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

PUBLIC NOTICE

File Number:	2023-04-007	Date:	May 11, 2023	
This office has	under consideration the application of:			
	City of East Pr 145 Taunton			

East Providence, RI 02914

for a State of Rhode Island Assent to construct and maintain: a 250 +/- linear foot hybrid shoreline protection to protect a coastal bluff that has experienced major erosion. The hybrid shoreline protection will consist of a stone revetment backed by coir log system and a vegetated slope.

Project Location:	701 Bullocks Point Avenue
City/Town:	East Providence
Plat/Lot:	13 / 7,8
Waterway:	Providence River

Plans of the proposed work can be requested at 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.

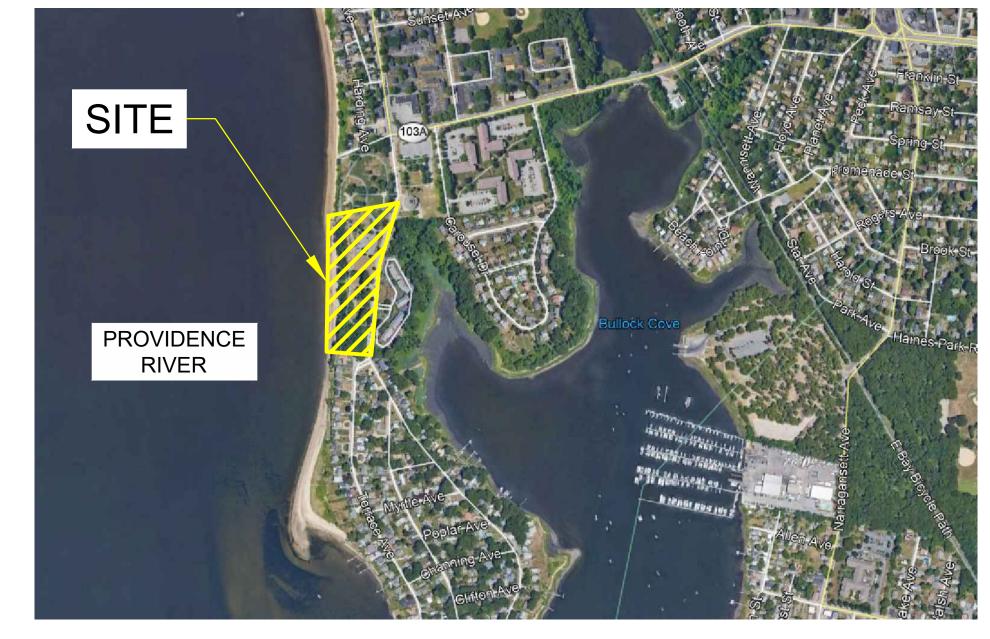
Please email your comments/hearing requests to: cstaffl@crmc.ri.gov; or mail via USPS to: Coastal Resources Management Council; O. S. Government Center, 4808 Tower Hill Road, Rm 116; Wakefield, RI 02879.

EMERGENCY SLOPE REPAIRS SOUTHERN SHORELINE ROSE LARISA MEMORIAL PARK

701 BULLOCKS POINT AVENUE EAST PROVIDENCE, RHODE ISLAND

INDEX

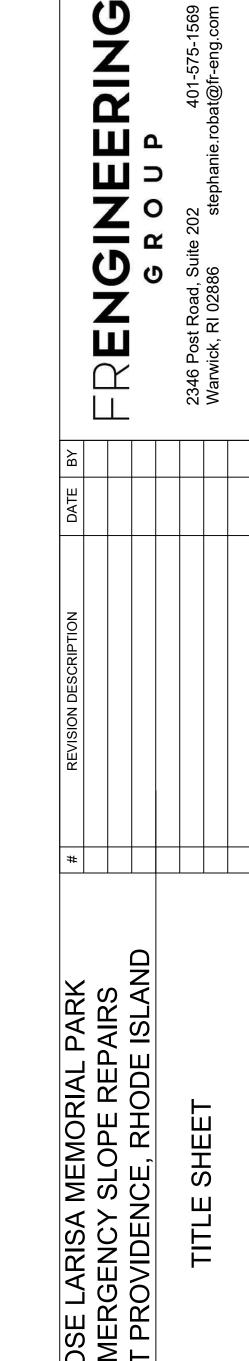
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PREPARED FOR
CITY OF EAST PROVIDENCE
145 TAUNTON AVENUE
EAST PROVIDENCE, RI 02914





PERMIT PLAN
SET

NOT FOR
CONSTRUCTION

DATE:
MARCH 23, 2023

DESIGN BY: SMR
DRAWN BY: SJR
CHECKED BY: SMR

PROJECT NUMBER:

SHEET 1 OF 1

© 2023 FR ENGINEERING GROUP,

- THERE IS LIMITED HYDROGRAPHIC SURVEY INFORMATION AVAILABLE FOR THIS SITE AS SHOWN ON THE CITY'S SURVEY PLAN. CHANGES TO ELEVATIONS ALONG THE SHORELINE SHOULD BE EXPECTED.
- SOUNDINGS AND UPLAND TOPOGRAPHY ARE REFERENCED TO NAVD88. BENCHMARKS ARE INDICATED ON THE CITY'S SURVEY PLAN.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN IS APPROXIMATE AND HAS NOT BEEN VERIFIED. THE DRAWINGS MAKE NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE DRAWINGS DO NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EXISTING CONDITIONS ARE NOT OBLITERATED BEFORE CONTROL POINTS ARE LOCATED AND CONSTRUCTION LAYOUT IS ESTABLISHED. THE CONSTRUCTION LAYOUT SHALL BE PROVIDED IN SUFFICIENT DETAIL, THEREBY ENABLING THEM TO CONSTRUCT THE PROJECT IN CONFORMITY WITH THE PLANS AND SPECIFICATIONS. SURVEY WILL BE PROVIDED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR LAYOUT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ROADWAYS FREE OF DEBRIS RESULTING FROM THEIR CONSTRUCTION OPERATIONS. ALL DEBRIS SHALL BE REMOVED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
- THE SOIL MANAGEMENT, EROSION CONTROL, AND SOIL STABILIZATION PROGRAMS SHALL BE ADHERED TO DURING THE ENTIRE DURATION OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY CONSTRUCTION OPERATIONS INCLUDING ALL ACTIONS OR OMISSION OF ANY SUBCONTRACTORS, AGENTS OR EMPLOYEES. THE CONTRACTOR MUST ENSURE THAT THE CONDITIONS OF ALL PERMITS, SPECIFICATIONS AND FEDERAL, STATE, AND LOCAL REGULATIONS ARE STRICTLY ENFORCED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL ASPECTS OF ON-SITE SAFETY INCLUDING ANY DAMAGE TO EXISTING STRUCTURES.
- THE BEACH IS TO REMAIN OPEN TO THE PUBLIC DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO PROVIDING SIGNS WARNING THE PUBLIC OF CONSTRUCTION ACTIVITIES WHICH MAY LIMIT ACCESS TO PORTIONS OF THE BEACH. CONTRACTOR CANNOT BLOCK PUBLIC ACCESS TO THE BEACH
- 10. WORK SHOWN ON THE PLANS FOR WHICH THERE ARE NO PARTICULAR DETAILS OR SPECIFICATIONS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THE WORK. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE CONTRACT DOCUMENTS AND PLANS AND INSPECT THE SITE, AND THE BID PRICE SHALL INCLUDE ALL SERVICES AND MATERIALS NECESSARY TO COMPLETE THE PROJECT. ANY CHANGES TO THE PROJECT OR THE INSTALLATION OF AN ITEM FOR WHICH NO PARTICULAR DETAIL OR SPECIFICATION WAS PROVIDED MUST BE REVIEWED BY AND MUST BE ACCEPTED AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL PROVIDE TREE PROTECTION DEVICE (RI STD. 51.1.0) AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- 12. ALL REMOVE AND STOCKPILE OR REMOVE AND SALVAGE ITEMS SHALL BE TRANSPORTED BY THE CONTRACTOR TO A DESIGNATED CITY SITE. THE COST FOR HAULING ITEMS DESIGNATED AS "REMOVE AND STOCKPILE" SHALL BE INCLUDED IN THE COST FOR THE ITEM.
- . PROVIDE ALL MATERIAL, EQUIPMENT, AND TOOLS NECESSARY TO COMPLETE THE WORK. THE OWNER WILL NOT PROVIDE SECURITY AND ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY MATERIALS, EQUIPMENT OR TOOLS STORED AT ITS PROPERTY.
- 14. ALL TYPES OF WASTE GENERATED AT THE SITE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH FEDERAL, STATE AND LOCAL
- 15. EXCAVATIONS SHALL CONFORM TO CURRENT OSHA REGULATIONS.
- 16. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN UNANTICIPATED OR APPARENTLY DANGEROUS CONDITIONS ARE UNCOVERED DURING CONSTRUCTION OR DEMOLITION.
- CONTRACTOR SHALL MAINTAIN ADEQUATE SURVEY CONTROL AT ALL TIMES TO ESTABLISH AND MAINTAIN ALL LINES AND ELEVATIONS.
- . CONTRACTOR SHALL AT ALL TIMES BE SOLELY RESPONSIBLE FOR EXERCISING REASONABLE PRECAUTION TO PROTECT THE HEALTH, SAFETY AND WELFARE OF ALL ON-SITE PERSONNEL, THE PUBLIC AND THE ENVIRONMENT DURING PERFORMANCE OF THE WORK DESCRIBED WITHIN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF FEDERAL STATE AND LOCAL HEALTH AND SAFETY AND OCCUPATIONAL HEALTH AND SAFETY STATUTES AND CODES.

