



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: 2023-10-015

Date: October 29, 2024

This office has under consideration the application of:

**City of East Providence
c/o Erik Skadberg, PE
145 Taunton Avenue
East Providence, RI 02914**

for a State of Rhode Island Assent to construct and maintain: The City of East Providence proposes to repair significant storm damage to the existing bank and construct a new revetment along an approximate 810 ft section of shoreline at Crescent Park. To protect the shoreline, park land, and persons using the park, the Applicant seeks to construct a shoreline protection system along the park's southern end which includes: re-grading the existing slope and relocating the toe approximately 30 ft landward from the location of the toe prior to recent storm damage, removal of existing slope vegetation as needed for safety during and after construction, and the construction of a stone revetment system along the shoreline with a vegetated slope incorporating an erosion control mat and coir logs above the revetment. The work includes reconstructing the existing wooden stairs at a new location to the north to maintain access to the beach at the park's southern end. A special exception is required for the grading and cutting of the existing coastal bluff/bank per **CRMP Red Book § RICMRP, Specifically, Section 1.3.1.B.2.(a) Filling, Removing and Grading of Shoreline Features, Prohibitions "Filling, removing, or grading is prohibited on beaches, dunes, undeveloped barrier beaches, coastal wetlands, cliffs and banks, and rocky shores adjacent to Type 1 and 2 waters unless the primary purpose of the alteration is to preserve or enhance the feature as a conservation area or natural buffer against storms."**

Project Location:	701 Bullocks Point Avenue; Plat 414, lot 7, 8, 8.1
City/Town:	East Providence
Waterway:	Providence River

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

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

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

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

November 29, 2024.

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

SLOPE REPAIRS & SHORELINE PROTECTION

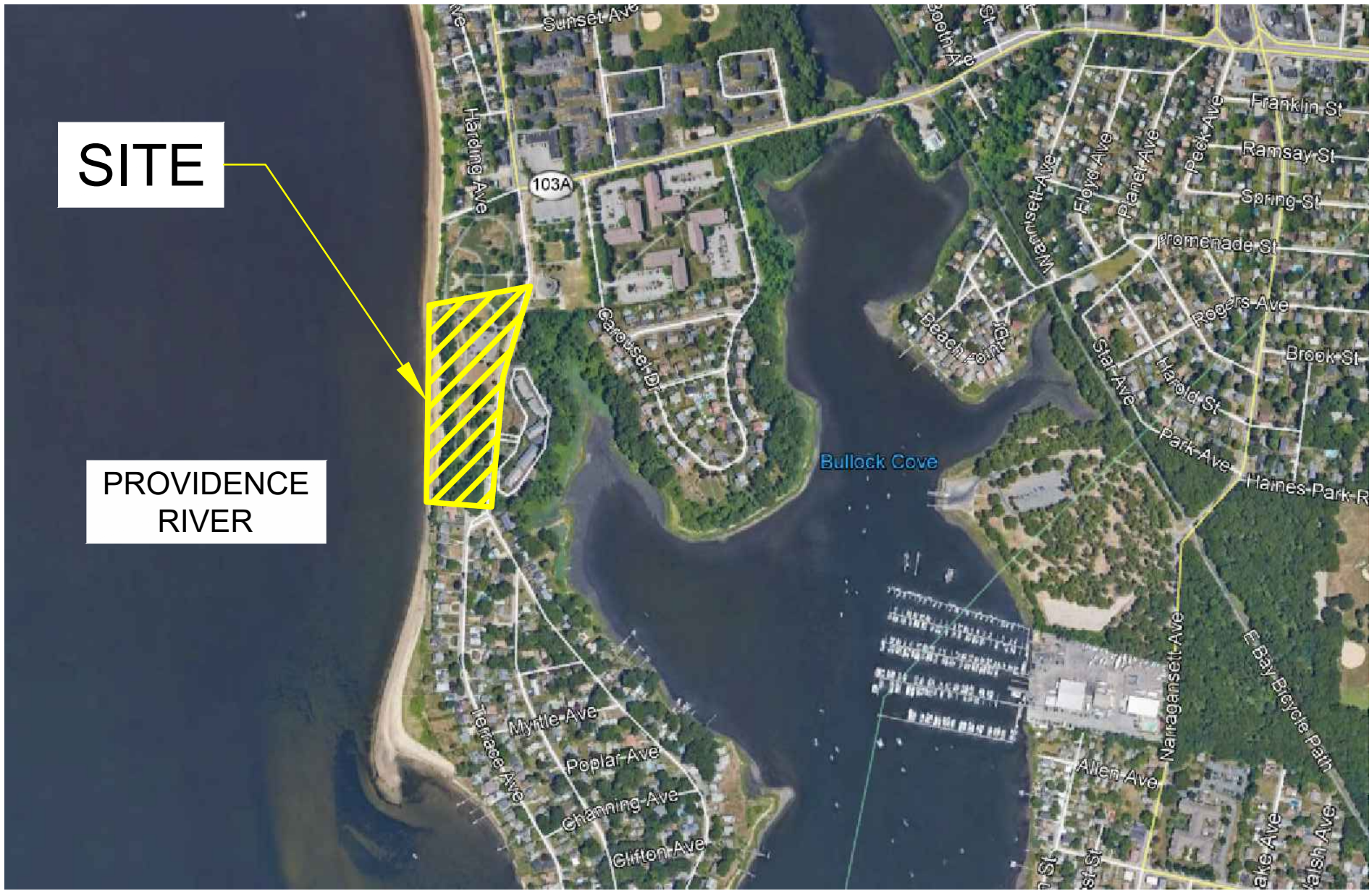
SOUTHERN SHORELINE

ROSE LARISA MEMORIAL PARK

701 BULLOCKS POINT AVENUE
EAST PROVIDENCE, RHODE ISLAND

INDEX

SHEET	DESCRIPTION
C-1	TITLE SHEET
C-2	GENERAL NOTES - 1 OF 2
C-3	GENERAL NOTES - 2 OF 2
C-4	EXISTING CONDITIONS PLAN - PRE-STORM - OVERALL
C-5	EXISTING CONDITIONS PLAN - PRE-STORM - 1 OF 2
C-6	EXISTING CONDITIONS PLAN - PRE-STORM - 2 OF 2
C-7	SLOPE EROSION LOCATIONS - POST-STORM
C-8	DEMOLITION PLAN
C-9	PROPOSED CONDITIONS PLAN - OVERALL
C-10	PROPOSED CONDITIONS PLAN - 1 OF 2
C-11	PROPOSED CONDITIONS PLAN - 2 OF 2
C-12	TYPICAL SLOPE REPAIR SECTION
C-13	SLOPE REPAIR CROSS SECTION - 1 OF 4
C-14	SLOPE REPAIR CROSS SECTION - 2 OF 4
C-15	SLOPE REPAIR CROSS SECTION - 3 OF 4
C-16	SLOPE REPAIR CROSS SECTION - 4 OF 4
C-17	TYPICAL DETAILS - 1 OF 2
C-18	TYPICAL DETAILS - 2 OF 2



VICINITY MAP
(NOT TO SCALE)
(GENERATED FROM GOOGLE EARTH)

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

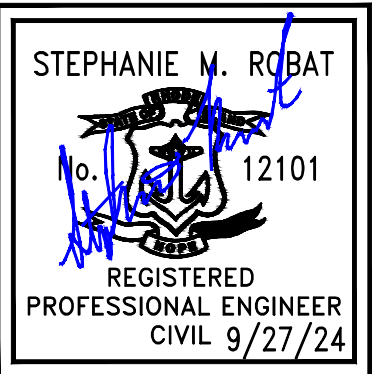
ENGINEERING GROUP
2346 Post Road, Suite 202
Warwick, RI 02886
401-575-1669
stephanie.rob@fr-eng.com

REVISION DESCRIPTION	DATE	BY
ISSUED FOR PERMIT	9/27/24	SMR

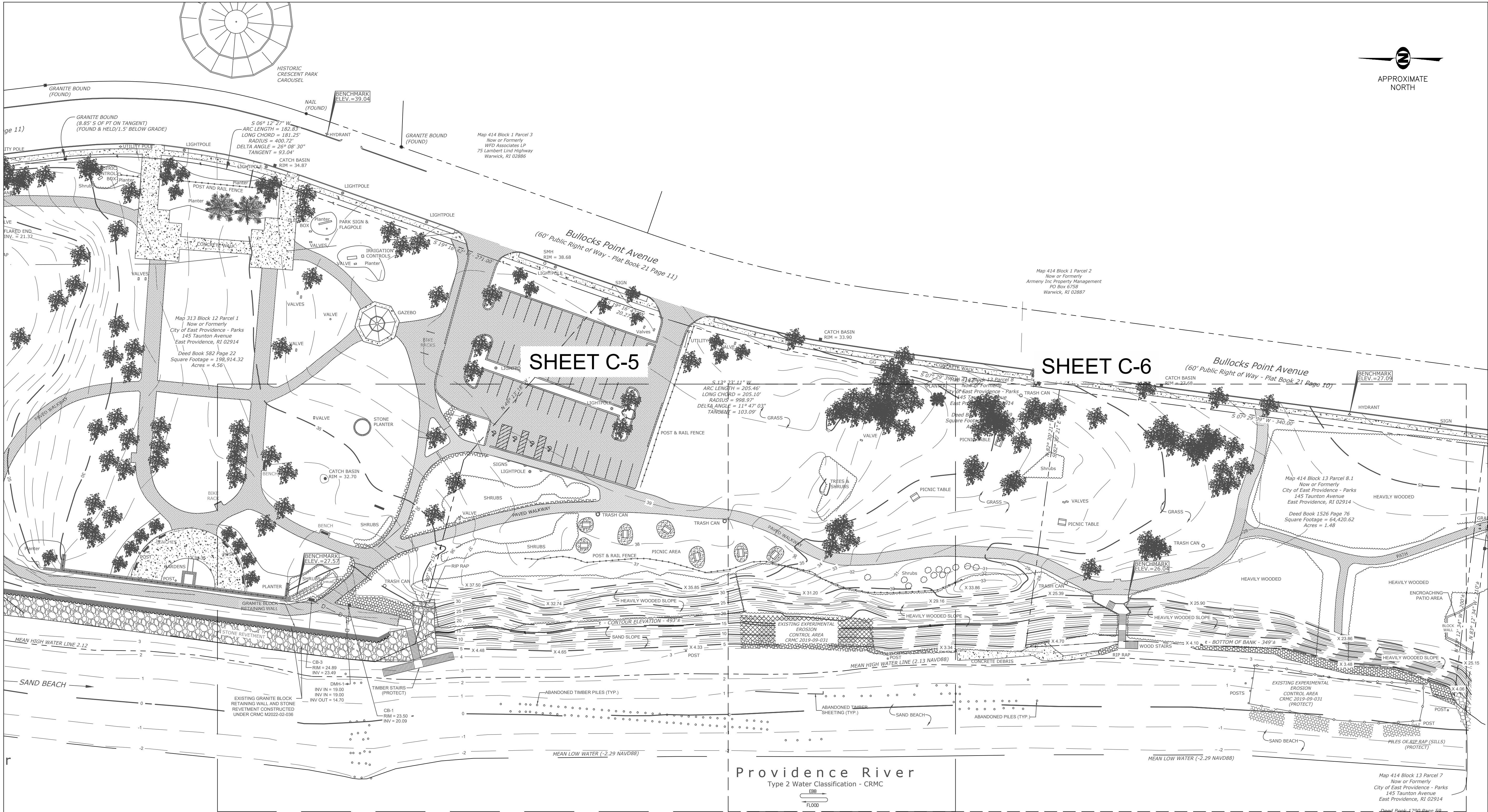
ROSE LARISA MEMORIAL PARK SLOPE REPAIRS & SHORELINE PROTECTION EAST PROVIDENCE, RHODE ISLAND	TITLE SHEET
----------------------------------------------------------------------------------------------------	-------------

