



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

**PUBLIC NOTICE**

File Number: 2026-01-023 Date: April 10, 2026

This office has under consideration the application of:

**Pawtucket Redevelopment Agency**  
 137 Roosevelt Avenue  
 Pawtucket, RI 02860

for a State of Rhode Island Assent to construct and maintain:

- 1) A vertical slot fishway for restoration of diadromous fish passage from the Seekonk to Blackstone River below the Main Street dam to above the Slater Mill dam
- 2) Accessways, overlook and plaza for maintenance and public access, including restoration and enhancement of upland buffer vegetation
- 3) Stormwater management improvements
- 4) Repair of existing structural shoreline protection (vertical seawall), including removal of 220lf
- 5) Work includes excavation, dredging and filling in tidal waters, with 5,000sf of temporary impact, 1700sf of permanent impact, 275cy of dredge material and 385cy of fill
- 6) Work includes 2400sf of temporary impact, 815sf of permanent impact, 190cy of dredge material and 105cy of fill within freshwater wetland (Blackstone River). No alterations to vegetated freshwater wetlands are proposed
- 7) Variances are required to 650-RICR-2000-01 Section 1.2.1(B)(3)(a)(2)-fill placement and 1.3.1(C)(4)(a)(4)-Structural Perimeter Limit. The project meets the exemption under 1.3.1(J)
- 8) The project is exempt from Urban Coastal Greenway requirements of the Metro Bay SAMP Section 5.5(D) and meets several exemptions under FWWC Section 3.2.1

|                   |  |            |           |
|-------------------|--|------------|-----------|
| Project Location: | 100 Main Street & Broadway                         | City/Town: | Pawtucket |
| Plat/Lot:         | 22 23 / 287 553                                    |            |           |
| Waterway:         | Seekonk and Blackstone Rivers, Type 4 & Freshwater |            |           |

Plans of the proposed work can be requested from CRMC through [Cstaffl@crmc.ri.gov](mailto:Cstaffl@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 **May 10, 2026**.

Please email your comments/hearing requests to: [cstaffl@crmc.ri.gov](mailto:cstaffl@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.

# BLACKSTONE RIVER FISH PASSAGE RESTORATION PROJECT

## MAIN STREET AND SLATER MILL DAMS BLACKSTONE RIVER PAWTUCKET, RHODE ISLAND DECEMBER 2025

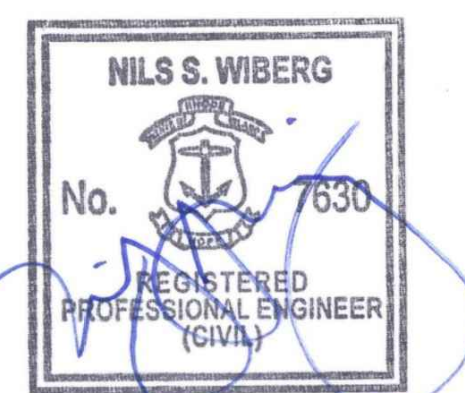
### PROJECT TEAM

ALDEN RESEARCH  
LABORATORY, INC.  
30 SHREWSBURY ST.  
HOLDEN, MA 01520

LEC ENVIRONMENTAL, INC.  
1 RICHMOND SQUARE, 219W  
PROVIDENCE, RI 02906

NATIONAL LAND SURVEYORS  
42 HAMLET AVE.  
WOONSOCKET, RI 02895

AEROTECH CORPORATION  
365 SMITH STREET, SUITE 1  
PROVIDENCE, RI 02908



12/30/25

### SHEET INDEX

| Sheet no.       | Sheet Title  |
|-----------------|--|
| GI-001          | COVER SHEET  |
| CN-001          | GENERAL NOTES AND LEGEND                                       |
| CS-101          | EXISTING CONDITIONS AND WETLAND RESOURCES AREA PLAN            |
| CS-102 - CS-103 | DEMOLITION, ACCESS AND EROSION & SEDIMENT CONTROL PLAN NO. 1-2 |
| CS-104 - CS-105 | FISHWAY PLAN AND PROFILE NO. 1-2                               |
| CS-106          | FISHWAY PASSAGE STRUCTURE CROSS SECTIONS                       |
| CS-107 - CS-108 | CONSTRUCTION SEQUENCE AND WATER CONTROL PLAN NO. 1-2           |
| CS-109          | VEGETATIVE RESTORATION PLAN                                    |
| CD-501 - CD-503 | CONSTRUCTION DETAILS   |



LOCATION MAP  
SCALE: 1" = 500'

PREPARED BY

**FUSS &  
O'NEILL**

3 DAVOL SQUARE, SUITE C200  
PROVIDENCE, RI 02903  
401.861.3070  
www.fando.com



**RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
235 PROMENADE STREET, PROVIDENCE, RI 02908

PREPARED FOR



**THE NATURE CONSERVANCY - RHODE ISLAND**

159 WATERMAN STREET, PROVIDENCE, RI 02906

NOT FOR CONSTRUCTION



PROJ. No.: 20170570.B30  
DATE: DECEMBER 2025

GI-001

| EXIST | PROP   |
|-------|--|
|       | PROPERTY LINE/RIGHT-OF-WAY                         |
| ---   | LIMIT OF DISTURBANCE                               |
| ---   | EASEMENT   |
| ---   | BUILDING SETBACK                                   |
| ---   | STATE HIGHWAY BASELINE                             |
| ---   | FISHWAY STRUCTURE BASELINE                         |
| ---   | APPROXIMATE LIMIT OF RIVER CHANNEL                 |
| ---   | WETLAND LINE                                       |
| ---   | 25' WETLAND BUFFER ZONE                            |
| ---   | 150' RIVERBANK BUFFER ZONE                         |
| ---   | 200' COASTAL BUFFER ZONE                           |
| ---   | FLOODPLAIN BOUNDARY                                |
| ---   | EDGE OF PAVEMENT                                   |
| ---   | CURB   |
| ---   | SAW CUT  |
| ---   | GUARD RAIL   |
| ---   | CHAIN LINK FENCE                                   |
| ---   | TREE LINE  |
| ---   | RETAINING WALL                                     |
| ---   | CONTOUR (LIDAR)                                    |
| ---   | CONTOUR (GROUND SURVEY)                            |
| ---   | PROPOSED CONTOUR                                   |
| ○     | BUILDING   |
| ○     | BOLLARD  |
| ○     | SIGN   |
| ○     | SPOT ELEVATION                                     |
| ○     | SOIL BORING  |
| ○     | TEST PIT LOCATION                                  |
| ---   | DRAINAGE LINE                                      |
| ---   | WATER LINE   |
| ---   | GAS LINE   |
| ---   | UNDERGROUND ELECTRIC                               |
| ○     | CATCH BASIN  |
| ○     | DRAIN MANHOLE                                      |
| ○     | MANHOLE  |
| ○     | POLE   |
| ○     | GATE VALVE   |
| ---   | TEMPORARY COFFERDAM                                |
| ---   | SILT FENCE   |
| ---   | TURBIDITY CURTAIN                                  |
| ---   | PERMEABLE PAVEMENT PUBLIC ACCESSWAY/AREA           |
| ---   | VEGETATED ARTICULATING CONCRETE BLOCK ACCESS ROUTE |
| ---   | SEDIMENT-FILLED STONE ARMOR                        |

| LEGEND NOTE   |
|---|
| SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSION OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURER'S LITERATURE, SHOP DRAWINGS, AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.  |
| <b>ABBREVIATIONS</b>  |
| GENERAL APPROX APPROXIMATE BIT BITUMINOUS PAVEMENT BW BOTTOM OF WALL CC CONCRETE CURB ELEV ELEVATION EXIST EXISTING MAX MAXIMUM MIN MINIMUM NTS NOT TO SCALE PROP PROPOSED R&D REMOVE AND DISPOSE R&R REMOVE AND RESET R&S REMOVE AND STACK TOS TOP OF SLOPE TOS TOP OF WALL TYP TYPICAL VGC VERTICAL GRANITE CURB  |
| UTILITY CB CATCH BASIN CMP CORRUGATED METAL PIPE CPP CORRUGATED POLYETHYLENE PIPE DCB DOUBLE CATCH BASIN DI DOUBLE IRON PIPE FR FRAME AND GRATE F&C FRAME AND COVER HOPE HIGH DENSITY POLYETHYLENE HYD HYDRANT INV INVERT ELEVATION PVC POLYVINYL CHLORIDE PIPE ROP REINFORCED CONCRETE PIPE ROD ROOF DRAIN SMH SEWER MANHOLE TSV TAPPING SLEEVE, VALVE AND BOX UP UTILITY POLE |

### GENERAL NOTES

- ALL CONSTRUCTION INDICATED ON THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE RHODE ISLAND STATE BUILDING CODE AND APPLICABLE REGULATORY AND PERMITTING REQUIREMENTS.
- WHERE REFERENCE IS MADE TO ANY STANDARD SPECIFICATIONS IT SHALL MEAN THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION (RIDOT) STANDARDS.
- EXISTING FEATURES AND TOPOGRAPHICAL INFORMATION REFLECTED WITHIN ARE BASED UPON A CLASS I BOUNDARY, CLASS III CULTURE, AND A CLASS T-2 TOPOGRAPHIC PLAN PERFORMED BY AEROTECH CORPORATION OF PROVIDENCE, RHODE ISLAND IN JUNE 2023. AEROTECH'S SURVEY WAS LIMITED TO AREAS WITHIN THE APEX PROPERTY. A GEOPHYSICAL SURVEY WAS PERFORMED FOR THE APEX PROPERTY BY ATLANTIC GEOSERVICES IN APRIL 2023. CLASS III SURVEY WAS PERFORMED BY NATIONAL SURVEYORS - DEVELOPERS, INC. OF WOONSOCKET, RHODE ISLAND IN JULY 2019 OF THE SLATER MILL PARK PROPERTY.
- WETLAND FLAGGING ALONG THE RIVER WITHIN THE PROJECT LIMITS WAS PERFORMED BY APPLIED BIO-SYSTEMS, INC. AND FIELD LOCATED BY FUSS & O'NEILL, INC. USING A GPS ON JULY 11, 2024. WETLAND BOUNDARIES WITHIN THE PROJECT LIMITS WERE RE-EVALUATED BY LEC ENVIRONMENTAL CONSULTANTS, INC. ON SEPTEMBER 5, 2025.
- SOIL BORINGS AND TEST PITS WERE CONDUCTED BY TRI ENVIRONMENTAL IN MAY 2021 OF THE SLATER MILL PARK AREA AND AGAIN BY RMA GEOENVIRONMENTAL, LLC, OF WICKFORD, RHODE ISLAND ON APRIL 11, 2023, AND APRIL 17, 2023. THESE WERE OBSERVED BY FUSS & O'NEILL, INC.
- THE ELEVATION DATUM FOR THE PROJECT IS NAVD 1988. HORIZONTAL DATUM REFERENCES NAD 1983.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS.
- CONSTRUCTION SHALL BE MADE FROM APPROVED SHOP DRAWINGS ONLY.
- NOTES, TYPICAL DETAILS AND SCHEDULES APPLY TO ALL WORK UNLESS OTHERWISE NOTED. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS OF SIMILAR NATURE. VERIFY APPLICABILITY BY SUBMITTING SHOP DRAWINGS FOR REVIEW.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL PROJECT DEMOLITION AND EXCESS MATERIAL IN ACCORDANCE WITH RHODE ISLAND, LOCAL, AND FEDERAL LAWS. NO ONSITE BURNING OR DISPOSAL WILL BE ALLOWED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO ADJACENT STRUCTURES AND UTILITIES AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL FOLLOW ALL OSHA AND OTHER APPLICABLE FEDERAL, STATE, AND LOCAL STANDARDS FOR ALL PROJECT COMPONENTS AND ACTIVITIES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SITE SAFETY PROCEDURES AND PRACTICES REGARDLESS OF THE PRESENCE OR ACTIONS OF THE OWNER OR ENGINEER.
- ALL CONSTRUCTION ACTIVITIES SHALL BE CONFINED TO THE LIMITS OF WORK DEFINED HEREIN.
- CONTRACTOR WILL BE REQUIRED TO SUBMIT A CONSTRUCTION SCHEDULE TO THE OWNER WITHIN 5 DAYS OF THE NOTICE OF AWARD.
- CONTRACTOR SHALL STAGE ALL EQUIPMENT IN THE DESIGNATED STAGING AREA. ALL GREASING AND REFUELING ACTIVITIES SHALL OCCUR IN THE STAGING AREA.
- NO WORK OR DISCHARGES, OTHER THAN THAT SHOWN, SHALL BE PERFORMED WITHIN WETLANDS WITHOUT FIRST RECEIVING PROPER PERMITS FROM THE REGULATORY AGENCY HAVING JURISDICTION OVER THE WETLANDS. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, RESTORING AND REPAIRING ALL DAMAGE AS A RESULT OF UNAUTHORIZED WORK OR DISCHARGES TO THE WETLAND AREA AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL NOTIFY UTILITY LOCATOR SERVICE AT LEAST 72 HOURS BEFORE STARTING EXCAVATION. RHODE ISLAND: "CALL BEFORE YOU DIG" AT 1-888-344-7233.
- CONTRACTOR WILL BE REQUIRED TO ATTEND WEEKLY PROGRESS MEETINGS AS REQUESTED BY THE OWNER/ENGINEER.

### EXISTING UTILITY COORDINATION REQUIREMENTS

- BEFORE BEGINNING SITE WORK, INVESTIGATE AND VERIFY THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND OTHER CONSTRUCTION AFFECTING THE WORK. MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF NECESSARY. THE EXISTENCE AND/OR LOCATION OF UTILITIES SHOWN ON THESE PLANS ARE SHOWN IN AN APPROXIMATE MANNER. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN HEREON AND ANY OTHER EXISTING UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT ITS OWN EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT DIG SAFE (811) AND UTILITY COMPANIES TO LOCATE ALL EXISTING UTILITIES, AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION. THE LOCATION OF EXISTING UNDERGROUND INFRASTRUCTURE, UTILITIES, CONDUITS AND LINES ARE SHOWN IN AN APPROXIMATE MANNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT ITS OWN EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO LOCATE SAID INFRASTRUCTURE AND UTILITIES EXACTLY. IF FIELD CONDITIONS DIFFERS FROM PLAN INFORMATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR POSSIBLE REDESIGN.
- PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

### GENERAL CONSTRUCTION REQUIREMENTS

- DEVIATIONS OR CHANGES FROM THESE PLANS WILL NOT BE ALLOWED UNLESS APPROVED BY THE ENGINEER/CONTRACT OWNER.
- THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF NECESSARY. HOWEVER, EXPLORATORY EXCAVATIONS AND OTHER ACTIVITIES INVOLVING SOIL DISTURBANCES WITHIN THE RIVER OR OTHER ADJACENT WATERCOURSES SHALL BE LIMITED TO THE LOW-FLOW PERIOD (I.E. THE PERIOD FROM JULY 1 TO OCTOBER 31 TO ANY CALENDAR YEAR).
- THE EXISTENCE AND/OR LOCATION OF UTILITIES SHOWN ON THESE PLANS MAY BE ONLY APPROXIMATELY CORRECT AND THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN HEREIN AND ANY OTHER EXISTING UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS/HER EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
- CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CONTRACT OWNER, PROPERTY OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM "THE SOLE NEGLIGENCE OF THE CONTRACT OWNER, PROPERTY OWNER OR THE ENGINEER."
- PHOTOGRAPHS, VIDEOTAPING, AND SKETCHES (AS NECESSARY) MUST BE TAKEN OF ADJOINING CONSTRUCTION AND SITE IMPROVEMENTS WITHIN 200 FEET OF EXCAVATION LIMITS ASSOCIATED WITH THE INSTALLATION OF THE FISH PASSAGE STRUCTURE PRIOR TO EXCAVATION AND THE INSTALLATION OF EXCAVATION SUPPORT SYSTEMS. SUCH DOCUMENTATION SHALL ILLUSTRATE EXISTING SURFACES THAT MAY BE MISCONSTRUED AS DAMAGE CAUSED BY THIS PROJECT CONSTRUCTION OPERATIONS.
- VERIFY THE LOCATIONS OF EXISTING STRUCTURES AND THE PROPOSED LAYOUT OF THE CULVERT IN ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. VERIFY ALL DIMENSIONS, SITE CONDITIONS, AND MATERIAL SPECIFICATIONS AND NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH THE WORK.
- TAKE FIELD MEASUREMENTS AS REQUIRED TO FIT THE WORK PROPERLY. RECHECK MEASUREMENTS BEFORE CONSTRUCTING EACH WORK ITEM. WHERE PORTIONS OF THE WORK ARE INDICATED TO FIT TO OTHER CONSTRUCTION, VERIFY DIMENSIONS OF OTHER CONSTRUCTION BY FIELD MEASUREMENTS BEFORE FABRICATION. COORDINATE FABRICATION SCHEDULE WITH CONSTRUCTION PROGRESS TO AVOID DELAYING THE WORK.
- VERIFY SPACE REQUIREMENTS AND DIMENSIONS OF ITEMS SHOWN ON DRAWINGS. CHECK THE LOCATION, LEVEL AND GRADE, OF EVERY MAJOR ELEMENT AS THE WORK PROGRESSES.
- ESTABLISH BENCHMARKS AND CONTROL POINTS IN ADDITION TO THOSE INDICATED TO SET LINES, GRADES, AND LEVELS AT EACH STAGE OF CONSTRUCTION. LOCATE THE WORK AND COMPONENTS OF THE WORK ACCURATELY, IN CORRECT ALIGNMENT AND ELEVATION, AS INDICATED.
- BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS, ANY PAVEMENT, WALKS, CURBS, ETC., THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.
- COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLING MATERIALS AND PRODUCTS.
- INSTALL PRODUCTS AT THE TIME AND UNDER CONDITIONS THAT WILL ENSURE THE BEST POSSIBLE RESULTS. MAINTAIN CONDITIONS REQUIRED FOR PRODUCT PERFORMANCE UNTIL SUBSTANTIAL COMPLETION.
- CONDUCT CONSTRUCTION OPERATIONS SO NO PART OF THE WORK IS SUBJECTED TO DAMAGING OPERATIONS OR LOADING IN EXCESS OF THAT EXPECTED DURING NORMAL POST-CONSTRUCTION CONDITIONS.
- PROVIDE ANCHORS AND FASTENERS AS REQUIRED TO ANCHOR EACH COMPONENT SECURELY IN PLACE, ACCURATELY LOCATED AND ALIGNED WITH OTHER PORTIONS OF THE WORK.
- USE PRODUCTS, CLEANERS, AND INSTALLATION MATERIALS THAT ARE NOT CONSIDERED HAZARDOUS.

- CONTRACTOR AGREES THAT IT ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CONTRACT OWNER, PROPERTY OWNERS AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM "THE SOLE NEGLIGENCE OF THE CONTRACT OWNER, PROPERTY OWNER OR THE ENGINEER."
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS, ANY PAVEMENT, WALKS, SIGNS, BERMS, ETC., THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL ALSO RESTORE DISTURBED LANDSCAPE AREAS TO ORIGINAL CONDITION (I.E. SEEDED, SODDED, PLANTED) UNLESS OTHERWISE DIRECTED WITHIN CONTRACT DOCUMENTS.
- PRIOR TO CONSTRUCTION, ACCESS AND CONSTRUCTION EASEMENTS MUST BE GRANTED BY PROPERTY OWNERS WHERE ACCESS AND CONSTRUCTION WILL BE REQUIRED.
- AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.

### DEMOLITION CONSTRUCTION NOTES

- DEMOLITION ACTIVITY SHALL CONFORM TO CURRENT AIR POLLUTION CONTROL REGULATIONS. THE CONTRACTOR SHALL IMPLEMENT MEASURES TO ALLEVIATE DUST, NOISE, AND ODOUR NUISANCE CONDITIONS THAT MAY OCCUR DURING THE DEMOLITION ACTIVITIES.
- CONTRACTOR SHALL SUBMIT A SCHEDULE OF DEMOLITION AND REMOVAL PRIOR TO STARTING THE WORK.

### VEGETATIVE RESTORATION NOTES

- CONTRACTOR SHALL APPLY FERTILIZER TO PREPARED TOPSOIL SURFACE AT THE RATES INDICATED IN THE PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL ESTABLISH VEGETATIVE COVER TO AREAS DISTURBED BY CONSTRUCTION AS INDICATED IN THE PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL PROTECT SEEDED AREAS WITH EROSION CONTROL BLANKETS OR APPROVED EQUIVALENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SEEDED AREAS THROUGH ONE GROWING SEASON. MAINTENANCE INCLUDES MOWING, WATERING, AND RE-SEEDING AS REQUIRED TO DEVELOP A SATISFACTORY STAND OF HEALTHY GRASS AS DEFINED IN THE PROJECT SPECIFICATIONS.
- ANY UNPAVED AREAS THAT ARE DISTURBED SHALL BE RESTORED WITH A MINIMUM OF FOUR INCHES OF IMPORTED OR NATIVE TOPSOIL MATERIAL AND SEED AS INDICATED ON THE PLANS, UNLESS OTHERWISE NOTED. IN AREAS WHERE LONG-TERM EROSION CONTROL BLANKETING IS PROPOSED OR IT IS DETERMINED THAT ADDITIONAL EROSION CONTROL BLANKETING MUST BE INSTALLED, APPLY SEED AND APPROXIMATELY THREE INCHES OF IMPORTED OR NATIVE TOPSOIL MATERIAL BEFORE INSTALLATION OF EROSION CONTROL BLANKETING. A ONE (1) INCH LAYER OF ADDITIONAL IMPORTED OR NATIVE TOPSOIL MATERIAL MUST THEN BE SPREAD OVER SEED AND BLANKETING SUBSEQUENT TO INSTALLATION OF BLANKETING.

### WATER CONTROL NOTES

- TEMPORARY COFFERDAM(S) AND WATER DIVERSION STRUCTURE(S) ARE TO BE CONSTRUCTED OF MATERIALS THAT CAN BE COMPLETELY REMOVED FROM THE RIVER UPON COMPLETION OF CONSTRUCTION. REMOVAL OF THE TEMPORARY COFFERDAM(S) SHALL BE CONDUCTED IN A CONTROLLED MANNER.
- CONTRACTOR SHALL PREPARE AND SUBMIT A CONTROL OF WATER PLAN PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL MONITOR WEATHER PATTERNS AND IMPLEMENT NECESSARY MEASURES TO PROTECT THE WORK.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY COFFERDAMS WITHIN THE UPSTREAM OR DOWNSTREAM AREA AND PROVIDE PUMPS OR OTHER MEANS OF DEWATERING AS NECESSARY TO FACILITATE CONSTRUCTION IN THE DRY. EARTHEN COFFERDAMS OR DISCHARGE OF OTHER FILLS WHICH CANNOT BE REMOVED IN THEIR ENTIRETY SHALL NOT BE PERMITTED.
- ANY NECESSARY DIVERSIONS SHALL BE APPROVED BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. ALL DIVERSIONS SHALL BE INSTALLED AND REMOVED IN THEIR ENTIRETY AT NO ADDITIONAL COST TO THE OWNER.

### EROSION CONTROL NOTES

- DISTURBANCE OF SOIL SURFACES IS REGULATED BY STATE LAW AND LOCAL ORDINANCE. APPROVAL FROM RIDEM FRESHWATER WETLANDS AND RIPIDS SECTIONS ARE REQUIRED. ALL WORK SHALL COMPLY WITH THE FOLLOWING CRITERIA AND ISSUED PERMIT CONDITIONS TO PREVENT OR MINIMIZE SOIL EROSION.
- THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL DEVICES IS THE RESPONSIBILITY OF THE CONTRACTOR. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS, OR AS INDICATED BY THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND THE CITY OF PAWTUCKET. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL USE THE LATEST EDITION OF THE "STATE OF RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" AS A GUIDE IN CONSTRUCTING THE EROSION AND SEDIMENT CONTROLS INDICATED ON THE PLANS. ALL EROSION AND SEDIMENT CONTROL MEASURES OR WORKS AND REHABILITATION MEASURES MUST CONFORM TO OR EXCEED THE SPECIFICATIONS OR STANDARDS SET OUT IN THIS HANDBOOK.
- THE CONTRACTOR SHALL INSPECT EROSION AND SEDIMENT CONTROL DEVICES AT THE END OF EACH WORKING DAY, AFTER EACH STORM EVENT, AND AT LEAST DAILY DURING PROLONGED RAINFALL. REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED.
- THE CONTRACTOR IS RESPONSIBLE FOR THE TIMELY INSTALLATION, INSPECTION, MAINTENANCE, AND/OR REPLACEMENT OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES TO ENSURE PROPER OPERATION THROUGHOUT THE LIFE OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF PERMANENT MEASURES UNTIL CONSTRUCTION OF THE PROJECT IS COMPLETED OR UNTIL IT IS ACCEPTED BY THE CONTRACT OWNER. THE CONTRACT OWNER IS RESPONSIBLE THEREAFTER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN ROADS, CONTROL DUST, AND TAKE ALL NECESSARY MEASURES TO ENSURE THAT THE SITE AND ADJACENT ROADS BE MAINTAINED IN A WIND- AND DUST-FREE CONDITION AT ALL TIMES THROUGHOUT THE LIFE OF THE CONTRACT. DUST CONTROL SHALL INCLUDE, BUT IS NOT LIMITED TO: BURLAP, WATER AND/OR CRUSHED STONE OR COARSE GRAVEL.
- ALL PROPOSED TEMPORARY CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND DETAILS. ALL VEHICLE TRAFFIC ENTERING OR EXITING THE PROJECT SITE SHALL PASS OVER THE TEMPORARY CONSTRUCTION ENTRANCES TO REDUCE THE TRACKING OR FLOWING OF SEDIMENT ONTO THE SURROUNDING ROADWAYS. ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE SURROUNDING ROADWAYS. THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WAIVED, OR TRACKED ONTO THE SURROUNDING ROADWAYS MUST BE REMOVED IMMEDIATELY. ADDITIONAL ENTRANCES FOR CONSTRUCTION PHASING SHALL BE INSTALLED AS REQUIRED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADWAYS.
- THE CONTRACTOR SHALL INSTALL ALL PERIMETER SEDIMENT CONTROL BARRIERS (I.E. SILT FENCE OR BIODEGRADABLE STRAW WATTLE) AS SHOWN ON THE PLANS. SILT FENCE/Biodegradable STRAW WATTLE SHALL ALSO BE INSTALLED AROUND ANY SOIL STOCKPILE AREAS.
- THE CONTRACTOR SHALL RESTORE DISTURBED AREAS AS INDICATED ON THE PLANS. OTHER AREAS DAMAGED DURING CONSTRUCTION SHALL BE RESEEDED OR OTHERWISE RESTORED TO ORIGINAL STATE AS CLOSELY AS POSSIBLE. TREES AND OTHER EXISTING VEGETATION NOT PROPOSED TO BE DEMOLISHED SHALL BE RETAINED AS INDICATED ON THE PLANS.

TEMPORARY VEGETATIVE COVER SHALL BE PLANTED AT A RATE OF 75 LBS./ACRE (BY HAND) OR 85 LBS./ACRE (BY HYDROSEEDER). ANNUAL OR PERENNIAL RYEGRASS SHALL BE PLANTED AT A RATE OF 75 LBS./ACRE (BY HAND) OR 85 LBS./ACRE (BY HYDROSEEDER). LIMESTONE AND A SLOW RELEASE FERTILIZER SHALL BE APPLIED ACCORDING TO SOIL TEST RECOMMENDATIONS OFFERED BY THE UNIVERSITY OF MASSACHUSETTS OR OTHER STATE UNIVERSITY SOIL LAB. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, SLOW RELEASE FERTILIZER MAY BE APPLIED AT THE RATE OF 650 POUNDS PER ACRE OF 10-10-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS: 2 TONS PER ACRE (OR 90 POUNDS PER 1,000 SQUARE FEET).

PERMANENT VEGETATIVE COVER SHALL BE APPLIED TO ALL DISTURBED AREAS THAT HAVE REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN SEVEN (7) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS PERMANENTLY CEASED. THE RECOMMENDED PERMANENT SEEDING DATES ARE APRIL 1 TO JUNE 15 AND AUGUST 15 TO OCTOBER 15, DEPENDING ON THE WEATHER AND TEMPERATURES, THE RECOMMENDED FINAL SEEDING DATE MAY BE EXTENDED 15 DAYS. IF PERMANENT SEEDING CANNOT BE PERFORMED WITHIN THE RECOMMENDED SEEDING DATES, TEMPORARY SEEDING MAY BE PERFORMED TO PROTECT THE SITE UNTIL OPTIMUM SEEDING DATES ARE ACHIEVED IN THE SPRING. CONTRACTOR SHALL BE RESPONSIBLE FOR CARE, MAINTENANCE OF REPLACEMENT OF SEEDINGS AND PLANTINGS TO ENSURE VIABILITY WITHIN THE WARRANTY/CORRECTION PERIOD, INCLUDING BUT NOT LIMITED TO WATERING AND PROTECTION FROM VEHICLE/EQUIPMENT TRAFFIC.

PERMANENT VEGETATIVE COVER WILL CONSIST OF CONSERVATION AND WETLAND SEED MIXES (FREE OF INVASIVE SPECIES) IN THE ON-SITE LOCATIONS SPECIFIED ON THE "VEGETATIVE RESTORATION PLAN" IN ADDITION TO TREE AND SHRUB PLANTINGS ALSO SPECIFIED ON THAT PLAN. REFER TO THE "VEGETATIVE RESTORATION PLAN" FOR SEED MIXTURE COMPOSITIONS, APPLICATION RATES, AND TREE/SHRUB SPACING REQUIREMENTS.

