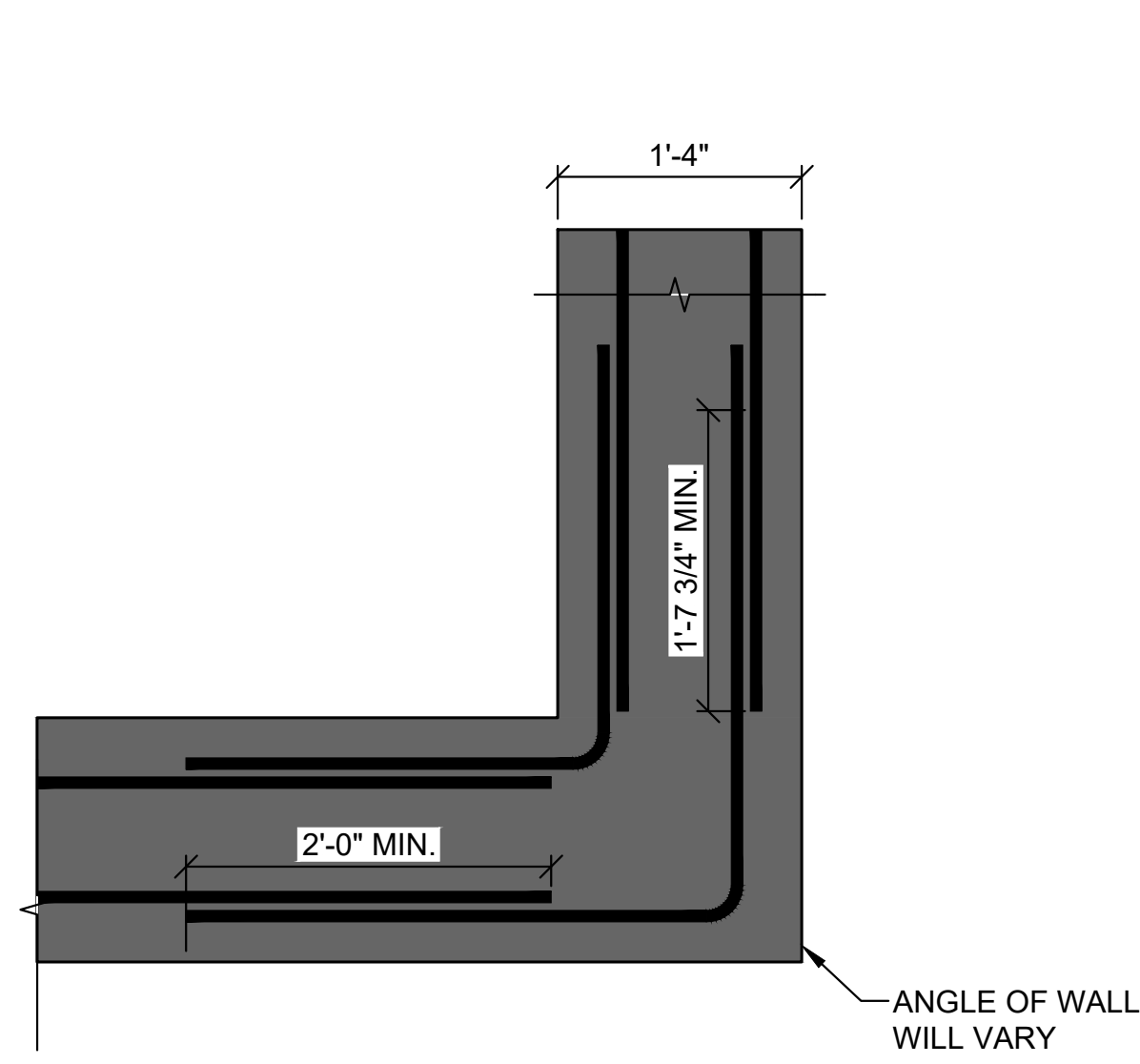
NO	DATE	ISSUE/REVISION	APP
0	5/15/2026	ISSUED FOR BID	CS
			APP