PERMIT PLAN SET
NOT FOR CONSTRUCTION

DATE: SEPTEMBER 27, 2024
DESIGN BY: SMR
DRAWN BY: SJR / CDD
CHECKED BY: SMR
PROJECT NUMBER: 22006.00



C-1
SHEET 1 OF 18



1
C-4 C-4

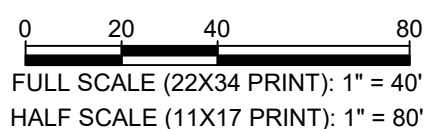
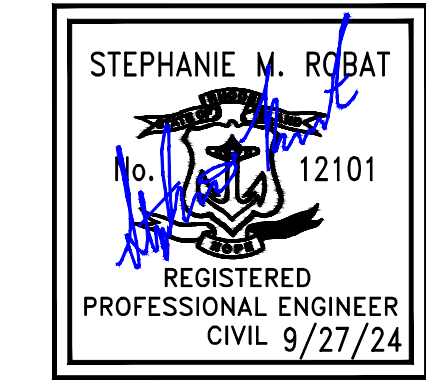
EXISTING CONDITIONS - PRE-STORM

SCALE: 1" = 40'

LEGEND			
	EXISTING PRE-STORM 5' CONTOUR		EXISTING STONE WALL
	EXISTING PRE-STORM 1' CONTOUR		EXISTING UTILITY POLE
	EXISTING OVERHEAD WIRES		EXISTING LIGHT POLE
	EXISTING SEWER MANHOLE		EXISTING WATER GATE
	EXISTING DRAINAGE MANHOLE		EXISTING HYDRANT
	EXISTING CATCH BASIN		EXISTING RIP RAP
	EXISTING BUILDING		EXISTING STONE REVETMENT
	EXISTING SPOT GRADE		
			PROPERTY LINE

NOTES:

- THIS BASE PLAN WAS DEVELOPED FROM THE FOLLOWING AUTOCAD DWG FILE:
A. '2020050.DWG' BY THE CITY OF EAST PROVIDENCE DEPARTMENT OF PUBLIC WORKS - ENGINEERING DEPARTMENT.
- THE FIELD SURVEY FOR THE BASE PLAN WAS COMPLETED BY THE DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION ON AUGUST 7, 2020 AND DOES NOT REFLECT RECENT CHANGES TO SITE CONDITIONS. SEE C-7 FOR APPROXIMATE LIMITS OF AREAS WITH RECENT EROSION.



FR ENGINEERING GROUP

2346 Post Road, Suite 202
Warwick, RI 02886
401-575-1669
stephanie.robata@fr-eng.com

REVISION DESCRIPTION	DATE	BY
ISSUED FOR PERMIT	9/27/24	SMR
#	1	

ROSE LARISA MEMORIAL PARK
SLOPE REPAIRS & SHORELINE PROTECTION
EAST PROVIDENCE, RHODE ISLAND

EXISTING CONDITIONS PLAN
PRE-STORM - OVERALL

PERMIT PLAN SET

NOT FOR CONSTRUCTION

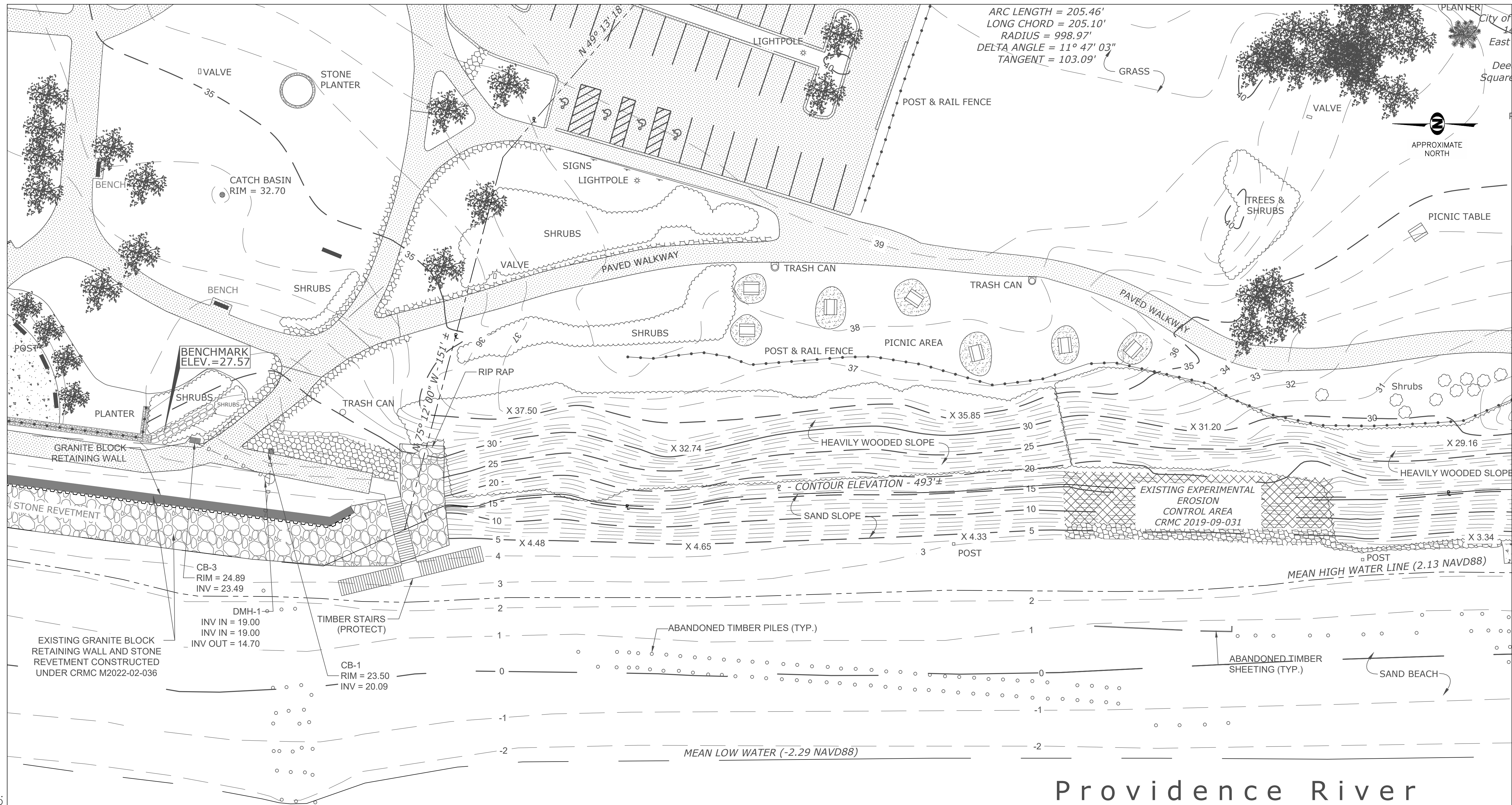
DATE:
SEPTEMBER 27, 2024

DESIGN BY: SMR
DRAWN BY: SJR / CDD
CHECKED BY: SMR

PROJECT NUMBER:
22006.00

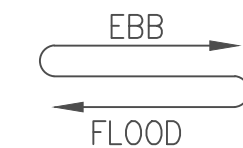
C-4

SHEET 4 OF 18



Providence River

Type 2 Water Classification - CRMC



0 10 20 40
FULL SCALE (22X34 PRINT): 1" = 20'
HALF SCALE (11X17 PRINT): 1" = 40'

FRENGINEERING
GROUP

2346 Post Road, Suite 202
Warwick, RI 02886
401-575-1569
stephanie.rob@fr-eng.com

#	REVISION DESCRIPTION	DATE	BY
1	ISSUED FOR PERMIT	9/27/24	SMR

ROSE LARISA MEMORIAL PARK
SLOPE REPAIRS & SHORELINE PROTECTION
EAST PROVIDENCE, RHODE ISLAND

EXISTING CONDITIONS PLAN - PRE-STORM
1 OF 2

RECEIVED
10/1/2024
**COASTAL RESOURCES
MANAGEMENT COUNCIL**

**PERMIT PLAN
SET**

**NOT FOR
CONSTRUCTION**

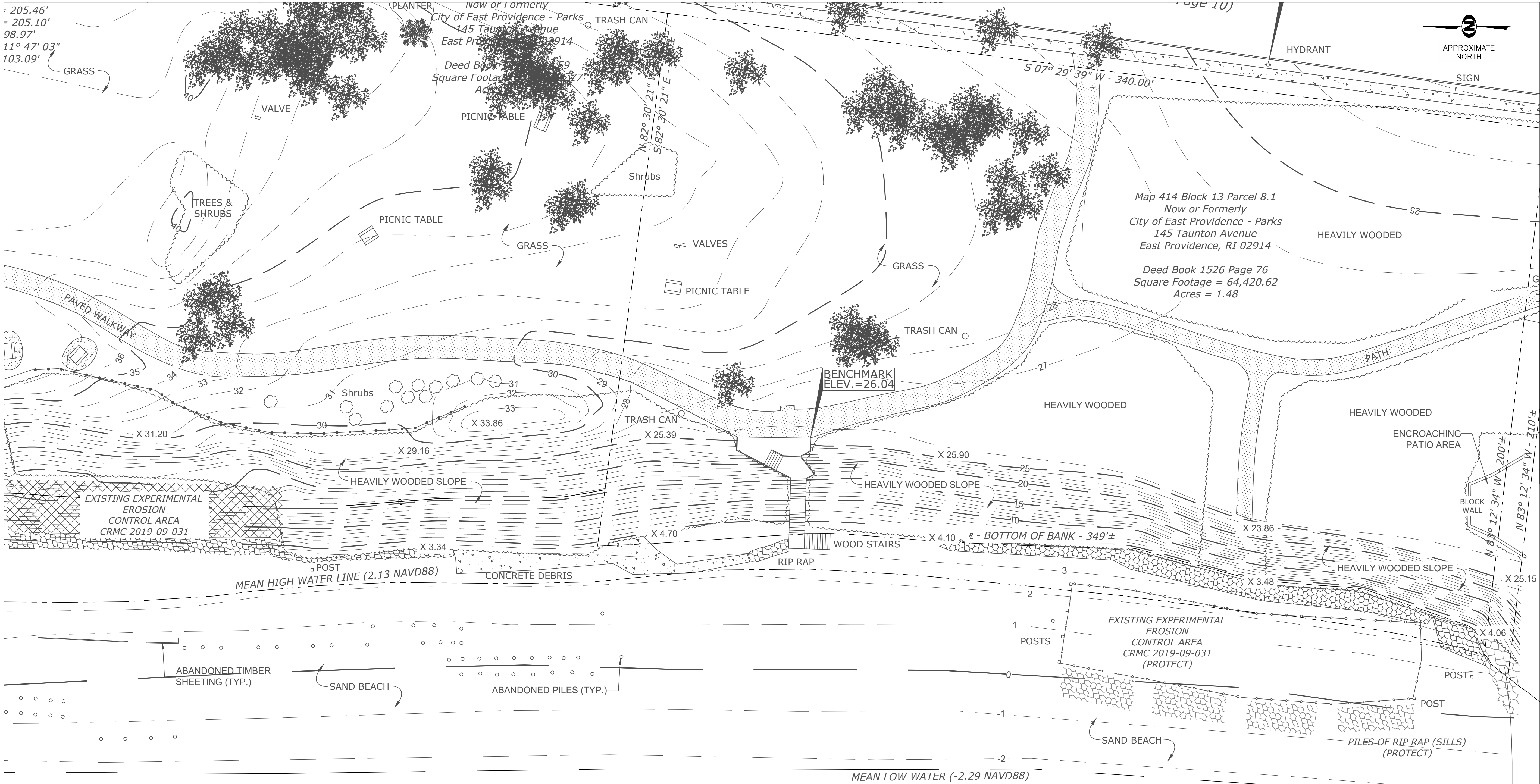
DATE:
SEPTEMBER 27, 2024

DESIGN BY: SMR
DRAWN BY: SJR / CDD
CHECKED BY: SMR

PROJECT NUMBER:
22006.00

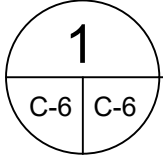
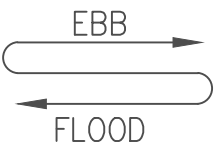
C-5
SHEET 5 OF 18