THE OFF-SITE TEMPORARY CONSTRUCTION STAGING/STORAGE AREA SHALL BE RESTORED TO THE SATISFACTION OF THE PROPERTY OWNER. CLEARED, GRAVEL AREAS WILL BE RESTORED AS GRAVEL AREAS WHILE ANY DISTURBED VEGETATED AREAS WILL BE RESTORED WITH CONSERVATION SEED MIX AS INDICATED ON THE "VEGETATIVE RESTORATION PLAN".

LIMESTONE AND A SLOW RELEASE FERTILIZER SHALL BE APPLIED ACCORDING TO SOIL TEST RECOMMENDATIONS OFFERED BY SOIL TESTING LABORATORIES AT THE UNIVERSITY OF MASSACHUSETTS OR OTHER STATE UNIVERSITY SOIL LAB. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, SLOW RELEASE FERTILIZER MAY BE APPLIED AT THE RATE OF 650 POUNDS PER ACRE OF 10-10-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS: 2 TONS PER ACRE (OR 90 POUNDS PER 1,000 SQUARE FEET).

IF SEEDING CANNOT BE COMPLETED IMMEDIATELY OR WITHIN THE RECOMMENDED SEEDING DATES FOR TEMPORARY OR PERMANENT SEEDING, USE TEMPORARY MULCHING TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD. TEMPORARY MULCHING SHOULD BE PERFORMED AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY CEASED UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS.

ALL MULCHES MUST BE INSPECTED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER FOR FAILURES DURING THE PERIOD OF TIME THAT THEY ARE REQUIRED UNTIL THE SEED HAS GERMINATED AND SLOPES ARE STABILIZED. WHERE EROSION IS OBSERVED, ADDITIONAL MULCH MUST BE APPLIED. IF NETTING IS USED, THE NET SHALL BE INSPECTED AFTER RAINFALLS FOR DISLOCATION OR FAILURE. IF WASHOUTS OR BREAKAGE OCCUR, THE NET MUST BE REINSTALLED AS NECESSARY AFTER REPAIRING DAMAGE TO SLOPE. INSPECTIONS SHALL TAKE PLACE UNTIL GRASSES ARE FIRMLY ESTABLISHED. GRASS IS CONSIDERED TO BE FIRMLY ESTABLISHED AT A MINIMUM HEIGHT OF THREE (3) INCHES.

STRAW OR HAY MULCH, WOOD FIBER MULCH, AND HYDROMULCH ARE RECOMMENDED. STRAW OR HAY MULCH SHOULD BE APPLIED AT A RATE OF 2 TONS PER ACRE, WOOD FIBER MULCH SHOULD BE APPLIED AT A RATE OF 6 CUBIC YARDS PER 1000 SQUARE FEET, OR HYDROMULCH APPLIED AT A RATE OF 1,500 POUNDS PER ACRE. WOOD FIBER MULCH SHOULD NOT BE APPLIED IN THE WINTER OR DURING HOT, DRY WEATHER. STRAW OR HAY MULCH MUST BE ANCHORED IMMEDIATELY AFTER SPREADING TO PREVENT WINDBLOWING. MULCH ANCHORING SHOULD ALSO BE USED ON SLOPES GREATER THAN THREE (3) PERCENT AND CONCENTRATED FLOW AREAS SUCH AS DIVERSION AND WATERWAY CHANNELS.

NO UNDISTURBED AREAS WILL BE CLEARED OF EXISTING VEGETATION AFTER OCTOBER 15TH OF ANY CALENDAR YEAR OR DURING ANY PERIOD OF FULL OR LIMITED WINTER SHUTDOWN. ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR WILL BE SEEDED OR PROTECTED BY THAT DATE. ANY SUCH AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION, AS DETERMINED BY THE ENGINEER OR ENVIRONMENTAL INSPECTOR, BY NOVEMBER 15 OF ANY CALENDAR YEAR, MUST BE STABILIZED THROUGH THE USE OF EROSION CONTROL BLANKETS OR STRAW MULCH. IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM OCTOBER 15 THROUGH APRIL 15, CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOIL MUST BE DESTABILIZED WITHIN 5 WORKING DAYS.

INSTALL TEMPORARY EROSION CONTROL BLANKETING ON ANY DISTURBED SLOPES STEEPER THAN 3(HORIZONTAL):1(VERTICAL).

INSPECT ANY TEMPORARY EROSION CONTROL BLANKETS AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER FOR FAILURES DURING THE PERIOD OF TIME THAT THEY ARE REQUIRED UNTIL THE SLOPE IS STABILIZED. IF EROSION OR SEDIMENT CONTROL FAILURE HAS OCCURRED WHEN (1) SOILS AND/OR SEED HAVE WASHED AWAY FROM THE BLANKET AND THE SOIL SURFACE CAN BE EXPECTED TO CONTINUE TO ERODE AT AN ACCELERATED RATE, AND/OR (2) THE BLANKET HAS BECOME DISLOADED FROM THE SOIL SURFACE OR IS TORN, IF WASHOUTS OR BREAKOUTS OCCUR, REINSTALL THE BLANKET AFTER REGRADING AND RESEEDING, ENSURING THAT BLANKET INSTALLATION MEETS DESIGN SPECIFICATIONS. WHEN RETIATIVE FAILURES OCCUR AT THE SAME LOCATION, REVIEW CONDITIONS AND LIMITATIONS FOR USE AND DETERMINE IF DIVERSIONS, STONE CHECK DAMS OR OTHER MEASURES ARE NEEDED TO REDUCE FAILURE RATE. REPAIR ANY DISLOADED OR FAILED BLANKETS IMMEDIATELY WITHIN ONE WORK DAY. AFTER THE TURF HAS BECOME ESTABLISHED, INSPECT TURF ANNUALLY OR AFTER MAJOR STORM EVENTS.

INSPECT SOIL-FILLED, STONE SLOPE ARMOR PROTECTION PERIODICALLY TO DETERMINE IF SCOUR HAS OCCURRED BENEATH THE STONE OR FILTER BLANKET OR DISLOADED ANY OF THE STONE OR FILTER BLANKET MATERIALS. ONCE A STONE SLOPE PROTECTION INSTALLATION HAS BEEN COMPLETED, IT SHOULD REQUIRE VERY LITTLE MAINTENANCE. PERIODIC REMOVAL OF WOODY VEGETATION (E.G. ANNUAL) MAY BE REQUIRED TO MAINTAIN THE INTEGRITY OF THE RIPRAP. IF SLUFFING OR DISPLACEMENT OCCURS, CONDUCT AN ENGINEERING ANALYSIS TO DETERMINE THE CAUSE OF FAILURE AND WATER FLOW, EXCESSIVE SEEPAGE, DEEP SLOPE FAILURE OR SURFICIAL STRUCTURAL FAILURE SHOULD BE INVESTIGATED BY AN ENGINEER. REPAIR FAILED AREAS AND/OR IMPLEMENT ALTERNATE MEASURES TO OBTAIN STABILITY.

WASTE DISPOSAL: MATERIALS WHICH COULD BE A POTENTIAL SOURCE OF STORMWATER POLLUTION SUCH AS GASOLINE, DIESEL FUEL, HYDRAULIC OIL, ETC. SHALL BE STORED AT THE END OF EACH DAY IN A STORAGE TRAILER OR COVERED LOCATION AND TAKEN OFF-SITE AND PROPERLY DISPOSED OF. ALL TYPES OF WASTE GENERATED AT THIS SITE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH STATE LAW AND/OR REGULATIONS.

CONTROL OF ALLOWABLE NON-STORMWATER DISCHARGES: IF ALLOWABLE NON-STORM WATER DISCHARGES ARE OCCURRING AT THE SITE, SUCH DISCHARGES SHALL BE VISUALLY OBSERVED AND RECORDED AS OUTLINED BELOW. THE LIST OF EXPECTED SOURCES OF ALLOWABLE NON-STORM WATER DISCHARGES FOR THIS PROJECT ARE AS FOLLOWS: (1) DISCHARGE FROM VEHICLE WASHDOWN WHERE NO DETERGENTS ARE USED, (2) EXTERNAL BUILDING WASHDOWN WHERE NO DETERGENTS ARE USED, (3) THE USE OF WATER TO CONTROL DUST, (4) SEED/VEGETATION WATERING, (5) POTABLE WATER, AND (6) FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS SUCH AS SOLVENTS OR CONTAMINATED BY CONTACT WITH SOILS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAS OCCURRED.

GOOD HOUSEKEEPING: THE PROJECT SITE SHALL PROVIDE FOR THE MINIMIZATION OF EXPOSURE OF CONSTRUCTION DEBRIS (INCLUDING, BUT NOT LIMITED TO, INSULATION, WRING, PAINTS AND PAINT CANS, SOLVENTS, WALL BOARD, ETC.) TO PRECIPITATION BY MEANS OF DISPOSAL AND/OR PROPER SHELTER OR COVER. CONSTRUCTION WASTE MUST BE PROPERLY DISPOSED OF IN ORDER TO AVOID EXPOSURE TO PRECIPITATION AT THE END OF EACH WORKING DAY.

INSPECTION OF PERIMETER SEDIMENT CONTROL BARRIERS (INCLUDING THOSE ENCOMPASSING SOIL STOCKPILE AREAS) SHALL BE MADE AFTER EACH STORM EVENT AND REPAIR OR REPLACEMENT SHOULD BE MADE PROMPTLY AS NEEDED. CLEANOUT OF ACCUMULATED SEDIMENT BEHIND THE PERIMETER SEDIMENT CONTROL BARRIERS IS NECESSARY IF ONE-THIRD OF THE ORIGINAL HEIGHT OF THE SEDIMENT CONTROL BARRIERS BECOMES FILLED WITH SEDIMENT.

GROUT WASHOUT AND VEHICLE/EQUIPMENT FUELING ACTIVITIES MUST BE PERFORMED WITHIN A PORTION OF THE TEMPORARY STAGING AND STORAGE AREA ON PARCEL 008-023 THAT IS 50 FEET OUTSIDE OF JURISDICTIONAL WETLANDS.

SPILL PREVENTION AND RESPONSE EQUIPMENT SHALL BE LOCATED ON ALL CONSTRUCTION EQUIPMENT OPERATED WITHIN THE PROJECT'S LIMIT OF DISTURBANCE.

ANY EXISTING STORMWATER DRAINAGE STRUCTURES WHICH MAY BE SUBJECT TO SEDIMENTATION PROCESSES, INCLUDING INLET/OUTLET STRUCTURES AND OUTFALL AREAS SHALL BE PROTECTED WITH SILT SACKS OR OTHER APPROVED MEASURES THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.

THE PROPER INLET PROTECTION DEVICES SHALL BE INSTALLED AND MAINTAINED WHERE STORM DRAIN INLETS ARE TO BE MADE OPERATIONAL BEFORE PERMANENT STABILIZATION OF ANY DISTURBED DRAINAGE AREA.

CONTRACTOR SHALL FURNISH, INSTALL, TEST, OPERATE, MONITOR, AND MAINTAIN AN ACTIVE GROUNDWATER DEWATERING SYSTEM (E.G., SUMP PUMPS, DEWATERING SYSTEM), AND WATERIVER ADDITIONAL BULKHEADS, CULVERTS, DITCHING, PUMPS AND DIKING OR OTHER APPROVED EQUIPMENT, MATERIALS AND METHODS PRIOR TO CONSTRUCTION.

INSTALL A DEWATERING SYSTEM TO KEEP SUBGRADES FIRM AND UNYIELDING, AND CONVEY GROUNDWATER AWAY FROM EXCAVATIONS AND WORK AREA. MAINTAIN DEWATERING UNTIL STRUCTURES, PIPES AND APPURTENANCES WILL NOT BE DAMAGED BY SURFACE OR GROUNDWATER. MAINTAIN UNTIL DEWATERING IS NO LONGER REQUIRED. ALL SUCH DEWATERING MATERIALS AND EQUIPMENT SHALL BE INSTALLED, OPERATED AND MAINTAINED ALONG WITH APPROPRIATE EROSION AND SEDIMENT CONTROLS TO ENSURE THAT NO SEDIMENT IS DISCHARGED TO BLACKSTONE RIVER.

PUMP DISCHARGES SHALL BE MANAGED SUCH THAT THESE DO NOT CAUSE EROSION OF SOILS. PUMP INTAKES SHALL BE FLOATED TO MINIMIZE SEDIMENTATION. PUMPED WATER SHALL BE DISCHARGED INTO A DEWATERING AREA WHICH IS SURROUNDED BY A TIGHT ENCLOSURE OF SILT FENCE AND/OR HAY BALES OR OTHER CONTROL DEVICE (I.E., SILT BAG), SO AS TO FILTER MUDDY WATER PRIOR TO ITS RETURN TO THE WATERCOURSE. THE DISCHARGE OF THE PUMPED WATER SHALL BE ONTO AN EROSION FREE SURFACE SUCH AS A RIPRAP APRON SO AS TO AVOID ADDITIONAL SUSPENSION OF SOIL. WATER SHALL ONLY BE ALLOWED TO DISCHARGE DIRECTLY INTO THE WATERCOURSE AFTER IT IS RUNNING CLEAR WITHOUT ANY SUSPENDED SEDIMENT OR SILT.

### SPILL PREVENTION AND EMERGENCY RESPONSE NOTES

- WASTE DISPOSAL: MATERIALS WHICH COULD BE A POTENTIAL SOURCE OF STORMWATER POLLUTION SUCH AS GASOLINE, DIESEL FUEL, HYDRAULIC OIL, ETC. SHALL BE STORED AT THE END OF EACH DAY IN A STORAGE TRAILER OR COVERED LOCATION AND TAKEN OFF-SITE AND PROPERLY DISPOSED OF. ALL TYPES OF WASTE GENERATED AT THIS SITE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH STATE LAW AND/OR REGULATIONS.
- ANY INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE STORMWATER DISPOSAL SYSTEM REQUIRES IMMEDIATE NOTIFICATION TO THE RIDEM OIL POLLUTION CONTROL PROGRAM AT 401-277-2284, AS PER THE OIL POLLUTION CONTROL PROGRAM. URGENT NON-WORKING HOURS NOTIFICATION OF SPILLS CAN BE MADE TO THE RIDEM DIVISION OF ENFORCEMENT AT 401-277-3070 (THE 24-HOUR EMERGENCY RESPONSE PHONE NUMBER).
- ANY INCIDENT OF GROUNDWATER CONTAMINATION RESULTING FROM THE IMPROPER DISCHARGE OF POLLUTANTS TO THE STORMWATER DISPOSAL SYSTEM SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AS WELL AS ANY OTHER PARTIES THAT THE RIDEM DIVISION DETERMINES TO BE RESPONSIBLE FOR THE CONTAMINATION. PURSUANT TO STATE LAWS AND REGULATIONS, THE RIDEM MAY REQUIRE THE PROPERTY OWNER AND OTHER RESPONSIBLE PARTIES TO REMEDIATE ANY INCIDENTS THAT MAY ADVERSELY IMPACT GROUNDWATER QUALITY.
- THE CONTRACTOR WILL CREATE A MAINTENANCE LOG, SHOWING THE DATE, TIME, NAME OF INSPECTOR, INSPECTION COMMENTS, AND ANY ACTIONS TAKEN BASED ON THE ABOVE REFERENCE SCHEDULE.

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|     |      |             |          | SCALE:<br>HORIZ.: 1" = 30'<br>VERT.: -<br>DATUM:<br>HORIZ.: -<br>VERT.: -<br> | <b>FUSS &amp; O'NEILL</b><br>3 DAVOL SQUARE, SUITE C200<br>PROVIDENCE, RI 02903<br>401.861.3070<br>www.fando.com | RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT<br>GENERAL NOTES AND LEGEND<br>BLACKSTONE RIVER FISH PASSAGE RESTORATION PROJECT<br>MAIN STREET AND SLATER MILL DAMS<br>RHODE ISLAND | PROJ. No.: 20170570.B30<br>DATE: DECEMBER 2025<br><b>CN-001</b> |
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**TIDE TABLE FOR SEEKONK RIVER**

|          |                     |
|----------|---------------------|
| MHH EL.  | = 3.5 FT. (NAVD88)  |
| MHW EL.  | = 2.2 FT. (NAVD88)  |
| MLW EL.  | = -2.2 FT. (NAVD88) |
| MLLW EL. | = -3.0 FT. (NAVD88) |

**NOTES:**

- WETLAND FLAGGING ALONG THE RIVER WITHIN THE PROJECT LIMITS WAS PERFORMED BY APPLIED BIO-SYSTEMS, INC. AND FIELD LOCATED BY FUSS & O'NEILL, INC. USING A GPS ON JULY 11, 2024. THE FOLLOWING TABLE DEPICTS THE WETLANDS IDENTIFIED AND THEIR RESPECTIVE JURISDICTIONAL BUFFERS.
- | FLAG SERIES   | RIDEM/CRMC CLASSIFICATION | REGULATORY SETBACK             |
|---------------|---------------------------|--------------------------------|
| WF#100-WF#112 | FORESTED WETLAND          | 25-FOOT WETLAND BUFFER ZONE    |
| NOT FLAGGED   | RIVER (>10')              | 150-FOOT RIVERBANK BUFFER ZONE |
- WETLAND BOUNDARIES WITHIN THE PROJECT LIMITS WERE RE-EVALUATED BY LEC ENVIRONMENTAL CONSULTANTS, INC. ON SEPTEMBER 5, 2025.
  - TWO-FOOT CONTOURING SHOWN ADJACENT TO PROJECT SITE AND IN THE IMMEDIATE PROJECT AREA ARE APPROXIMATE ONLY AND WERE OBTAINED FROM THE RIGS GEOGRAPHIC INFORMATION SYSTEM (GIS) DATABASE.
  - THE BLACKSTONE AND SEEKONK RIVERS ARE GREATER THAN 10 FEET IN WIDTH AND SHALL HAVE AN ASSOCIATED 150-FOOT RIVERBANK WETLAND THAT WILL EXTEND 150 FEET FROM BOTH SIDES OF THE RIVER'S EDGE.
  - THE BLACKSTONE RIVER UPSTREAM OF THE MAIN STREET DAM IS CLASSIFIED AS A FRESHWATER RIVER. THE RIVER DOWNSTREAM OF MAIN STREET DAM IS CLASSIFIED AS AN ESTUARINE AND MARINE DEEPWATER HABITAT THAT IS TIDALLY INFLUENCED. THE RIVER DOWNSTREAM OF THE MAIN STREET DAM IS CLASSIFIED AS AT TYPE 4 MULTI-PURPOSE WATER.
  - A NATURAL HERITAGE AREA EXISTS WITHIN A PORTION OF THE PROJECT LIMITS; TWO SPECIES OF POTENTIAL CONCERN HAVE BEEN IDENTIFIED FOR CONSULTATIONS WITH RELEVANT AGENCIES.
  - PROPERTY BOUNDARIES ARE APPROXIMATE ONLY AND WERE OBTAINED FROM DRAWINGS PREPARED BY EA ENGINEERING SCIENCE, AND TECHNOLOGY TITLED "LOWER BLACKSTONE RIVER FISH PASSAGE PROJECT, SLATER MILL FISHWAY, PAWTUCKET, RHODE ISLAND," DATED JUNE 2012. THIS PLAN IS SUBSTANTIALLY CORRECT IN ACCORDANCE WITH A CLASS IV STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS PLAN IS NOT TO BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY AND IS SUBJECT TO SUCH CHANGES AS AN ACCURATE BOUNDARY SURVEY MAY DISCLOSE. ALL PROPERTIES WHERE WORK WILL BE PROPOSED OR ACCESS REQUIRED MUST BE VERIFIED.
  - THE SITE CONSISTS OF THE FOLLOWING BEDROCK GEOLOGY: STRATIFIED ROCK OF THE ESMOND-DEDHAM SUBTERRANE, NARRAGANSETT BAY GROUP, PENNSYLVANIAN AGE, RHODE ISLAND FORMATION.
  - 100-YEAR FLOODPLAIN WATER SURFACE ELEVATIONS (AND FLOOD PLAIN BOUNDARIES) WITHIN THE PROJECT LIMITS ARE BASED ON WATER SURFACE PROFILE DATA INCLUDED WITHIN THE FLOOD INSURANCE STUDY (FIS) FOR PROVIDENCE COUNTY, RHODE ISLAND (DATED OCTOBER 2, 2015).



Figure 18. 1969 photograph showing the remains of the open raceway section and foundation walls of the "Old Mill," view northeast (source: PHRC).



Figure 16. 1969 (NETR) aerial imagery of the Main Street bridge widening and the open raceway remains on the east side of the river in the Project area.

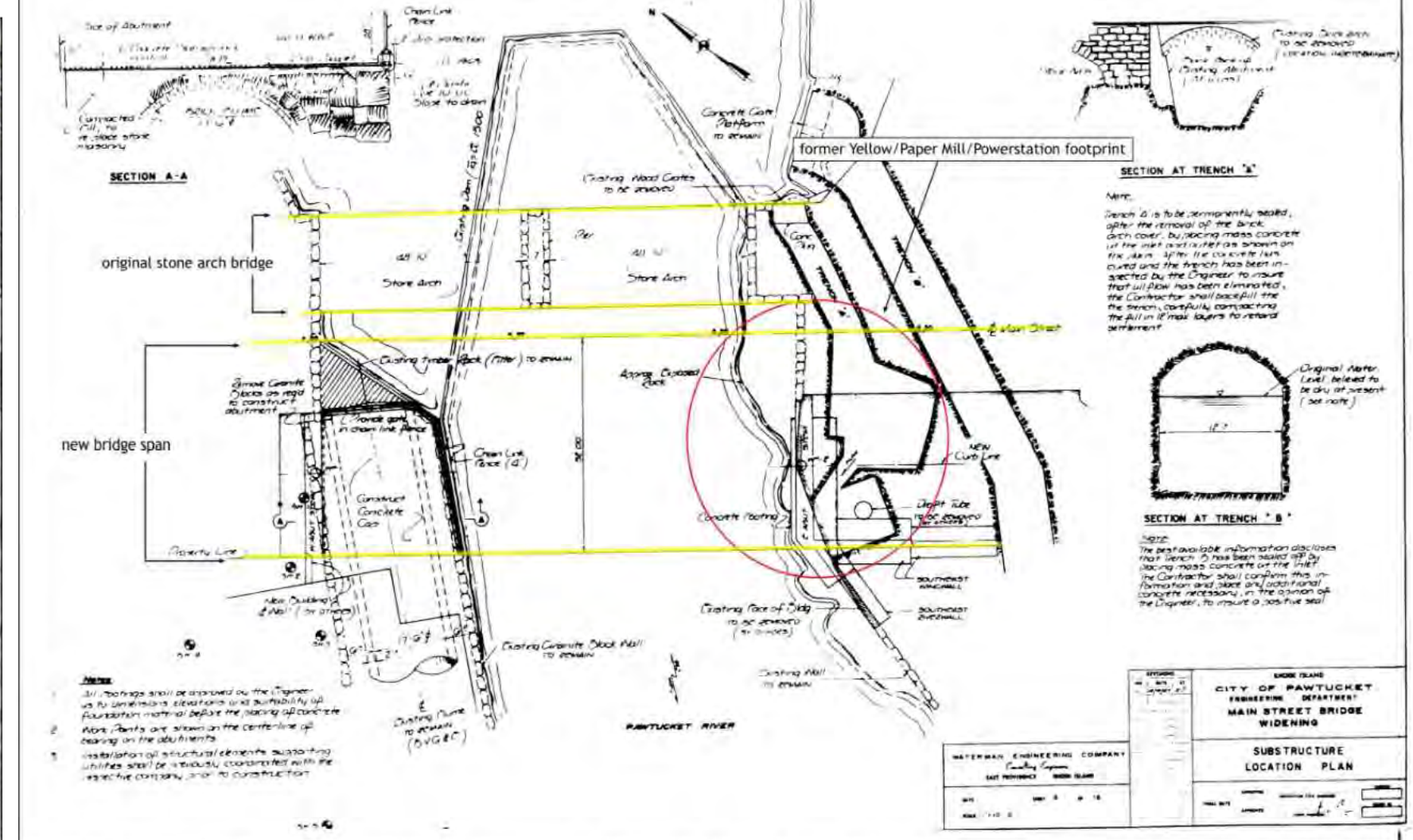


Figure 17. 1967 (Waterman Engineering Company) Substructure Location Plan for the Main Street Bridge widening showing the existing conditions within the Project area. Note the location of the trenches and the cross-sections (at right).

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SEAL

**NILS S. WILBERG**

No. 7630

REGISTERED PROFESSIONAL ENGINEER (CIVIL)

SCALE:

HORIZ.: 1" = 30'

VERT.: -

DATUM:

HORIZ.: NAD83

VERT.: NAVD88

GRAPHIC SCALE

0 15' 30' 60'