SHEET NAME
PROPOSED SPLASH WALL AND OUTFALL SECTIONS - II

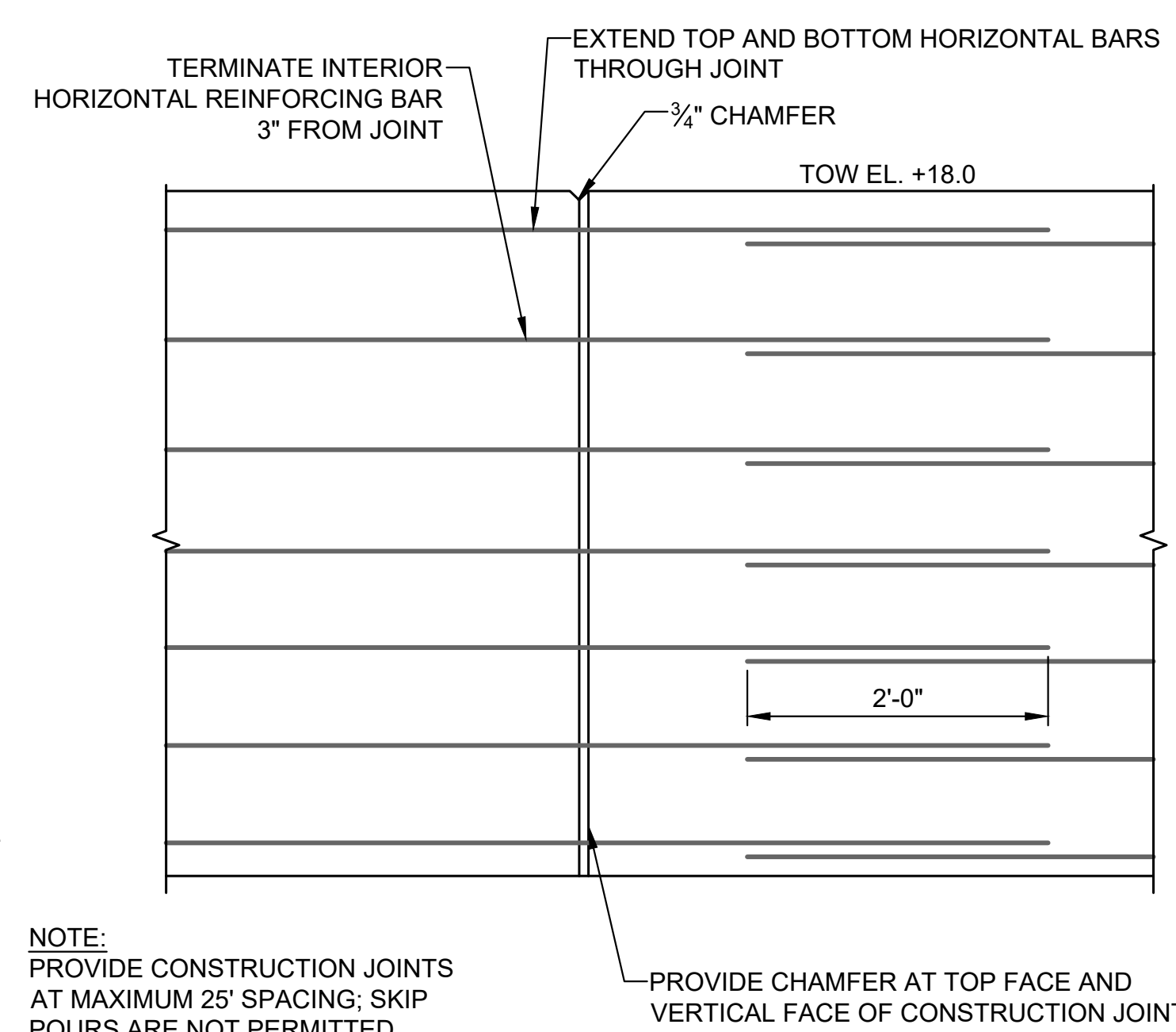
SHEET NO.
 S-03



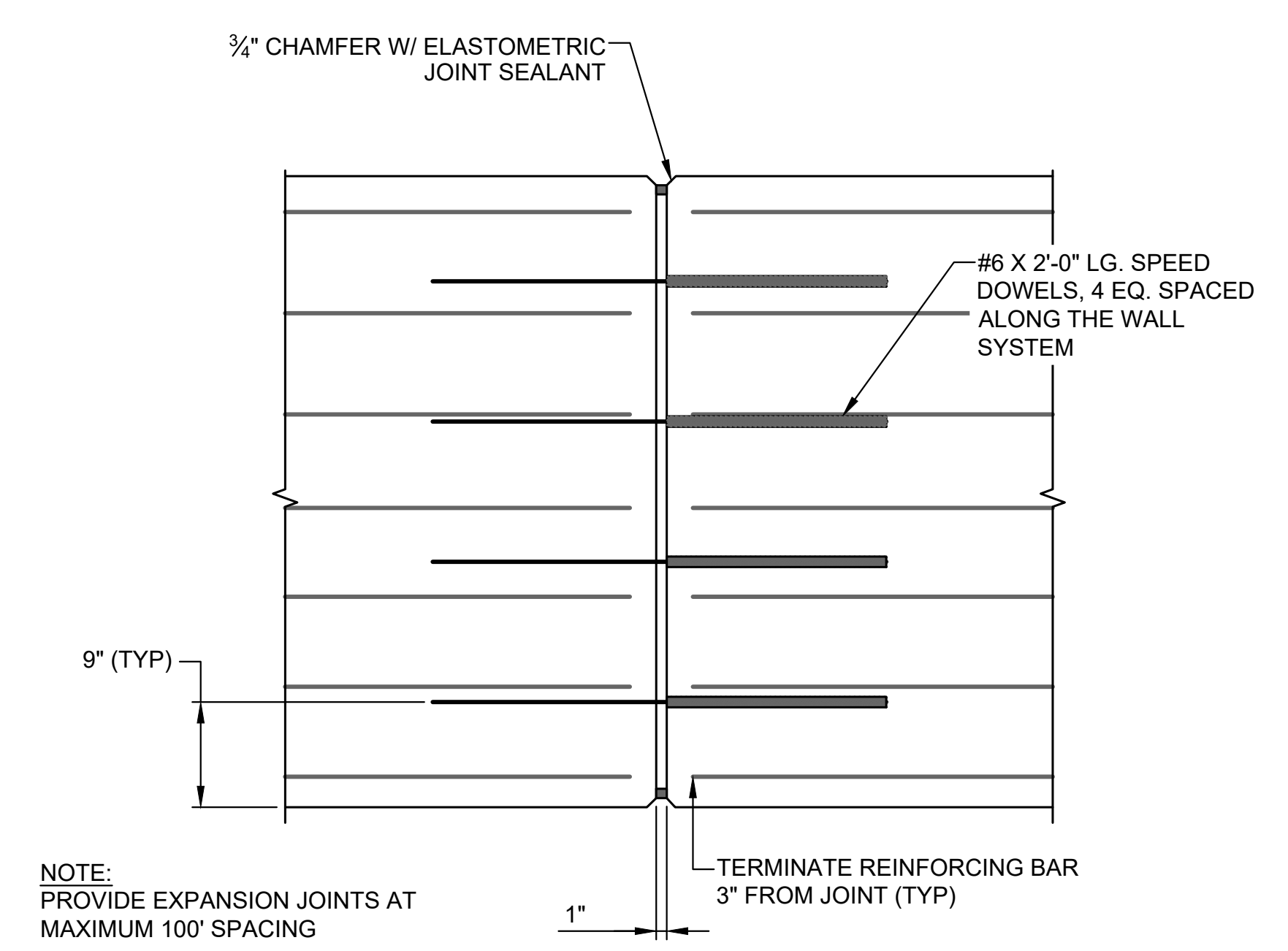