SHEET 5 OF 18



Providence River

Type 2 Water Classification - CRMC



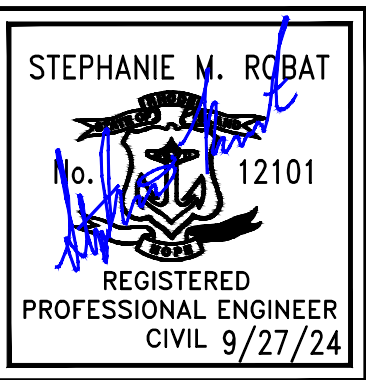
EXISTING CONDITIONS - PRE-STORM

SCALE: 1" = 20'

- LEGEND**
- 10' - EXISTING PRE-STORM 5' CONTOUR
 - 1' - EXISTING PRE-STORM 1' CONTOUR
 - OHW - EXISTING OVERHEAD WIRES
 - SMH - EXISTING SEWER MANHOLE
 - DMH - EXISTING DRAINAGE MANHOLE
 - CB - EXISTING CATCH BASIN
 - B - EXISTING BUILDING
 - SG - EXISTING SPOT GRADE
 - P - PROPERTY LINE
 - UPOLE - EXISTING UTILITY POLE
 - LPOLE - EXISTING LIGHT POLE
 - WG - EXISTING WATER GATE
 - H - EXISTING HYDRANT
 - R - EXISTING RIP RAP
 - SR - EXISTING STONE RETMENT

- NOTES:**
- THIS BASE PLAN WAS DEVELOPED FROM THE FOLLOWING AUTOCAD DWG FILE:
A. '2020050.DWG' BY THE CITY OF EAST PROVIDENCE DEPARTMENT OF PUBLIC WORKS - ENGINEERING DEPARTMENT.
 - THE FIELD SURVEY FOR THE BASE PLAN WAS COMPLETED BY THE DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION ON AUGUST 7, 2020 AND DOES NOT REFLECT RECENT CHANGES TO SITE CONDITIONS. SEE C-7 FOR APPROXIMATE LIMITS OF AREAS WITH RECENT EROSION.

0 10 20 40
FULL SCALE (22X34 PRINT): 1" = 20'
HALF SCALE (11X17 PRINT): 1" = 40'



ENGINEERING GROUP

2346 Post Road, Suite 202
Warwick, RI 02886
401-575-1669
stephanie.robata@fr-eng.com

BY	DATE	REVISION DESCRIPTION
SMR	9/27/24	ISSUED FOR PERMIT

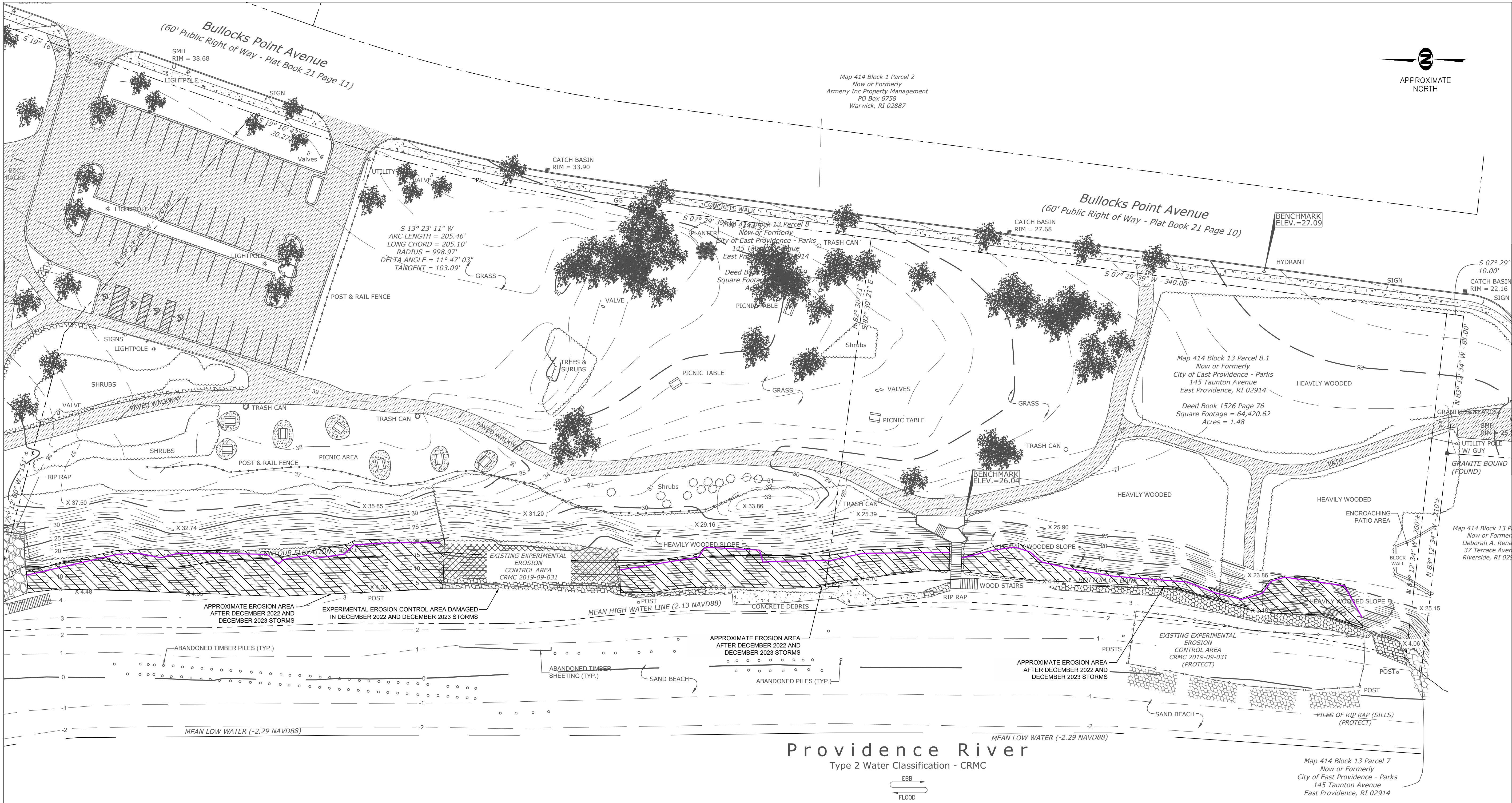
ROSE LARISA MEMORIAL PARK
SLOPE REPAIRS & SHORELINE PROTECTION
EAST PROVIDENCE, RHODE ISLAND

EXISTING CONDITIONS PLAN - PRE-STORM
2 OF 2

PERMIT PLAN SET
NOT FOR CONSTRUCTION

DATE:
SEPTEMBER 27, 2024
DESIGN BY: SMR
DRAWN BY: SJR / CDD
CHECKED BY: SMR
PROJECT NUMBER:
22006.00

C-6
SHEET 6 OF 18



LEGEND			
	EXISTING PRE-STORM 5' CONTOUR		EXISTING STONE WALL
	EXISTING PRE-STORM 1' CONTOUR		EXISTING UTILITY POLE
	EXISTING OVERHEAD WIRES		EXISTING LIGHT POLE
	EXISTING SEWER MANHOLE		EXISTING WATER GATE
	EXISTING DRAINAGE MANHOLE		EXISTING HYDRANT
	EXISTING CATCH BASIN		EXISTING RIP RAP
	EXISTING BUILDING		EXISTING STONE REVETMENT
	EXISTING SPOT GRADE		INDICATES APPROXIMATE AREAS OF EROSION FOLLOWING THE 12/18/23 STORM
	PROPERTY LINE		INDICATES APPROXIMATE LIMITS OF EROSION FOLLOWING THE 12/23/22 STORM

1
C-7 C-7

EXISTING CONDITIONS WITH APPROXIMATE AREAS OF EROSION

SCALE: 1" = 30'

NOTE:

- APPROXIMATE AREAS OF 2022 EROSION FROM VISUAL OBSERVATIONS ON DECEMBER 29, 2022.
- APPROXIMATE AREAS OF 2023 EROSION FROM VISUAL OBSERVATIONS ON JANUARY 30, 2024.



0 15 30 60
FULL SCALE (22X34 PRINT): 1" = 30'
HALF SCALE (11X17 PRINT): 1" = 60'

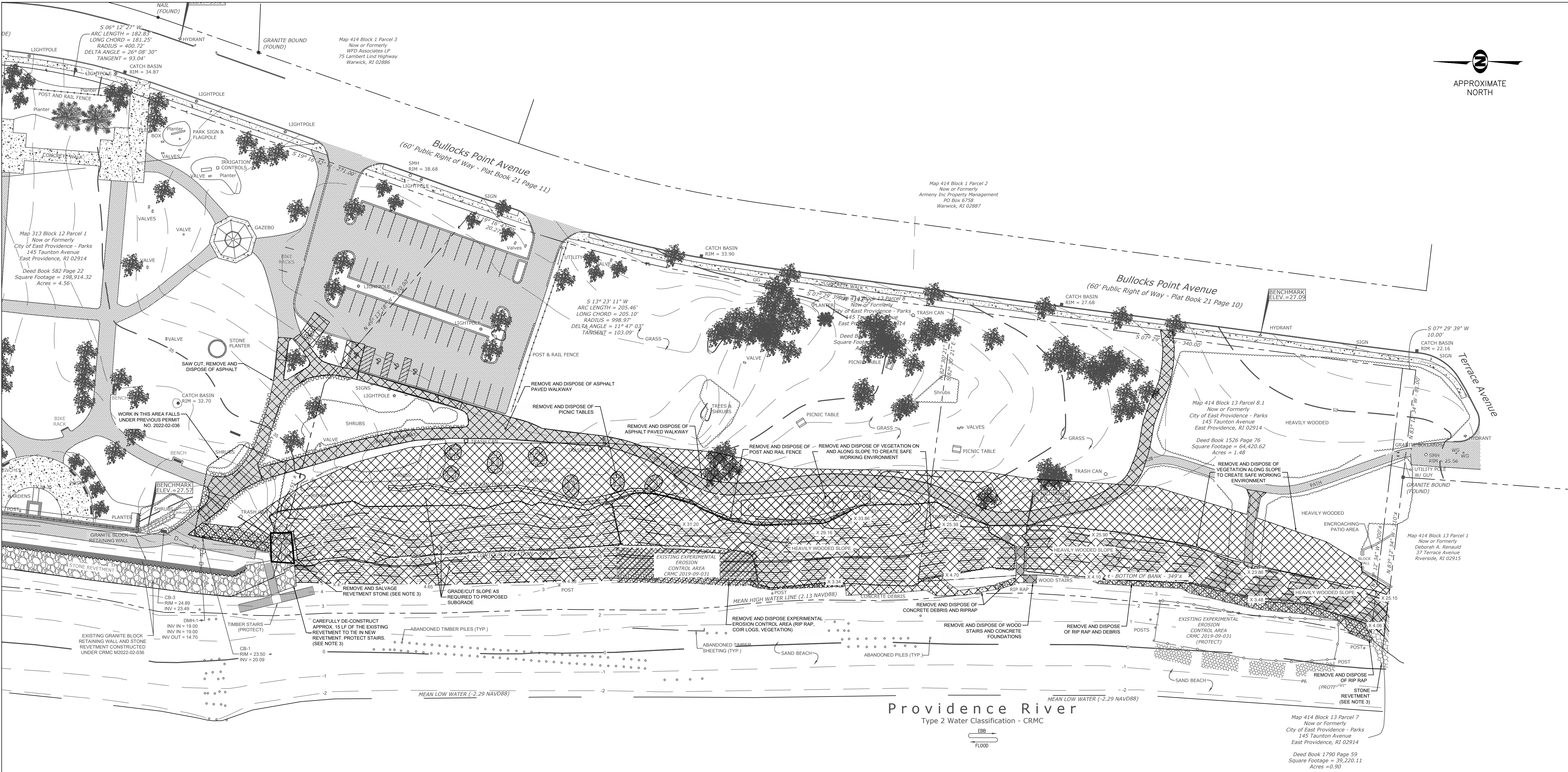
FR ENGINEERING GROUP				401-575-1569 stephanie.robat@fr-eng.com	
2346 Post Road, Suite 202 Warwick, RI 02886					
#	REVISION DESCRIPTION	DATE	BY		
1	ISSUED FOR PERMIT	9/27/24	SMR		
ROSE LARISA MEMORIAL PARK SLOPE REPAIRS & SHORELINE PROTECTION EAST PROVIDENCE, RHODE ISLAND					
SLOPE EROSION LOCATIONS POST-STORM					
<div>PERMIT PLAN SET</div> <div>NOT FOR CONSTRUCTION</div>					
DATE: SEPTEMBER 27, 2024					
DESIGN BY: SMR DRAWN BY: ADP/SJR/CDD CHECKED BY: SMR					
PROJECT NUMBER: 22006.00					
C-7					
SHEET 7 OF 18					