**FUSS & O'NEILL**

3 DAVOL SQUARE, SUITE C200  
PROVIDENCE, RI 02903  
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www.fando.com

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

EXISTING CONDITIONS AND WETLAND RESOURCES AREA PLAN

BLACKSTONE RIVER FISH PASSAGE RESTORATION PROJECT

MAIN STREET AND SLATER MILL DAMS

PAWTUCKET RHODE ISLAND

PROJ. No.: 20170570.B30

DATE: DECEMBER 2025

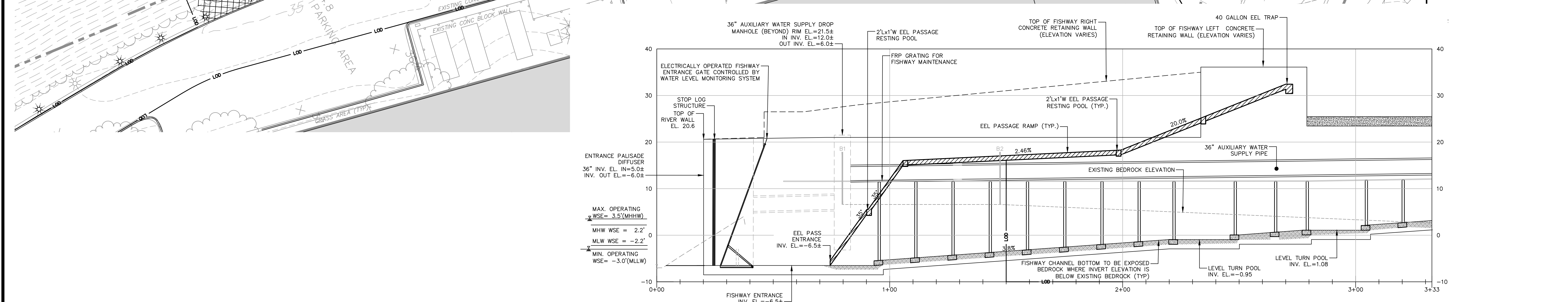
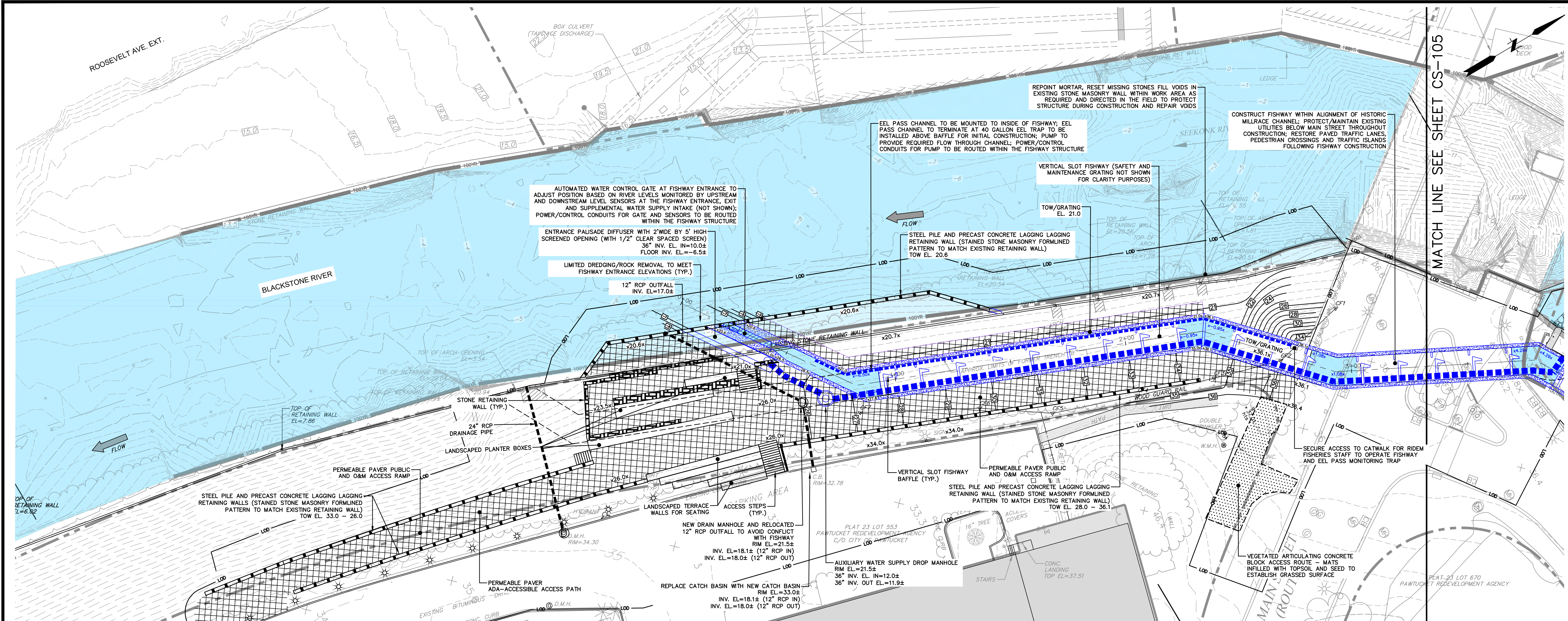
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 Nils S. Wiberg  
 No. 7630  
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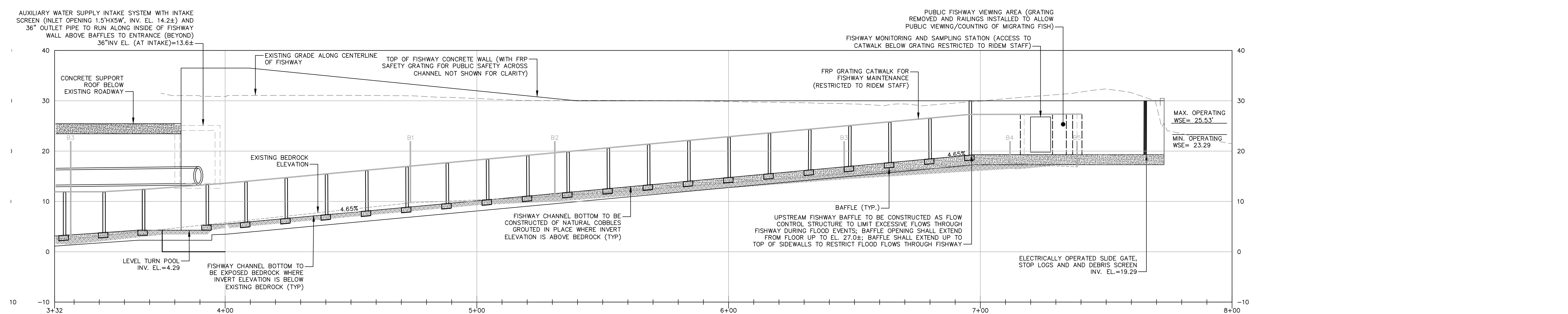
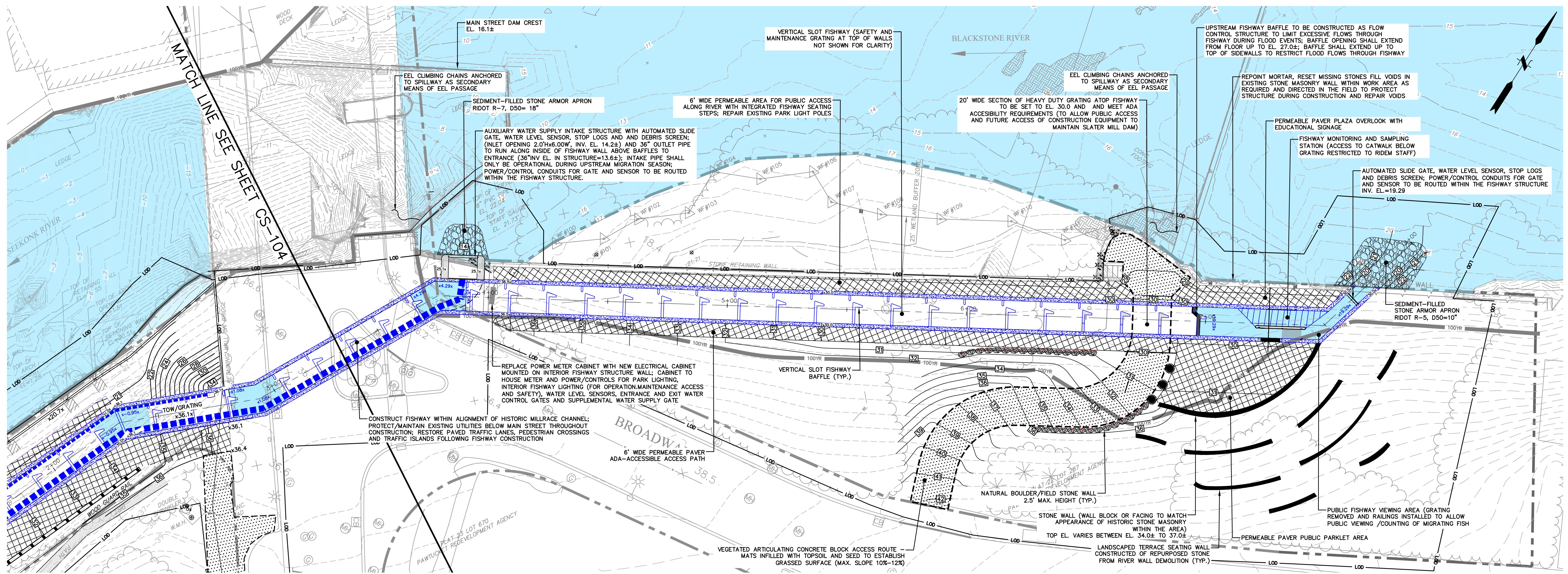
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RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
**FISHWAY PLAN AND PROFILE NO. 1**  
 BLACKSTONE RIVER FISH PASSAGE RESTORATION PROJECT  
 MAIN STREET AND SLATER MILL DAMS  
 PAWTUCKET RHODE ISLAND

PROJ. No.: 20170570.B30  
 DATE: DECEMBER 2025  
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SEAL

**NILS S. WILBERG**

No. 7630

REGISTERED PROFESSIONAL ENGINEER (CIVIL)

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| SCALE: | HORIZ.: 1" = 20' |
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| DATUM: | HORIZ.: NAD83    |
|        | VERT.: NAVD88    |
|        |                  |

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RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

FISHWAY PLAN AND PROFILE NO. 2

BLACKSTONE RIVER FISH PASSAGE RESTORATION PROJECT

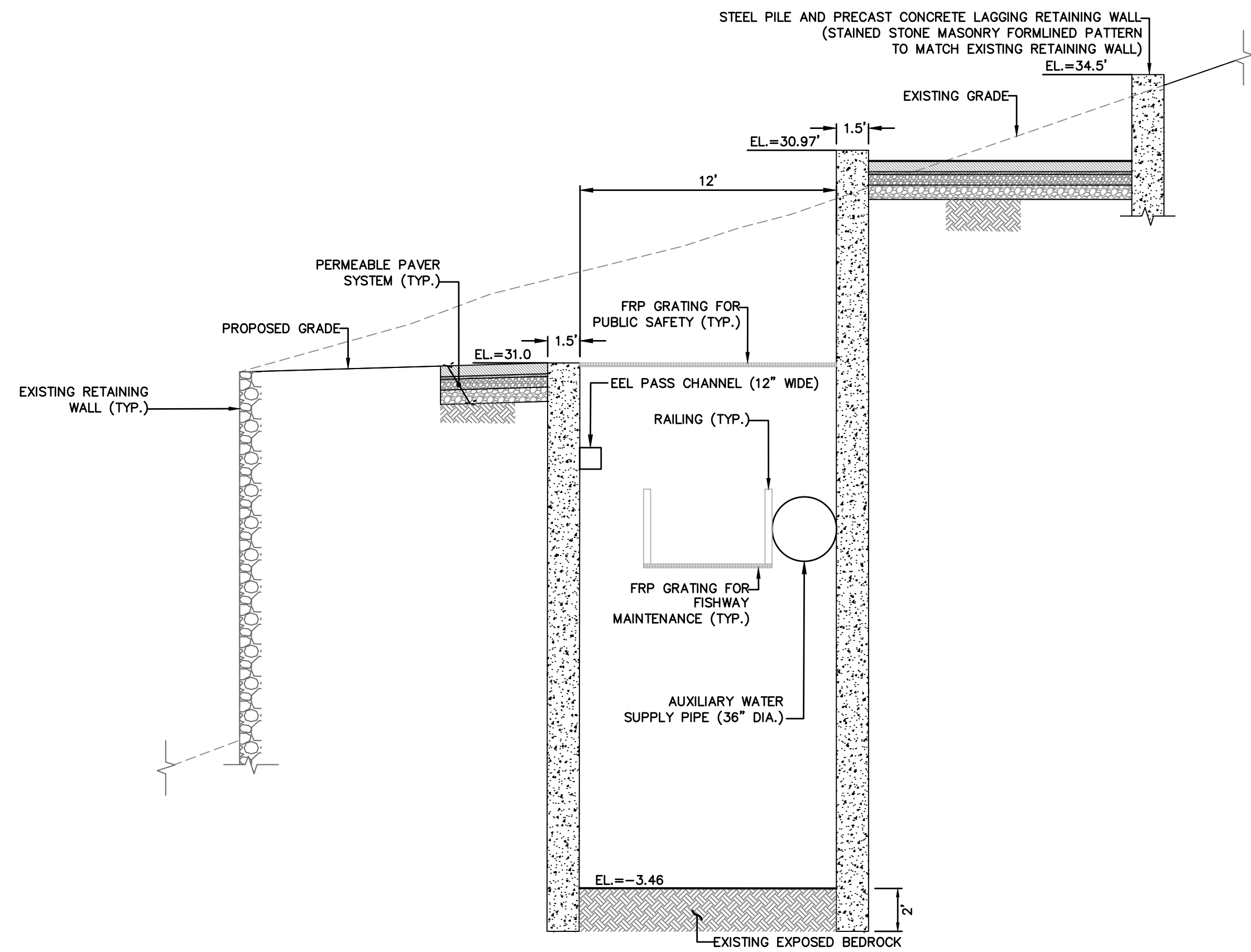
MAIN STREET AND SLATER MILL DAMS

PAWTUCKET RHODE ISLAND

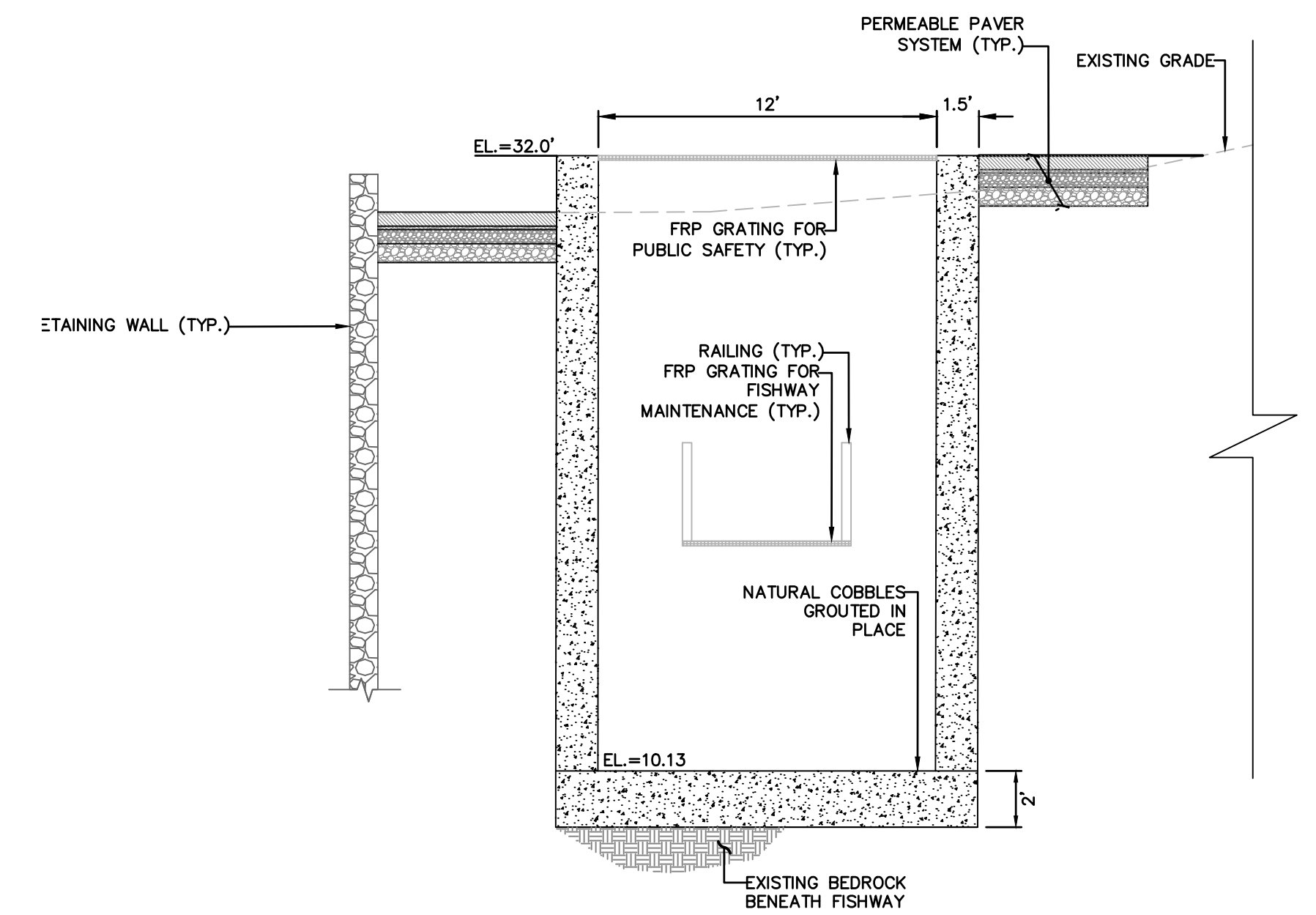
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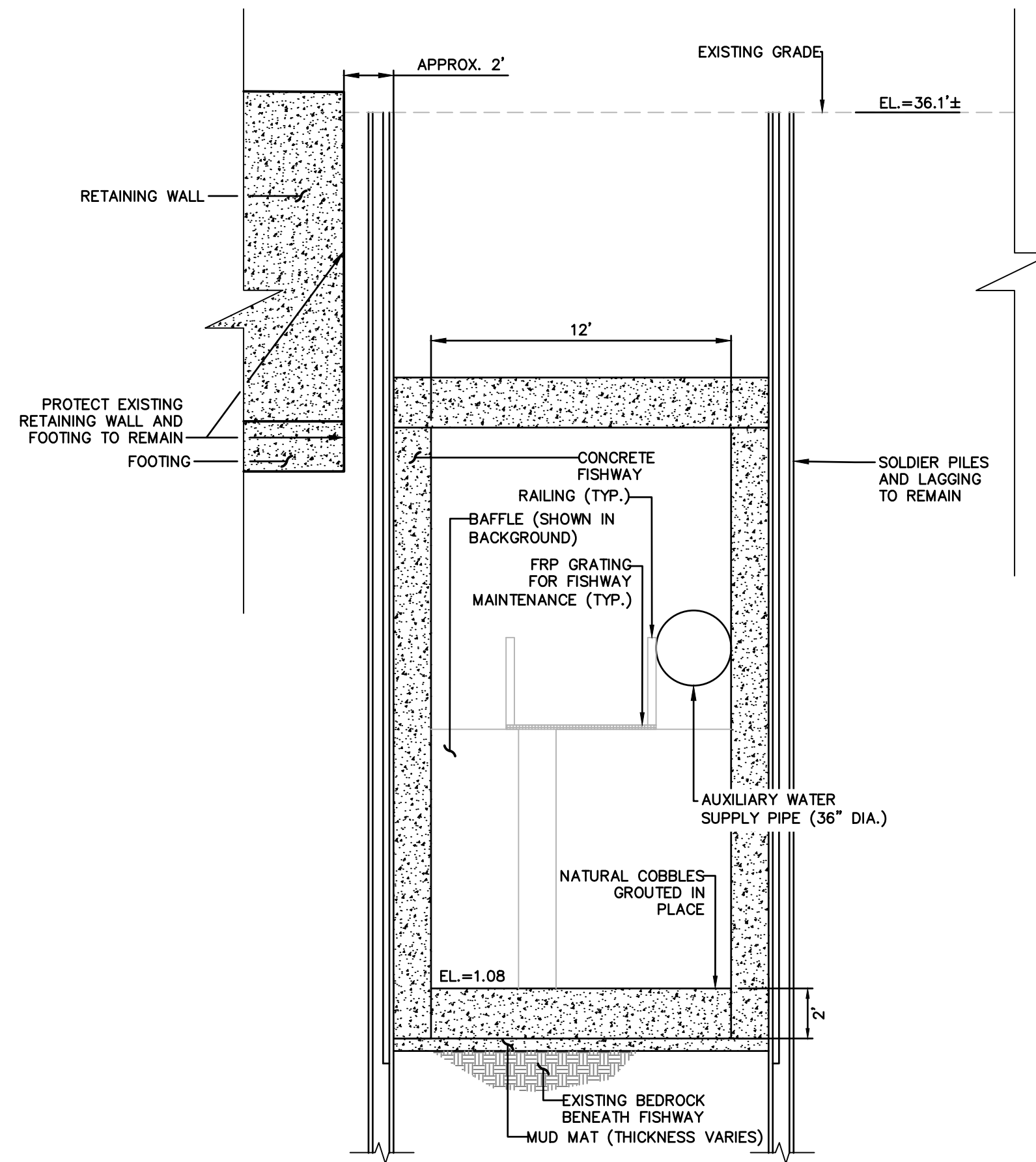
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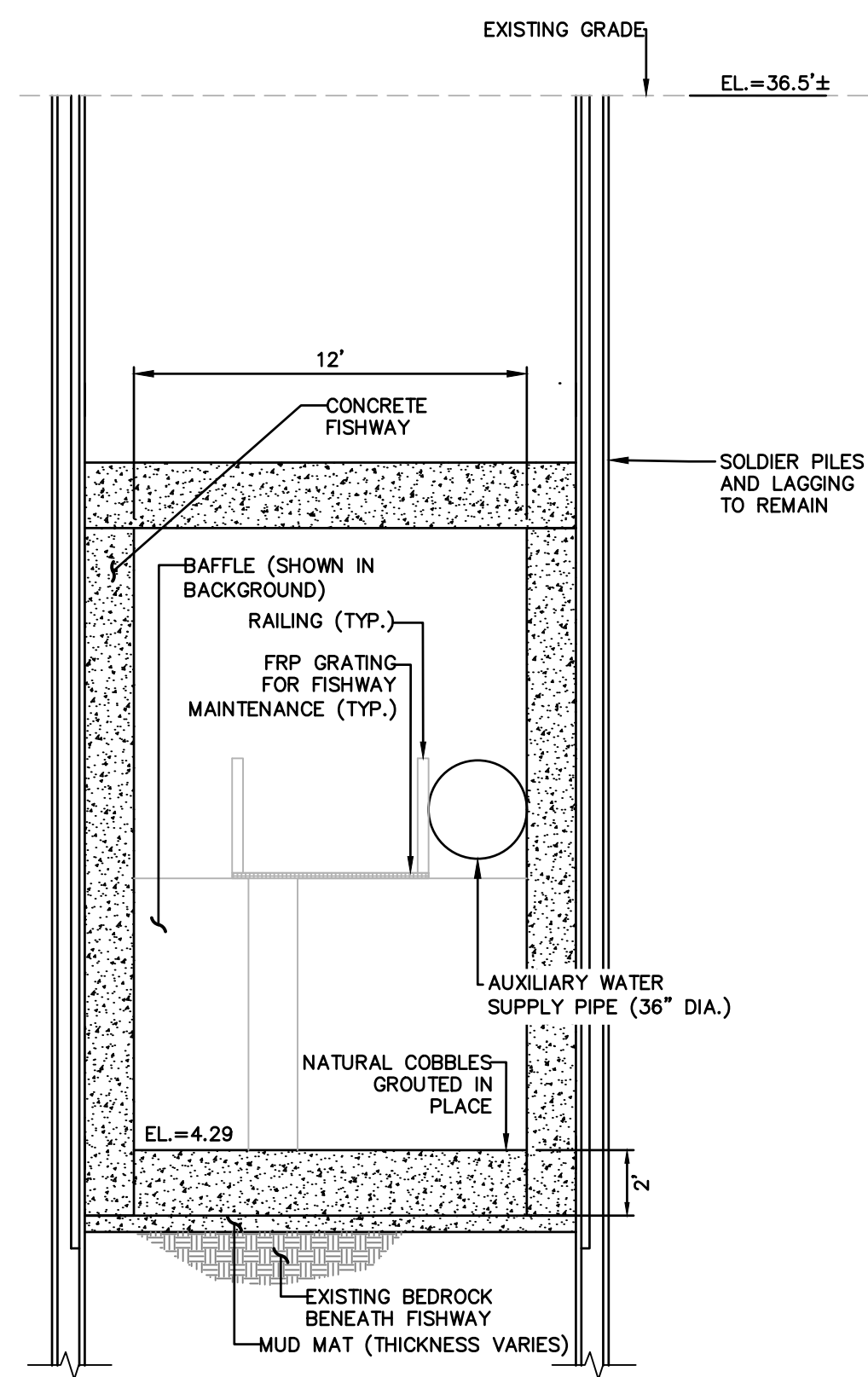
NOTE: BAFFLE NOT SHOWN FOR CLARITY PURPOSES.  
**A** STATION 1+50  
 SCALE: 1"=5'



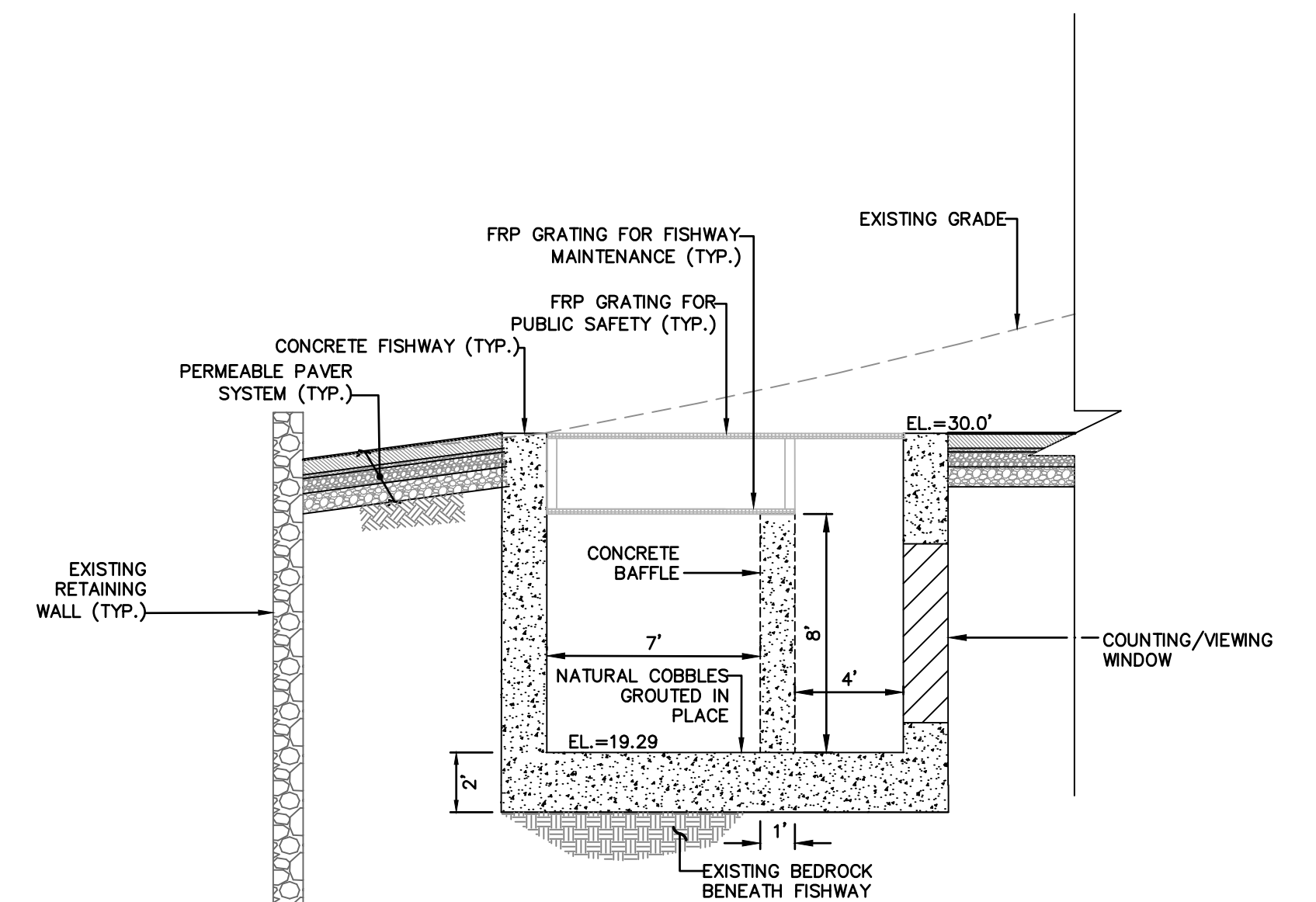
NOTE: BAFFLE NOT SHOWN FOR CLARITY PURPOSES.  
**D** STATION 5+00  
 SCALE: 1"=5'



**B** STATION 2+80  
 SCALE: 1"=5'



**C** STATION 3+75  
 SCALE: 1"=5'

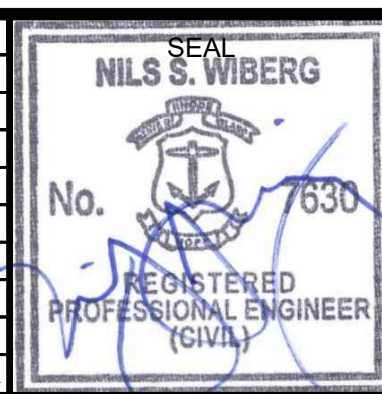


**E** STATION 7+25  
 SCALE: 1"=5'

NOT FOR CONSTRUCTION

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 PC3: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 STB/CTB: FOSTB  
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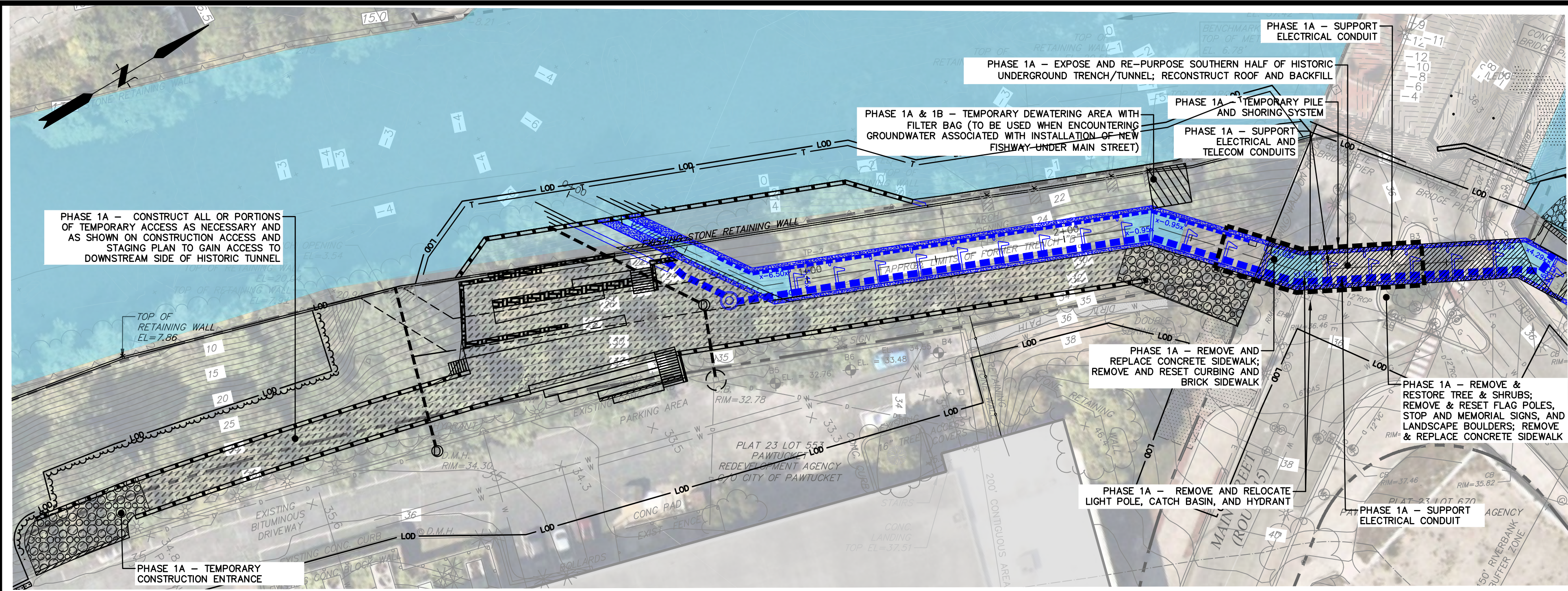
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| DATUM: | HORZ.: NAD83    |
|        | VERT.: NAVD88   |

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RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 FISH PASSAGE STRUCTURE CROSS SECTIONS  
 BLACKSTONE RIVER FISH PASSAGE RESTORATION PROJECT  
 MAIN STREET AND SLATER MILL DAMS  
 PAWTUCKET RHODE ISLAND

PROJ. No.: 20170570.B30  
 DATE: DECEMBER 2025  
**CS-106**

12/30/25



PHASE 1A  
SCALE: 1" = 30'

**PHASE 1 GENERAL CONSTRUCTION NOTES:**

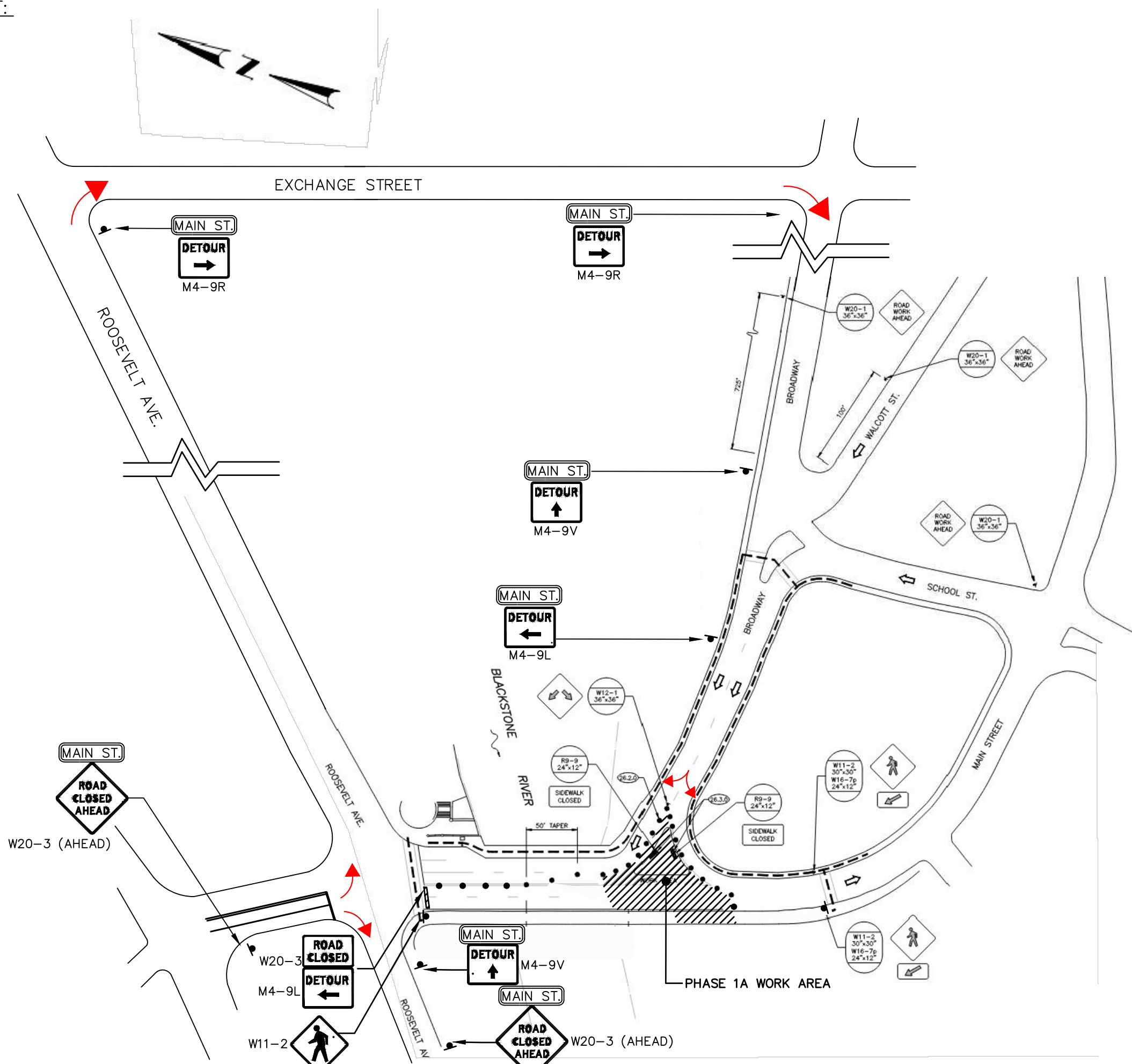
1. THE FIRST PHASE OF CONSTRUCTION WILL INCLUDE EXPOSING AND RE-PURPOSING THE HISTORIC EXISTING UNDERGROUND TRENCH/TUNNEL THAT WAS BACKFILLED DURING THE WIDENING OF THE MAIN STREET BRIDGE BACK IN 1967. THIS WILL INVOLVE A "TOP-DOWN" CONSTRUCTION APPROACH THAT WILL ALLOW THIS WORK TO BE DONE WITH MINIMAL DISRUPTION TO SURROUNDING AREAS. THIS PHASE OF WORK WILL BE BROKEN UP INTO PHASES 1A & 1B.
2. PROPOSED LAYOUTS SHOWN HEREON ARE APPROXIMATE ONLY AND ARE INTENDED TO ONLY DEPICT RELATIVE PHASES OF WORK AND GENERAL WORK AREAS. REFER TO OTHER DRAWINGS FOR SPECIFIC WORK ACTIVITIES AND LIMITS.