1 DETAIL
S-03 SPLASH WALL REINFORCING SCALE: 1/2" = 1'-0"



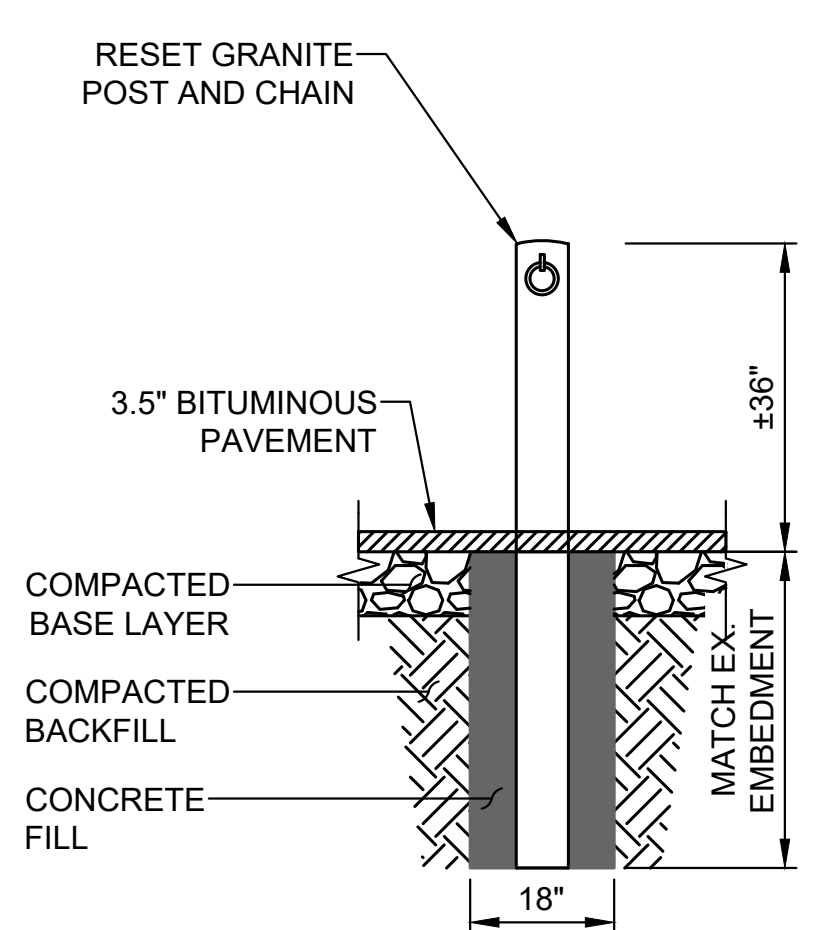
2 DETAIL
SPLASH WALL CORNER SCALE: 1" = 1'-0"