FR ENGINEERING GROUP

2346 Post Road, Suite 202
Warwick, RI 02886

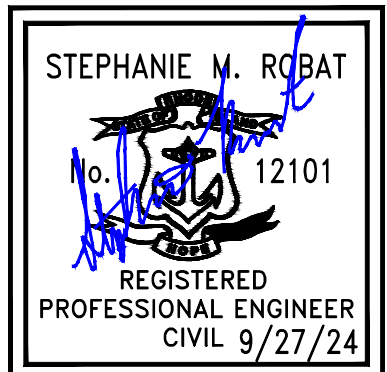
401-575-1669
stephanie.robata@fr-eng.com



- NOTES:
- THIS BASE PLAN WAS DEVELOPED FROM THE FOLLOWING AUTOCAD DWG FILE:
A. '2020050.DWG' BY THE CITY OF EAST PROVIDENCE DEPARTMENT OF PUBLIC WORKS - ENGINEERING DEPARTMENT.
 - THE SURVEY FOR THE BASE PLAN WAS CONDUCTED PRIOR TO THE COMPLETION OF THE NORTHERN REVETMENT. THE LOCATION OF THE NORTHERN REVETMENT IS APPROXIMATE.
 - CONTRACTOR SHALL CAREFULLY REMOVE ARMOR STONES AT ABUTTING REVETMENT AS NEEDED TO CONSTRUCT NEW REVETMENT WITHOUT DAMAGING THE EXISTING FILTER FABRIC. A CRANE OR SPECIALTY EXCAVATOR IS REQUIRED TO PICK UP THE STONES. USE OF AN EXCAVATOR WITHOUT A THUMB WILL NOT BE ALLOWED. DAMAGE TO ANY EXISTING STRUCTURE WILL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY AND CITY'S ENGINEER AT NO COSTS TO THE CITY.

LEGEND:
XXXXX INDICATES AREA IS INCLUDED IN DEMOLITION PLAN

1 DEMOLITION PLAN
C-8 SCALE: 1" = 40'



0 20 40 80
FULL SCALE (22X34 PRINT): 1" = 40'
HALF SCALE (11X17 PRINT): 1" = 80'

FR ENGINEERING GROUP

2346 Post Road, Suite 202
Warwick, RI 02886
401-575-1669
stephanie.robato@fr-eng.com

REVISION DESCRIPTION	DATE	BY
ISSUED FOR PERMIT <td>9/27/24</td> <td>SMR</td>	9/27/24	SMR

ROSE LARISA MEMORIAL PARK
SLOPE REPAIRS & SHORELINE PROTECTION
EAST PROVIDENCE, RHODE ISLAND

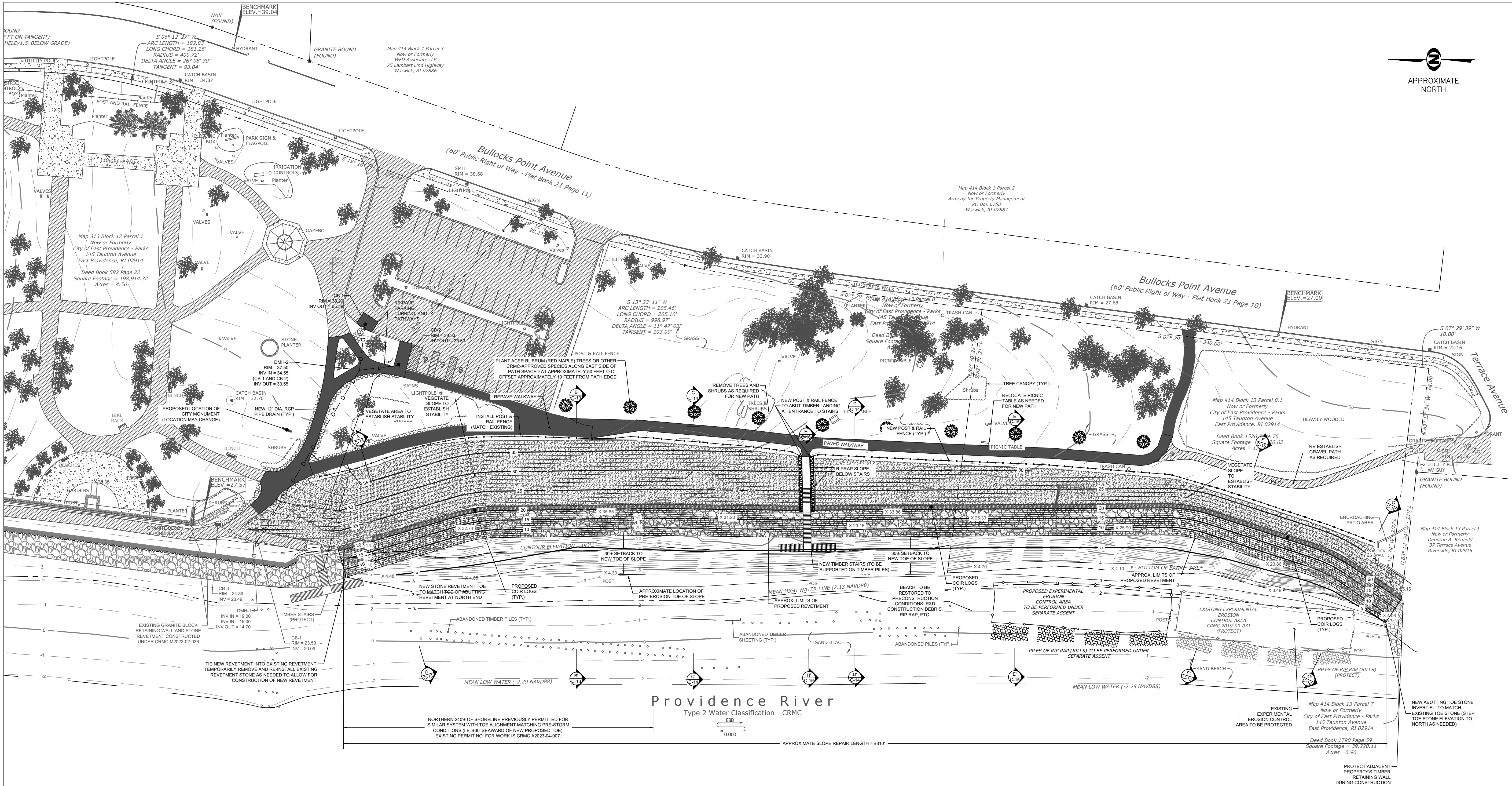
DEMOLITION PLAN

PERMIT PLAN SET
NOT FOR CONSTRUCTION

DATE:
SEPTEMBER 27, 2024
DESIGN BY: SMR
DRAWN BY: SJR / CDD
CHECKED BY: SMR
PROJECT NUMBER:
22006.00

C-8
SHEET 8 OF 18





LEGEND

- EXISTING CONTOUR (MAJOR)

EXISTING CONTOUR (MINOR)

PROPOSED CONTOUR (MAJOR)

PROPOSED CONTOUR (MINOR)

EXISTING OVERHEAD WIRES

EXISTING SEWER MANHOLE

EXISTING DRAINAGE MANHOLE

EXISTING CATCH BASIN

EXISTING BUILDING

EXISTING SPOT GRADE
- EXISTING STONE WALL

EXISTING UTILITY POLE

EXISTING LIGHT POLE

EXISTING WATER GATE

EXISTING HYDRANT

EXISTING RIP RAP

EXISTING STONE REVETMENT

PROPOSED NEW STONE REVETMENT

PROPOSED VEGETATED SLOPE

PROPOSED COIR LOGS

1 PROPOSED CONDITIONS

SCALE: 1" = 40'

NOTE:

- EXCESS SAND GENERATED DURING CONSTRUCTION TO BE EVENLY DISTRIBUTED ALONG BEACH, AS NEEDED. REMAINDER OF EXCESS SAND TO BE TRANSPORTED TO THE CITY'S YARD ON FORBES STREET FOR FUTURE BEACH REPLENISHMENT NEEDS.
- CLEAN BEACH AT COMPLETION OF WORK TO ALLOW FOR RAKING.

0 20 40 80
FULL SCALE (22X34 PRINT): 1" = 40'
HALF SCALE (11X17 PRINT): 1" = 80'

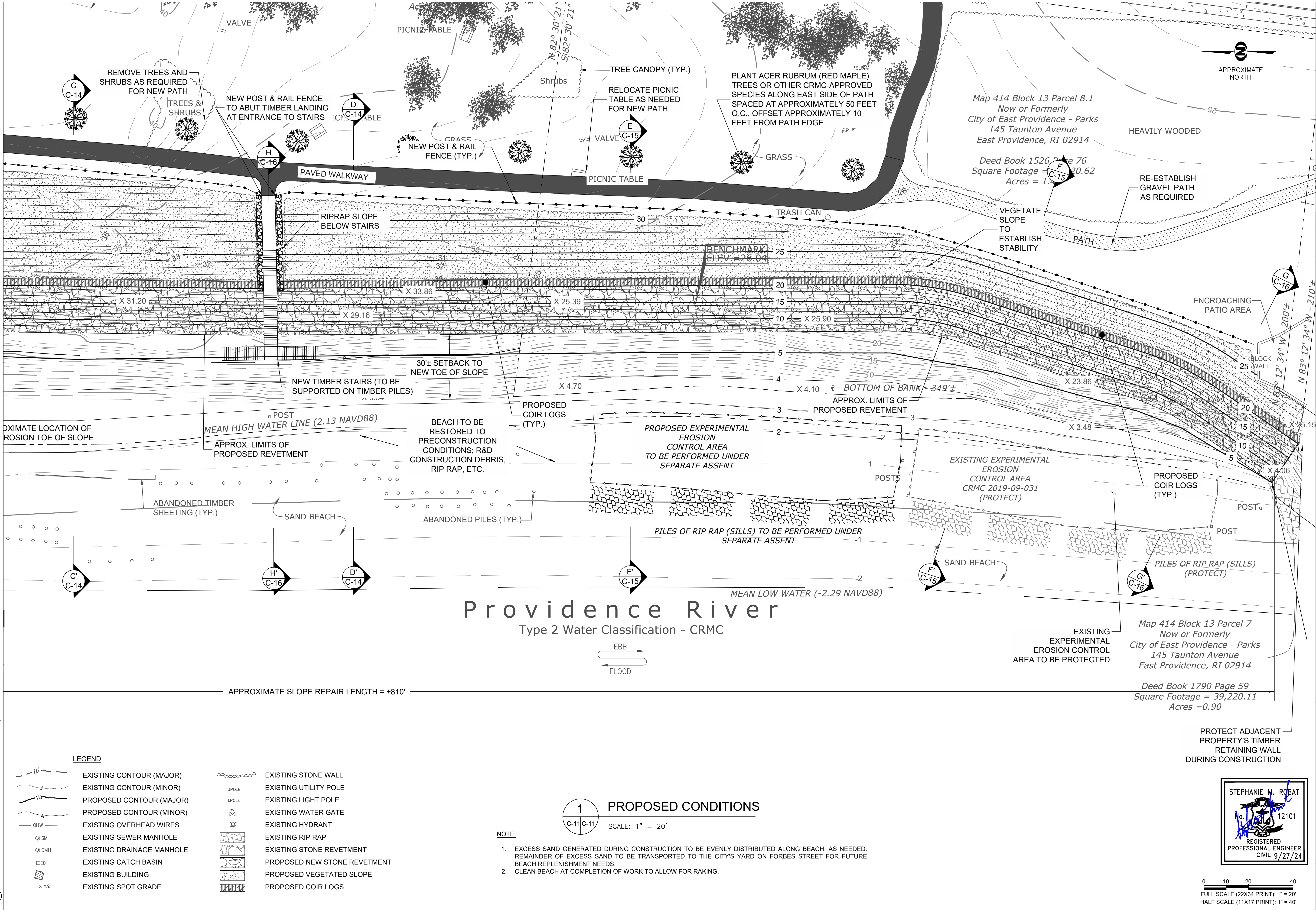
BY	DATE	REVISION DESCRIPTION
SMR	9/27/24	ISSUED FOR PERMIT