GENERAL NOTES (CONTINUED):

- PERMITS, LICENSES, CERTIFICATES OF INSPECTION AND PAY ALL LEGAL FEES IN CONNECTION WITH THE WORK OF THIS CONTRACT. THE OWNER HAS OBTAINED NECESSARY REGULATORY PERMITS 2. ALL MAINTENANCE, POSITIONING AND PROTECTION OF SITE REQUIRED FOR THE WORK IN REGULATED AREAS. THE CONTRACTOR SHALL REQUEST COPIES OF THOSE REGULATORY PERMITS AND MAKE PROVISION IN THIS WORK AND IN THE COST OF THE WORK FOR ALL APPLICABLE CONDITIONS OF THOSE PERMITS. FAILURE TO CONSIDER ANY CONDITION OF THE REGULATORY PERMITS AS A PART OF THE BID SHALL NOT RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITY TO APPLY THOSE CONDITIONS TO THEIR WORK AT NO ADDITIONAL COST TO THE
- 20. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE PERMITS. THE CONTRACTOR IS ADVISED THAT THE REGULATORY PERMITS FOR THIS PROJECT MAY CONTAIN ADDITIONAL REQUIREMENTS THAT, AFTER ANY ADDENDUM, SUPERSEDE THE DRAWING NOTES. THE CONTRACTOR IS FURTHER ADVISED THAT IN THE CASE OF ANY DISCREPANCIES WITHIN THE CONTRACT DOCUMENTS FOUND BEFORE CONSTRUCTION, THE FINAL DECISION AS TO WHAT INFORMATION TAKES PRECEDENCE WILL BE MADE BY THE ENGINEER OF RECORD ON THE BASIS OF THAT INTENT.
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT & POSITIONING OF ALL PROPOSED STRUCTURES AS SHOWN ON THE PROJECT DRAWINGS.

DRAINAGE AND UTILITY NOTES:

- PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL CHECK AND VERIFY LOCATIONS OF ALL EXISTING UTILITIES, BOTH UNDERGROUND AND OVERHEAD. ANY 3. FEMA 100 YEAR (1%) SWL IS EL 11.6 FT NAVD88. DAMAGE TO EXISTING UTILITIES SHALL BE BORN BY THE UTILITY MEMBER COMPANIES ARE NOTIFIED.
- FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING PERIODS
- CONTRACTOR SHALL CONTACT DIGSAFE (811 OR DIGSAFE.COM) TO NOTIFY MEMBER UTILITIES TO HAVE THE SITE MARKED PRIOR TO START OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR 7. COORDINATING WORK WITH SUCH UTILITIES.

EROSION CONTROL AND SOIL STABILIZATION:

- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING THE PROVIDENCE RIVER AND ANY PORTION OF THE CITY DRAINAGE SYSTEM AND/OR ADJACENT PROPERTY.
- STAKED HAY BALES OR SILT FENCES SHALL BE INSTALLED AS REQUIRED TO PREVENT SEDIMENTATION INTO THE PROVIDENCE RIVER AND/OR ONTO ADJACENT PROPERTIES.
- DISTURBED SLOPES SHALL NOT BE EXPOSED FOR EXCESSIVE PERIODS OF TIME. THE ONSITE SOILS HAVE A HIGH EROSION POTENTIAL. EXCAVATED SLOPES SHALL BE PROTECTED FROM 2. EROSION (PLASTIC SHEETING, RIP RAP WITH FILTER FABRIC, OR OTHER EFFECTIVE MEASURES).
- STOCKPILES SHALL HAVE NO SLOPE STEEPER THAN 2:1 AND SHALL BE SURROUNDED BY STAKED HAY BALES. STOCKPILES ARE NOT TO BE LEFT ON THE BEACH.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE DURING CONSTRUCTION AND SHALL INSPECT/REPLACE AS NEEDED.
- SANDBAGS SHALL BE USED TO DIVERT STORM WATER RUNOFF AWAY FROM EXPOSED SLOPES AND INTO A NEARBY CATCH BASIN
- ADDITIONAL HAY BALES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER, OWNER, CITY REPRESENTATIVES OR REGULATORY AGENCY HAVING JURISDICTION.
- THE CONTRACTOR SHALL REGULARLY SWEEP AND MAINTAIN BEACH ROAD AND BULLOCKS POINT AVENUE, KEEPING THEM FREE OF TRACKED SEDIMENT AND DEBRIS

MAINTENANCE AND PROTECTION OF SITE:

- ANY COST ASSOCIATED WITH ALL MAINTENANCE, POSITONING AND 10. PROTECTION OF THE SITE PROTECTION COMPONENTS SUCH AS FENCING AND EROSION CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONTRACT.
- PROTECTION COMPONENTS SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE PLANS AND AS SITE CONDITIONS DICTATE. CONSULT THE OWNER'S REPRESENTATIVE IN REGARD TO RESTRICTING PUBLIC ACCESS TO THE BEACH FRONT PORTION OF THE WORK ZONE. ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO PERFORMING ANY CONSTRUCTION OPERATIONS WHICH MAY POSE A HAZARD TO TRAFFIC.
- 3. TEMPORARY CONSTRUCTION SIGNS SHALL NOT BE PLACED SO THEY ENCROACH ON OPEN LANES OF TRAFFIC.
- PROJECT REGULATORY PERMITS AND ALL CONDITIONS OF THOSE 4. ALL SIGNS AND BARRICADES ARE TO BE PLACED AND RELOCATED BY THE CONTRACTOR AS SHOWN ON THE PLANS OR AS DIRECTED BY DEMOLITION NOTES: THE ENGINEER. THE COST FOR THE RELOCATIONS SHALL BE INCLUDED IN THE BASE BID.
 - ANY SUBCONTRACTORS EMPLOYED BY THE CONTRACTOR OR THE CITY OF EAST PROVIDENCE ON THIS PROJECT SHALL WORK WITHIN THE SAME PROTECTED WORK AREAS AS THE CONTRACTOR.
 - TEMPORARY CONSTRUCTION SIGNS AND DRUMS SHALL BE IN PLACE PRIOR TO THE START OF WORK.

REVETMENT DESIGN CRITERIA

- 1. ALL DIMENSIONS ARE IN DECIMAL FEET UNLESS OTHERWISE NOTED. ELEVATIONS ARE IN FEET REFERENCED TO NAVD88.
- LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN 2. TIDAL RANGE IS 4.41 FEET ACCORDING TO THE NOAA STATION IN PROVIDENCE, RHODE ISLAND.
- CONTRACTOR. NO EXCAVATION SHALL BE DONE UNTIL ALL INVOLVED 4. FEMA 100 YEAR (1%) MAXIMUM WAVE CREST ELEVATION IS 16.9 FT NAVD88 ALONG THIS PORTION OF SHORELINE.
- DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE 5. BASE FLOOD ELEVATION (BFE) IS 20 FEET NAVD88 ALONG THIS PORTION OF THE SHORELINE.
 - 6. THE CORRESPONDING 100 YEAR (1%) SIGNIFICANT WAVE HEIGHT IS
 - THE REVETMENT AREA IS DESIGNED FOR THE SIGNIFICANT WAVE HEIGHT OF 7.6 FT AND A MAXIMUM SLOPE OF 1.5:1.
 - 8. FEMA HAS ISSUED THE PRELIMINARY FIS NO. 44007CV001D, REVISED JULY 19, 2023. THE TOP OF THE REVETMENT STONE HAS BEEN SET TO EL. 20 FEET TO REFLECT BFE PROVIDED FOR THE SITE IN THE PRELIMINARY FIS REPORT.

REVETMENT CONSTRUCTION NOTES

- THE REVETMENT IMPROVEMENTS FOR THIS PROJECT SHALL INCLUDE SOUTHERN PORTION OF THE PARK'S SHORELINE AND THE EXPERIMENTAL EROSION CONTROL AREA.
- THE ARMOR STONES SHALL GENERALLY BE PLACED IN A TWO-LAYER THICKNESS.
- 3. ALL STONES USED IN THE CONSTRUCTION OF THE NEW REVETMENT SHALL BE HARD, DURABLE, AND CLEAN, WITHOUT CRACKS, CLEAVAGES OR LAMINATIONS. THEY SHOULD BE CHEMICALLY TO TEMPERATURE CHANGES OR WET/DRY CYCLES.
- ARMOR STONES SHALL BE GRADED SUCH THAT THE SMALLEST DIMENSION.
- THE SIZE OF THE ARMOR STONES SHALL BE A MAXIMUM OF 1.25 W SPECIFIED FOR THE PROJECT HEREIN). APPROXIMATELY 50 PERCENT OF THE STONES SUPPLIED FOR THIS PROJECT SHALL BE EQUAL TO, OR LARGER THAN, W.
- ALL STONES SHALL BE MARKED WITH THEIR WEIGHT AT THE QUARRY BEFORE LOADING. THIS SHALL BE SPRAY PAINTED ON THE AND MUST BE RETURNED TO THE QUARRY.
- 7. ARMOR UNITS IN THE COVER LAYER SHALL BE PLACED IN AN ORDERLY MANNER TO OBTAIN GOOD WEDGING OR INTERLOCKING PLANTING NOTES: ACTION BETWEEN INDIVIDUAL UNITS. THE SAME IS REQUIRED FOR THE UNDERLAYER PLACEMENT, IF REQUIRED.
- ARMOR STONES IN THE TOP LAYER SHALL BE PLACED TO CREATE A ROUGHENED SURFACE AT THE TOP. THEY SHALL NOT BE PLACED TO PROMOTE GREATER RUNUP FROM WAVES. THE SURFACE SHOULD BE IRREGULAR TO BETTER REDUCE WAVE ENERGY TO PROVIDE RUNUP CONTROL AND WAVE DISSIPATION.
- ARMOR UNITS SHALL BE PLACED IN A TIGHT MANNER TO ADJACENT STONES TO AVOID LARGE VOIDS. THIS SHALL REQUIRE THE 4. THE CONTRACTOR SHALL WARRANTY ALL PLANTS FOR A PERIOD OF OPERATOR PLACING THE STONES TO SELECT STONES WITH THE APPROPRIATE GEOMETRY. THE POROSITY OF THE NEW ARMOR LAYER SHALL NOT BE GREATER THAN 37% AFTER PLACEMENT POROSITY IS DEFINED AS THE VOLUME OF THE VOIDS DIVIDED BY THE TOTAL VOLUME MULTIPLIED BY 100.