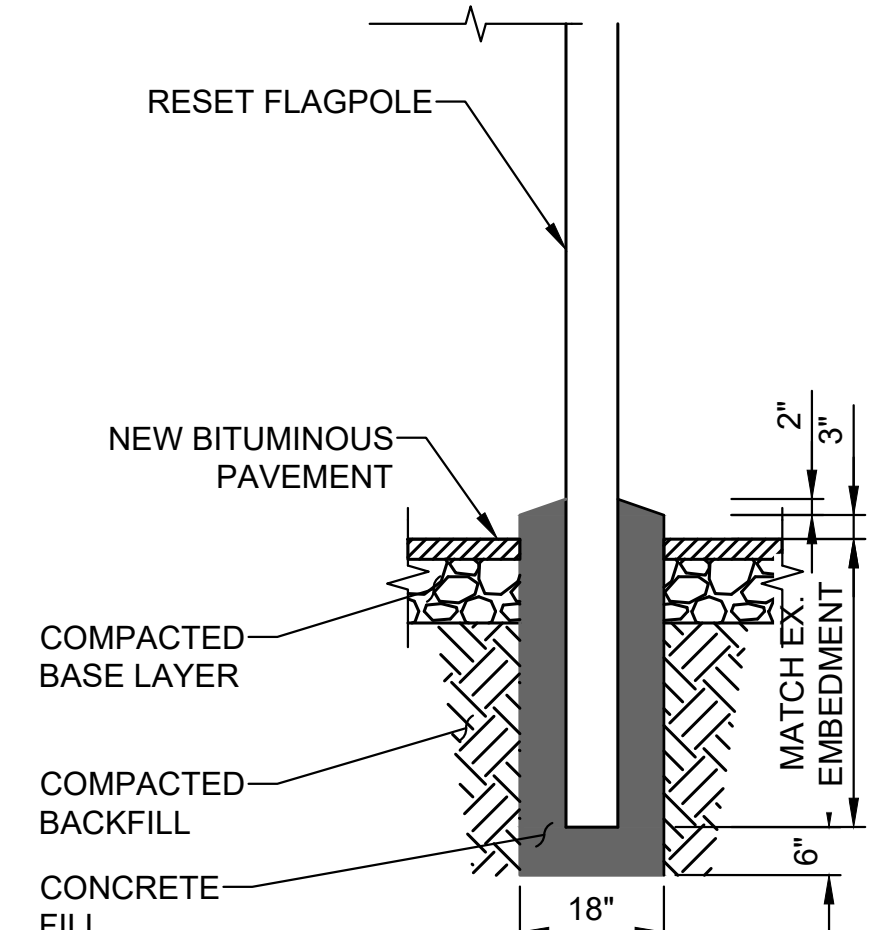
3 DETAIL
SPLASH WALL CONSTRUCTION JOINT SCALE: 1" = 1'-0"