**PHASE 1A - CONSTRUCTION SEQUENCE, WATER CONTROL, AND TRAFFIC CONTROL MANAGEMENT:**

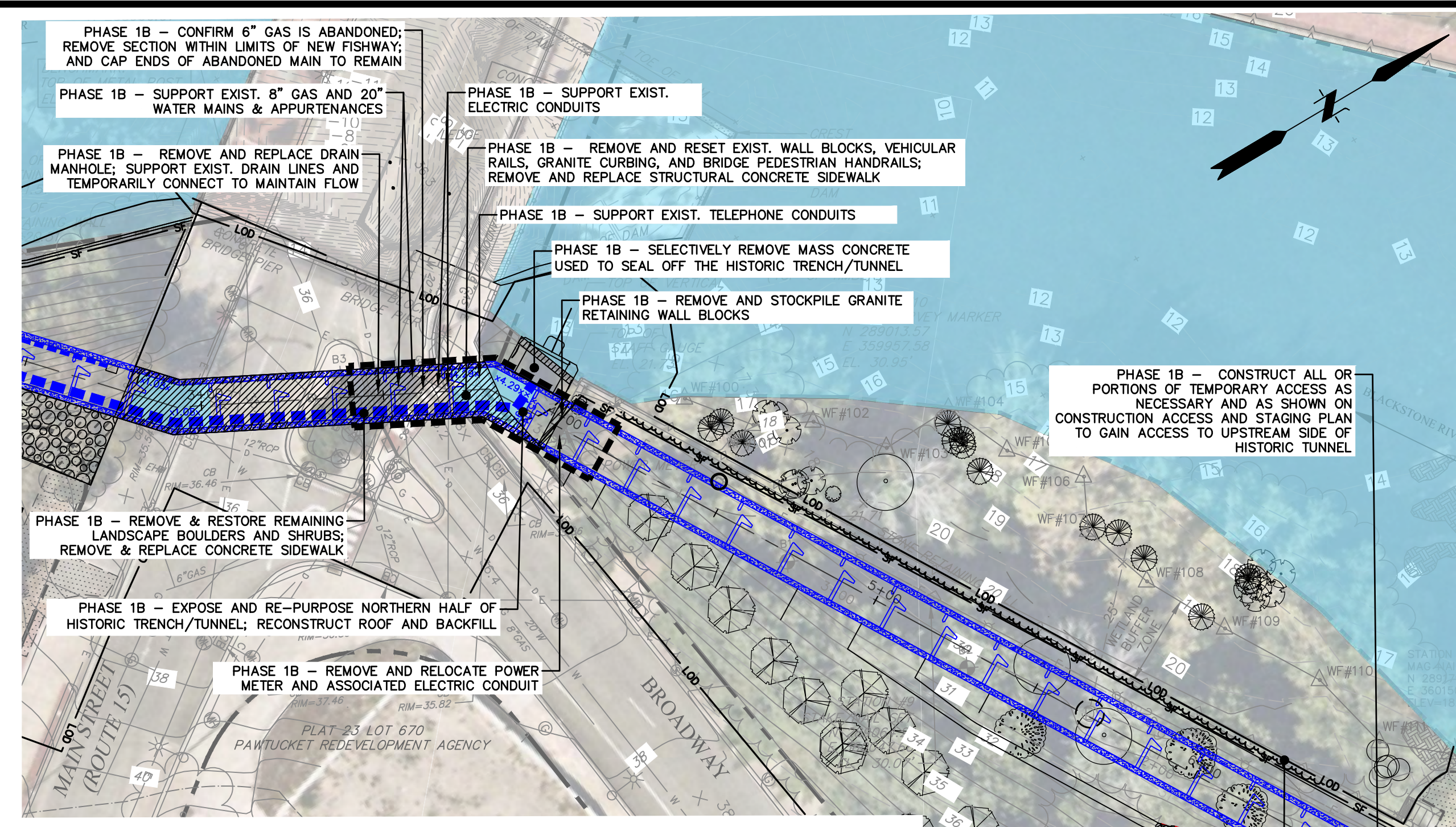
1. CONSTRUCT ALL OR PORTIONS OF TEMPORARY ACCESS AS NECESSARY AND AS SHOWN ON CONSTRUCTION ACCESS AND STAGING PLAN TO GAIN ACCESS TO DOWNSTREAM SIDE OF HISTORIC TUNNEL. CLEAR VEGETATION WITHIN LIMITS TO ALLOW FOR CONSTRUCTION OF TEMPORARY CONSTRUCTION ACCESS.
2. CLOSE SOUTHBOUND TRAVEL LANES OVER THE MAIN STREET BRIDGE. DETOUR TRAFFIC MOVING IN SOUTHERLY DIRECTION AT THE MAIN STREET/ROOSEVELT AVENUE INTERSECTION TO THE NORTH ALONG ROOSEVELT AVENUE, ACROSS THE RIVER OVER THE EXCHANGE STREET BRIDGE, AND SOUTHERLY DOWN BROADWAY BACK TOWARDS MAIN STREET.
3. REMOVE AND RELOCATE LIGHT POLE, CATCH BASIN, AND HYDRANT THAT WOULD CONFLICT WITH FISHWAY TUNNEL RECONSTRUCTION. REMOVE BRICK/CONCRETE SIDEWALK AND CURBING WITHIN LIMIT OF WORK.
4. REMOVE ANY CONCRETE SIDEWALK, CURBING, LANDSCAPE BOULDERS, FLAG POLES, SIGNS, TREES, AND SHRUBS FROM ISLAND AT THE MAIN STREET/BROADWAY INTERSECTION THAT CONFLICT WITH PROPOSED CONSTRUCTION ASSOCIATED WITH PHASE 1A. STOCKPILE CURBING, BOULDERS, FLAG POLES, AND SIGNS FOR REINSTALLATION.
5. INSTALL TEMPORARY SHEET PILE AND SHORING SYSTEM IN THE LOCATION INDICATED FOR PHASE 1A. THE PILES AND SHEETING WILL PROVIDE TEMPORARY SUPPORT FOR THE SOIL AND ROADWAY AROUND THE EXCAVATION SITE AND PREVENT IT FROM COLLAPSING INWARD. ONCE SHEETING IS IN PLACE, EXCAVATION CAN BEGIN FROM ROADWAY SURFACE. EXCAVATE SOIL IN INCREMENTS FROM THE SURFACE DOWN. AS THE EXCAVATION PROGRESSES, TEMPORARY SHORING IS INSTALLED AND UTILITIES THAT ARE ENCOUNTERED ARE SUPPORTED IN-PLACE. ONCE THE EXISTING UNDERGROUND TUNNEL IS EXPOSED AND EXCAVATION IS COMPLETE, REINFORCE/RETROFIT EXISTING TUNNEL WALLS AND FLOOR TO ACCOMMODATE NEW FISHWAY. CONSTRUCT NEW ROOF OF FISHWAY; BACKFILL AND COMPACT IN INCREMENTS UP TO THE SURFACE OF THE EXCAVATION. INSTALL DEWATERING AREA (WITH FILTER BAG) TO SOUTH OF MAIN STREET IN APPROXIMATE LOCATION SHOWN TO SERVE AS PRE-TREATMENT FOR ANY GROUNDWATER ENCOUNTERED DURING RE-ESTABLISHMENT OF EXISTING TUNNEL BENEATH ROADWAY.
6. REPAVE AND REOPEN THE MAIN STREET SOUTHBOUND TRAVEL LANES.

**GENERAL WATER CONTROL AND CONSTRUCTION SEQUENCE NOTES:**

1. PRIOR TO ANY LAND DISTURBANCE ACTIVITIES ASSOCIATED WITH EACH PHASE OF CONSTRUCTION, THE CONTRACTOR MUST PHYSICALLY MARK THE LIMITS OF DISTURBANCE AND INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE APPROVED PLANS (INCLUDING STABILIZED CONSTRUCTION ENTRANCES).
2. FOLLOWING INSTALLATION OF EROSION CONTROL MEASURES, CLEAR AND GRUB VEGETATION WITHIN THE LIMIT OF DISTURBANCE AND ESTABLISH SITE ACCESS, STAGING, AND STOCKPILING AREAS. THIS INCLUDES INSTALLATION OF TEMPORARY CONSTRUCTION EQUIPMENT/ACCESS ROUTES.
3. STABILIZE AND RESTORE ALL STAGING, CONSTRUCTION ACCESS, AND STOCKPILE AREAS TO ORIGINAL CONDITION BACK TO THEIR PRE-CONSTRUCTION CONDITIONS AND AS SPECIFIED ON THE PLANS AND WITHIN THE SPECIFICATIONS.
4. ONCE AREAS ARE SATISFACTORILY STABILIZED, REMOVE PERIMETER EROSION AND SEDIMENT CONTROL DEVICES. INSTALL ANY PERMANENT MONUMENTS FOR POST-CONSTRUCTION MONITORING, AS DIRECTED BY THE ENGINEER.



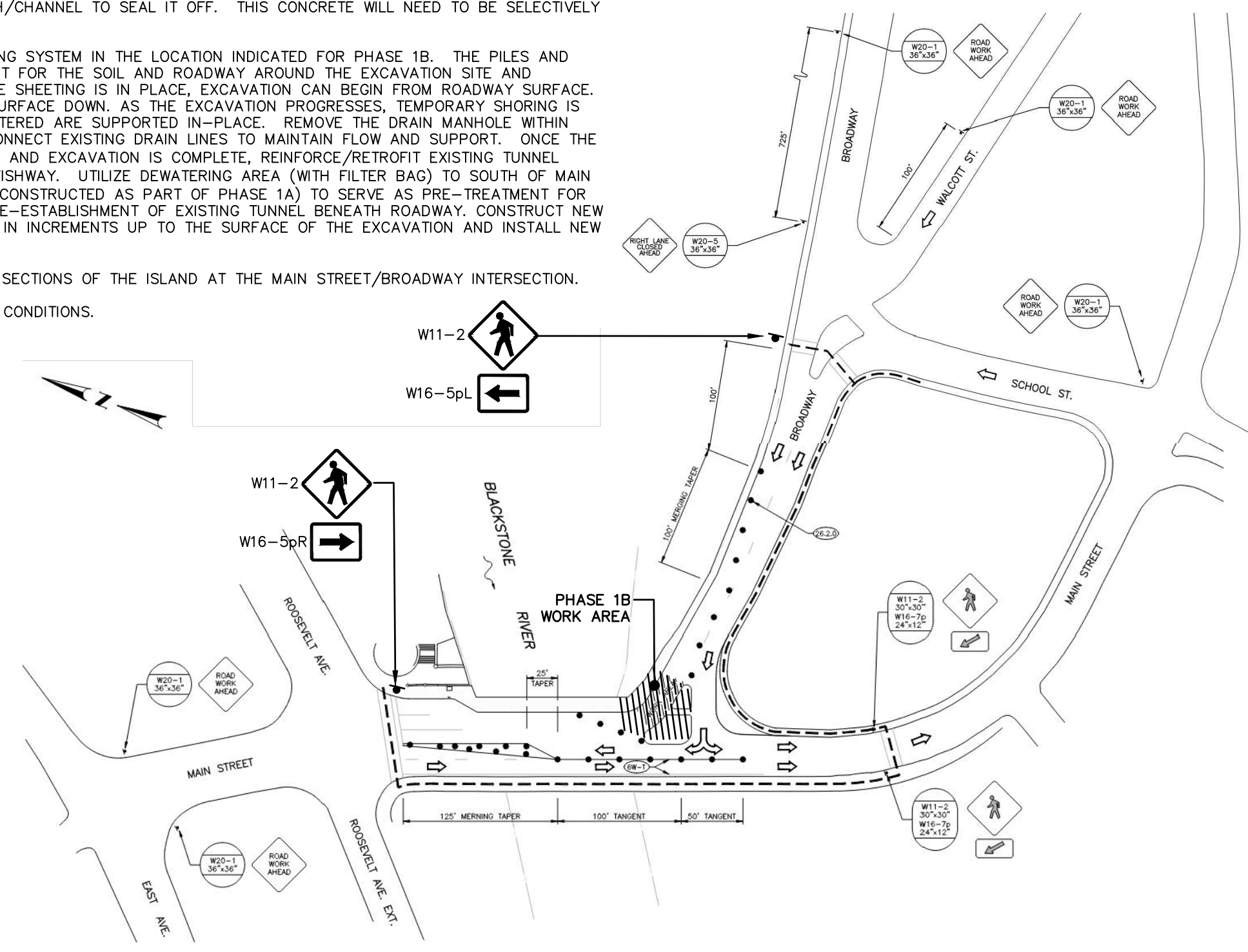
PHASE 1A - MAINTENANCE & PROTECTION OF TRAFFIC  
SCALE: 1" = 100'



PHASE 1B  
SCALE: 1" = 30'

**PHASE 1B - CONSTRUCTION SEQUENCE, WATER CONTROL, AND TRAFFIC CONTROL MANAGEMENT:**

1. CONSTRUCT ALL OR PORTIONS OF TEMPORARY ACCESS AS NECESSARY AND AS SHOWN ON CONSTRUCTION ACCESS AND STAGING PLAN TO GAIN ACCESS TO UPSTREAM SIDE OF HISTORIC TUNNEL. CLEAR VEGETATION WITHIN LIMITS TO ALLOW FOR CONSTRUCTION OF TEMPORARY CONSTRUCTION ACCESS.
2. MERGE TWO LANES OF TRAFFIC MOVING IN SOUTHERLY DIRECTION ON THE BRIDGE TO ONE LANE AND RESTRICT TRAFFIC APPROACHING THE BRIDGE FROM BROADWAY AROUND THE PHASE 1B WORK ZONE AS SHOWN IN THE PHASE 1B-MAINTENANCE & PROTECTION OF TRAFFIC DETAIL BELOW.
3. CONFIRM SECTION OF 6" GAS THAT WILL SPAN ABOVE THE FISHWAY TUNNEL IS ABANDONED; REMOVE SECTION WITHIN LIMITS OF NEW FISHWAY; AND CAP ENDS OF ABANDONED MAIN TO REMAIN.
4. REMOVE AND RELOCATE POWER METER AND ASSOCIATED ELECTRIC CONDUITS THAT WOULD CONFLICT WITH FISHWAY TUNNEL RECONSTRUCTION. REMOVE AND STOCKPILE ADJACENT GRANITE BLOCK WALL THAT WOULD ALSO CONFLICT WITH FISHWAY CONSTRUCTION.
5. REMOVE ANY REMAINING CONCRETE SIDEWALK, DETECTABLE WARNING PANELS, CURBING, LANDSCAPE BOULDERS, FLAG POLES, SIGNS, TREES, AND SHRUBS FROM THE ISLAND AT THE MAIN STREET/BROADWAY INTERSECTION THAT CONFLICT WITH PROPOSED CONSTRUCTION ASSOCIATED WITH PHASE 1B. STOCKPILE CURBING, DETECTABLE WARNING PANELS, BOULDERS, FLAG POLES, AND SIGNS FOR REINSTALLATION.
6. REMOVE AND RESET EXIST. WALL BLOCKS, VEHICULAR RAILS, GRANITE CURBING, AND BRIDGE PEDESTRIAN HANDRAILS ASSOCIATED WITH THE MAIN STREET BRIDGE WITHIN THE LIMITS OF THE PHASE 1B FISHWAY. ALSO, REMOVE AND REPLACE STRUCTURAL CONCRETE SIDEWALK TO THE NORTH OF THE BRIDGE, MASS CONCRETE WAS INSTALLED IN THE LOCATION OF THE FORMER INLET TO THE HISTORIC TRENCH/CHANNEL TO SEAL IT OFF. THIS CONCRETE WILL NEED TO BE SELECTIVELY REMOVED TO RE-ESTABLISH THE CHANNEL.
7. INSTALL TEMPORARY SHEET PILE AND SHORING SYSTEM IN THE LOCATION INDICATED FOR PHASE 1B. THE PILES AND SHEETING WILL PROVIDE TEMPORARY SUPPORT FOR THE SOIL AND ROADWAY AROUND THE EXCAVATION SITE AND PREVENT IT FROM COLLAPSING INWARD. ONCE SHEETING IS IN PLACE, EXCAVATION CAN BEGIN FROM ROADWAY SURFACE. EXCAVATE SOIL IN INCREMENTS FROM THE SURFACE DOWN. AS THE EXCAVATION PROGRESSES, TEMPORARY SHORING IS INSTALLED AND UTILITIES THAT ARE ENCOUNTERED ARE SUPPORTED IN-PLACE. REMOVE THE DRAIN MANHOLE WITHIN LIMITS OF THE SHEET PILING, TEMPORARY CONNECT EXISTING DRAIN LINES TO MAINTAIN FLOW AND SUPPORT. ONCE THE EXISTING UNDERGROUND TUNNEL IS EXPOSED AND EXCAVATION IS COMPLETE, REINFORCE/RETROFIT EXISTING TUNNEL WALLS AND FLOOR TO ACCOMMODATE NEW FISHWAY. UTILIZE DEWATERING AREA (WITH FILTER BAG) TO SOUTH OF MAIN STREET IN APPROXIMATE LOCATION SHOWN (CONSTRUCTED AS PART OF PHASE 1A) TO SERVE AS PRE-TREATMENT FOR ANY GROUNDWATER ENCOUNTERED DURING RE-ESTABLISHMENT OF EXISTING TUNNEL BENEATH ROADWAY. CONSTRUCT NEW ROOF OF FISHWAY; BACKFILL AND COMPACT IN INCREMENTS UP TO THE SURFACE OF THE EXCAVATION AND INSTALL NEW DRAIN MANHOLE.
8. RECONSTRUCT AND RESTORE THE AFFECTED SECTIONS OF THE ISLAND AT THE MAIN STREET/BROADWAY INTERSECTION.
9. REPAVE AND RESTORE TRAFFIC TO EXISTING CONDITIONS.



PHASE 1B - MAINTENANCE & PROTECTION OF TRAFFIC  
SCALE: 1" = 100'

NOT FOR CONSTRUCTION

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SEAL  
Nils S. Wiberg  
No. 7630  
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

|        |                  |
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| SCALE: | HORIZ.: AS NOTED |
|        | VERT.:           |
| DATUM: | HORIZ.: NAD83    |
|        | VERT.: NAVD88    |

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RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
CONSTRUCTION SEQUENCE AND WATER CONTROL PLAN NO. 1  
BLACKSTONE RIVER FISH PASSAGE RESTORATION PROJECT  
MAIN STREET AND SLATER MILL DAMS  
PAWTUCKET  
RHODE ISLAND

PROJ. No.: 20170570.B30  
DATE: DECEMBER 2025  
**CS-107**

12/30/25

**PHASE 2 & 3 GENERAL CONSTRUCTION NOTES:**

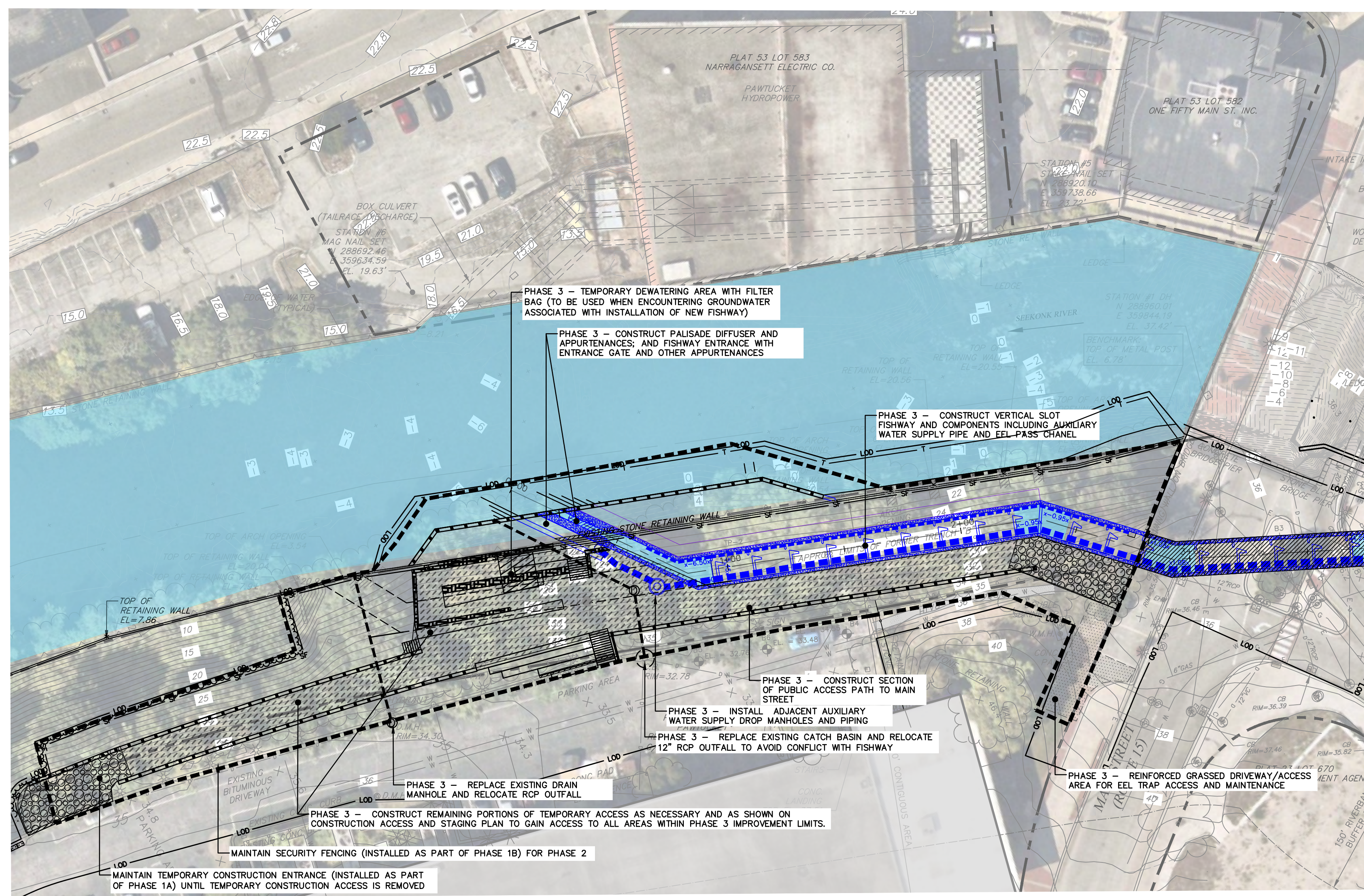
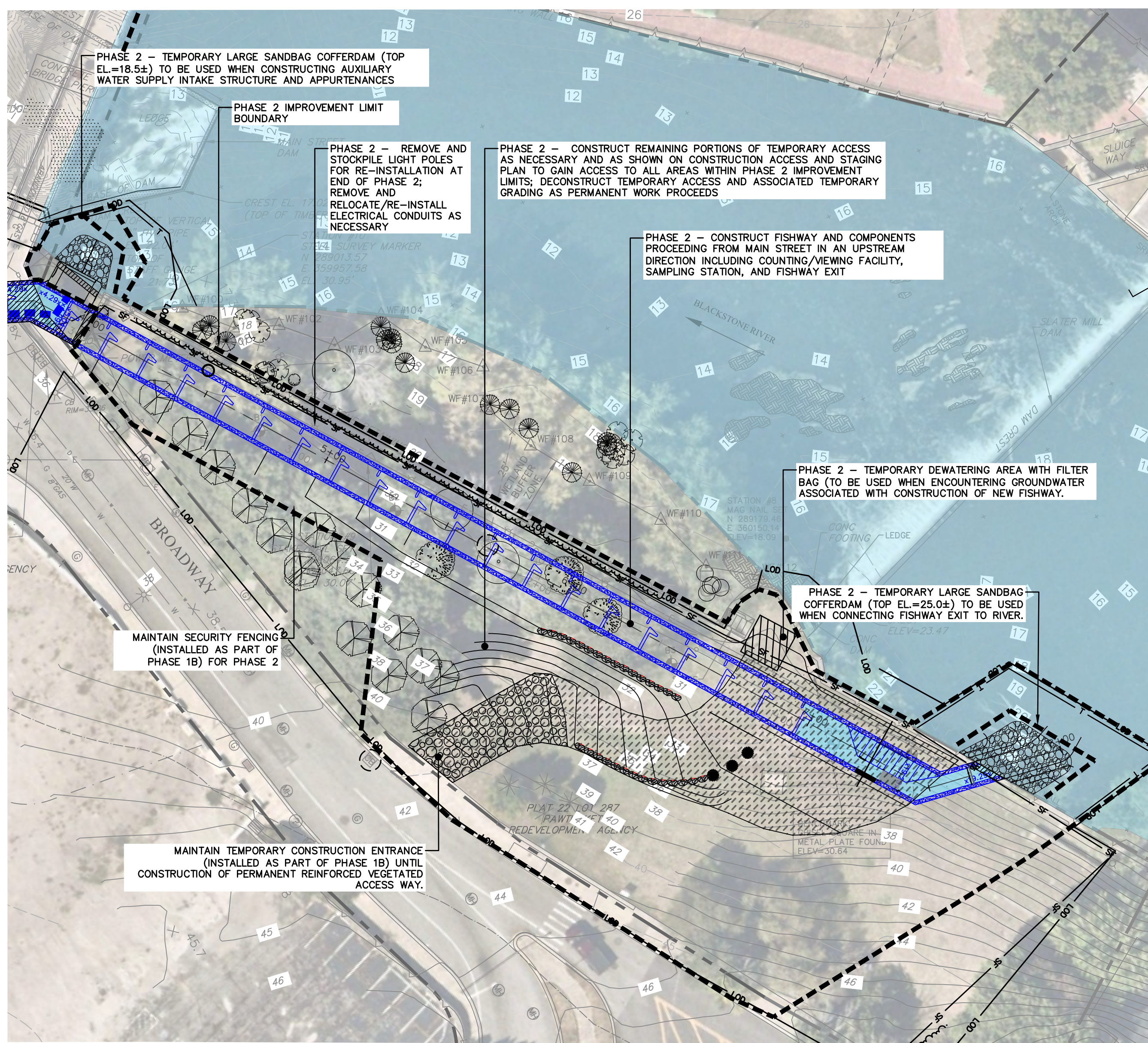
1. THE SECOND PHASE OF CONSTRUCTION WILL INCLUDE CONSTRUCTING THE UPSTREAM SECTION OF THE FISHWAY AND PUBLIC ACCESS IMPROVEMENTS TO THE NORTH OF THE MAIN STREET BRIDGE. THIS WILL INCLUDE, BUT NOT BE LIMITED TO, THE CONSTRUCTION OF THE VERTICAL SLOT FISHWAY (AND COMPONENTS), FISHWAY EXIT AT EXISTING RIVER WALL, COUNTING/VIEWING FACILITY AND SAMPLING STATION, AUXILIARY WATER SUPPLY INTAKE, EEL CLIMBING CHAINS AT BOTH DAMS, AND REINFORCED VEGETATED ACCESS WAY.
2. THE THIRD PHASE OF CONSTRUCTION WILL INCLUDE CONSTRUCTING THE DOWNSTREAM SECTION OF THE FISHWAY AND ASSOCIATED IMPROVEMENTS TO THE SOUTH OF THE MAIN STREET BRIDGE. THIS WILL INCLUDE, BUT NOT BE LIMITED TO, THE CONSTRUCTION OF THE VERTICAL SLOT FISHWAY (AND COMPONENTS), FISHWAY ENTRANCE AT EXISTING RIVER WALL INCLUDING THE PALISADE FLOW DIFFUSOR AND ENTRANCE GATE, NEW SECTION OF RIVER WALL WITH BACKFILL, AUXILIARY WATER SUPPLY PIPE AND COMPONENTS, INTERNAL EEL PASS CHANNEL, STRUCTURAL WALLS ASSOCIATED WITH PUBLIC ACCESS IMPROVEMENTS, AND PERMANENT ACCESS TO FISHWAY (FROM MAIN STREET) FOR EEL TRAP/MAINTENANCE ACCESS.
3. PROPOSED LAYOUTS SHOWN HEREON ARE APPROXIMATE ONLY AND ARE INTENDED TO ONLY DEPICT RELATIVE PHASES OF WORK AND GENERAL WORK AREAS. REFER TO OTHER DRAWINGS FOR SPECIFIC WORK ACTIVITIES AND LIMITS.