REVETMENT CONSTRUCTION NOTES CONTINUED

THE SOIL SUBGRADE REQUIRES THE USE OF GEOTEXTILE FABRICS BEFORE ARMOR STONE PLACEMENT. THREE LAYERS OF GEOTEXTILE FABRIC ARE REQUIRED AGAINST ALL SOIL/COBBLE INTERFACES ABOVE 0.0' MLW. THIS SHALL BE COMPRISE OF 2 LAYERS OF MIRAFI 140N OR EQUIVALENT PLACED ON THE SOIL WITH A LAYER OF MIRAFI 600X OR EQUIVALENT PLACED ABOVE. THE 140N IS REQUIRED TO ACT AS A FILTER TO STOP THE MIGRATION OF FINE SOIL INTO/THROUGH THE REVETMENT STONE. THE 600X IS LARGE STONES AND CONSTRUCTION ACTIVITY. ADDITIONAL LAYERS OF GEOTEXTILE FABRIC SHALL BE REQUIRED IF IT IS DETERMINED THAT THE 3 LAYER FABRIC SYSTEM IS BEING DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL NOT PUSH OR DRAG ARMOR OVERLAP AT SEAMS IS REQUIRED AFTER ALL STONE IS IN PLACE. THIS WILL REQUIRE AN INITIAL OVERLAP OF MORE THAN 12" PRIOR TO PLACEMENT OF STONE. FABRIC SHALL BE INSTALLED LOOSELY.

- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) ALL MATERIALS INDICATED ON THE PLANS UNLESS OTHERWISE NOTED HEREIN. R&D MATERIALS TO INCLUDE BUT NOT LIMITED TO PAVEMENT, EXCESS SOIL, TEMPORARY RIP-RAP, VEGETATION, TIMBER STAIRS, AND DEBRIS ON BEACH ALONG THE ALIGNMENT OF THE REVETMENT. THE EXISTING CONDITIONS SHOWN ON THE PLAN ARE ASSUMED BASED ON THE SURVEY PLAN PROVIDED TO FREG. CONTRACTOR SHOULD CARRY CONTINGENCY IN PRICING FOR DIFFERENCES IN CONDITIONS SHOWN, INCLUDING BUT NOT LIMITED TO:
- DISCOVERY OF ABANDONED STRUCTURES OR FOOTINGS,
- 1.3. DISCOVERY OF ABANDONED OR ACTIVE UTILITIES
- OWNER'S DISCRETION AND AT THE CONTRACTOR'S EXPENSE
- CONTRACTOR SHALL INSTALL TEMPORARY PROTECTION MEASURES WHILE WORKING NEAR THE TIMBER STAIRCASE. ANY DAMAGE TO THE STAIRS WILL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE
- ALL DUMPED MATERIALS FROM THE PROJECT, INCLUDING BUT NOT LIMITED TO GARBAGE, TRASH AND LIKE MATERIAL. THE PROPER DISPOSAL OF MATERIAL SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- THE SHORELINE BETWEEN THE EXISTING REVETMENT ALONG THE 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WITH ANY DAMAGE TO EXISTING ACTIVE UTILITIES.
- AND A MINIMUM OF 0.75 W (WHERE "W" IS THE AVERAGE WEIGHT 11. ACTIVE UTILITY LINES AND STRUCTURES NOT SPECIFICALLY NOTED ON THE PLANS, SHALL BE LOCATED AND THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER AND OWNER. NO WORK TO RELOCATE, REMOVE OR ABANDON THESE UTILITIES SHALL BE PERFORMED UNLESS WRITTEN APPROVAL FROM THE UTILITY COMPANIES AND ENGINEER IS OBTAINED.
- INDIVIDUAL STONES. ANY STONE NOT MARKED WILL BE REJECTED 12. CONTRACTOR SHALL COORDINATE THE CUTTING AND CAPPING OF ALL EXISTING UTILITY CONNECTIONS WITH ALL APPLICABLE COMPANIES HAVING JURISDICTION.
 - AND FREE OF INSECTS AND DISEASE.
 - HARDWOOD BARK MULCH.
 - RECOMMENDED PLANTING DATES ARE MARCH 15 TO JUNE 15 AND SEPTEMBER 15 TO NOVEMBER 15.
 - DEFECTS INCLUDING DEPTH AND UNSATISFACTORY GROWTH.
 - AFTER ONE YEAR SHALL BE REPLACED BY THE CONTRACTOR.

LOAMING AND SEEDING

- AFTER ROUGH GRADING IS COMPLETED, ALL DISTURBED AREAS WHICH ARE LABELED AS GRASS OR WAS PREVIOUSLY GRASS COVERED. ARE TO BE BROUGHT TO AN ELEVATION OF 4" BELOW FINISHED GRADE. IF COMPACTED, THE SUBGRADE IS TO BE SCARIFIED TO A DEPTH OF 12" WITH THE TEETH OF A BACKHOE TO RESULT IN AN UNCOMPACTED SUBSOIL. THEN 6" OF GOOD QUALITY TOPSOIL IS TO BE APPLIED AND RAKED TO FINISHED GRADE.
- REQUIRED TO PROTECT THE 140N FROM BEING DAMAGED BY THE 2. THE TOPSOIL IS TO BE GOOD QUALITY LOAM, FERTILE AND FREE OF WEEDS, STICKS, AND STONES OVER 3/4" IN SIZE AND OTHERWISE COMPLYING WITH SECTION M.18.01 OF THE RI DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- STONE ON FILTER FABRIC AFTER PLACEMENT. A MINIMUM 12" 3. PRIOR TO SEEDING OR SODDING, FERTILIZE WITH 10-10-10 OR EQUIVALENT ANALYSIS. AT LEAST 40% OF THE FERTILIZER NITROGEN SHALL BE SLOW RELEASE FORM. INCORPORATE THE FERTILIZER INTO THE TOP 2" OF THE PLANTING SOILS. APPLY AT A RATE OF 8 LBS. PER 1000 SQUARE FEET.
 - 4. LIME IS TO BE APPLIED AT A RATE OF ONE TON PER ACRE AND UNIFORMLY INCORPORATED INTO THE TOP 2" OF TOPSOIL
 - SEED SHALL BE URI #2 IMPROVED MIX OR APPROVED EQUAL. APPLY AT A RATE OF 5 TO 7 POUNDS PER 1000 SQUARE FEET.
 - RECOMMENDED SEEDING DATES ARE MARCH 15 TO JUNE 15 AND SEPTEMBER 15 TO NOVEMBER 15.
 - RATHER THAN SEEDING AS DESCRIBED ABOVE, THE CONTRACTOR MAY HYDROSEED USING AN EQUIVALENT SEED MIX.

REFERENCE PLANS, DESIGN AND DETAIL/SPEC DOCUMENTS

- EXISTING TOPOGRAPHIC AND GENERAL CONDITIONS INFORMATION IN THE ANTICIPATED CONSTRUCTION AREA IS FROM THE AUTOCAD FILE TITLED "2020050.DWG", PROVIDED ELECTRONICALLY TO FREG ON MARCH 31, 2021 BY THE CITY OF EAST PROVIDENCE. A LIMITED SURVEY OF THE EMERGENCY REVETMENT WORK WAS CONDUCTED DECEMBER 14, 2021 PRIOR TO COMPLETION OF THE EMERGENCY WORK. THE AUTOCAD FILES PROVIDED, WAS USED TO CREATE THE BASE PLAN FOR THESE DRAWINGS. EXISTING CONDITIONS SHOWN ARE APPROXIMATE.
- HORIZONTAL CONDITIONS, PROPERTY LINES AND BUILDING LOCATIONS, ETC, ARE SHOWN ON THE SURVEY PLANS REFERENCED ABOVE.
- EXISTING SITE GRADES MAY VARY FROM WHAT IS SHOWN DUE TO RECENT EROSION FROM DEC. 23, 2022 STORM. VARIATIONS MAY INCLUDE, BUT NOT LIMITED TO SITE GRADE, EXISTING STRUCTURE GEOMETRY AND STRUCTURE LOCATION.
- 4. FEMA FLOOD INSURANCE STUDY 44007CV001C, PROVIDENCE COUNTY RHODE ISLAND, REVISED OCTOBER 2, 2015.
- FEMA FLOOD INSURANCE STUDY 44007CV001D, PROVIDENCE COUNTY, RHODE ISLAND, REVISED JULY 19, 2023.
- 6. US ARMY CORPS OF ENGINEERS SHORE PROTECTION MANUAL, 1984