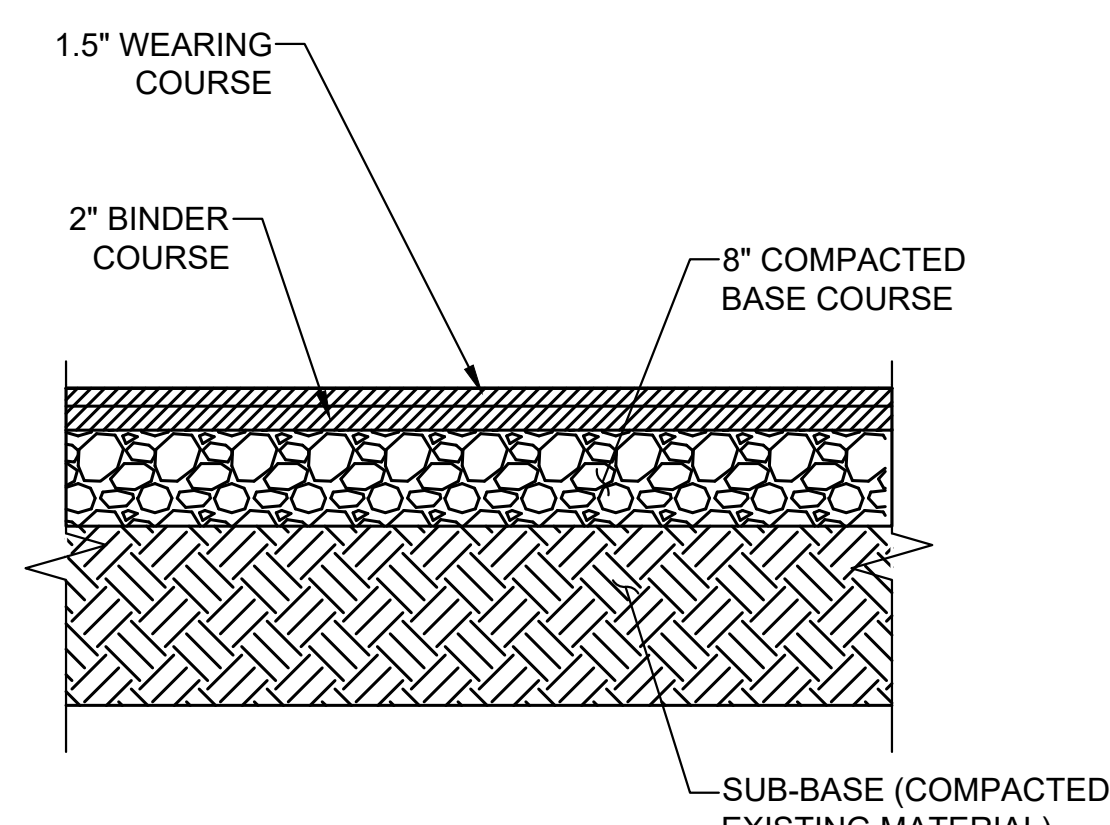
4 DETAIL
SPLASH WALL EXPANSION JOINT SCALE: 1" = 1'-0"