**PHASE 2 – CONSTRUCTION SEQUENCE, WATER CONTROL, AND TRAFFIC CONTROL MANAGEMENT:**

1. TRAFFIC CAN PROCEED AS USUAL OVER THE MAIN STREET BRIDGE DURING THIS PHASE WITH NO DETOURS OR LANE CLOSURES.
2. CLEAR ANY REMAINING VEGETATION AND CONSTRUCT ANY REMAINING PORTIONS OF TEMPORARY CONSTRUCTION ACCESS WITHIN THE PHASE 2 IMPROVEMENT LIMITS AS SHOWN ON CONSTRUCTION ACCESS & STAGING PLAN. DECONSTRUCT TEMPORARY ACCESS AND ASSOCIATED TEMPORARY GRADING AS PERMANENT WORK PROCEEDS. ANY STONE RIPRAP OR CRUSHED STONE USED TO STABILIZE TEMPORARY CONSTRUCTION ACCESS AND SLOPED AREAS CAN BE STOCKPILED IN OFF-SITE STAGING/STORAGE AREAS AND RE-USED TO FILL AREA WITHIN LIMITS OF NEW RIVERWALL TO BE CONSTRUCTED UNDER PHASE 3.
3. REMOVE AND STOCKPILE LIGHT POLES FOR RE-INSTALLATION AT END OF PHASE 2; REMOVE AND RELOCATE/RE-INSTALL ELECTRICAL CONDUITS AS NECESSARY.
4. REMOVE REMNANTS OF BUILDING FOUNDATION AT NORTHERN END OF SITE THAT WILL CONFLICT WITH PROPOSED PORTAGE CONSTRUCTION.
5. CONSTRUCT FISHWAY AND COMPONENTS STARTING AT DOWNSTREAM END (NEAR MAIN STREET BRIDGE) AND MOVE IN UPSTREAM DIRECTION TOWARDS THE FISHWAY EXIT.
6. INSTALL TEMPORARY COFFERDAM IN VICINITY OF PROPOSED AUXILIARY WATER SUPPLY INTAKE STRUCTURE (IN LOCATION AS SHOWN ON THIS PLAN) AND CONSTRUCT INTAKE STRUCTURE. AFTER CONSTRUCTION OF STRUCTURE IS COMPLETE AND TEMPORARY COFFERDAM IS REMOVED, DO NOT ALLOW WATER TO FLOW THROUGH INLET OPENING.
5. CONTINUE CONSTRUCTING FISHWAY AND COMPONENTS IN UPSTREAM DIRECTION (INCLUDING COUNTING/VIEWING FACILITY AND SAMPLING STATION) UP TO LEVEL FISHWAY EXIT AREA.
6. INSTALL TEMPORARY COFFERDAM IN VICINITY OF PROPOSED FISHWAY EXIT (IN LOCATION AS SHOWN ON THIS PLAN) AND CONSTRUCT LEVEL FISHWAY EXIT AREA. AFTER CONSTRUCTION OF FISHWAY EXIT IS COMPLETE, INSTALL BOARDS WITHIN SLOTS TO PREVENT FLOW THROUGH FISHWAY AND REMOVE TEMPORARY COFFERDAM.
7. CONSTRUCT PUBLIC ACCESS IMPROVEMENTS WITHIN PHASE 2 LIMITS; REINFORCED VEGETATED ACCESS WAY, RE-INSTALL PARK LIGHTING AND RESTORE DISTURBED LANDSCAPED AREAS IN ACCORDANCE WITH RESTORATION PLANS.

**PHASE 3 – CONSTRUCTION SEQUENCE, WATER CONTROL, AND TRAFFIC CONTROL MANAGEMENT:**

1. TRAFFIC CAN PROCEED AS USUAL OVER THE MAIN STREET BRIDGE DURING THIS PHASE WITH NO DETOURS OR LANE CLOSURES.
2. CLEAR ANY REMAINING VEGETATION AND CONSTRUCT ANY REMAINING PORTIONS OF TEMPORARY CONSTRUCTION ACCESS WITHIN THE PHASE 3 IMPROVEMENT LIMITS AS SHOWN ON CONSTRUCTION ACCESS & STAGING PLAN. DECONSTRUCT TEMPORARY ACCESS AND ASSOCIATED TEMPORARY GRADING AS PERMANENT WORK PROCEEDS. ANY STONE RIPRAP OR CRUSHED STONE USED TO STABILIZE TEMPORARY CONSTRUCTION ACCESS AND SLOPED AREAS CAN BE STOCKPILED IN OFF-SITE STAGING/STORAGE AREAS FOLLOWING REMOVAL AND RE-USED TO FILL AREA WITHIN LIMITS OF NEW RIVERWALL TO BE CONSTRUCTED WITHIN THIS PHASE.
3. REMOVE AND REPLACE EXISTING DRAINAGE STRUCTURES AND OUTFALLS AS SHOWN.
4. CONSTRUCT FISHWAY AND COMPONENTS STARTING AT UPSTREAM END (NEAR MAIN STREET BRIDGE) AND MOVE IN DOWNSTREAM DIRECTION TOWARDS THE FISHWAY ENTRANCE.
5. CONSTRUCT RIVER WALL AND FISHWAY ENTRANCE AREA, PALISADE DIFFUSOR, AND ADJACENT AUXILIARY WATER SUPPLY DROP MANHOLES AND PIPING. AFTER CONSTRUCTION OF RIVER WALL AND FISHWAY ENTRANCE COMPONENTS ARE COMPLETE, BACKFILL AREA BETWEEN EXISTING RIVER WALL AND NEW RIVER WALL AND REMOVE TEMPORARY COFFERDAM. INSTALL BOARDS IN SLOTS AT ENTRANCE AND IN DIFFUSER TO PREVENT FLOW THROUGH ENTRANCE AND DIFFUSER.
6. CONSTRUCT PUBLIC ACCESS IMPROVEMENTS WITHIN PHASE 3 LIMITS INCLUDING PERMANENT REINFORCED GRASSED DRIVEWAY/ACCESS AREA FROM MAIN STREET TO EEL TRAP. RESTORE DISTURBED LANDSCAPED AREAS IN ACCORDANCE WITH RESTORATION PLANS.



PHASE 2 SCALE: 1" = 30'      PHASE 3 SCALE: 1" = 40'      NOT FOR CONSTRUCTION

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SEAL

**NILS S. WILBERG**  
 No. 7630  
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)

|        |                  |
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| SCALE: | HORIZ.: AS NOTED |
|        | VERT.:           |
| DATUM: | HORIZ.: NAD83    |
|        | VERT.: NAVD88    |

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RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 CONSTRUCTION SEQUENCE AND WATER CONTROL PLAN NO. 2  
 BLACKSTONE RIVER FISH PASSAGE RESTORATION PROJECT  
 MAIN STREET AND SLATER MILL DAMS  
 PAWTUCKET      RHODE ISLAND

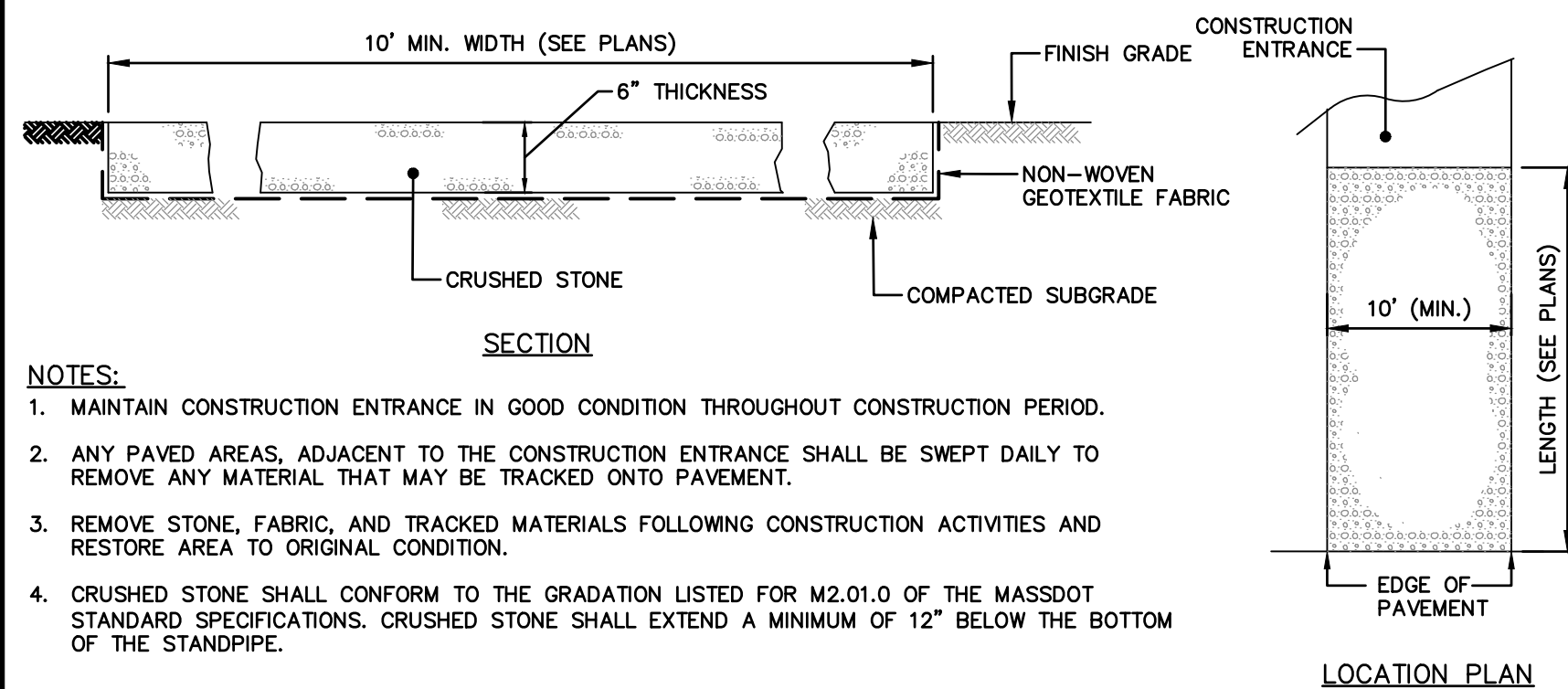
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 DATE: DECEMBER 2025

**CS-108**

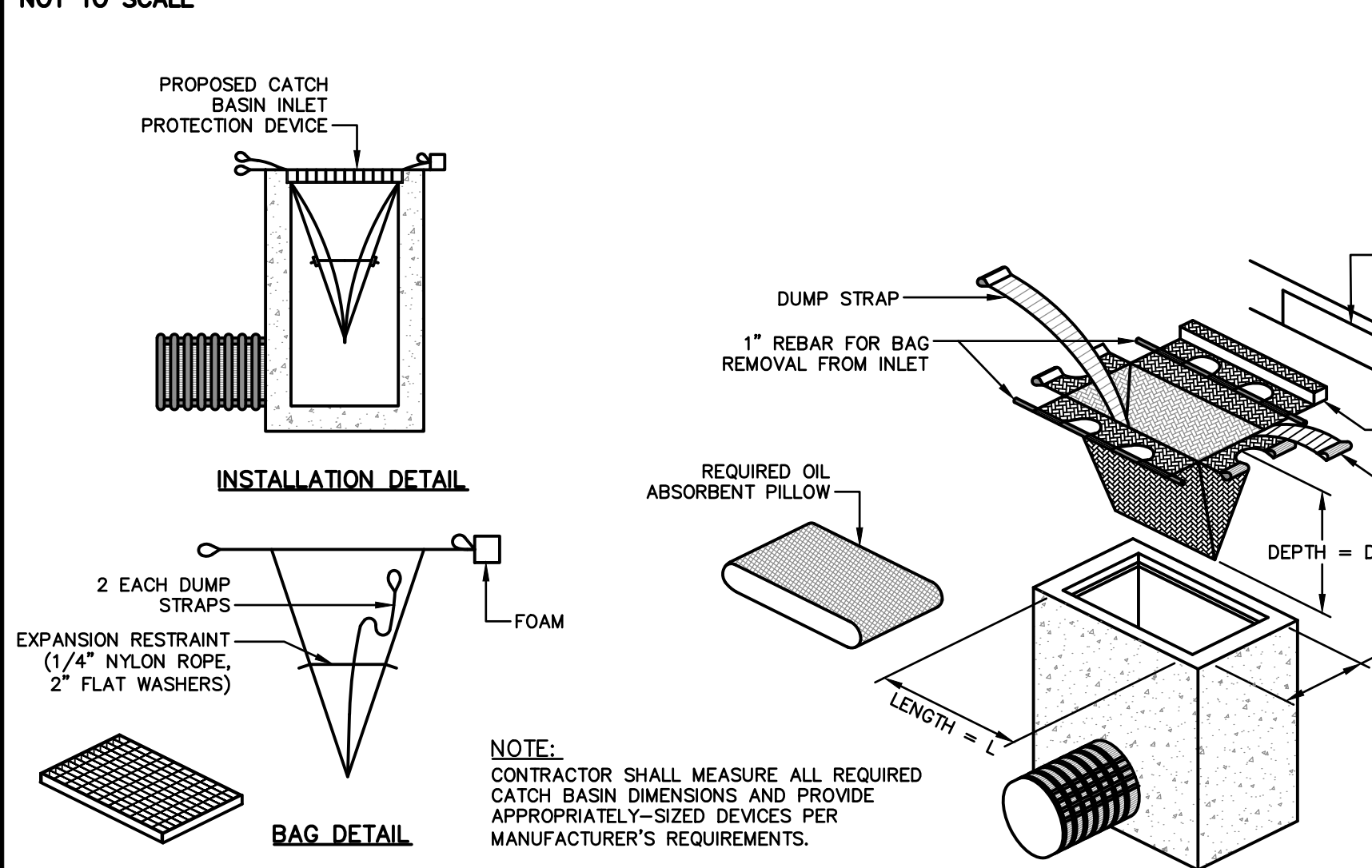
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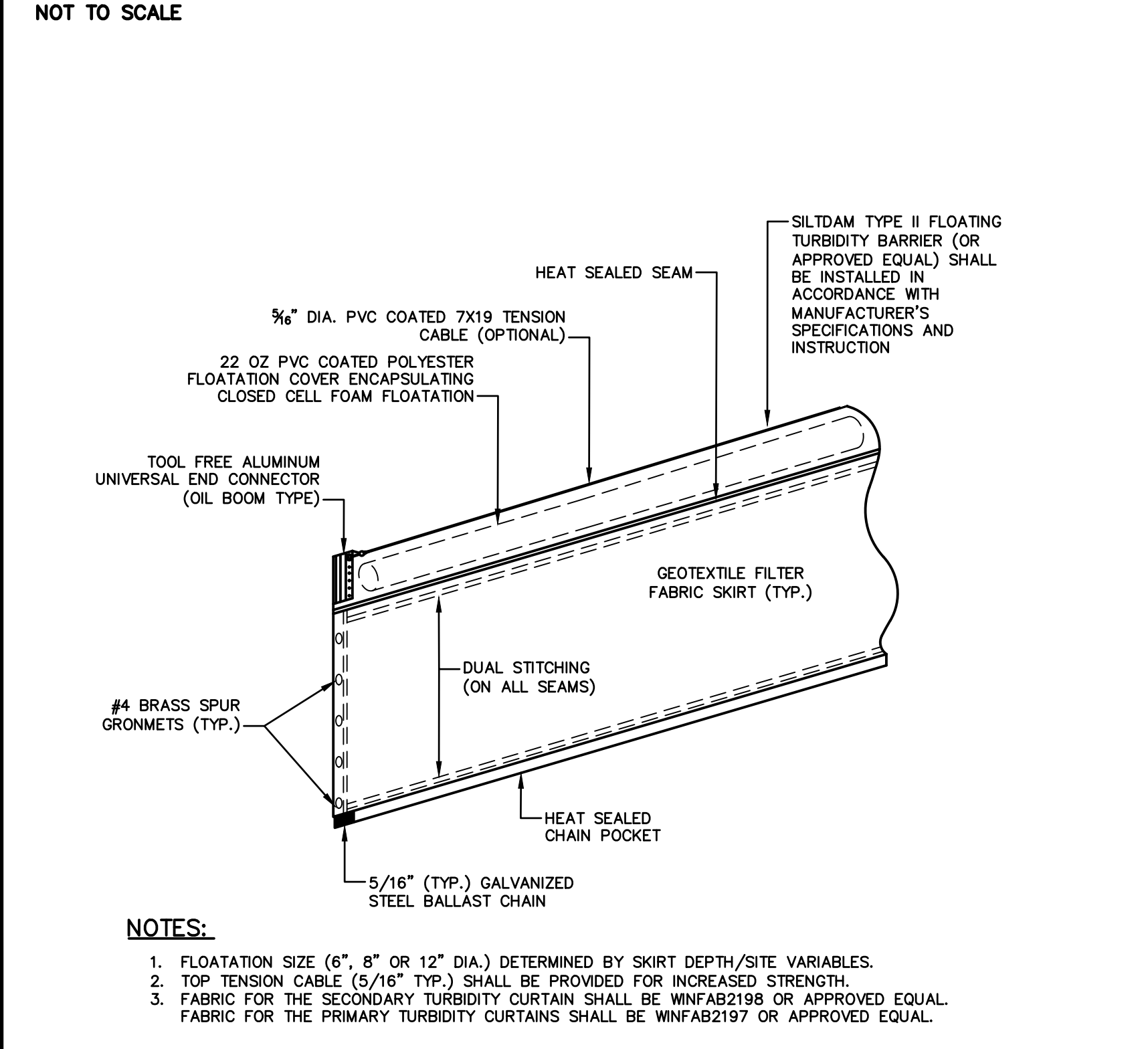