ROSE LARISA MEMORIAL PARK
SLOPE REPAIRS & SHORELINE PROTECTION
EAST PROVIDENCE, RHODE ISLAND
PROPOSED CONDITIONS PLAN - OVERALL

PERMIT PLAN SET
NOT FOR CONSTRUCTION

DATE:
SEPTEMBER 27, 2024
DESIGN BY: SMR
DRAWN BY: SJR / CDD
CHECKED BY: SMR
PROJECT NUMBER:
22006.00





FR ENGINEERING GROUP

2346 Post Road, Suite 202
Warwick, RI 02886
401-575-1669
stephanie.robato@fr-eng.com

BY	DATE	REVISION DESCRIPTION
SMR	9/27/24	ISSUED FOR PERMIT

ROSE LARISA MEMORIAL PARK
SLOPE REPAIRS & SHORELINE PROTECTION
EAST PROVIDENCE, RHODE ISLAND

PROPOSED CONDITIONS PLAN - 2 OF 2

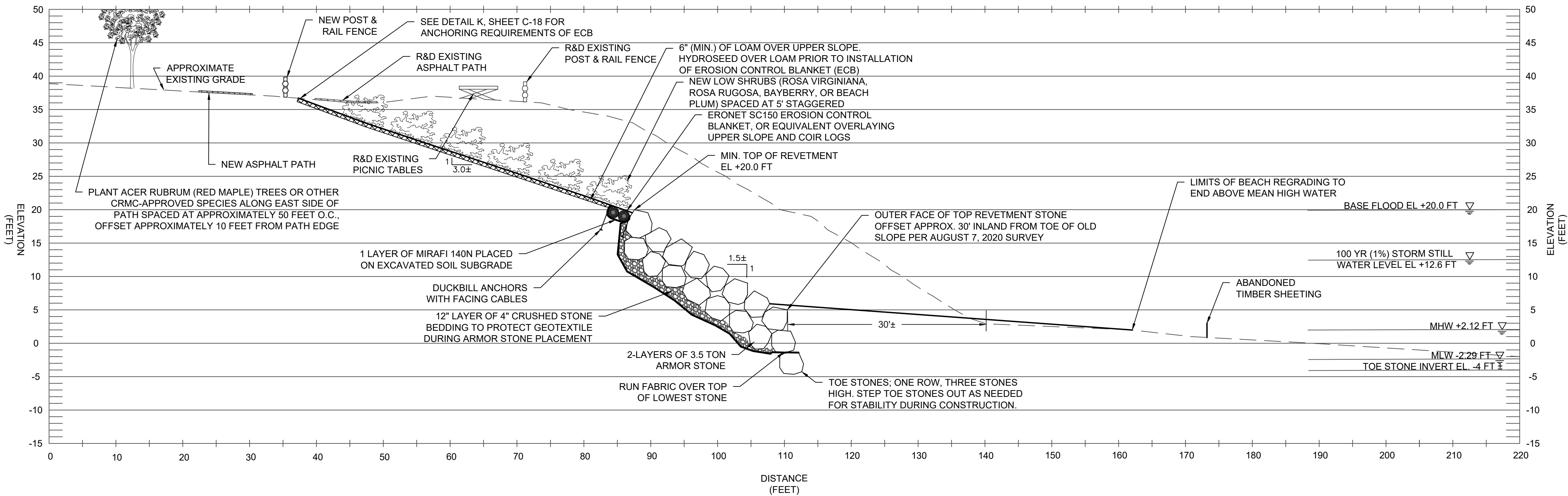
PERMIT PLAN SET
NOT FOR CONSTRUCTION

DATE:
SEPTEMBER 27, 2024
DESIGN BY: SMR
DRAWN BY: SJR / CDD
CHECKED BY: SMR
PROJECT NUMBER:
22006.00

STEPHANIE M. ROBAT
12101
REGISTERED PROFESSIONAL ENGINEER
CIVIL 9/27/24

0 10 20 40
FULL SCALE (22X34 PRINT): 1" = 20'
HALF SCALE (11X17 PRINT): 1" = 40'

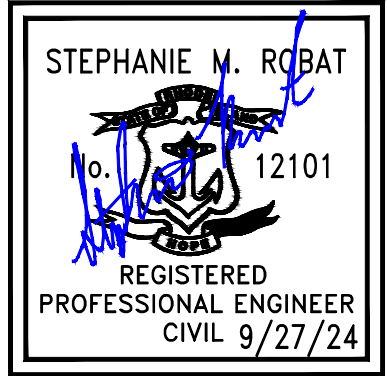




1 TYPICAL REVETMENT SECTION
C-12/C-12 SCALE: 1" = 10'

NOTES:

- 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.
- RECENTLY ERODED AREAS ARE NOT REFLECTED IN THE APPROXIMATE EXISTING GRADE SHOWN.
- FEMA HAS ISSUED 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 REPORT. THE REVETMENT WAS DESIGNED FOR A SIGNIFICANT WAVE HEIGHT OF 7.6 FT IN ACCORDANCE WITH THE 2015 FIS TO MAINTAIN DESIGN CONSISTENCY WITH THE ADJACENT REVETMENT SYSTEMS.
- CONTRACTOR TO PRUNE OR REMOVE DEAD, UNSTABLE/UNSAFE VEGETATION AS NEEDED TO CREATE A SAFE WORKING ENVIRONMENT. EXISTING TREES AND VEGETATION ALONG SLOPE NOT SHOWN FOR CLARITY.



0 5 10 20
FULL SCALE (22X34 PRINT): 1" = 10'
HALF SCALE (11X17 PRINT): 1" = 20'

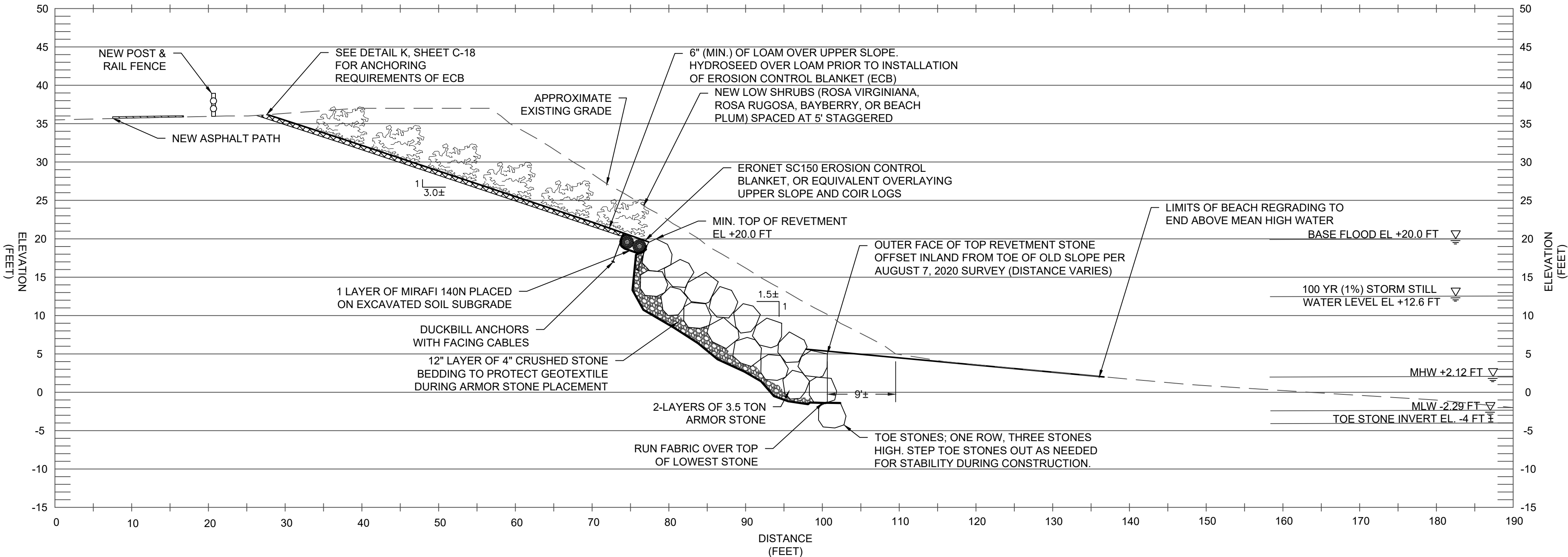
REVISION DESCRIPTION	DATE	BY
ISSUED FOR PERMIT	9/27/24	SMR

ROSE LARISA MEMORIAL PARK
SLOPE REPAIRS & SHORELINE PROTECTION
EAST PROVIDENCE, RHODE ISLAND
TYPICAL SLOPE REPAIR SECTION

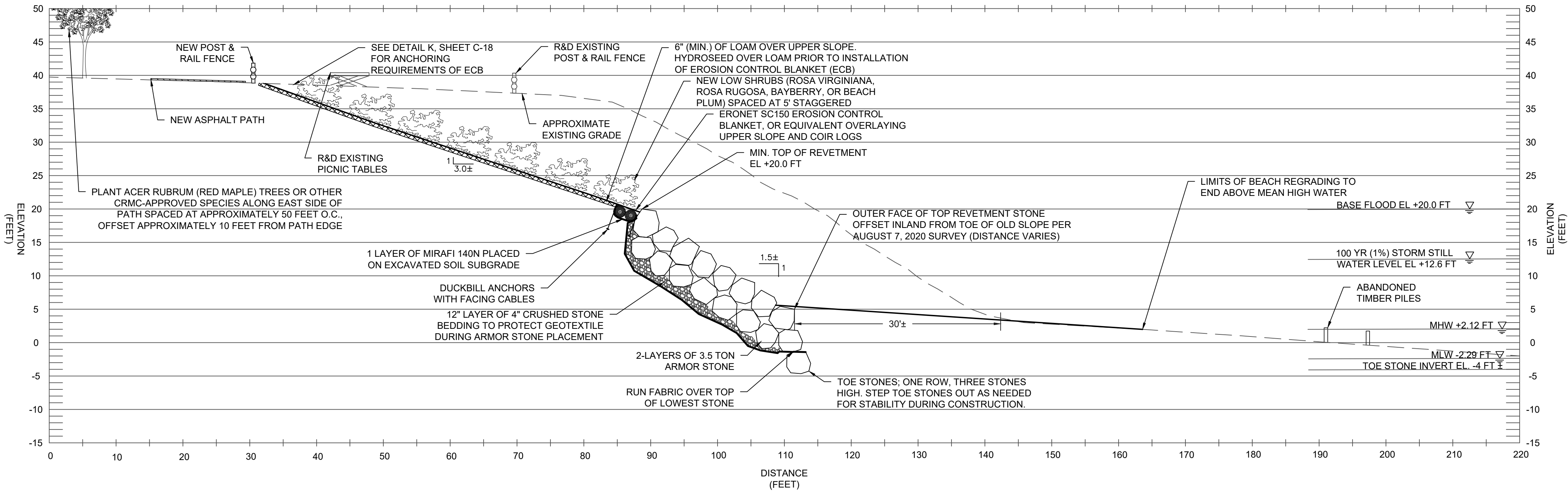
PERMIT PLAN SET
NOT FOR CONSTRUCTION

DATE:
SEPTEMBER 27, 2024
DESIGN BY: SMR
DRAWN BY: SMR / CDD
CHECKED BY: SJR
PROJECT NUMBER:
22006.00





A-A'
C-9 C-13
REVETMENT SECTION A-A'
SCALE: 1" = 10'



B-B'
C-9 C-13
REVETMENT SECTION B-B'
SCALE: 1" = 10'

NOTES:

- 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.
- RECENTLY ERODED AREAS ARE NOT REFLECTED IN THE APPROXIMATE EXISTING GRADE SHOWN.
- FEMA HAS ISSUED FIS NO. 44007CV0010D, 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 REPORT. THE REVETMENT WAS DESIGNED FOR A SIGNIFICANT WAVE HEIGHT OF 7.6 FT IN ACCORDANCE WITH THE 2015 FIS TO MAINTAIN DESIGN CONSISTENCY WITH THE ADJACENT REVETMENT SYSTEMS.
- CONTRACTOR TO PRUNE OR REMOVE DEAD, UNSTABLE/UNSAFE VEGETATION AS NEEDED TO CREATE A SAFE WORKING ENVIRONMENT. EXISTING TREES AND VEGETATION ALONG SLOPE NOT SHOWN FOR CLARITY.