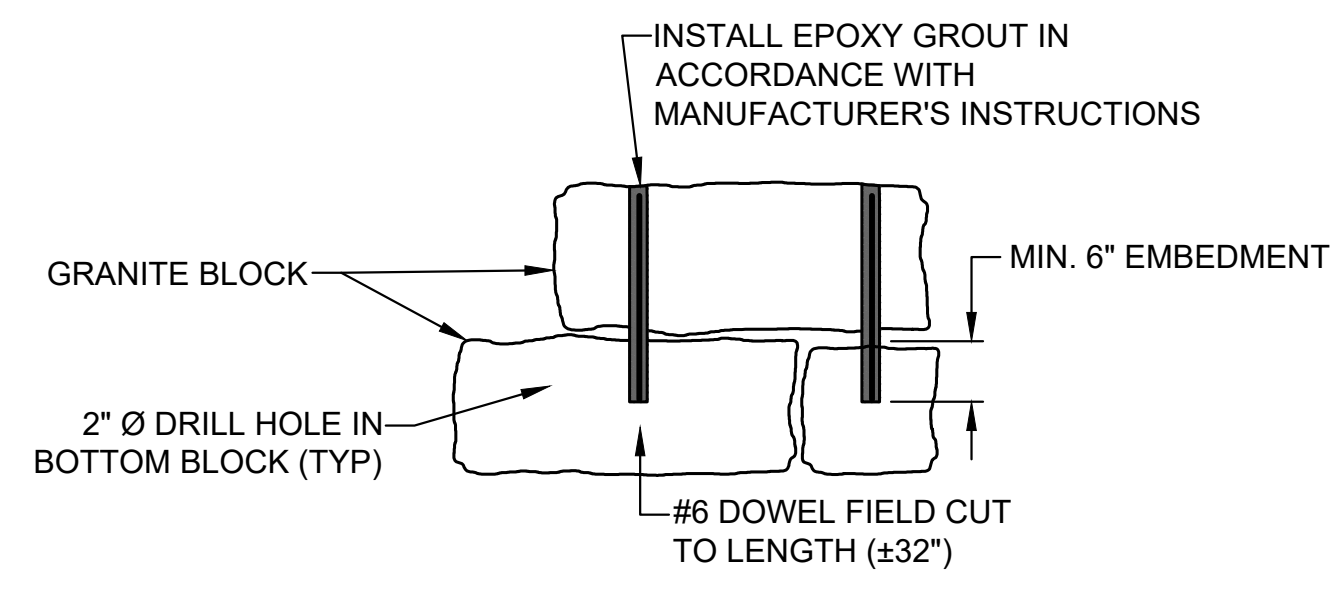
5 DETAIL
GRANITE POST NO SCALE



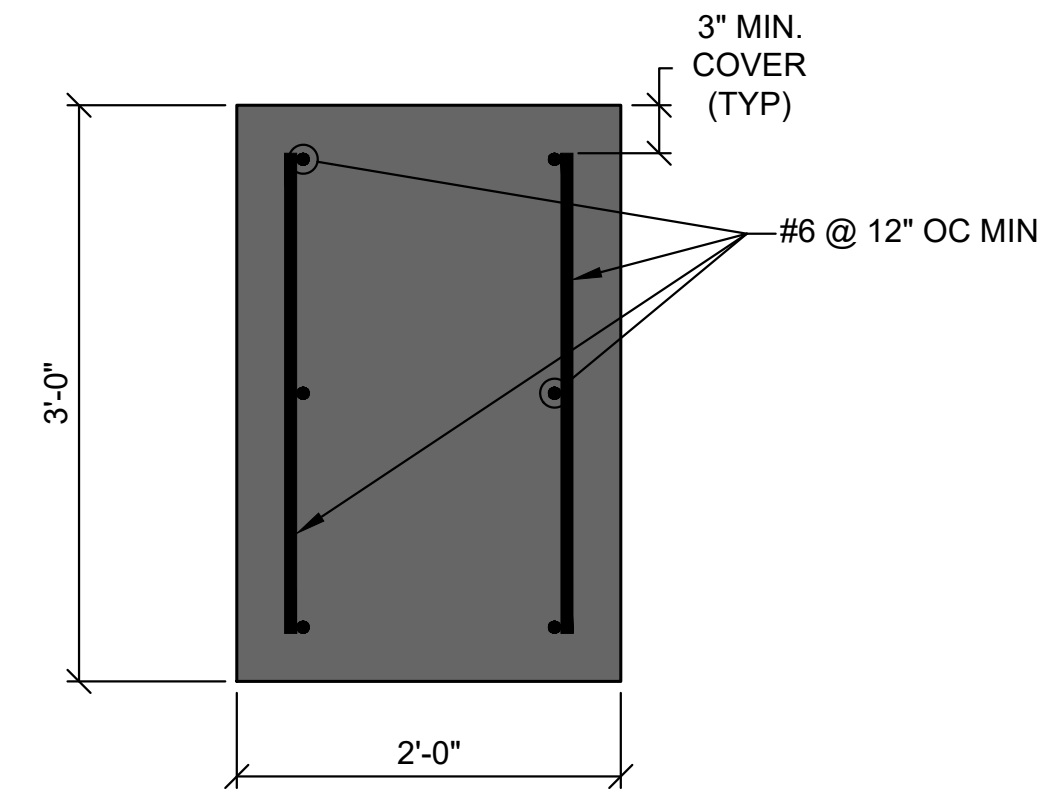
6 DETAIL
FLAGPOLE NO SCALE



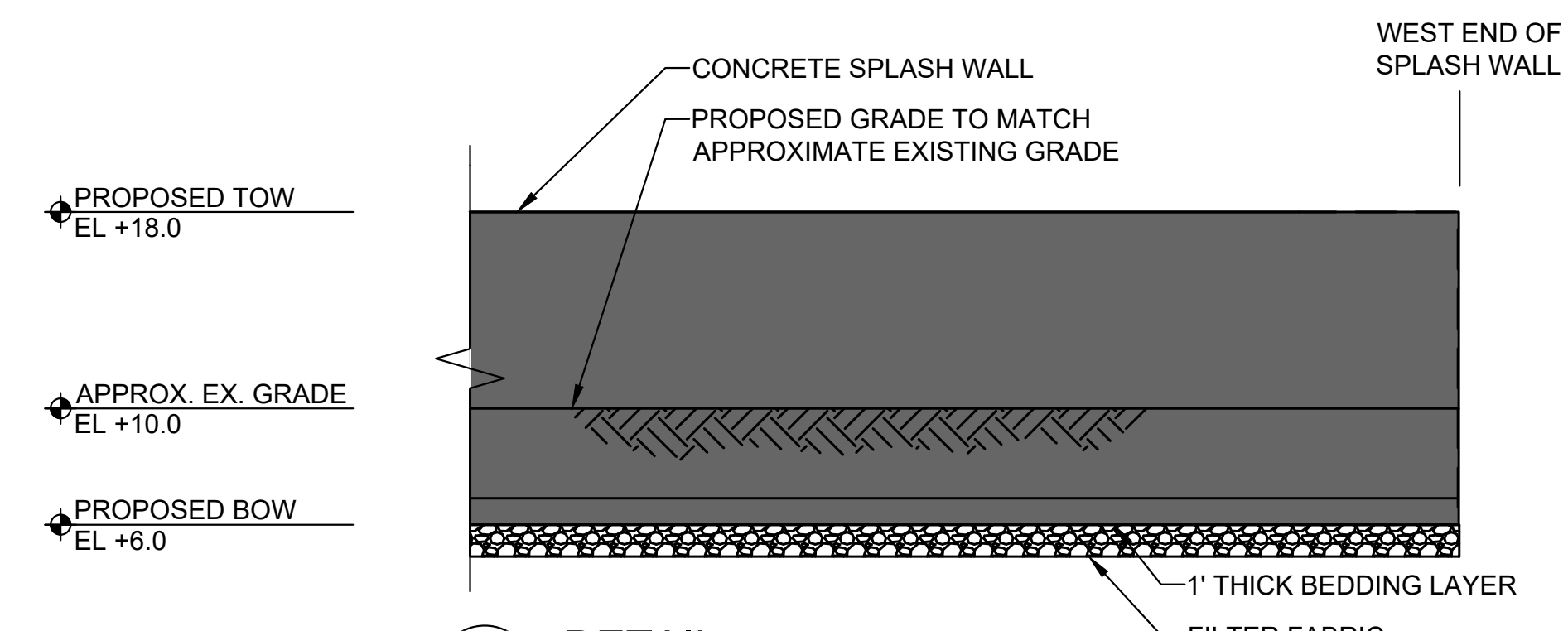
7 DETAIL
PAVEMENT NO SCALE



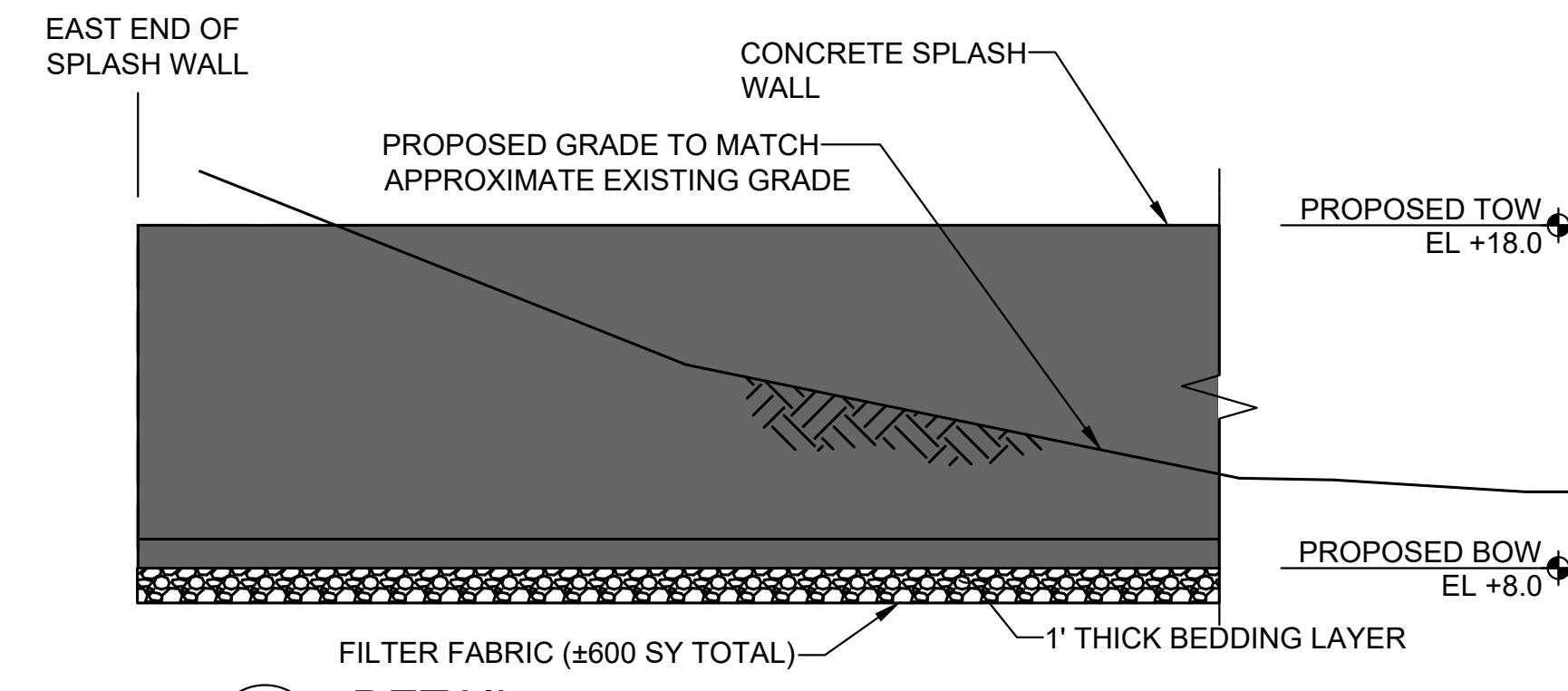
8 DETAIL
DOWEL GROUTING NO SCALE



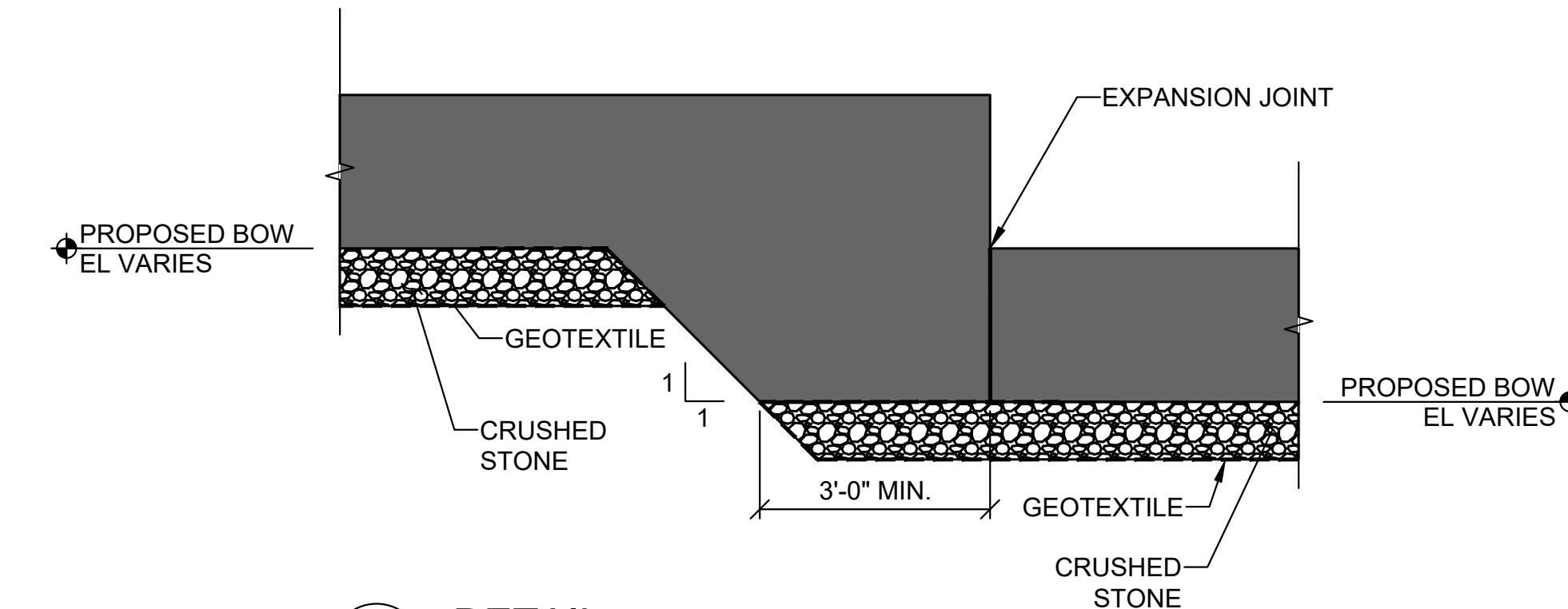
9 DETAIL