COASTAL CONSTRUCTION MANUAL, FEMA 55

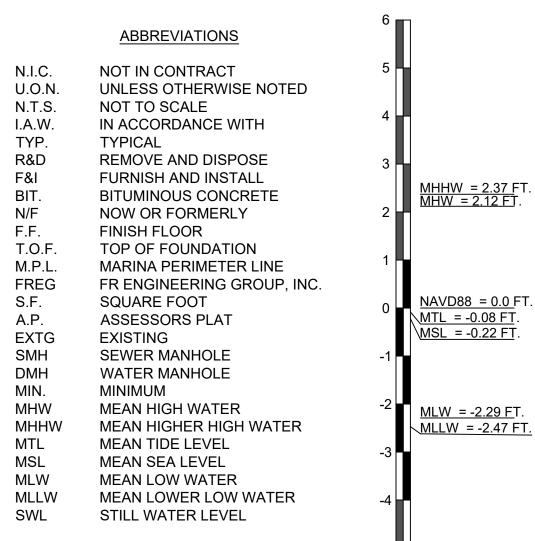
STEPHANIE M. ROBAT

SECTION OF

REGISTERED

PROFESSIONAL ENGINEER

CIVIL 3/23/23



DATE: **ELEVATION STATION 8454000 LOCATED IN**

22006.00

INFORMATION FOR NOAA TIDAL

DATUM INFORMATION

PROVIDENCE, RHODE ISLAND - VERTICAL

DATUM IS NAVD88

PERMIT PLAN SET **NOT FOR** CONSTRUCTION

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MARCH 23, 2023

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Section 1

DESIGN BY: SMR DRAWN BY: SJR CHECKED BY: SMR PROJECT NUMBER:

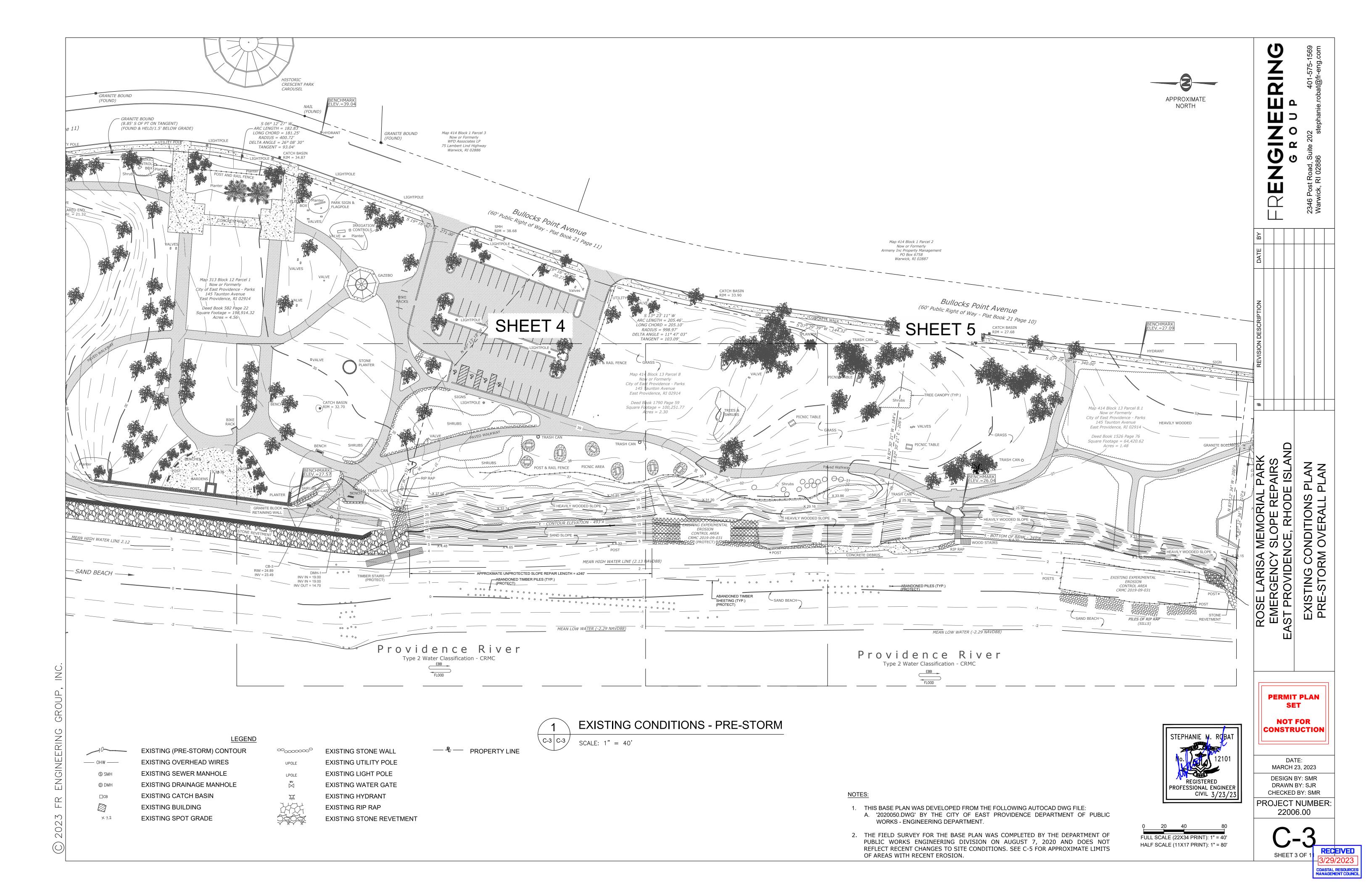
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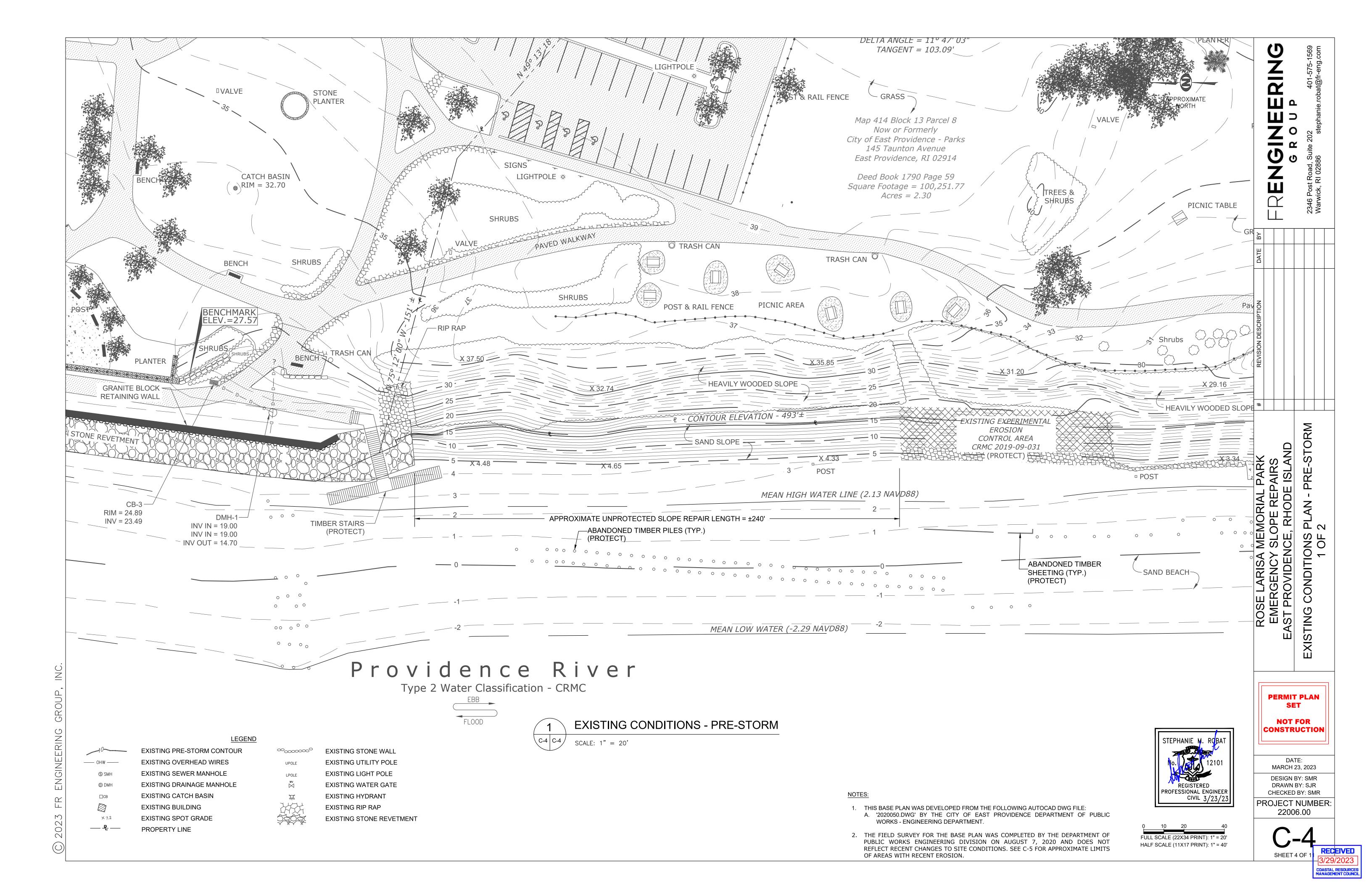
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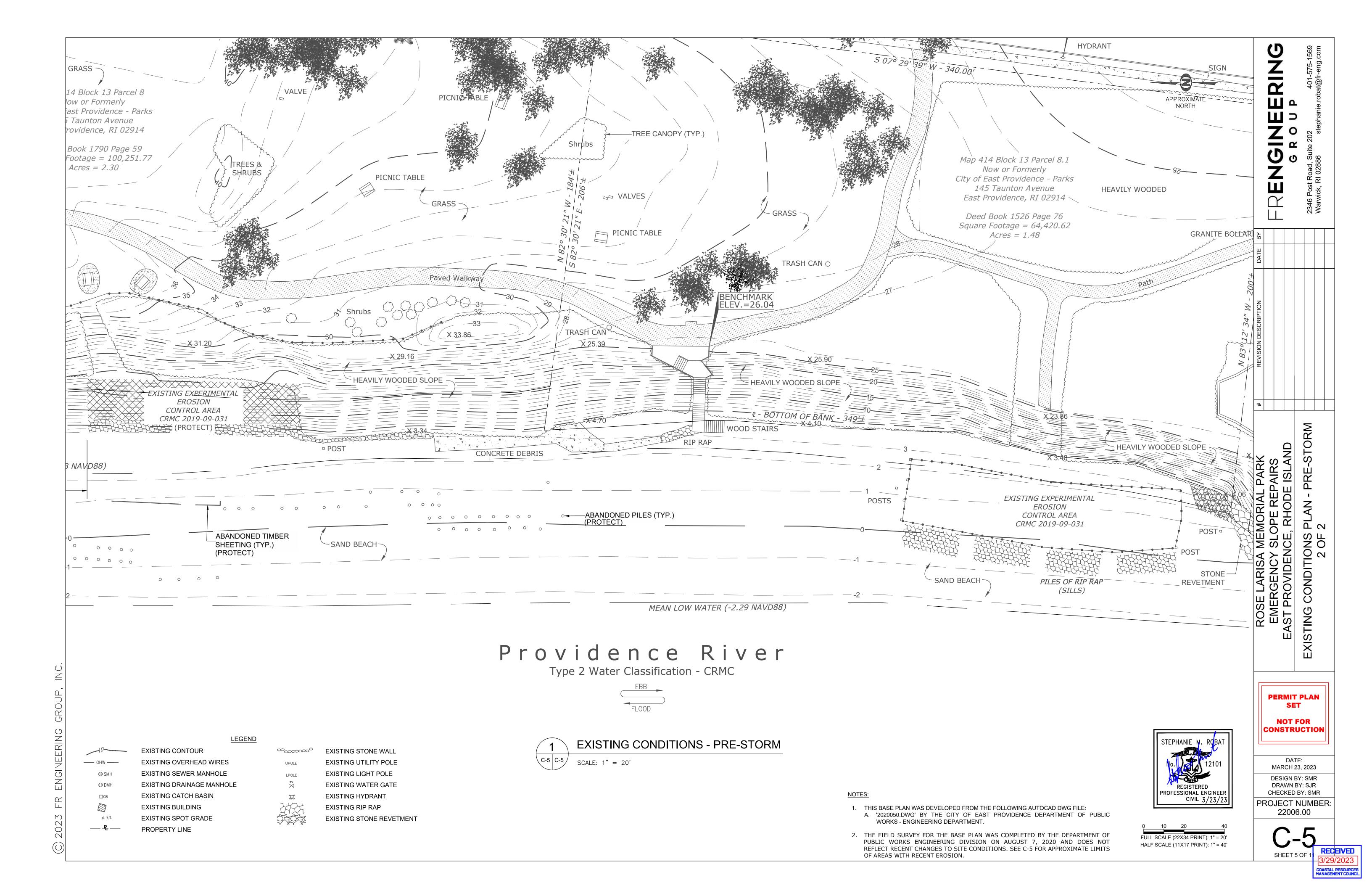
- 1.2. PAVEMENT, CURBING, OR CONCRETE AREAS WITH ATYPICAL DEPTHS OR FOOTINGS
- HOURS OF CONSTRUCTION OPERATIONS ARE TO BE PER LOCAL ORDINANCES. WEEKEND WORK MAY BE LIMITED BY THE CITY. CITY TO PROVIDE WRITTEN APPROVAL FOR ALL WEEKEND WORK
- 3. CLEARING AND GRUBBING IS NOT TO EXTEND BEYOND THE LIMIT OF
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND 2 . PROTECTING ALL EXISTING SITE FEATURES TO REMAIN. ANY DAMAGE TO SAID FEATURES SHALL BE REPAIRED OR REPLACED AT THE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF
- EXISTING UTILITIES TO REMAIN AND PROTECTING DAMAGE DURING DEMOLITION OPERATIONS. THE SITE CONTRACTOR IS RESPONSIBLE FOR ALL REPLACEMENT AND COORDINATION COSTS ASSOCIATED
- CONTRACTOR SHALL COORDINATE WITH THE CITY TO LOCATE AND REPAIR IRRIGATION LINES WHICH BECOME DAMAGED DURING DEMOLITION.
- STABLE IN FRESH OR SALT WATER AND SHOULD NOT WEATHER DUE 9. ALL INACTIVE UTILITY LINES, PIPES, AND STRUCTURES DISCOVERED TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED AND DISPOSED UNLESS OTHERWISE NOTED.
- DIMENSION SHOULD NOT BE LESS THAN ONE-THIRD OF THE LARGEST 10. INACTIVE UTILITIES NOT IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR ANY UNDERGROUND STRUCTURES MAY BE ABANDONED IN PLACE UNLESS OTHERWISE NOTED ON THE PLANS.