0 5 10 20
FULL SCALE (22X34 PRINT): 1" = 10'
HALF SCALE (11X17 PRINT): 1" = 20'

REVISION DESCRIPTION		DATE	BY
ISSUED FOR PERMIT		9/27/24	SMR
#	1		

ROSE LARISA MEMORIAL PARK
SLOPE REPAIRS & SHORELINE PROTECTION
EAST PROVIDENCE, RHODE ISLAND

SLOPE REPAIR CROSS SECTION
1 OF 4

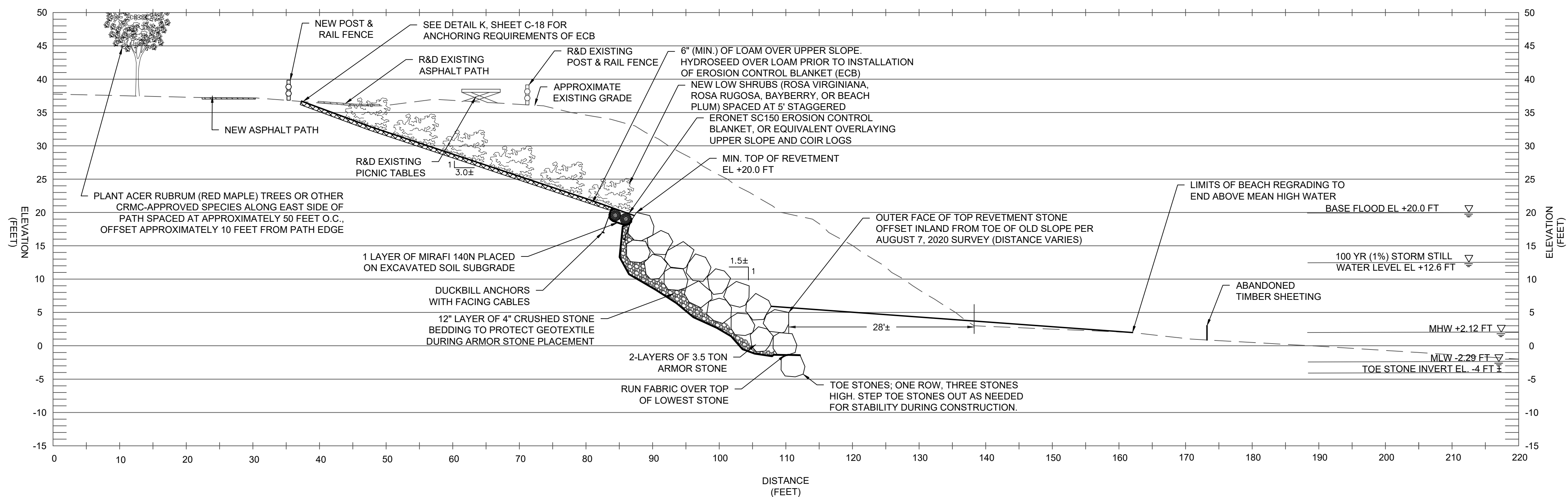
PERMIT PLAN
SET
NOT FOR
CONSTRUCTION

DATE:
SEPTEMBER 27, 2024
DESIGN BY: SMR
DRAWN BY: ADS / CDD
CHECKED BY: SMR
PROJECT NUMBER:
22006.00

C-13
SHEET 13 OF 18



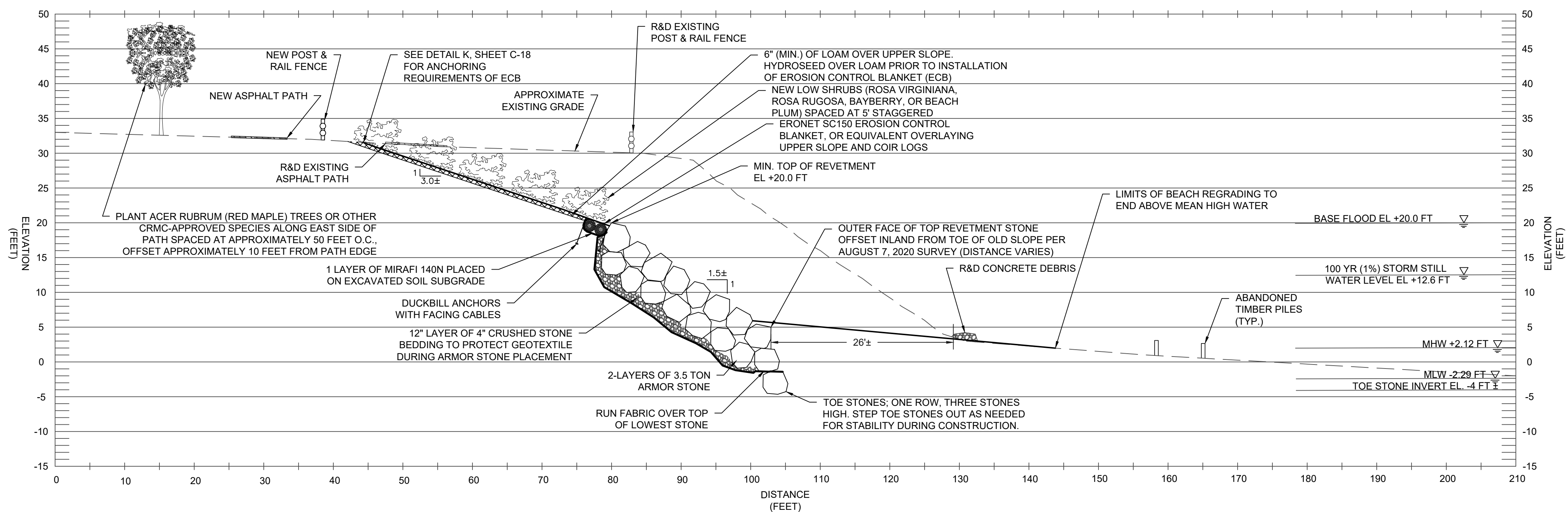
FR ENGINEERING
GROUP
2346 Post Road, Suite 202
Warwick, RI 02886
401-575-1669
stephanie.robato@fr-eng.com



REVETMENT SECTION C-C'

C-9 C-14

SCALE: 1" = 10'

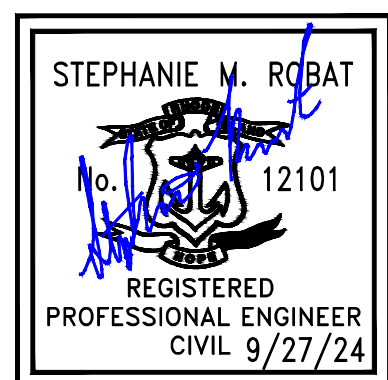


D-D' **REVTMENT SECTION D-D'**

C-9 | C-14 SCALE: 1" = 10'

- 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 APPROXIMATE EXISTING GRADE SHOWN.
3. FEMA HAS ISSUED 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 REPORT. THE REVETMENT WAS DESIGNED FOR A SIGNIFICANT WAVE HEIGHT OF 7.6 FT IN ACCORDANCE WITH THE 2015 FIS TO MAINTAIN DESIGN CONSISTENCY WITH THE ADJACENT REVETMENT SYSTEMS.
4. CONTRACTOR TO PRUNE OR REMOVE DEAD, UNSTABLE/UNSAFE VEGETATION AS NEEDED TO CREATE A SAFE WORKING ENVIRONMENT. EXISTING TREES AND VEGETATION ALONG SLOPE NOT SHOWN FOR CLARITY.



0 5 10 20
FULL SCALE (22X34 PRINT): 1" = 10'
HALF SCALE (11X17 PRINT): 1" = 20'