HEADWALL REINFORCEMENT SCALE: 1" = 1'-0"



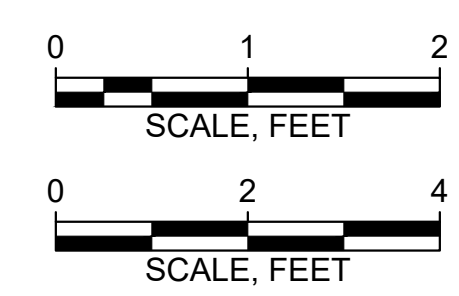
10 DETAIL
C-02A SPLASH WALL END NO SCALE



11 DETAIL
C-02A SPLASH WALL ABUTMENT TIE-IN NO SCALE



12 DETAIL
SPLASH WALL ABUTMENT TIE-IN SCALE: 1/2" = 1'-0"



Attention:
If this scale bar does not measure 1" then drawing is not original scale.



Designed: IJP
Drawn: JSF
Checked: ADP
Approved: CS
P.E. No: 58108
GEI Project: 2502319



**MOON ISLAND SEAWALL
BOSTON PFD
PROJECT: #7222**
BOSTON, MA

NO	DATE	ISSUE/REVISION	APP
0	5/15/2026	ISSUED FOR BID	CS

SHEET NAME
PROPOSED DETAILS

SHEET NO.
S-04

FITZGERALD, JAMISON, B. Working BOSTON PFD 2502319 Moon Island Seawall - Final Design & Construction 003_CAD/Design/Sheet/S-04 PROPOSED DETAILS.dwg - 5/13/2026