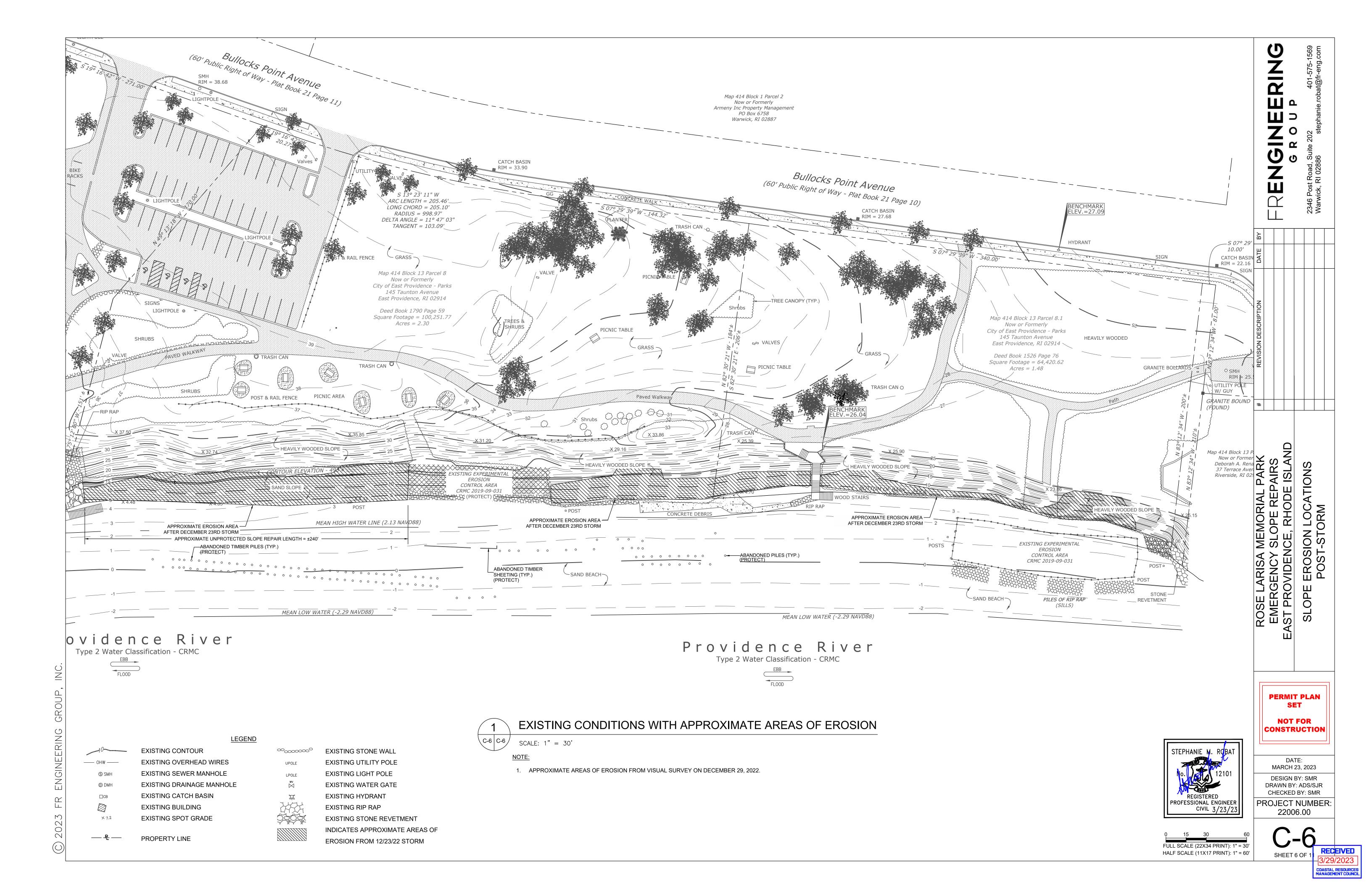
- DELIVER SHRUBS WHICH ARE BALLED AND BURLAPPED OR IN NURSERY CONTAINERS. ALL PLANTS ARE TO BE HEALTHY, VIGOROUS
- CREATE A SMOOTH SURFACE. A SMOOTH SURFACE WOULD 2. ALL PLANTINGS BEDS ARE TO BE COVERED WITH 2" OF SHREDDED