FRENGINEERING
GROUP

2346 Post Road, Suite 202
Warwick, RI 02886
401-575-1569
stephanie.robart@fr-eng.com

#	REVISION DESCRIPTION	DATE	BY
1	ISSUED FOR PERMIT	9/27/24	SMR

ROSE LARISA MEMORIAL PARK
SLOPE REPAIRS & SHORELINE PROTECTION
EAST PROVIDENCE, RHODE ISLAND

SLOPE REPAIR CROSS SECTION
2 OF 4

RECEIVED
10/1/2024
COASTAL RESOURCES
MANAGEMENT COUNCIL

**PERMIT PLAN
SET**

**NOT FOR
CONSTRUCTION**

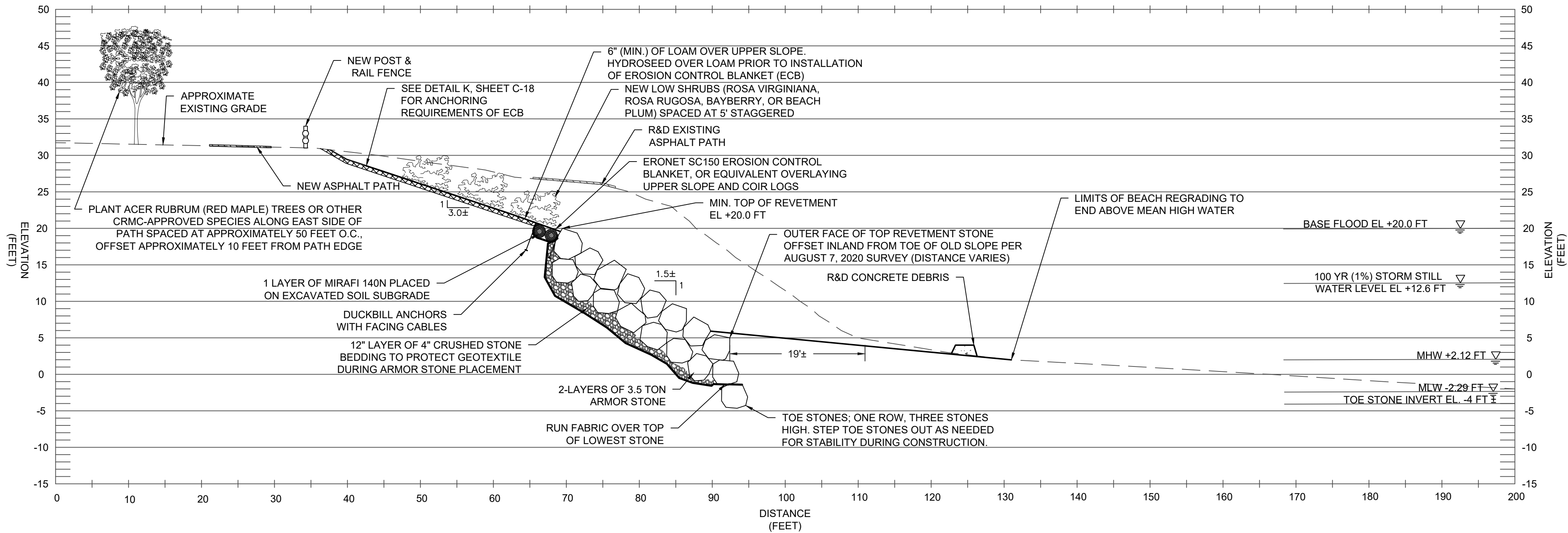
DATE:
SEPTEMBER 27, 2024

DESIGN BY: SMR
DRAWN BY: ADS / CDD
CHECKED BY: SMR

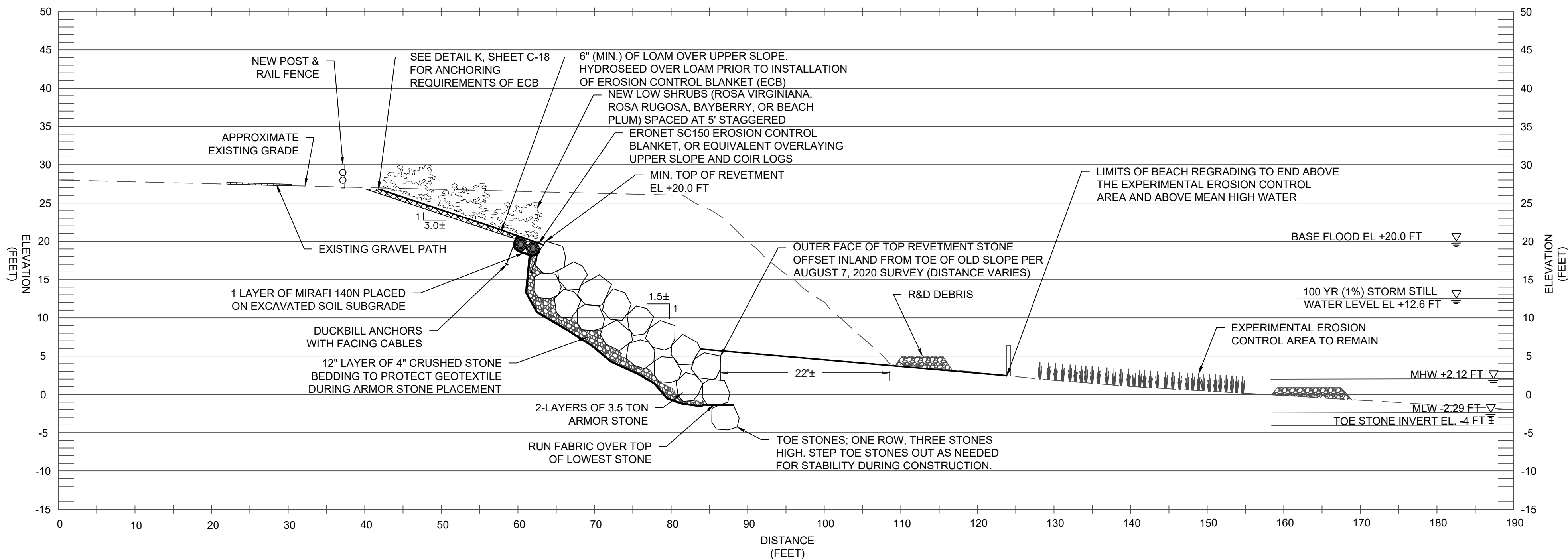
PROJECT NUMBER:	22006.00
-----------------	----------

C-14

SHEET 14 OF 18



E-E'
C-9 C-15
REVETMENT SECTION E-E'
SCALE: 1" = 10'



F-F'
C-9 C-15
REVETMENT SECTION F-F'
SCALE: 1" = 10'

NOTES:

- 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.
- RECENTLY ERODED AREAS ARE NOT REFLECTED IN THE APPROXIMATE EXISTING GRADE SHOWN.
- FEMA HAS ISSUED 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 REPORT. THE REVETMENT WAS DESIGNED FOR A SIGNIFICANT WAVE HEIGHT OF 7.6 FT IN ACCORDANCE WITH THE 2015 FIS TO MAINTAIN DESIGN CONSISTENCY WITH THE ADJACENT REVETMENT SYSTEMS.
- CONTRACTOR TO PRUNE OR REMOVE DEAD, UNSTABLE/UNSAFE VEGETATION AS NEEDED TO CREATE A SAFE WORKING ENVIRONMENT. EXISTING TREES AND VEGETATION ALONG SLOPE NOT SHOWN FOR CLARITY.



0 5 10 20
FULL SCALE (22X34 PRINT): 1" = 10'
HALF SCALE (11X17 PRINT): 1" = 20'

FR ENGINEERING GROUP

2346 Post Road, Suite 202
Warwick, RI 02886
401-575-1669
stephanie.rob@fr-eng.com

#	REVISION DESCRIPTION	DATE	BY
1	ISSUED FOR PERMIT	9/27/24	SMR

ROSE LARISA MEMORIAL PARK
SLOPE REPAIRS & SHORELINE PROTECTION
EAST PROVIDENCE, RHODE ISLAND

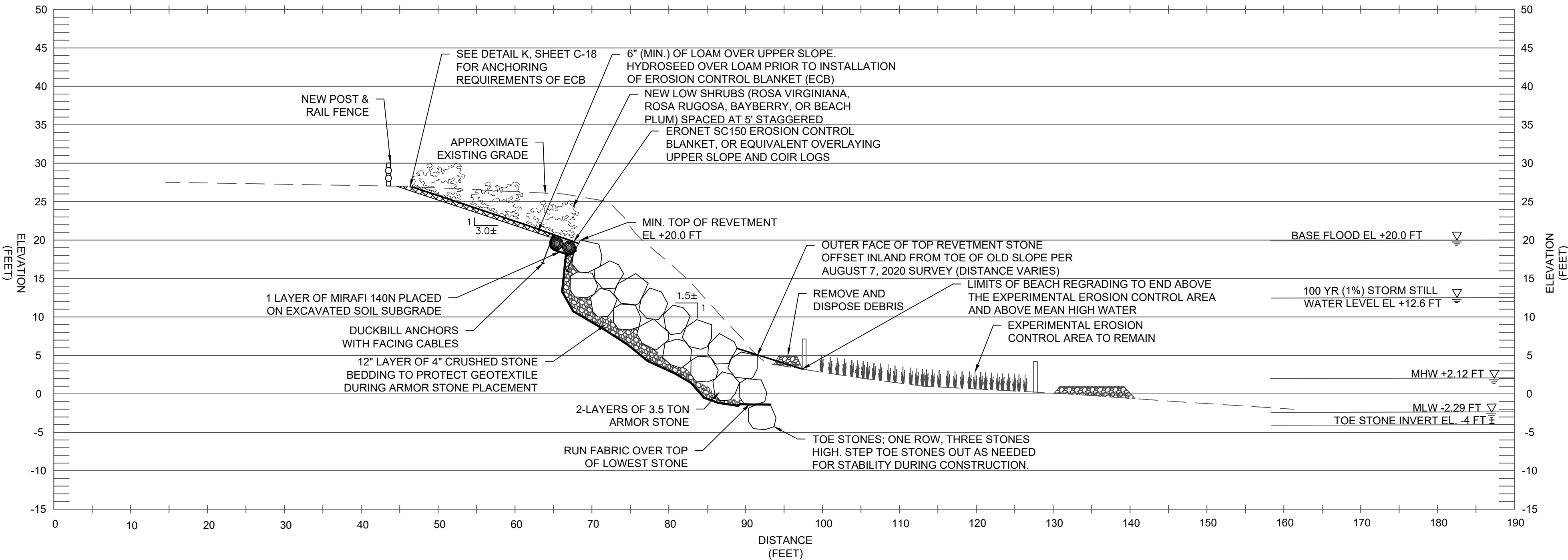
SLOPE REPAIR CROSS SECTION
3 OF 4

PERMIT PLAN SET
NOT FOR CONSTRUCTION

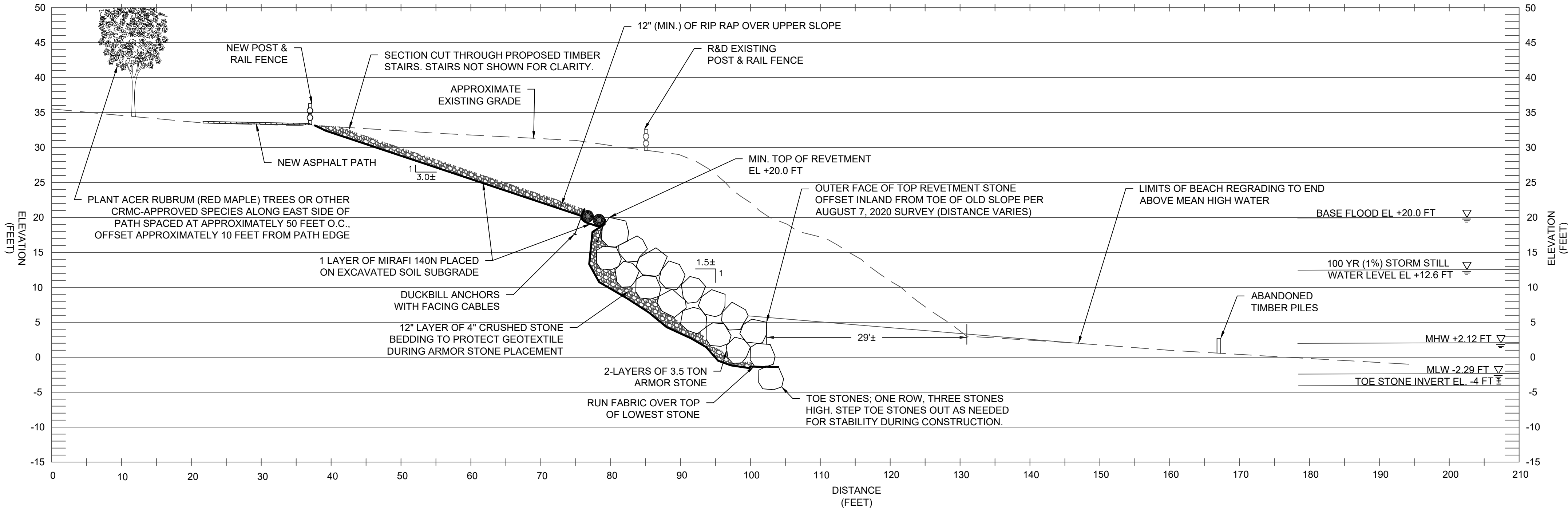
DATE:
SEPTEMBER 27, 2024
DESIGN BY: SMR
DRAWN BY: ADS / CDD
CHECKED BY: SMR
PROJECT NUMBER:
22006.00

C-15
SHEET 15 OF 18





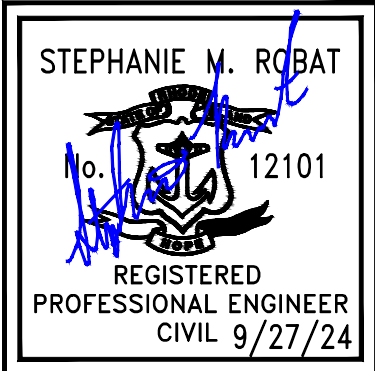
G-G'
C-9 C-16
SCALE: 1" = 10'



H-H'
C-9 C-16
SCALE: 1" = 10'

NOTES:

- 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.
- RECENTLY ERODED AREAS ARE NOT REFLECTED IN THE APPROXIMATE EXISTING GRADE SHOWN.
- FEMA HAS ISSUED 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 REPORT. THE REVETMENT WAS DESIGNED FOR A SIGNIFICANT WAVE HEIGHT OF 7.6 FT IN ACCORDANCE WITH THE 2015 FIS TO MAINTAIN DESIGN CONSISTENCY WITH THE ADJACENT REVETMENT SYSTEMS.
- CONTRACTOR TO PRUNE OR REMOVE DEAD, UNSTABLE/UNSAFE VEGETATION AS NEEDED TO CREATE A SAFE WORKING ENVIRONMENT. EXISTING TREES AND VEGETATION ALONG SLOPE NOT SHOWN FOR CLARITY.