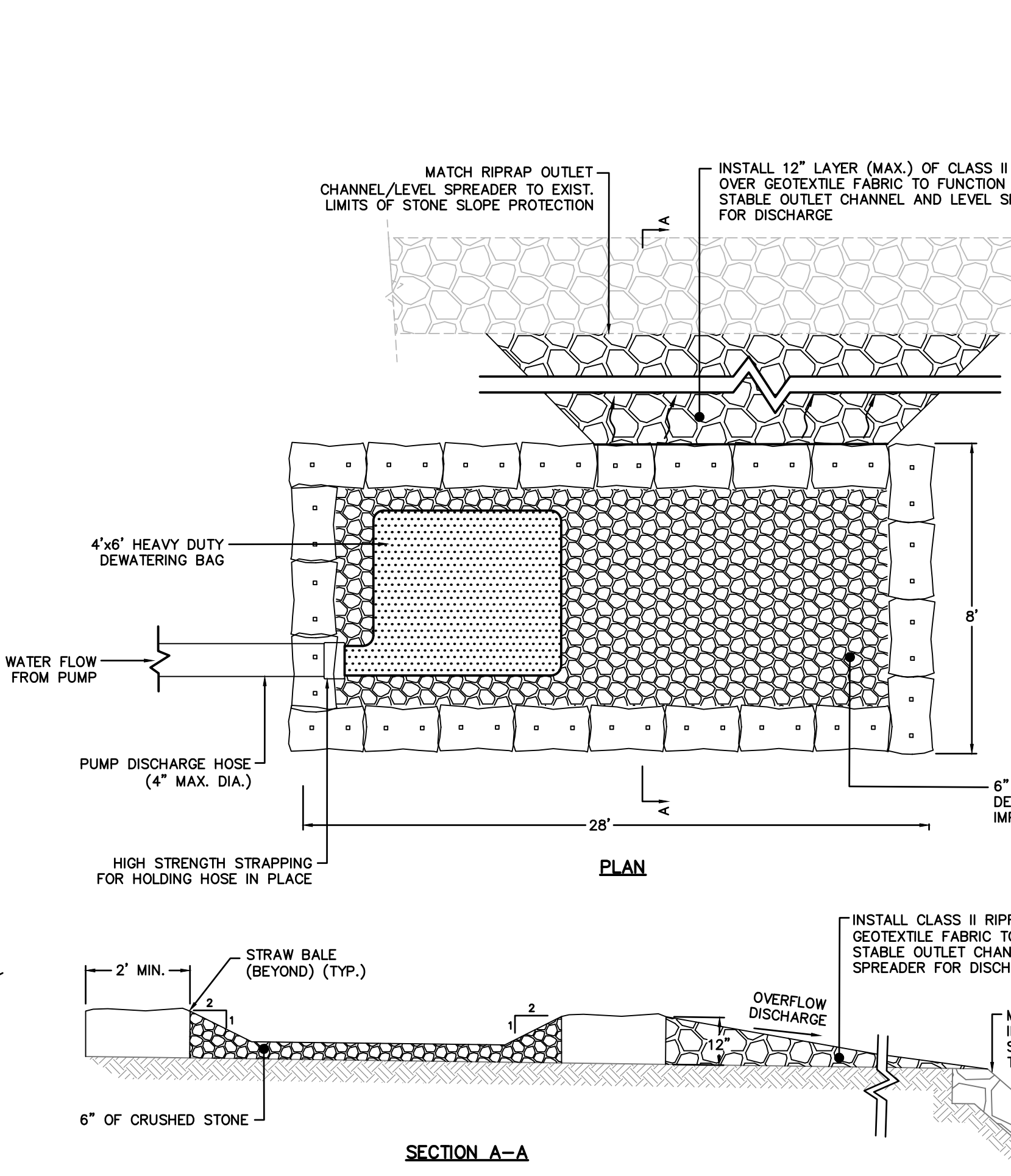
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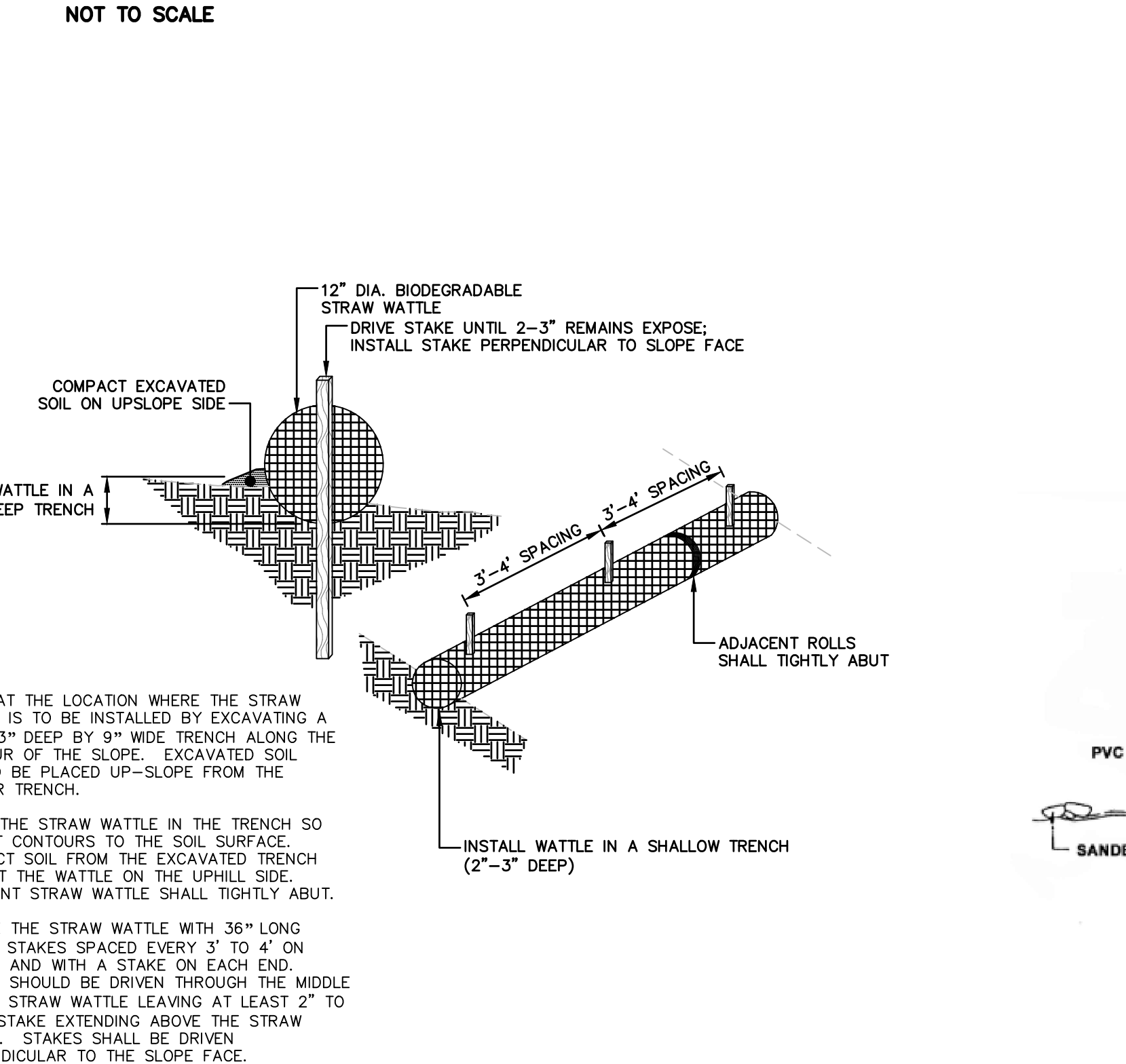
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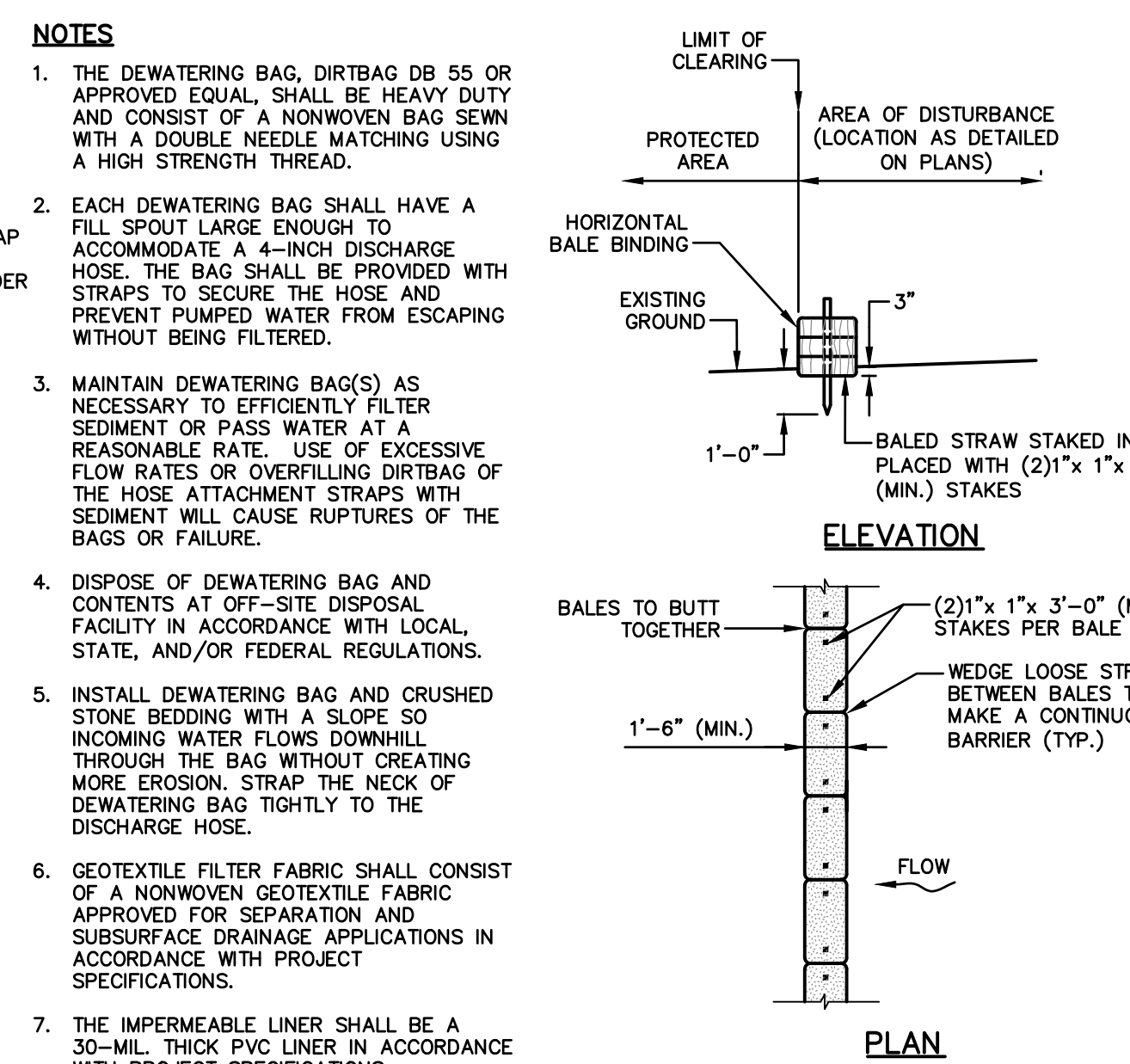
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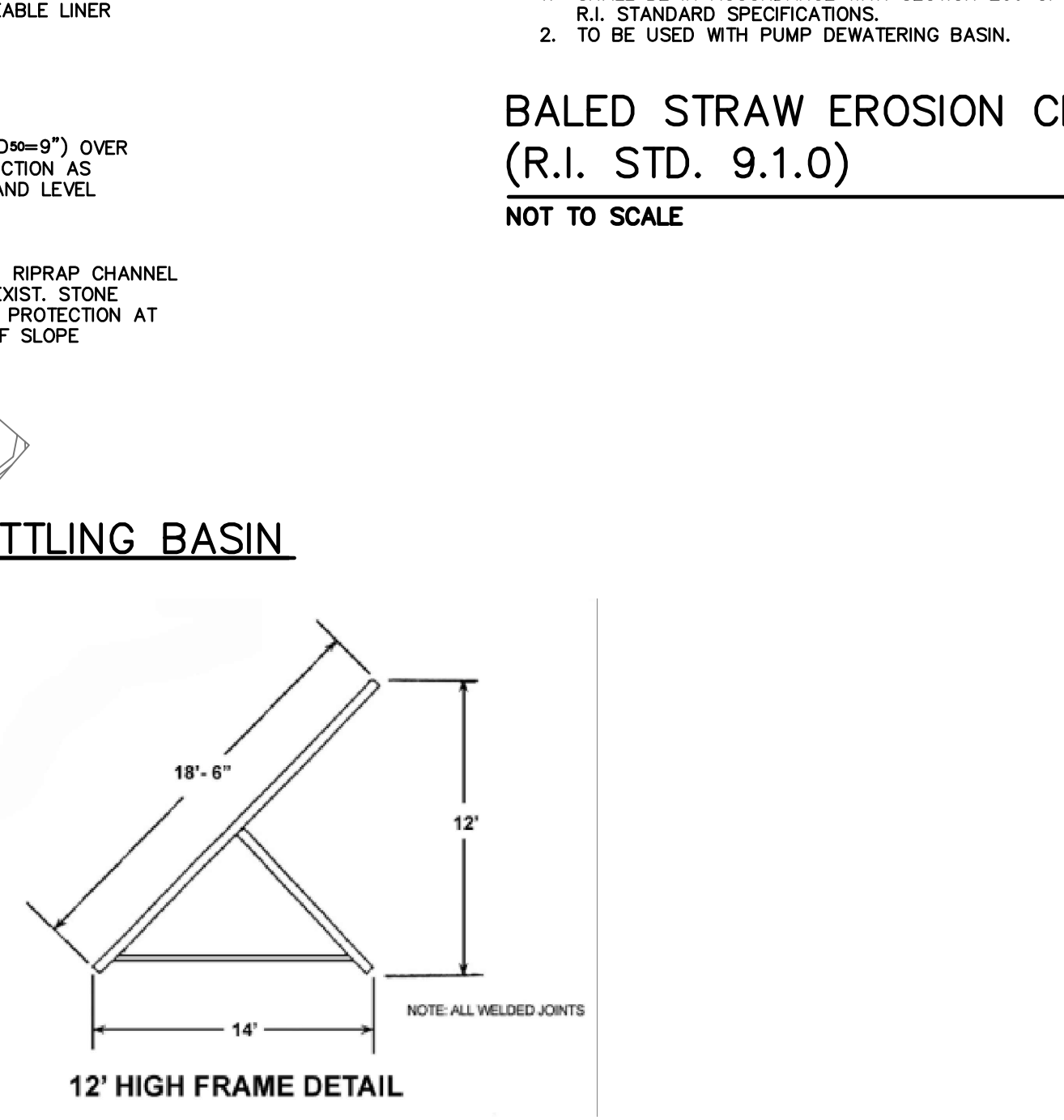
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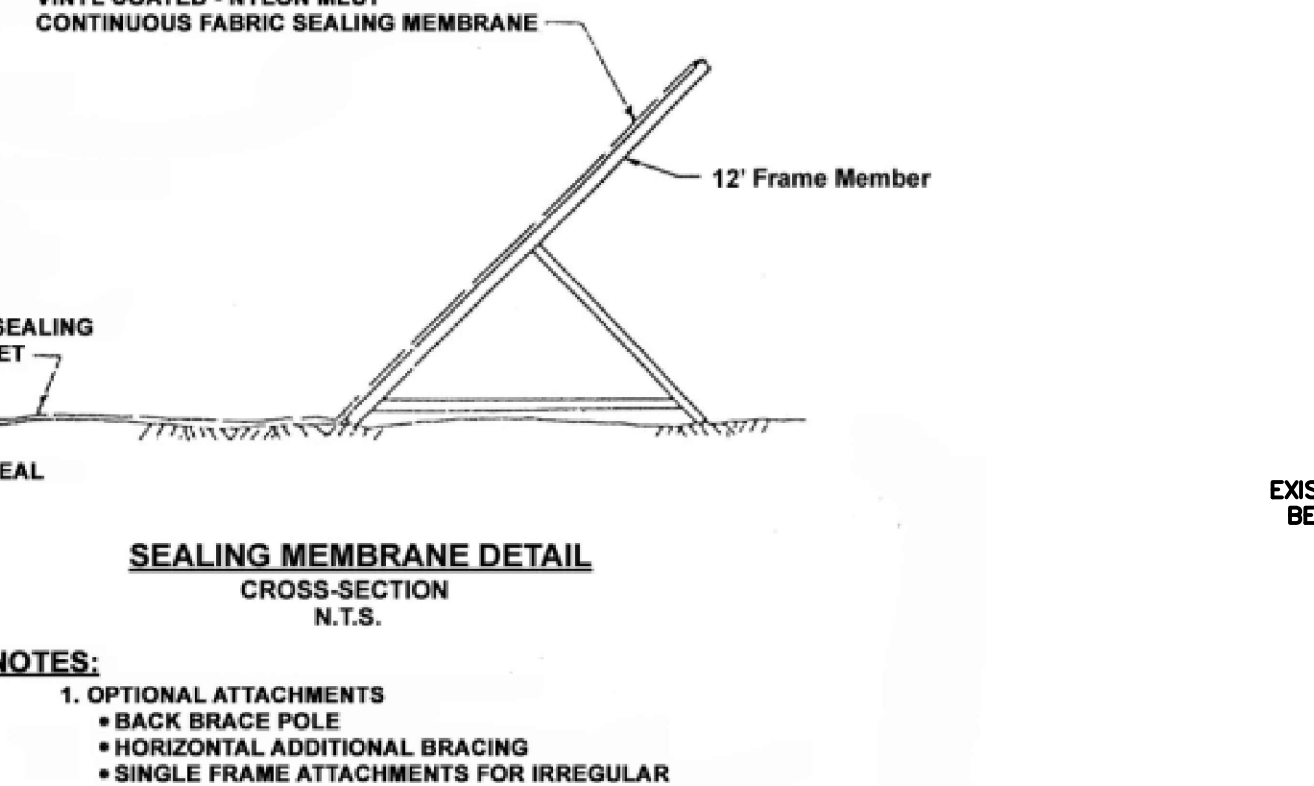
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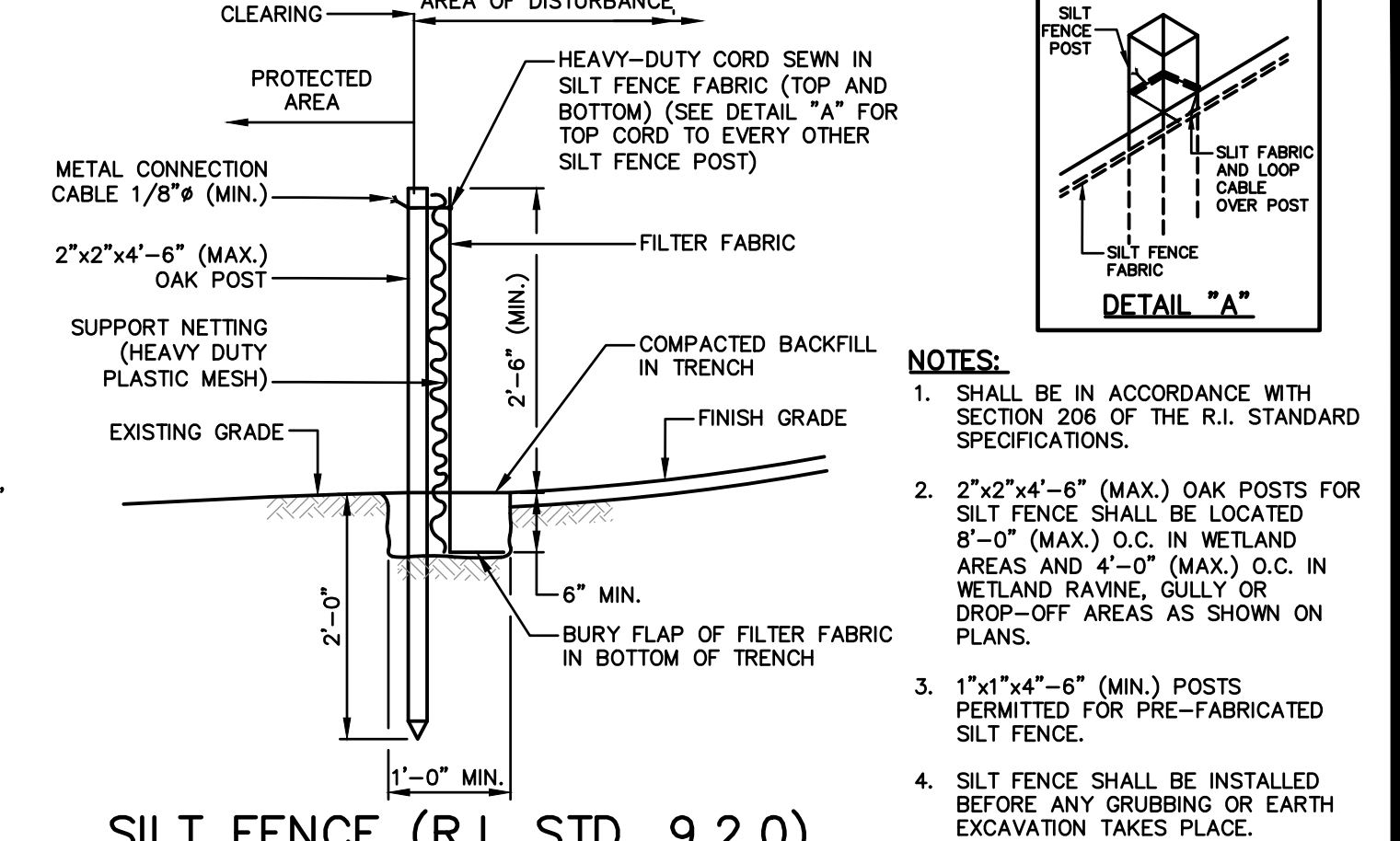
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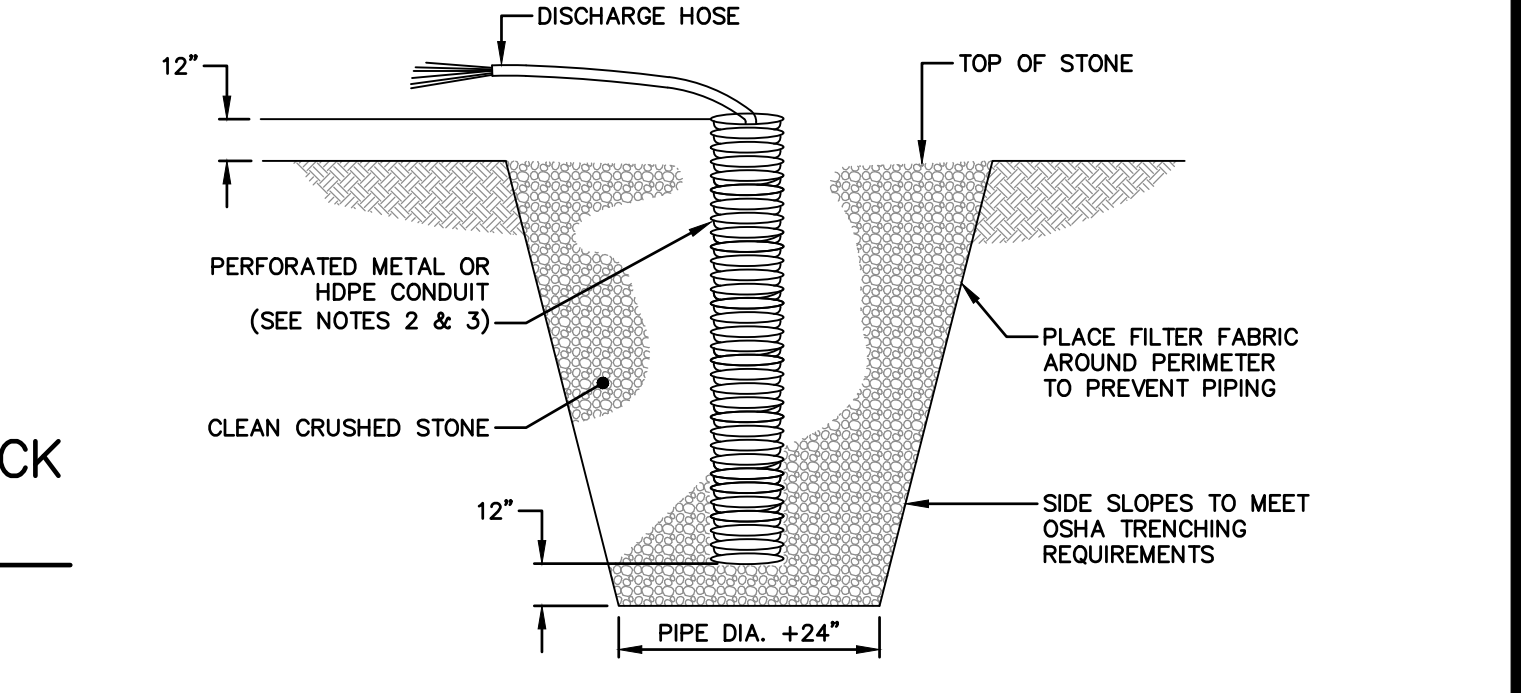
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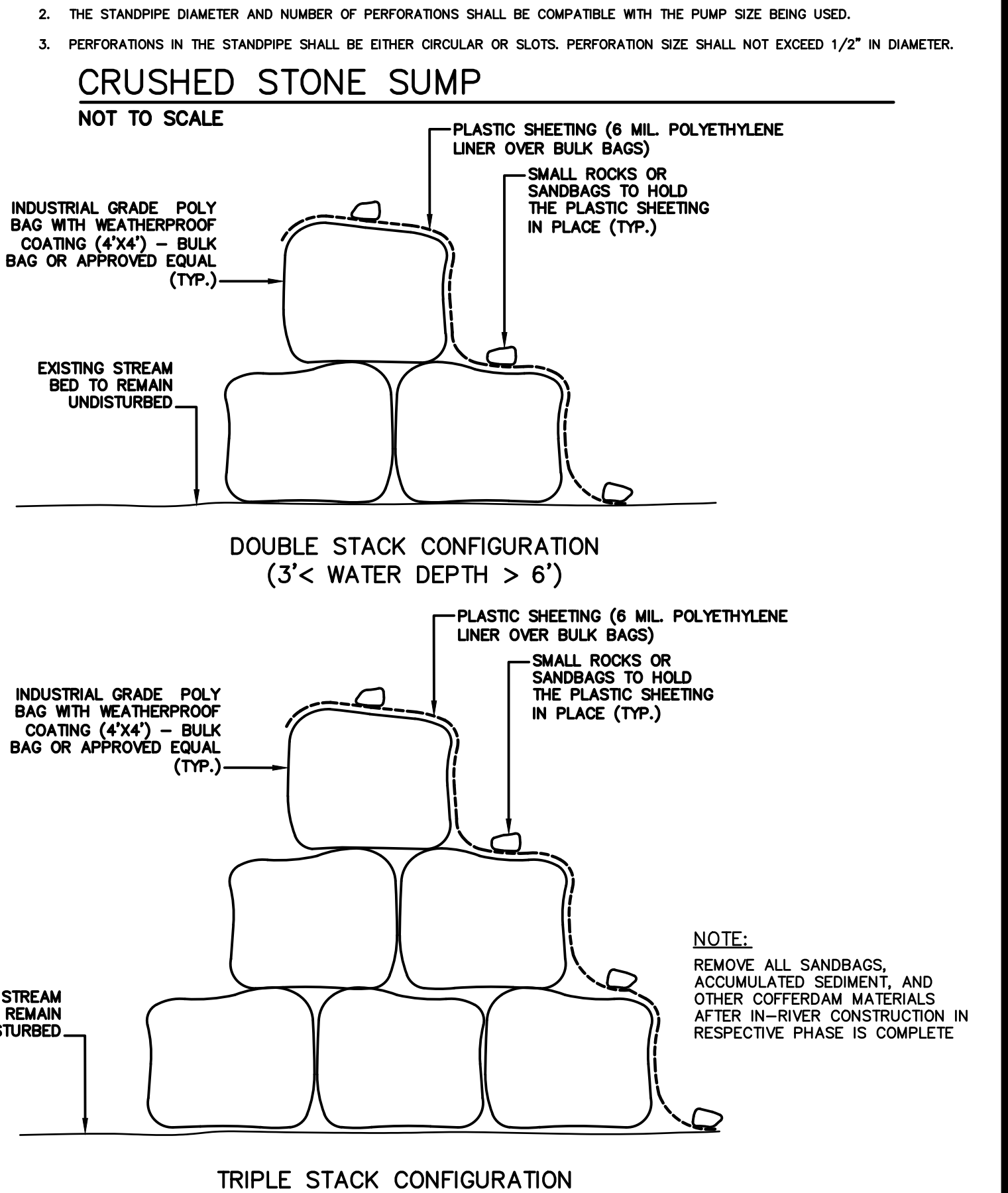
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NOT TO SCALE



**CRUSHED STONE SUMP**  
NOT TO SCALE



**FLOATING TURBIDITY BARRIER**  
NOT TO SCALE

**TEMPORARY COFFERDAM (PORTADAM OR APPROVED EQUAL)**  
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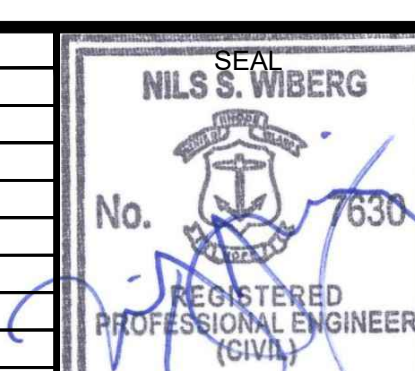
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NOT TO SCALE

**TEMPORARY COFFERDAM (BULK BAGS OR APPROVED EQUAL)**  
NOT TO SCALE

**TEMPORARY COFFERDAM (BULK BAGS OR APPROVED EQUAL)**  
NOT TO SCALE

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| No. | DATE | DESCRIPTION | DESIGNER | REVIEWER |
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|        | VERT.: -         |

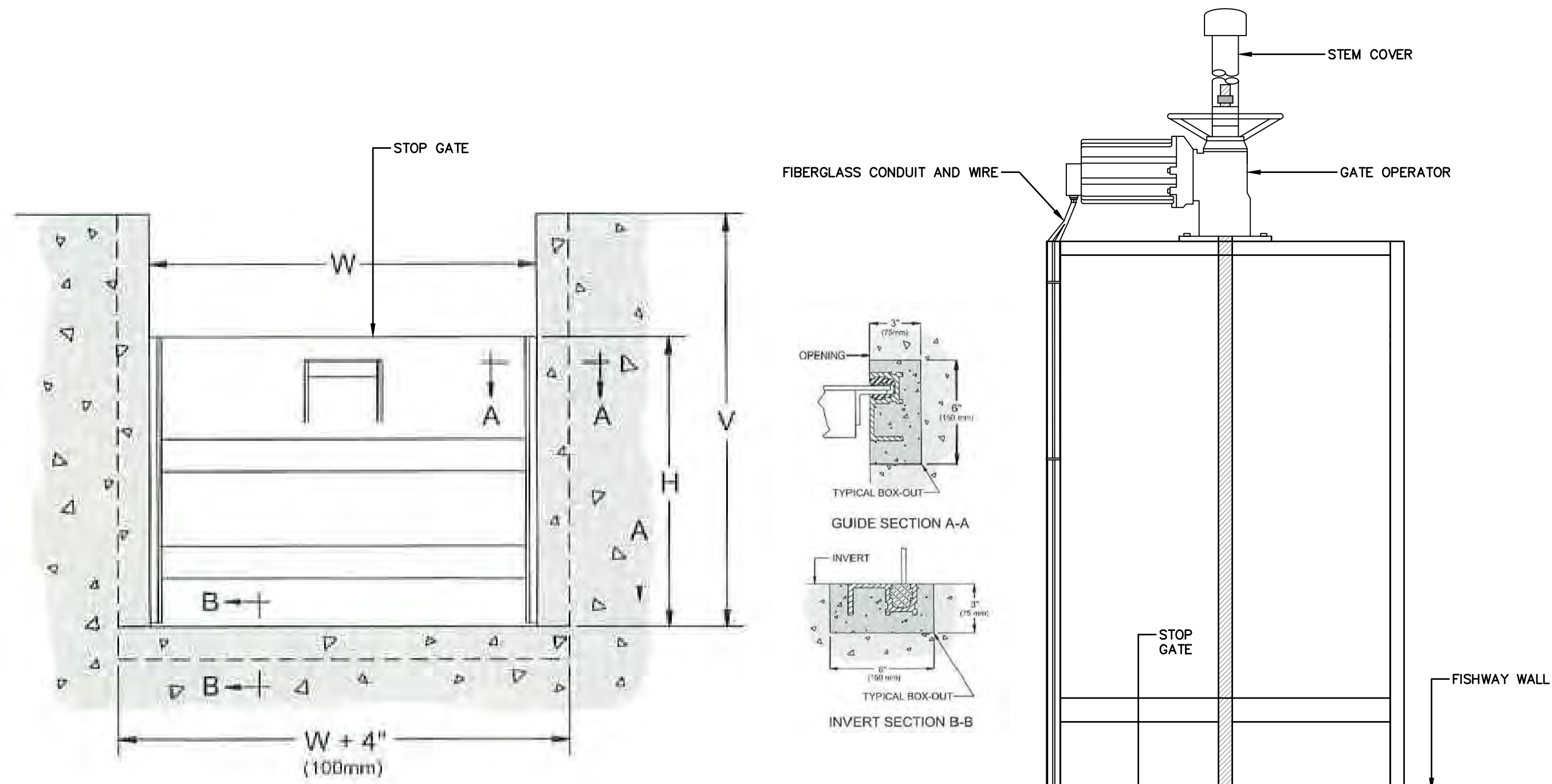
**FUSS & O'NEILL**  
3 DAVOL SQUARE, SUITE C200  
PROVIDENCE, RI 02903  
401.861.3070  
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RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
CONSTRUCTION DETAILS  
BLACKSTONE RIVER FISH PASSAGE RESTORATION PROJECT  
MAIN STREET AND SLATER MILL DAMS  
PAWTUCKET  
RHODE ISLAND

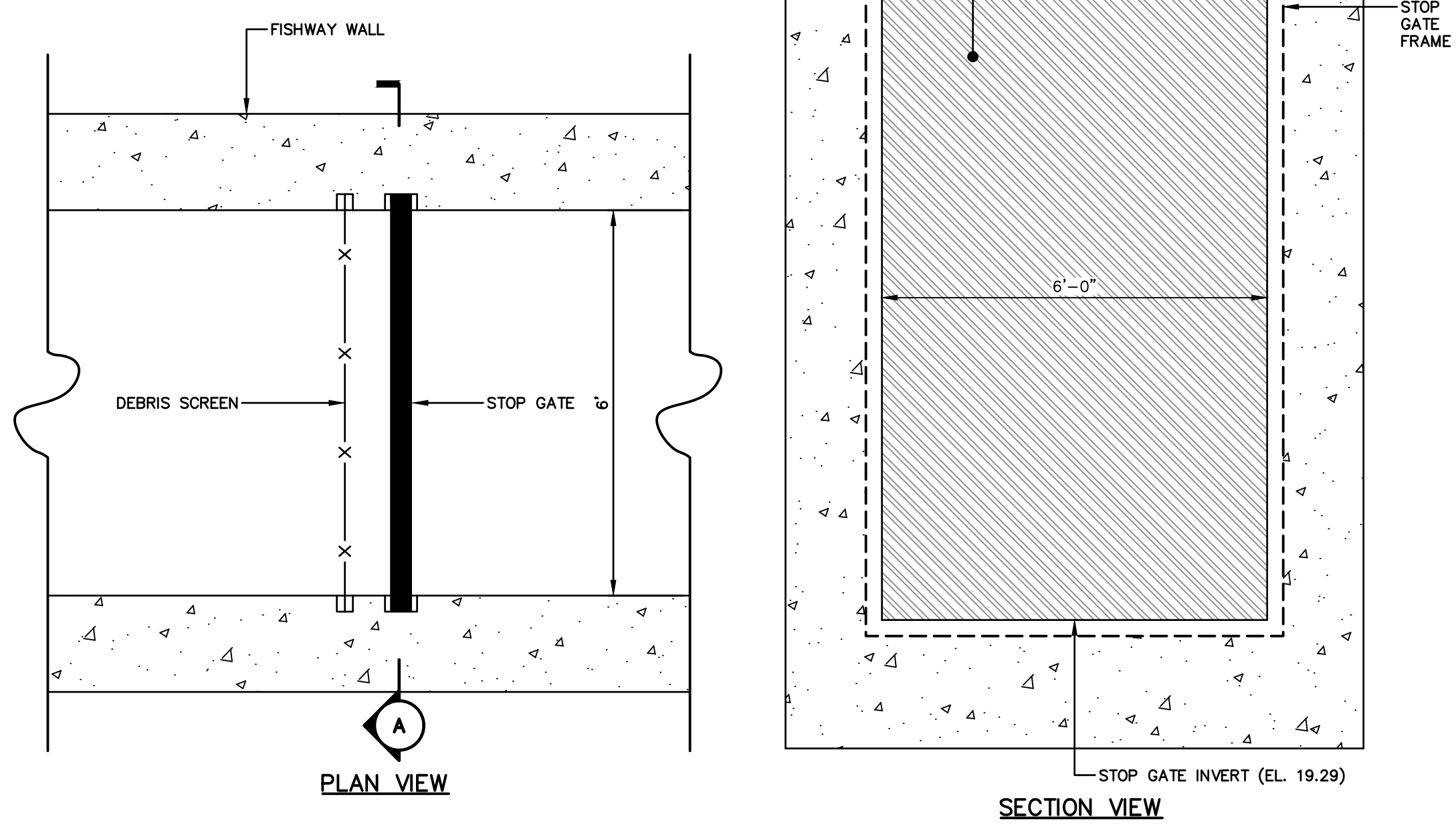
PROJ. No.: 20170570.B30  
DATE: DECEMBER 2025  
**CD-501**