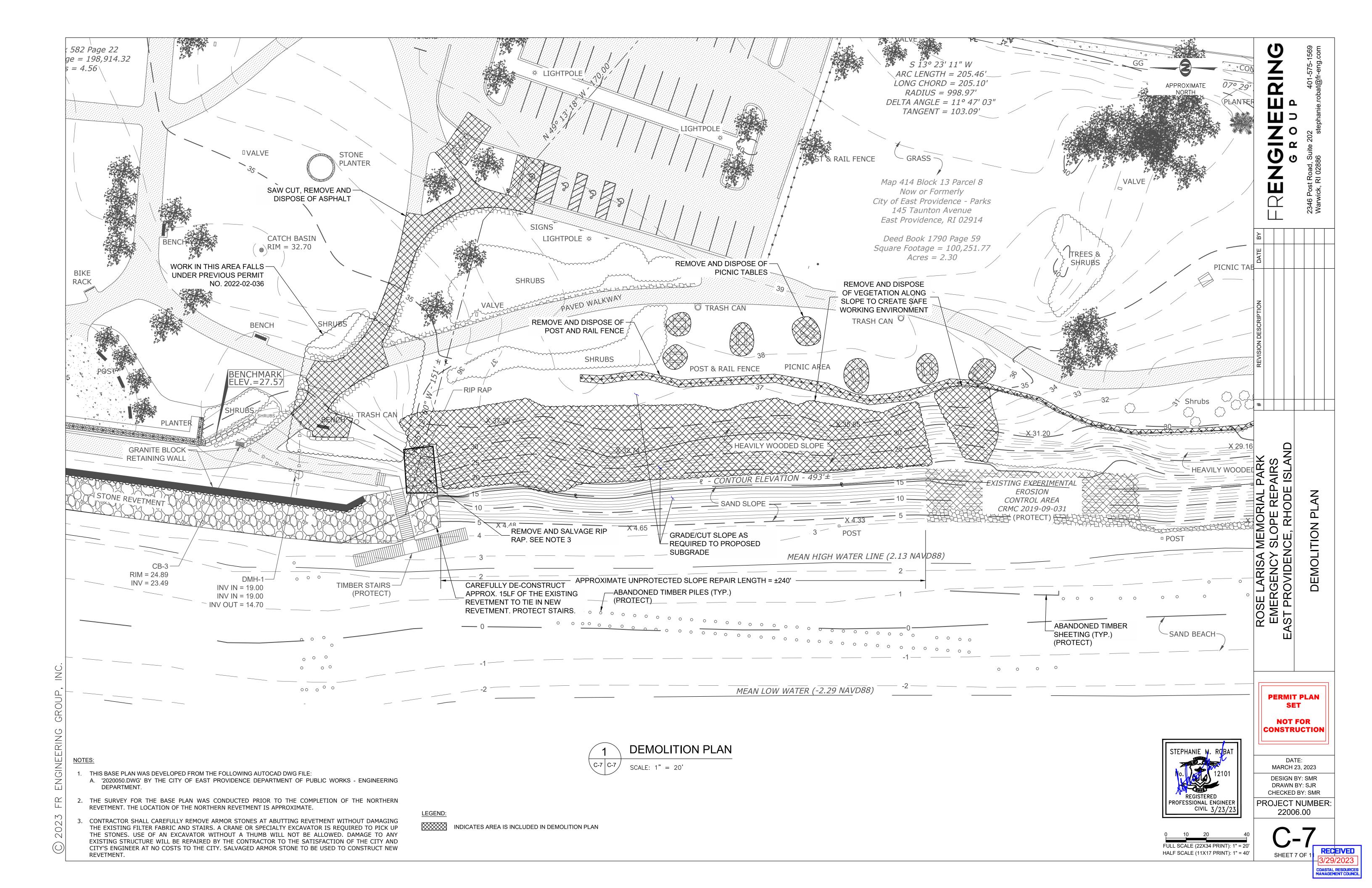
 - ONE YEAR AFTER THE DATE OF SUBSTANTIAL COMPLETION AGAINST
 - ANY PLANT WHICH IS NOT HEALTHY AND GROWING VIGOROUSLY

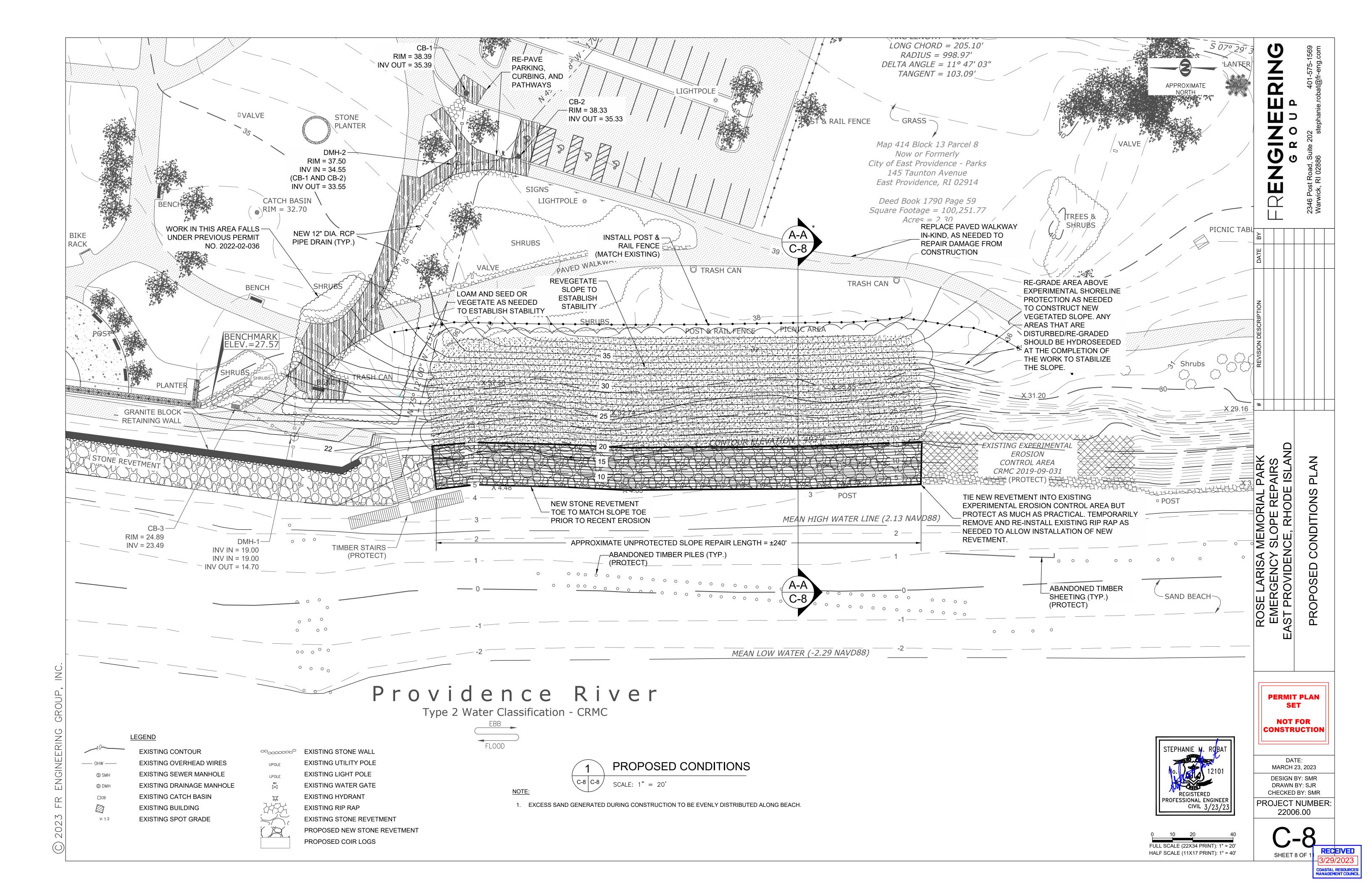








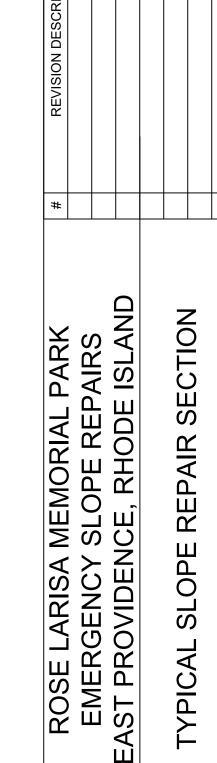






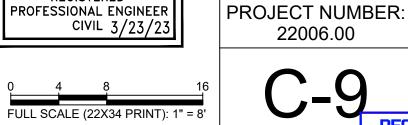
NOTES:

- 1. A TWO ARMOR STONE LAYER REVETMENT SYSTEM IS SHOWN. A THIRD LAYER OF STONE MAY BE REQUIRED DEPENDING ON THE ACTUAL SIZE AND GEOMETRY OF THE STONES PLACED TO MEET THE MINIMUM TOP OF REVETMENT ELEVATION.
- 2. RECENTLY ERODED AREAS ARE NOT REFLECTED IN THE SHOWN APPROXIMATE EXISTING GRADE.
- 3. FEMA HAS ISSUED THE PRELIMINARY FIS NO. 44007CV001D, DATED JULY 19, 2023 FOR PROVIDENCE COUNTY, RHODE ISLAND. THE TOP OF THE REVETMENT STONE HAS BEEN SET TO EL. +20 FT TO REFLECT THE BFE PROVIDED FOR THE SITE IN THE PRELIMINARY REPORT.