RECEIVED  
12/30/25  
DESIGNER  
REVIEWER

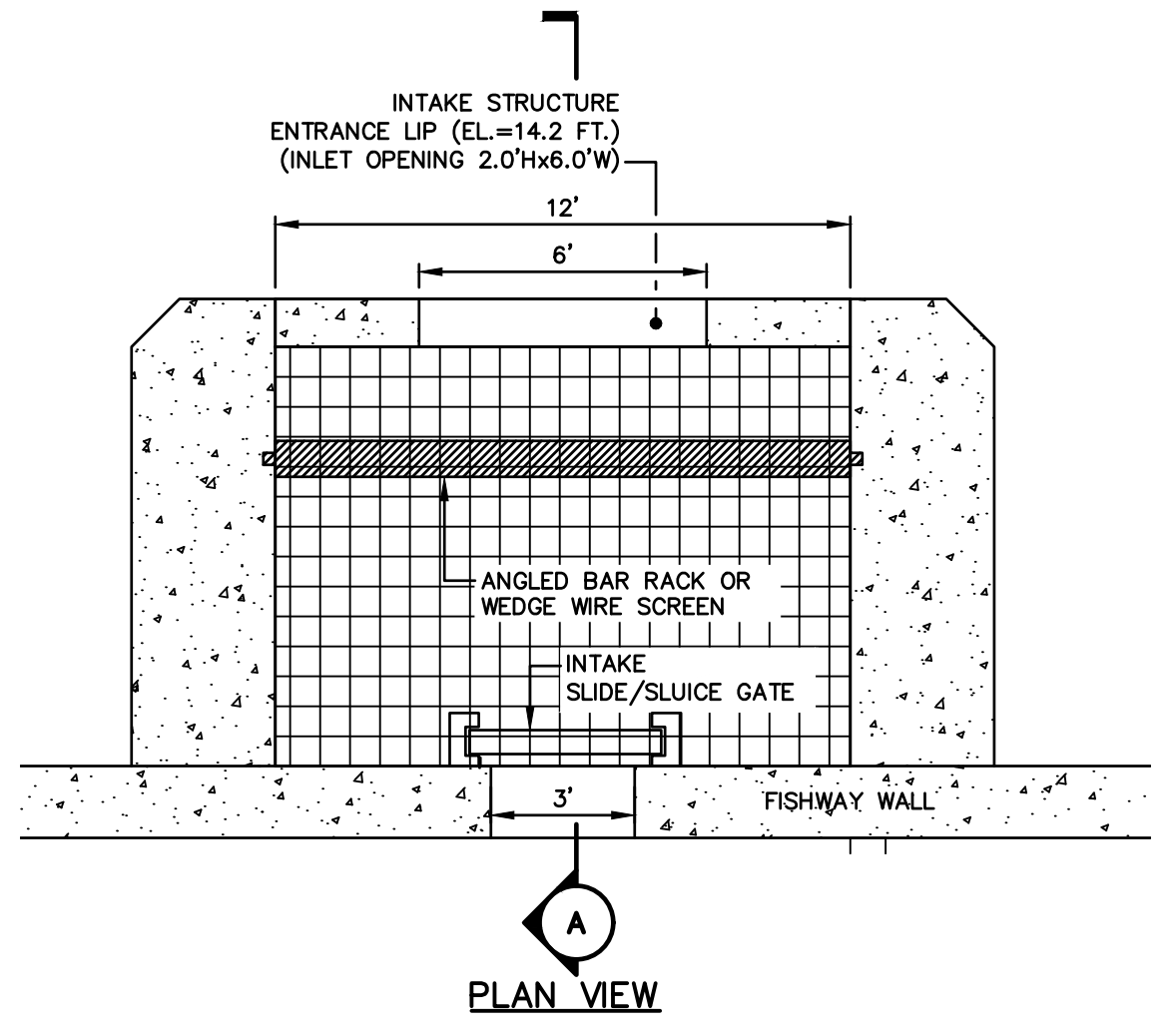
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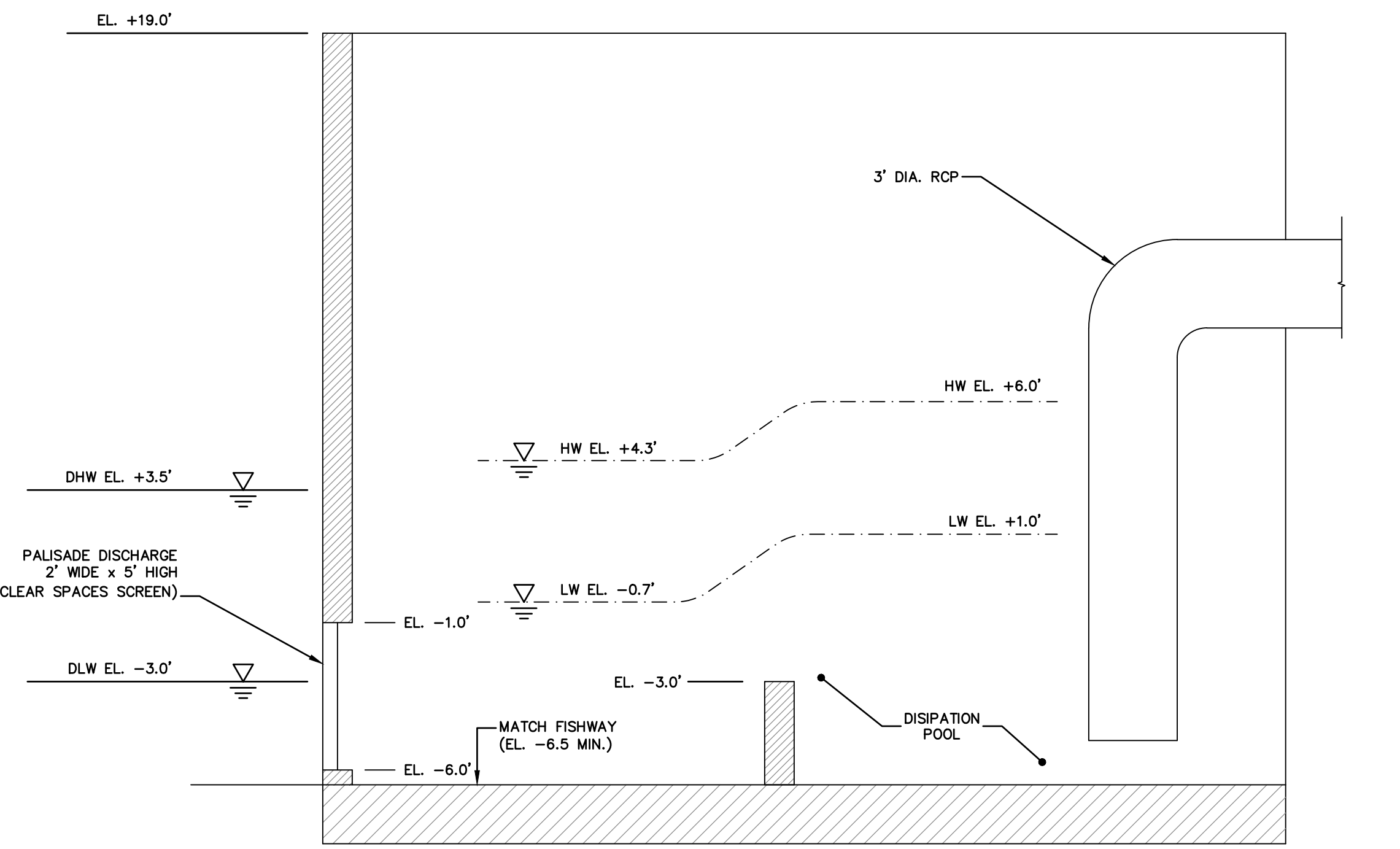
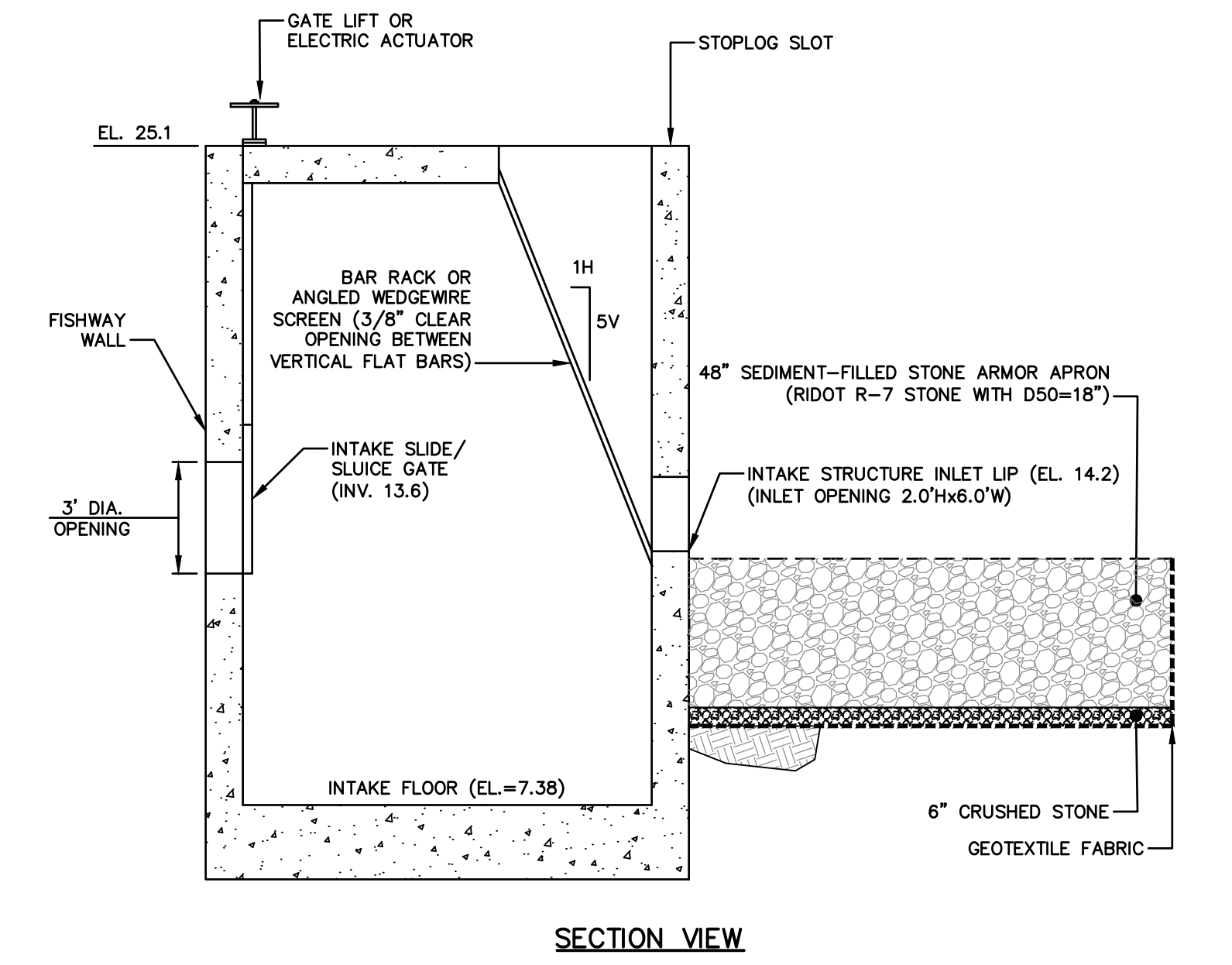
- STOP GATE NOTES:**
- STOP GATE SHALL BE ALUMINUM (ALLOY 6061-T6) WITH STAINLESS STEEL STEMS AND HARDWARE ALONG WITH FLEXIBLE ULTRA HIGH MOLECULAR WEIGHT (UHMW) SEAT/SEALS WITH A RESILIENT BOTTOM SEAL (MODEL 501 AS MANUFACTURED BY WHIPPS, INC. OR APPROVED EQUAL). GATE FRAMES SHALL BE EMBEDDED IN CHANNEL WALLS.
  - STEEL REINFORCEMENT NOT SHOWN FOR CLARITY. PROVIDE MECHANISM TO LOCK STOP GATE IN THE OPEN POSITION AT VARIOUS ELEVATIONS.



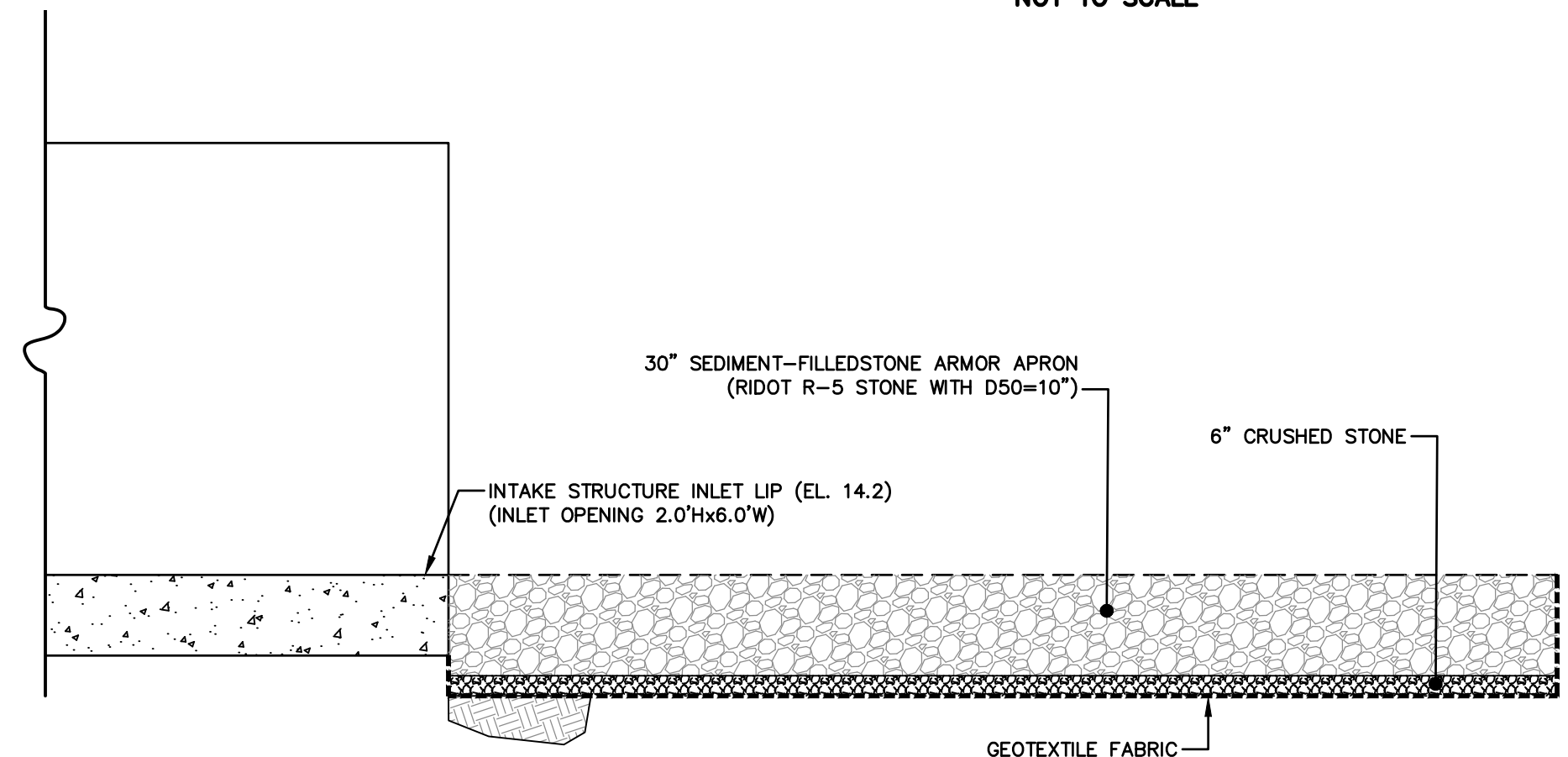
**FISHWAY EXIT AND STOP GATE**  
NOT TO SCALE



**AUXILIARY WATER SUPPLY INTAKE STRUCTURE WITH INTAKE SCREEN**  
SCALE: NOT TO SCALE



**ENTRANCE PALISADE DIFFUSER SECTION**  
NOT TO SCALE



**FISHWAY EXIT STONE ARMOR APRON**  
NOT TO SCALE

NOT FOR CONSTRUCTION

| No. | DATE | DESCRIPTION | DESIGNER | REVIEWER |
|-----|------|-------------|----------|----------|
|     |      |             |          |          |
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SEAL

**NILS S. WILBERG**  
No. 7630  
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

SCALE:

HORIZ.: 1" = 30'

VERT.: -

DATUM:

HORIZ.: -

VERT.: -

0 15' 30' 60'

GRAPHIC SCALE

**FUSS & O'NEILL**

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RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

CONSTRUCTION DETAILS

BLACKSTONE RIVER FISH PASSAGE RESTORATION PROJECT  
MAIN STREET AND SLATER MILL DAMS

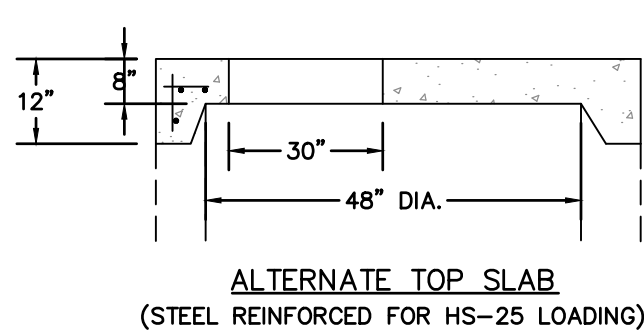
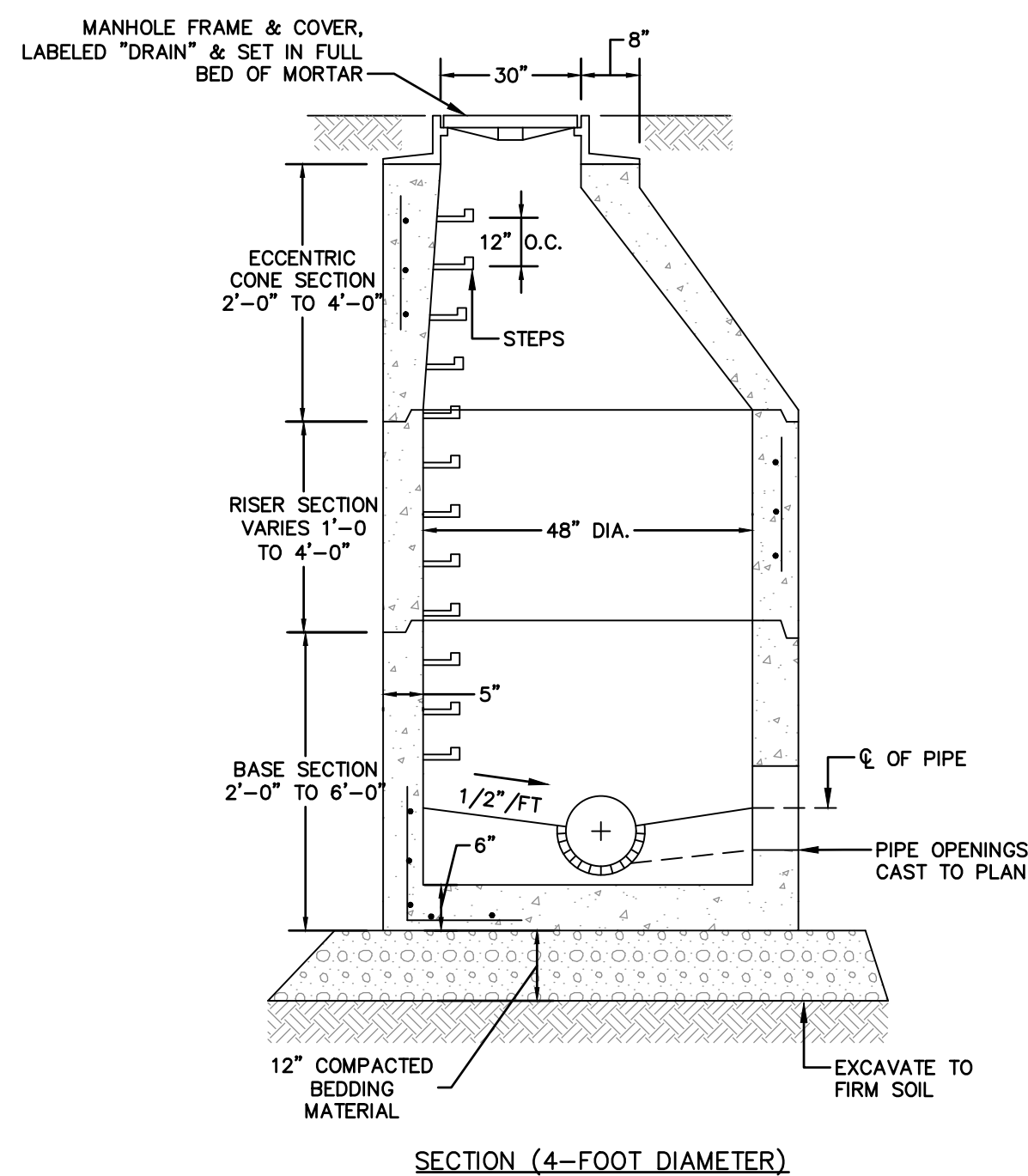
PAWTUCKET RHODE ISLAND

PROJ. No.: 20170570.B30  
DATE: DECEMBER 2025

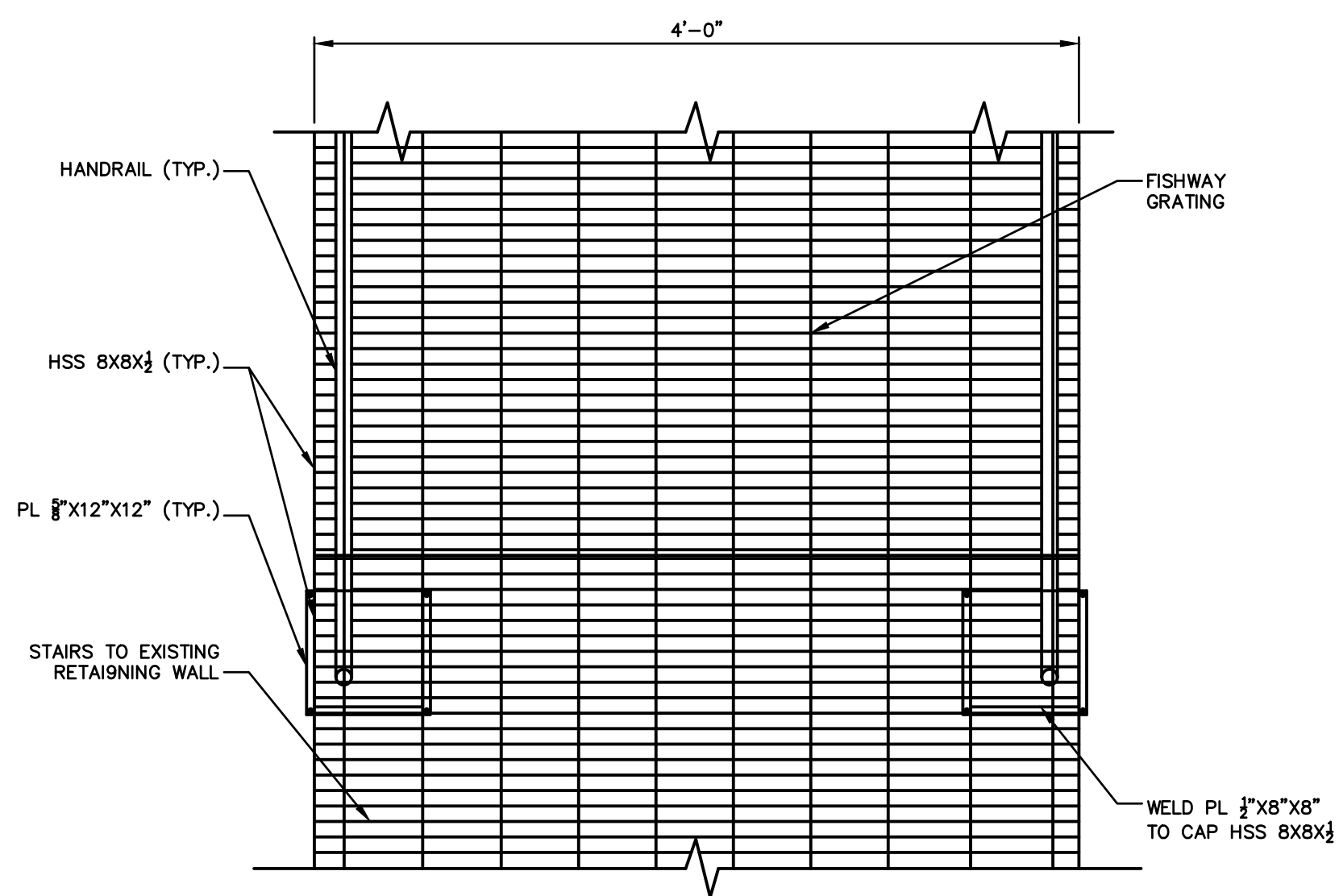
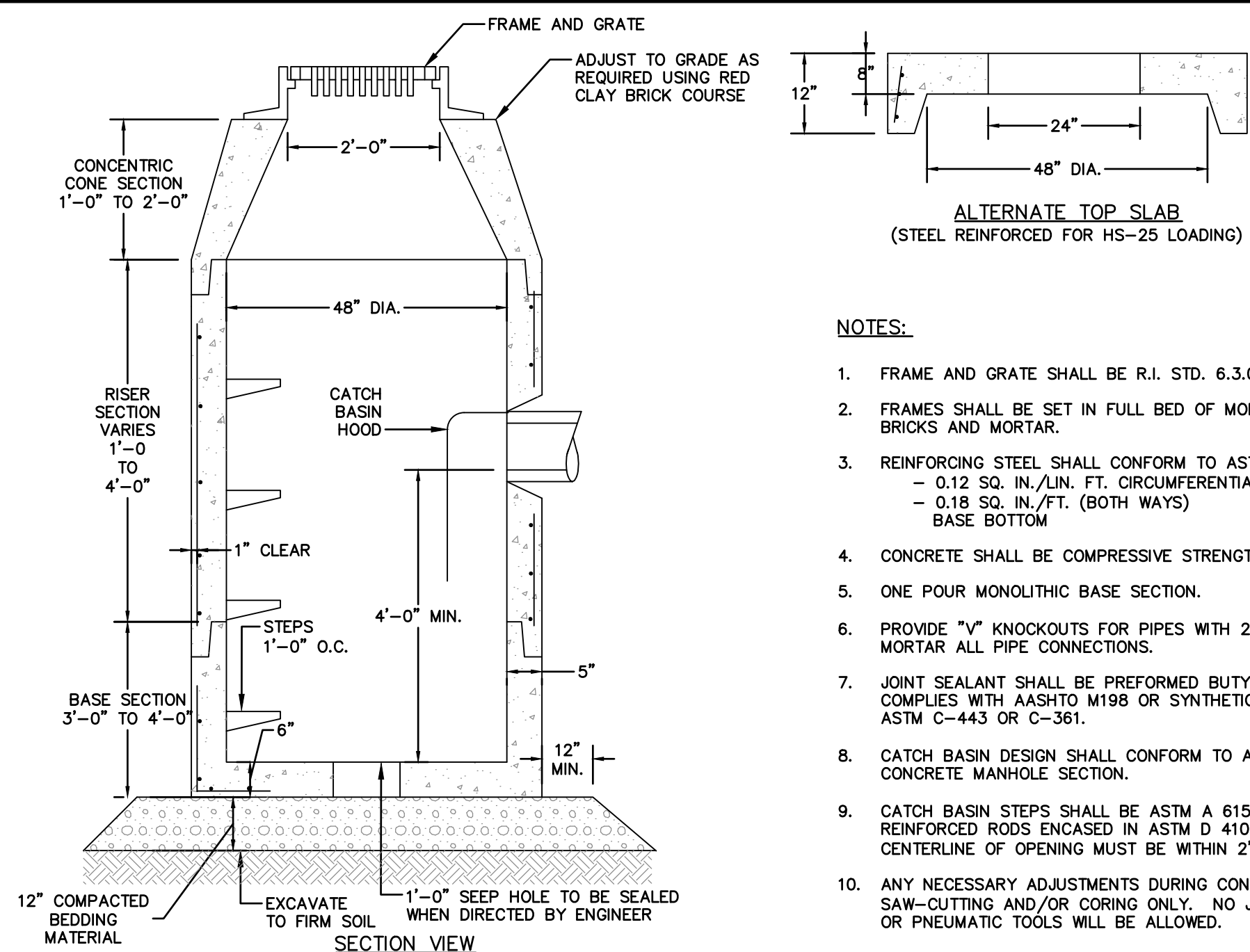
**CD-502**

RECEIVED  
1/2/2026  
COASTAL RESOURCES  
MANAGEMENT COUNCIL

12/30/25

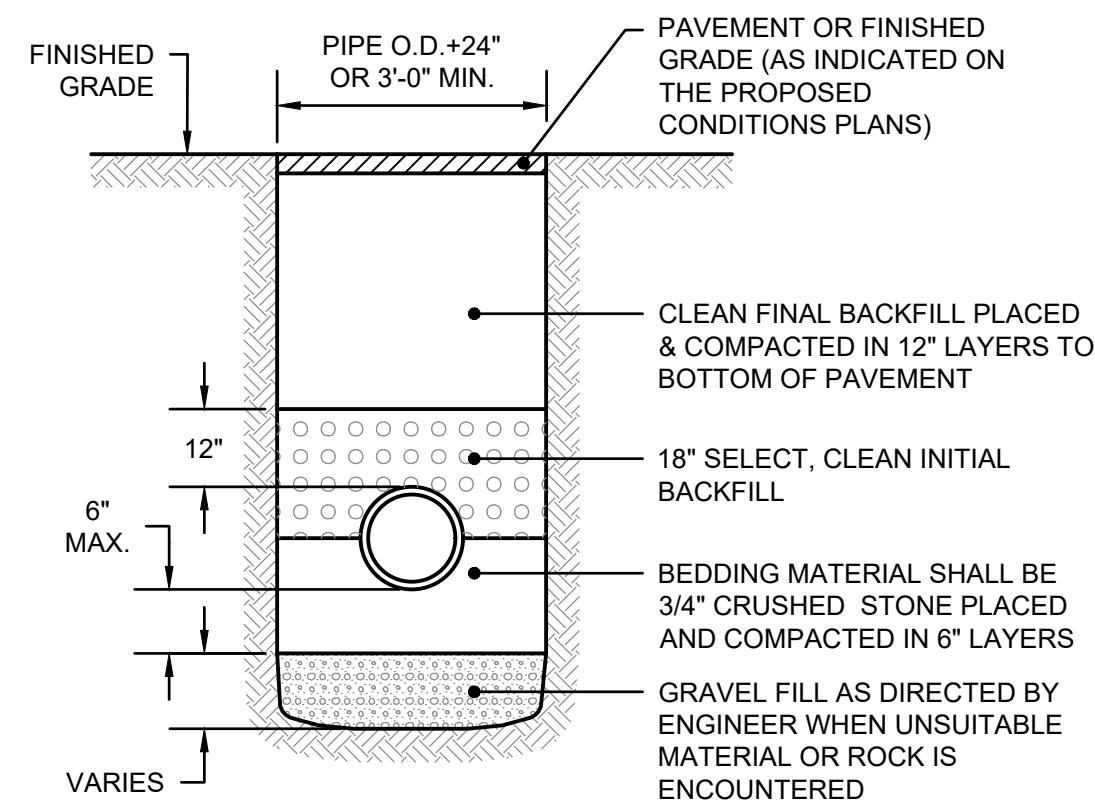


- NOTES:
1. FRAME AND COVER TO BE R.I. STD. 6.2.1 OR APPROVED EQUAL. LETTERING: "DRAIN"
  2. FRAMES SHALL BE SET IN FULL BED OF MORTAR. ADJUST TO GRADE WITH RED CLAY BRICKS AND MORTAR.
  3. REINFORCING STEEL SHALL CONFORM TO ASTM A-185:
    - 0.12 SQ. IN./LIN. FT. CIRCUMFERENTIAL
    - 0.18 SQ. IN./FT. (BOTH WAYS)
    - BASE BOTTOM
  4. CONCRETE SHALL BE COMPRESSIVE STRENGTH 4,000 PSI TYPE II CEMENT.
  5. ONE POUR MONOLITHIC BASE SECTION.
  6. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
  7. JOINT SEALANT SHALL BE PREFORMED BUTYL RUBBER MASTIC TYPE SEAL THAT COMPLIES WITH AASHTO M198 OR SYNTHETIC RUBBER GASKET THAT COMPLIES WITH ASTM C-443 OR C-361.
  8. MANHOLE DESIGN SHALL CONFORM TO ASTM C-478 FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS."
  9. MANHOLE STEPS SHALL BE ASTM A 615/A615M, DEFORMED, 1/2-INCH STEEL REINFORCED RODS ENCASED IN ASTM D 4101, POLYPROPYLENE PLASTIC. THE CENTERLINE OF OPENING MUST BE WITHIN 2'-0" FROM STEPS.
  10. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
  11. INVERT CONSTRUCTED OF BRICK OR CEMENT CONCRETE, CLASS D.



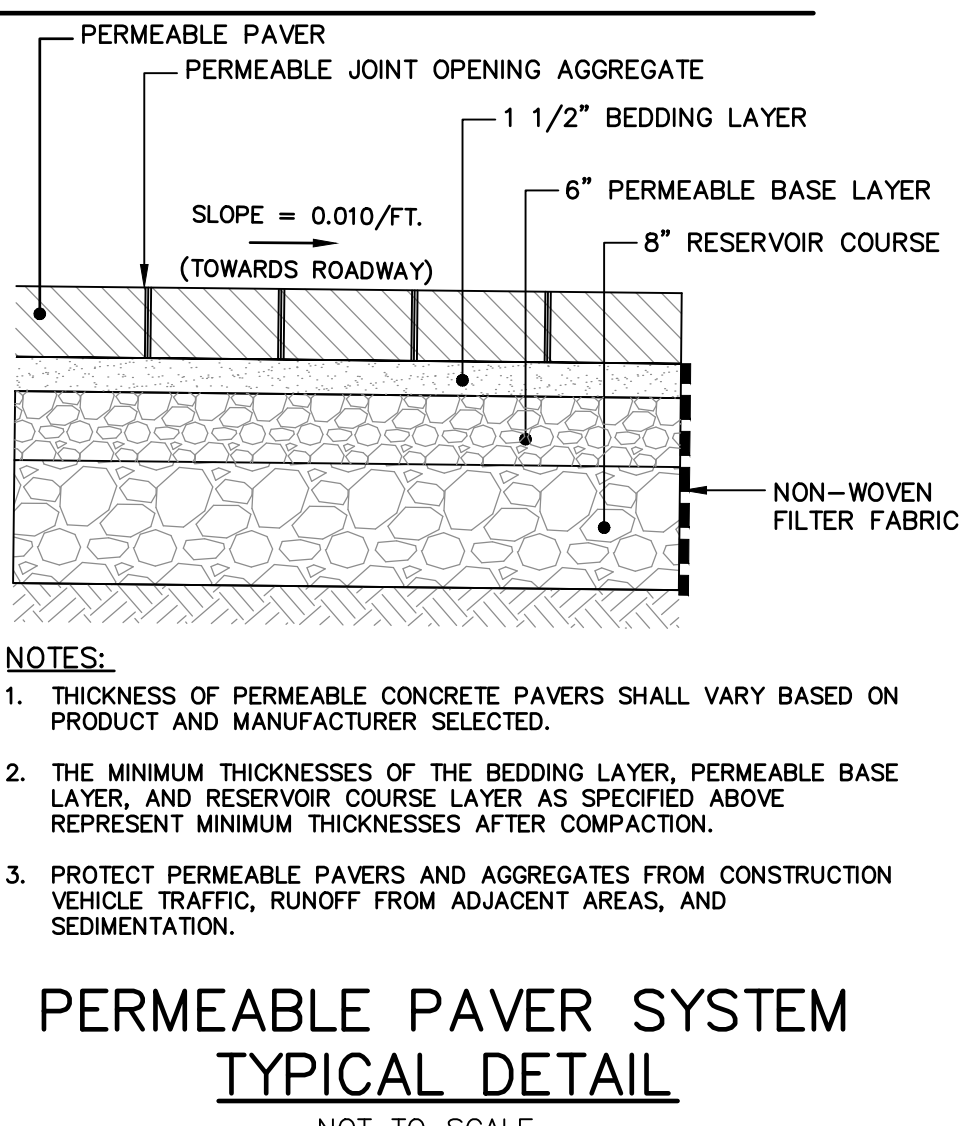
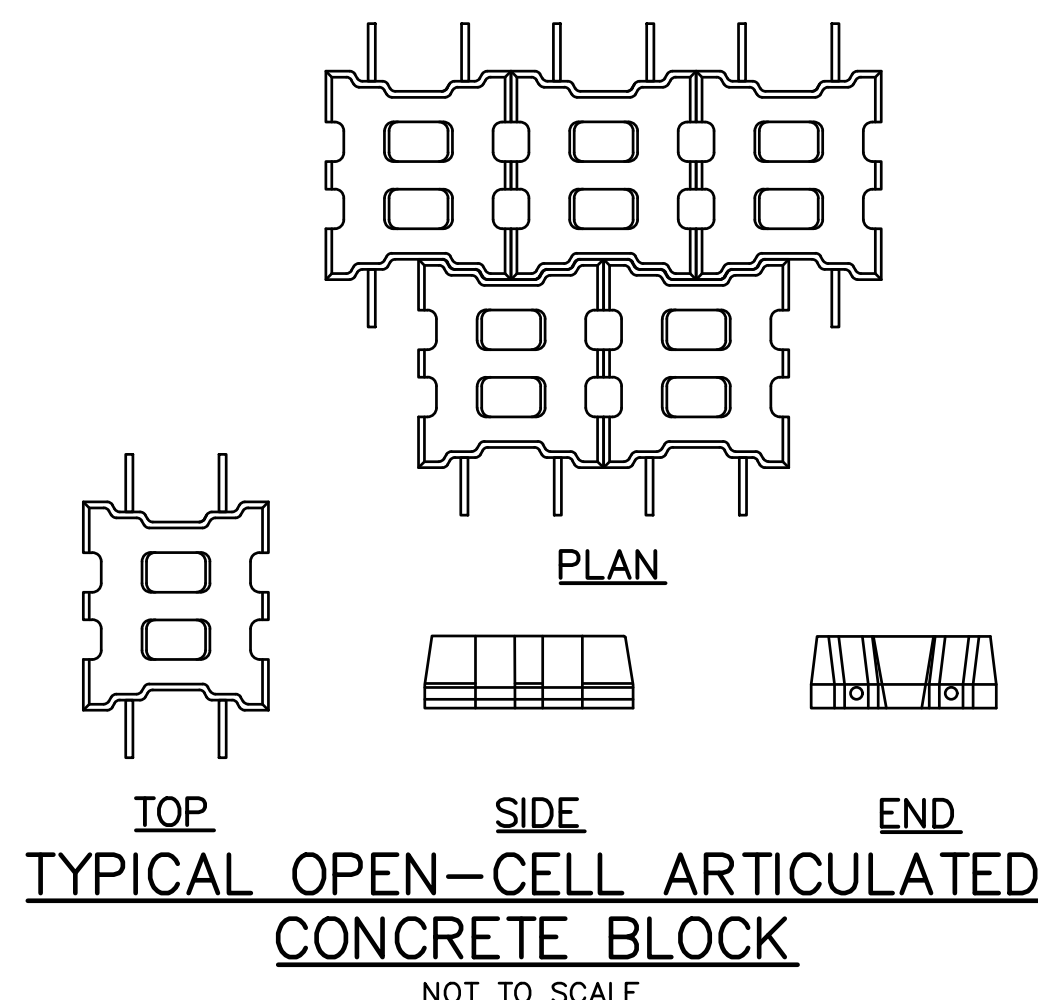
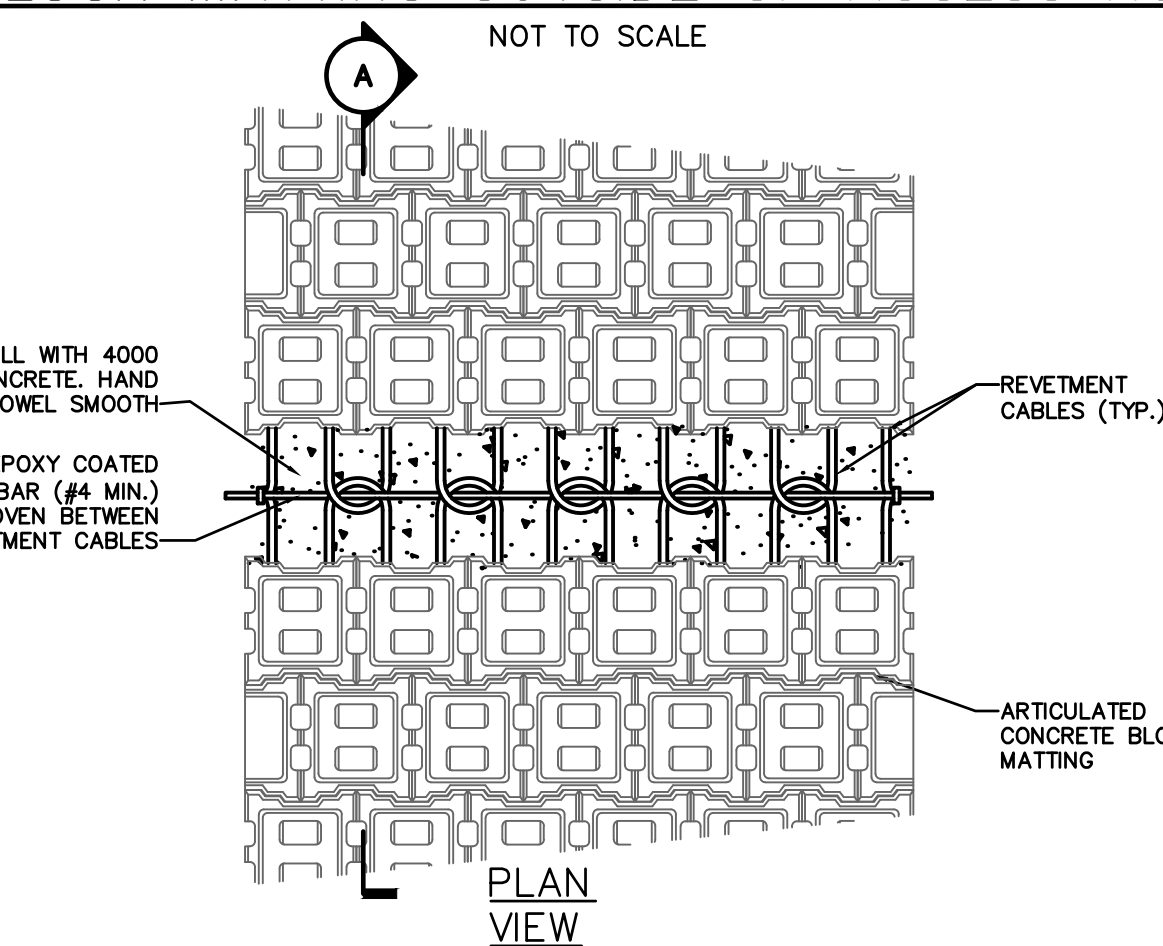
MANHOLE

NOT TO SCALE



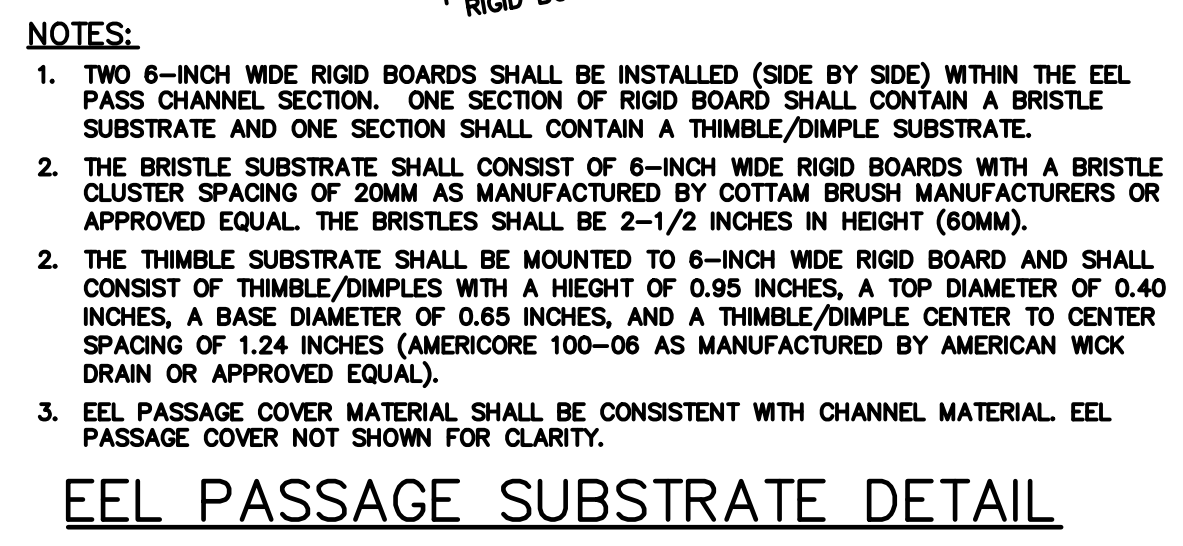
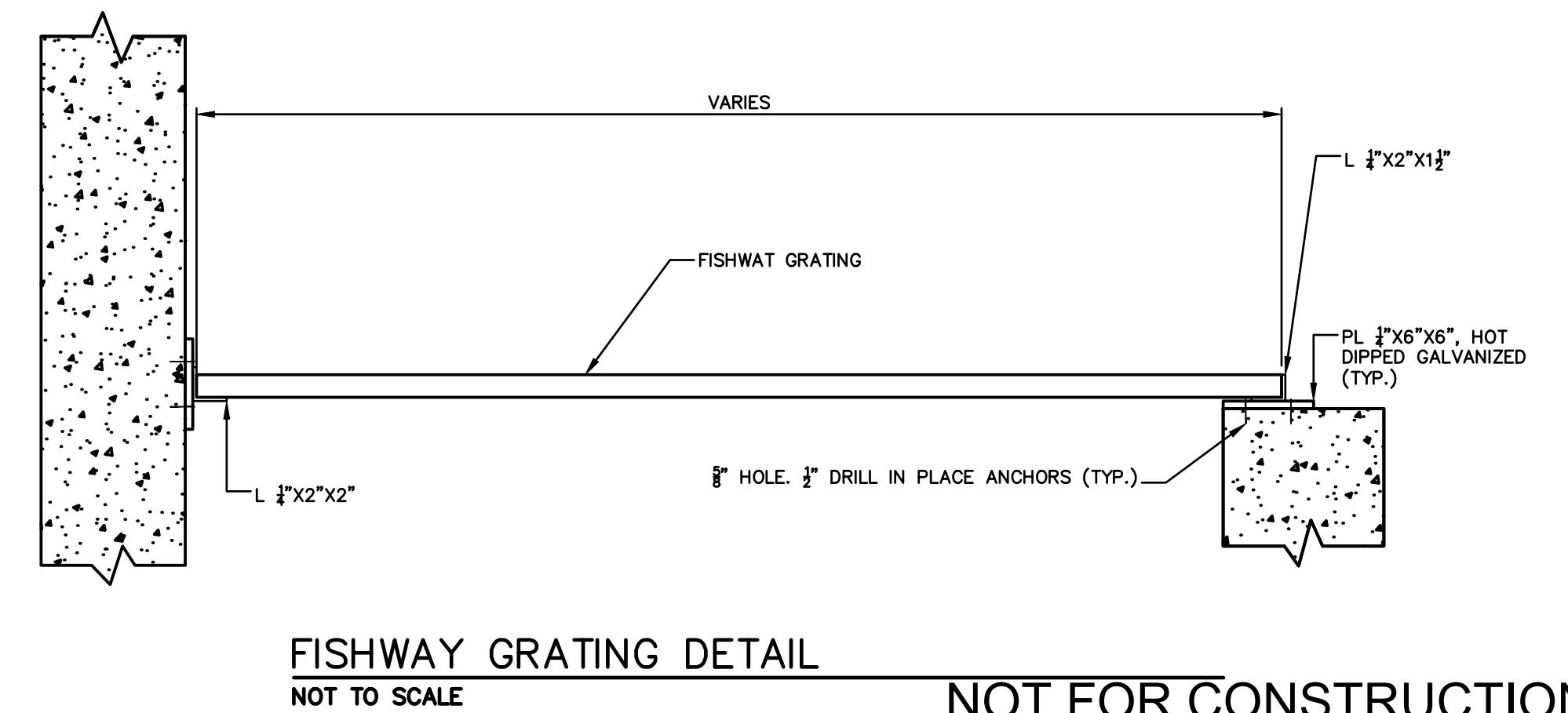
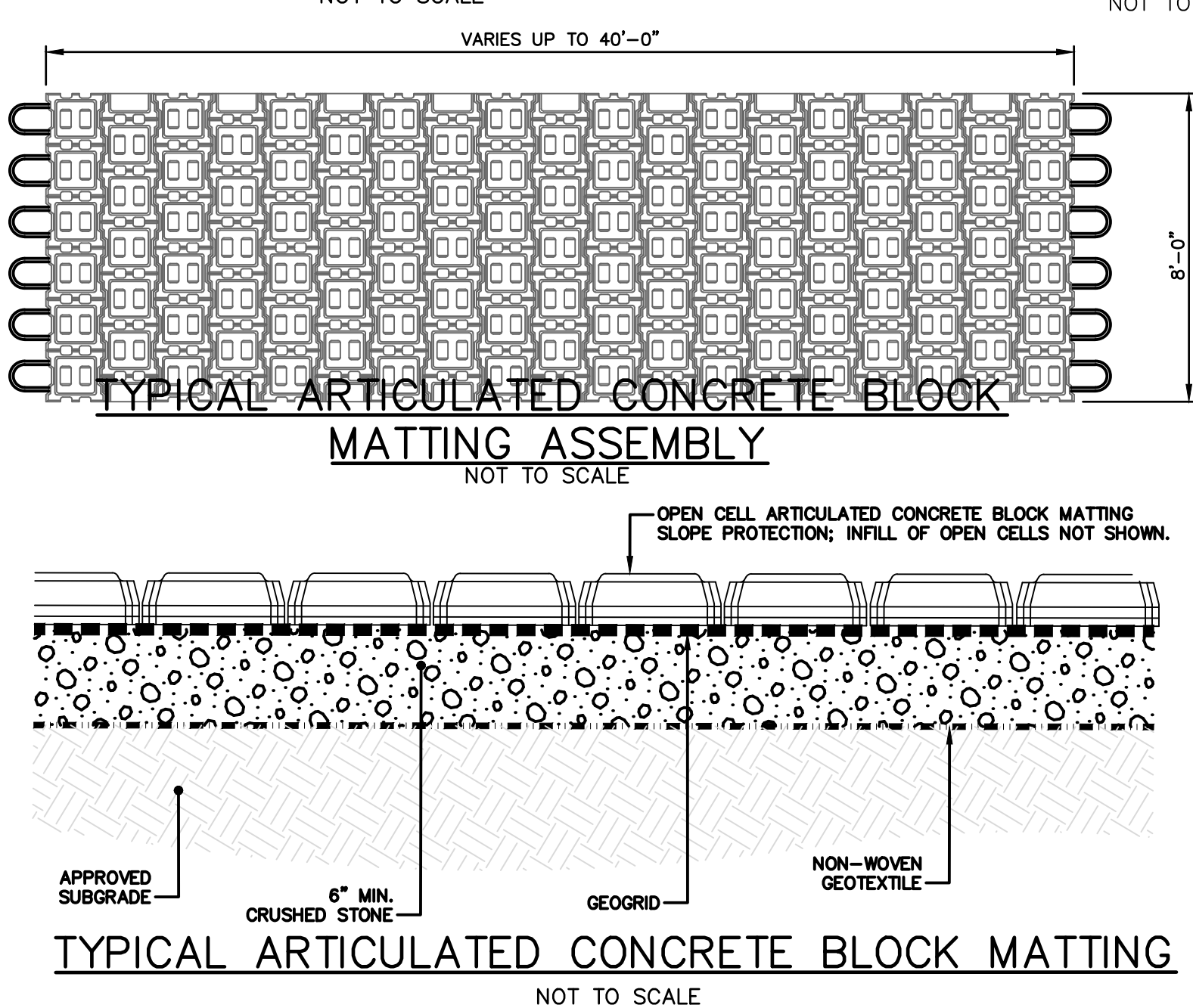
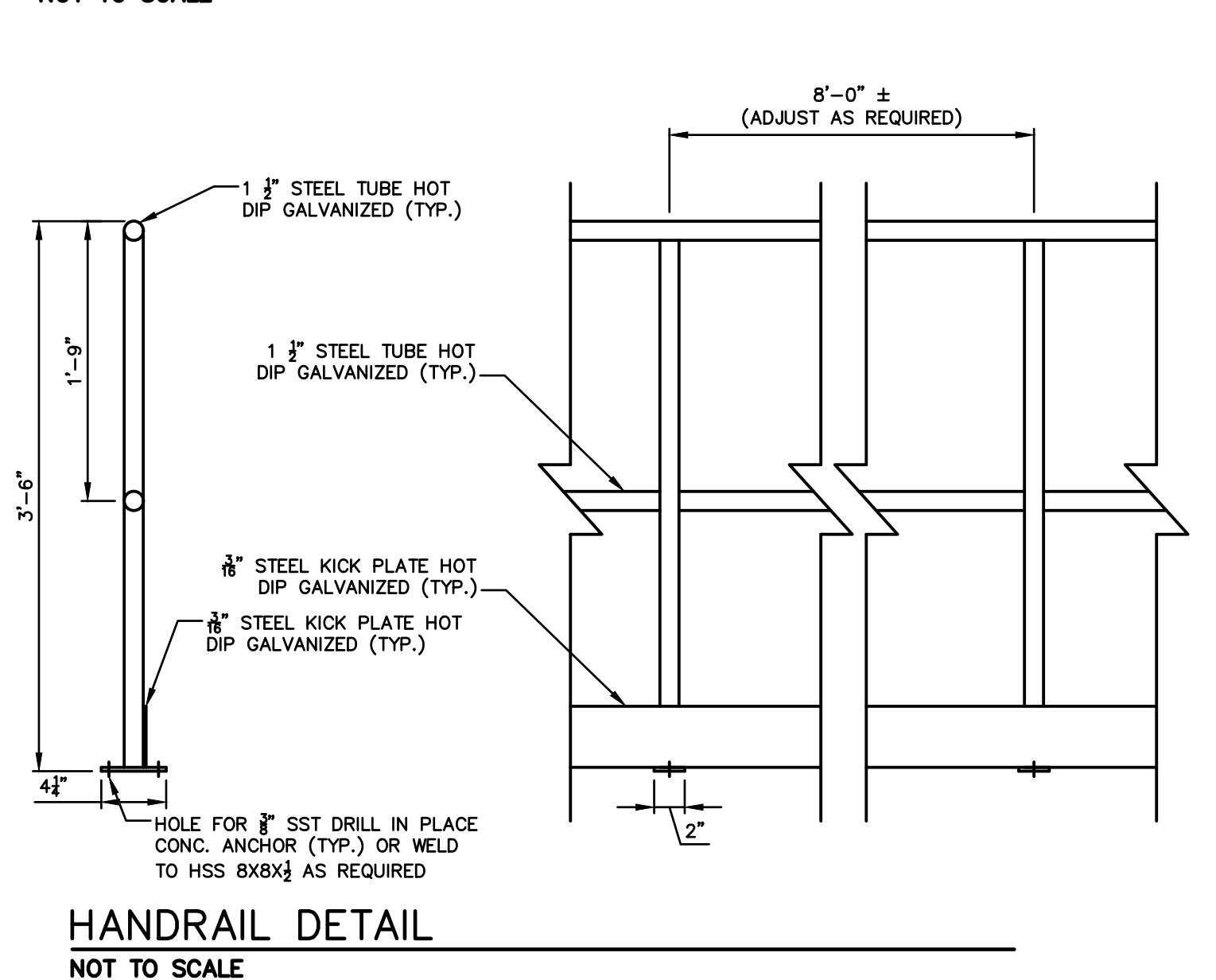
INFILL DETAIL FOR ARTICULATED CONCRETE BLOCK MATTING OUTSIDE OF ACCESS ROAD

NOT TO SCALE



FISHWAY GRATING DETAIL

NOT TO SCALE



- NOTES:
1. TWO 6-INCH WIDE RIGID BOARDS SHALL BE INSTALLED (SIDE BY SIDE) WITHIN THE EEL PASS CHANNEL SECTION. ONE SECTION OF RIGID BOARD SHALL CONTAIN A BRISTLE SUBSTRATE AND ONE SECTION SHALL CONTAIN A THIMBLE/DIMPLE SUBSTRATE.
  2. THE BRISTLE SUBSTRATE SHALL CONSIST OF 6-INCH WIDE RIGID BOARDS WITH A BRISTLE CLUSTER SPACING OF 20MM AS MANUFACTURED BY COTTAM BRUSH MANUFACTURERS OR APPROVED EQUAL. THE BRISTLES SHALL BE 2-1/2 INCHES IN HEIGHT (60MM).
  2. THE THIMBLE SUBSTRATE SHALL BE MOUNTED TO 6-INCH WIDE RIGID BOARD AND SHALL CONSIST OF THIMBLE/DIMPLES WITH A HEIGHT OF 0.95 INCHES, A TOP DIAMETER OF 0.40 INCHES, A BASE DIAMETER OF 0.65 INCHES, AND A THIMBLE/DIMPLE CENTER TO CENTER SPACING OF 1.24 INCHES (AMERICORE 100-06 AS MANUFACTURED BY AMERICAN WICK DRAIN OR APPROVED EQUAL).
  3. EEL PASSAGE COVER MATERIAL SHALL BE CONSISTENT WITH CHANNEL MATERIAL. EEL PASSAGE COVER NOT SHOWN FOR CLARITY.

TYPICAL ARTICULATED CONCRETE BLOCK MATTING CONCRETE JOINT CONNECTION

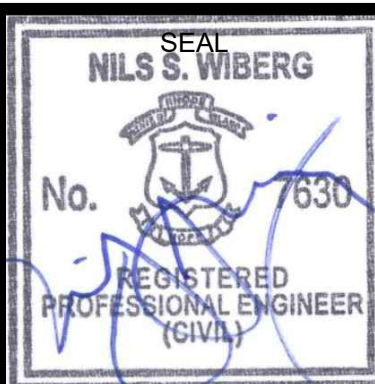
NOT TO SCALE

FISHWAY GRATING DETAIL

NOT TO SCALE

NOT FOR CONSTRUCTION

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SEAL

SCALE:

HORIZ.: 1" = 30'

VERT.: -

DATUM:

HORIZ.: -

VERT.: -

GRAPHIC SCALE

0 15' 30' 60'

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RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

CONSTRUCTION DETAILS

BLACKSTONE RIVER FISH PASSAGE RESTORATION PROJECT

MAIN STREET AND SLATER MILL DAMS

PAWTUCKET

RHODE ISLAND

PROJ. No.: 20170570.B30

DATE: DECEMBER 2025

**CD-503**

RECEIVED

1/2/2026

COASTAL RESOURCES MANAGEMENT COUNCIL

12/30/25