RING

STEPHANIE M. ROBAT REGISTERED PROFESSIONAL ENGINEER CIVIL 3/23/23



HALF SCALE (11X17 PRINT): 1" = 16' SHEET 9 OF 1

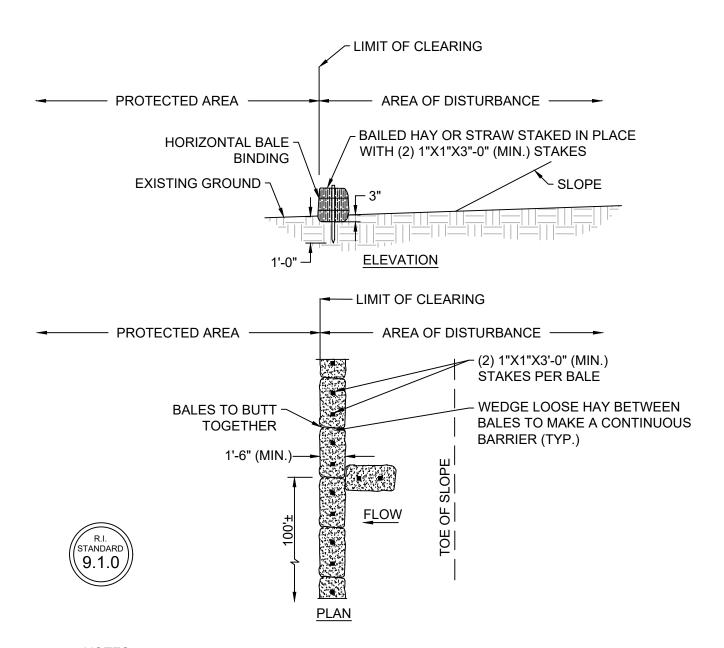
PERMIT PLAN SET

NOT FOR

CONSTRUCTION

MARCH 23, 2023

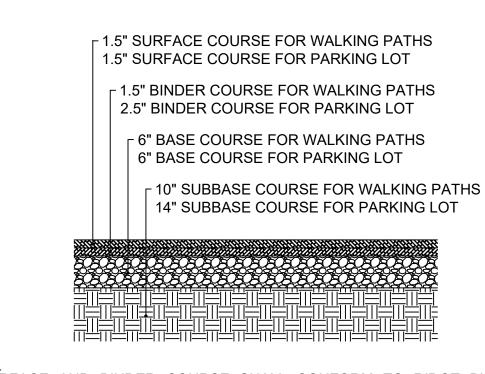
DESIGN BY: SMR DRAWN BY: SMR CHECKED BY: SJR



1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE RHODE ISLAND STANDARD SPECIFICATIONS.

2. AT APPROXIMATE 100' INTERVALS, A BALE OF HAY IS TO BUTT PERPENDICULARLY





CATCH BASIN -

WITH GRATE

(2) 1"X1"X3'-0" -STAKES PER BALE

SPECIFICATIONS.

SCALE: NTS

HORIZONTAL BALE -

COMPACTED SOIL

SUBGRADE -

1. SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND STANDARD

2. THIS INLET PROTECTION CAN ALSO BE USED WHEN

3. THE PERIMETER CONFIGURATION OF THE BALED HAY WILL

CONSTRUCTION SEQUENCING REQUIRES A CATCH BASIN TO BE

EXPOSED TO SEDIMENT FROM THE SUBGRADE. THIS WILL BE

ACHIEVED BY INSTALLING THE BALED HAY AS SHOWN ON THIS

VARY DEPENDING ON THE PARTICULAR TYPE OF CATCH BASIN

BALED HAY CATCH BASIN INLET PROTECTION

TO PREVENT PIPING

DETAIL IN TO THE SUBGRADE.

INLET BEING CONSTRUCTED.

BINDING (TYP.)

- BALED HAY OR

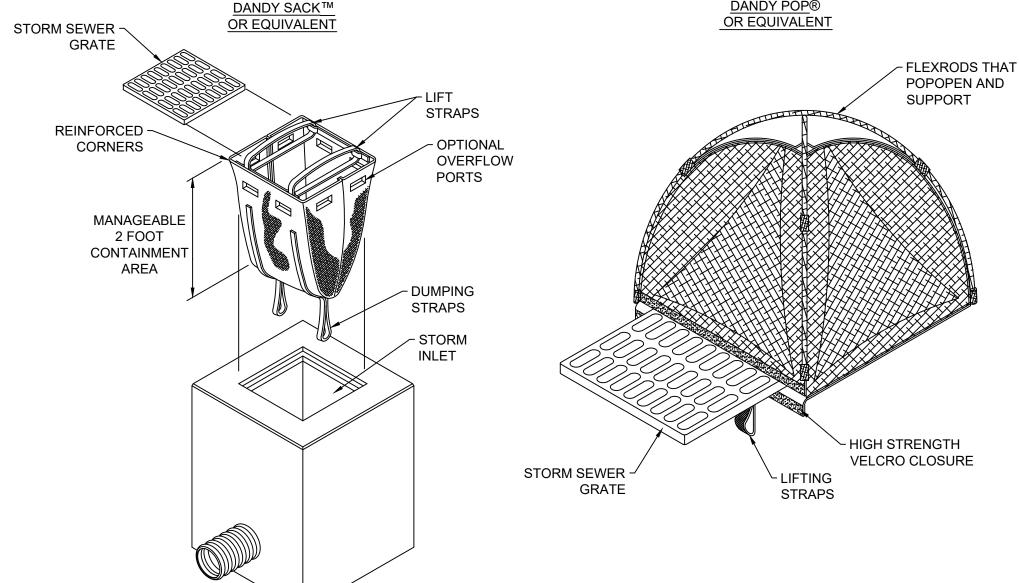
PLACE

STRAW STAKED IN

(9.8.0)

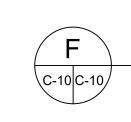


- BASE COURSE SHALL BE GRAVEL BORROW CONFORMING TO RIDOT BLUEBOOK M01.09, TABLE 1,I, "GRAVEL BORROW", 1A (<8 PASSING #200 SIEVE).
- SUBBASE SHALL BE PERVIOUS FILL CONFORMING TO RIDOT BLUEBOOK M01.09, TABLE 1, IV, "PREVIOUS FILL", TYPE D.
- 4. EXPOSED SUBGRADE SHALL BE PROOF ROLLED OR PROOF COMPACTED PRIOR TO PLACING SUBBASE. WEAK AREAS SHALL BE EXCAVATED AND REPLACED WITH PERVIOUS FILL COMPACTED TO A MIN. 95% OF THE MODIFIED PROCTOR DENSITY.
- 5. BASE AND SUBBASE COURSES SHALL BE COMPACTED TO A MIN. OF 95% OF THE MODIFIED PROCTOR DENSITY.
- RE-STRIPE PAVEMENT WHERE NEEDED TO MATCH EXISTING CONDITIONS.



1. SHALL BE INSTALLED AND MAINTAINED PER THE MANUFACTURER'S RECOMMENDATIONS.

CATCH BASIN SEDIMENT PROTECTION SCALE: NTS



REGISTERED ROFESSIONAL ENGINEER CIVIL 3/23/23

RING **Z** °

ROSE LARISA MEMORIAL I EMERGENCY SLOPE REP AST PROVIDENCE, RHODE

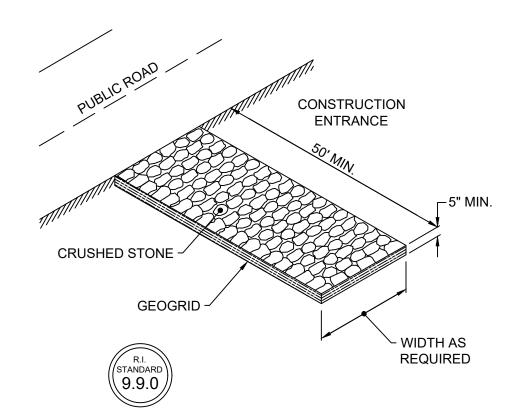
PERMIT PLAN SET **NOT FOR**

DATE:

CONSTRUCTION

MARCH 23, 2023 **DESIGN BY: SMR** DRAWN BY: SJR CHECKED BY: SMR PROJECT NUMBER:

22006.00

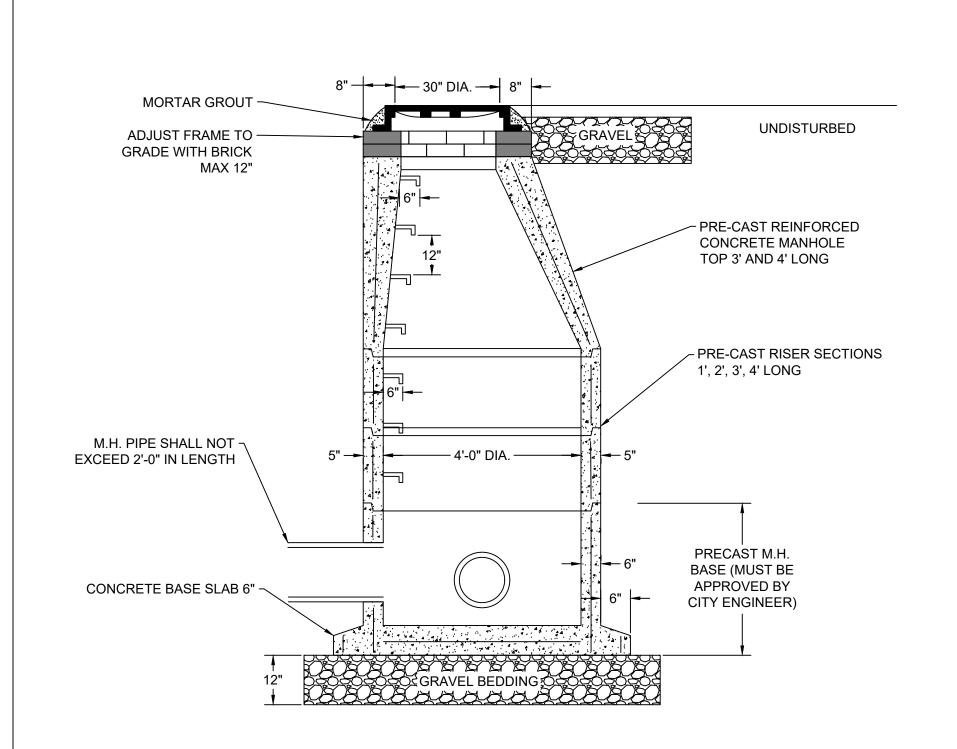


SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE RHODE ISLAND STANDARD SPECIFICATIONS.

CONSTRUCTION ENTRANCE ∖C-10|C-10*|* SCALE: NTS

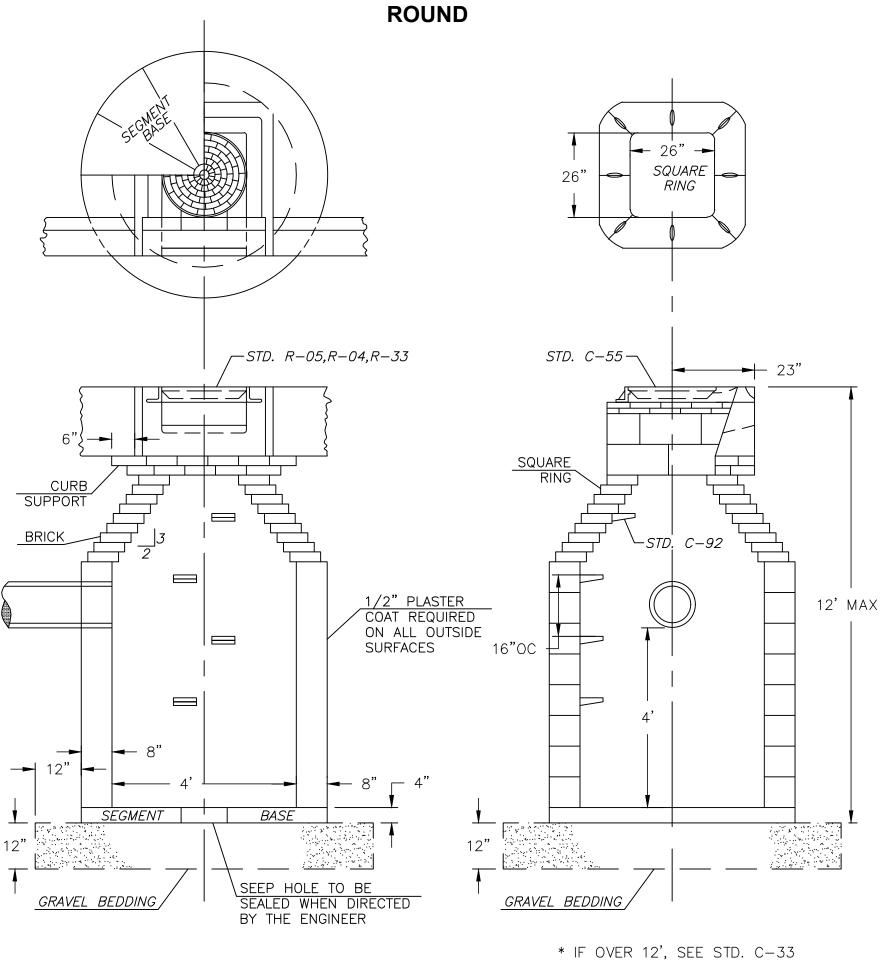
PAVEMENT

SCALE: NTS



DRAINAGE MANHOLE

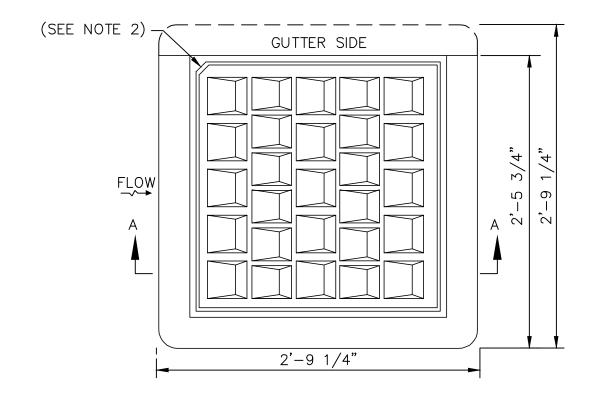
SCALE: NTS



CATCH BASIN TYPE "D"

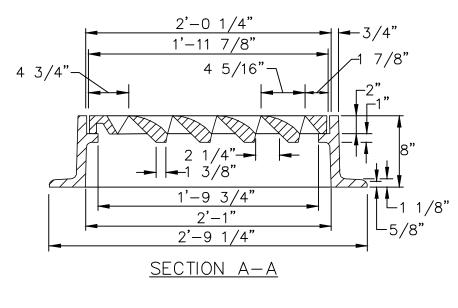
CATCH BASIN DETAIL

C-11 C-11



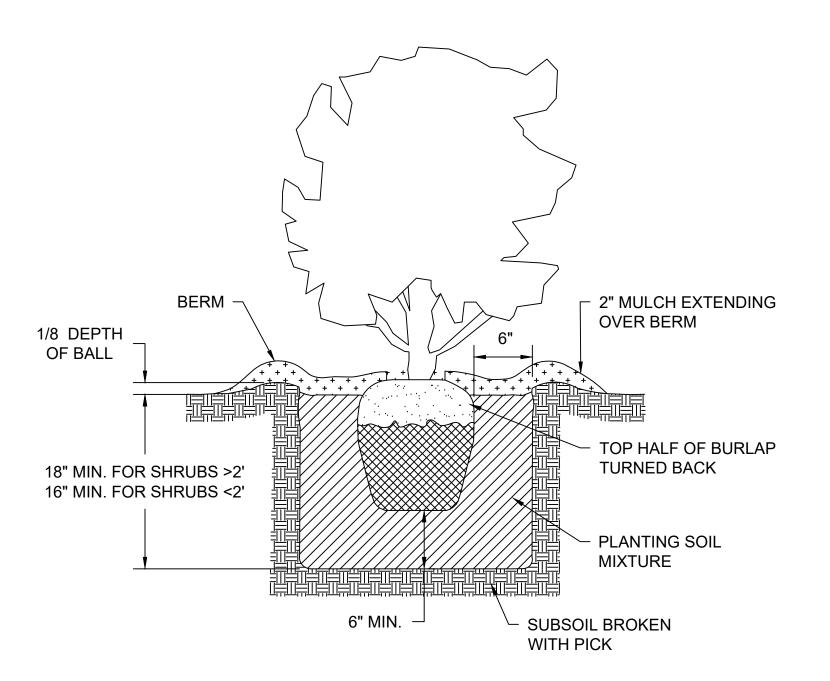
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\C-11|C-11|



- 1. FRAME AND COVER SHALL CONFORM TO SECTION M.04 OF THE R.I.
- STANDARD SPECIFICATIONS.
- 2. THIS CORNER LEFT FOR "LEFT" GRATE, DIAGONALLY OPPOSITE CORNER FOR "RIGHT" GRATE TO FIT IN KEYED FRAME.









RENGINEERING

ROSE LARISA MEMORIAL PARK EMERGENCY SLOPE REPAIRS AST PROVIDENCE, RHODE ISLAND TYPICAL DETAIL 2 OF 2

PERMIT PLAN SET **NOT FOR** CONSTRUCTION

DATE: MARCH 23, 2023 DESIGN BY: SMR DRAWN BY: SJR CHECKED BY: SMR PROJECT NUMBER:

22006.00 SHEET 11 OF