0 5 10 20
FULL SCALE (22X34 PRINT): 1" = 10'
HALF SCALE (11X17 PRINT): 1" = 20'

FRENGINEERING
GROUP

2346 Post Road, Suite 202
Warwick, RI 02886
401-575-1669
stephanie.robat@fr-eng.com

REVISION DESCRIPTION	BY	DATE	SMR
ISSUED FOR PERMIT		9/27/24	

ROSE LARISA MEMORIAL PARK
SLOPE REPAIRS & SHORELINE PROTECTION
EAST PROVIDENCE, RHODE ISLAND

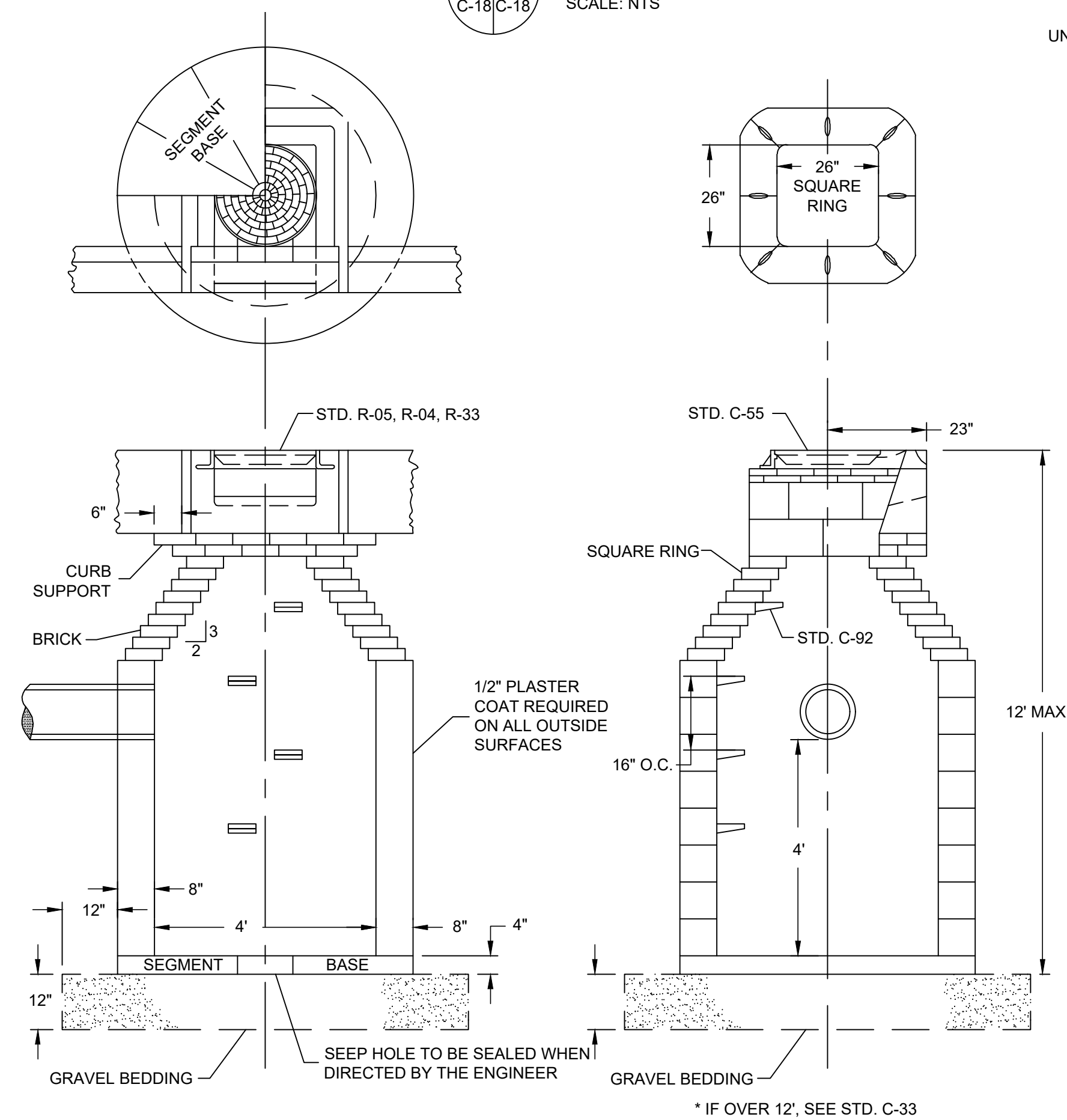
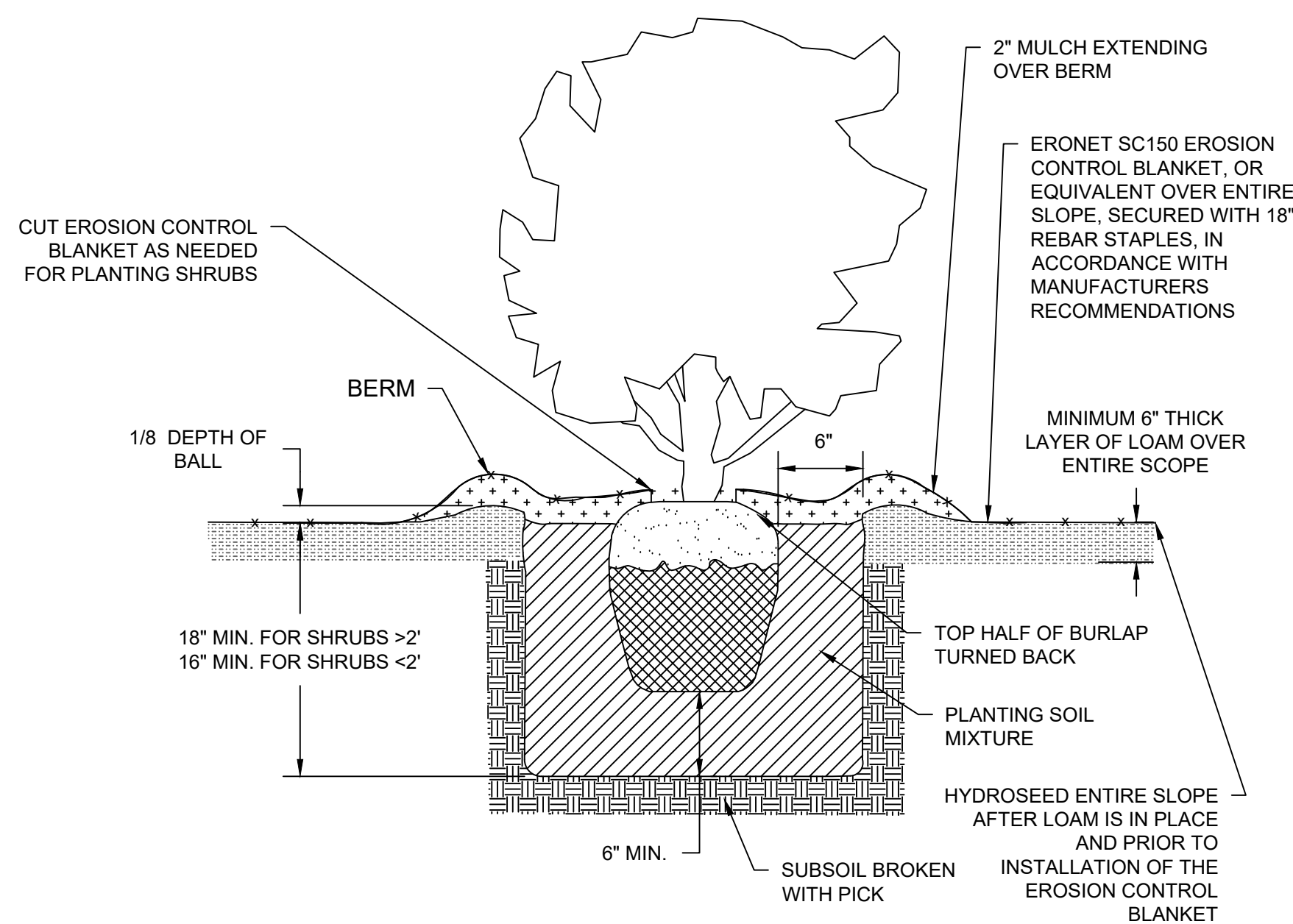
SLOPE REPAIR CROSS SECTION
4 OF 4

PERMIT PLAN SET
NOT FOR CONSTRUCTION

DATE:
SEPTEMBER 27, 2024
DESIGN BY: SMR
DRAWN BY: ADS / CDD
CHECKED BY: SMR
PROJECT NUMBER:
22006.00

C-16
SHEET 16 OF 18

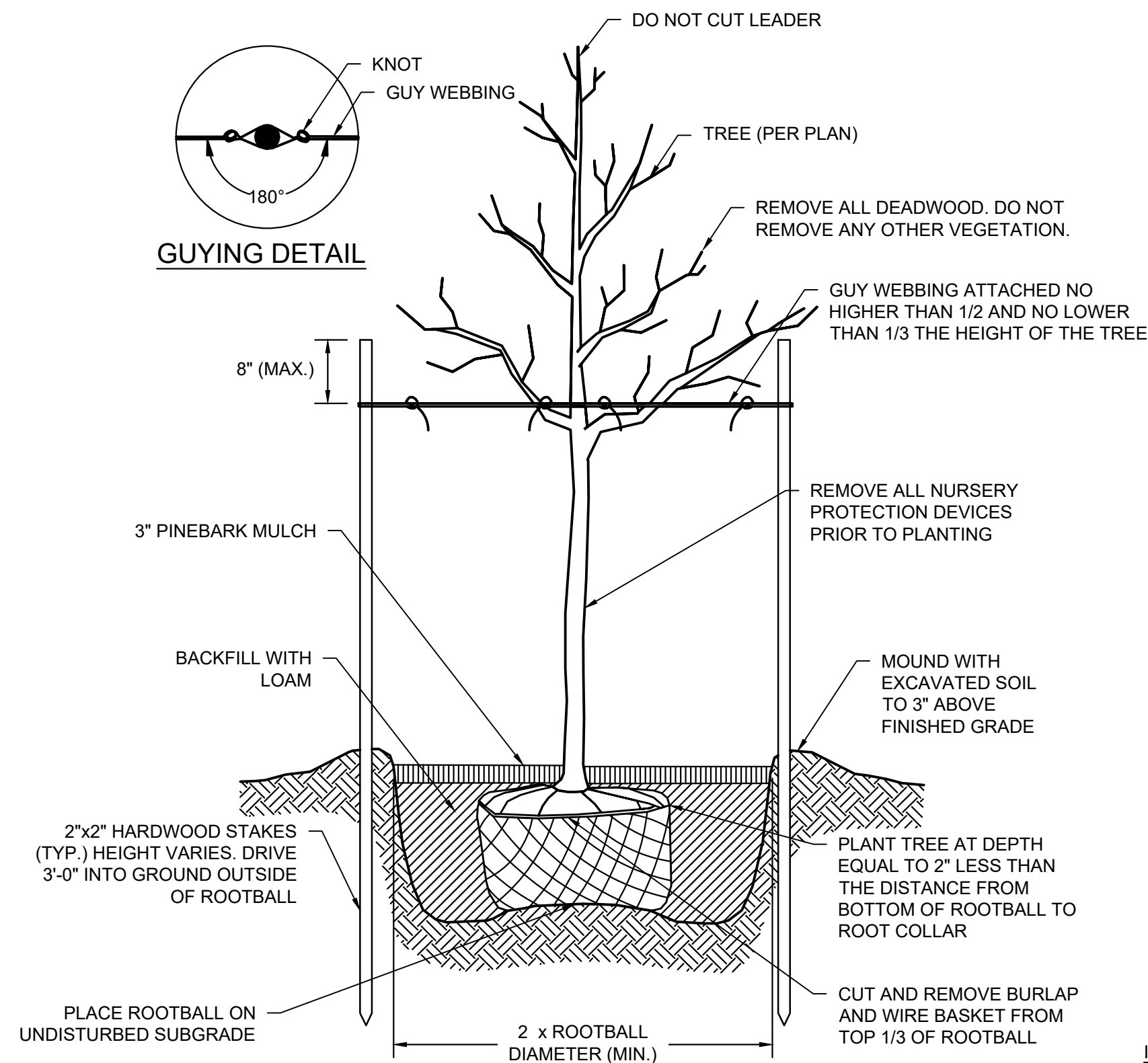




J CATCH BASIN DETAIL

C-18 C-18

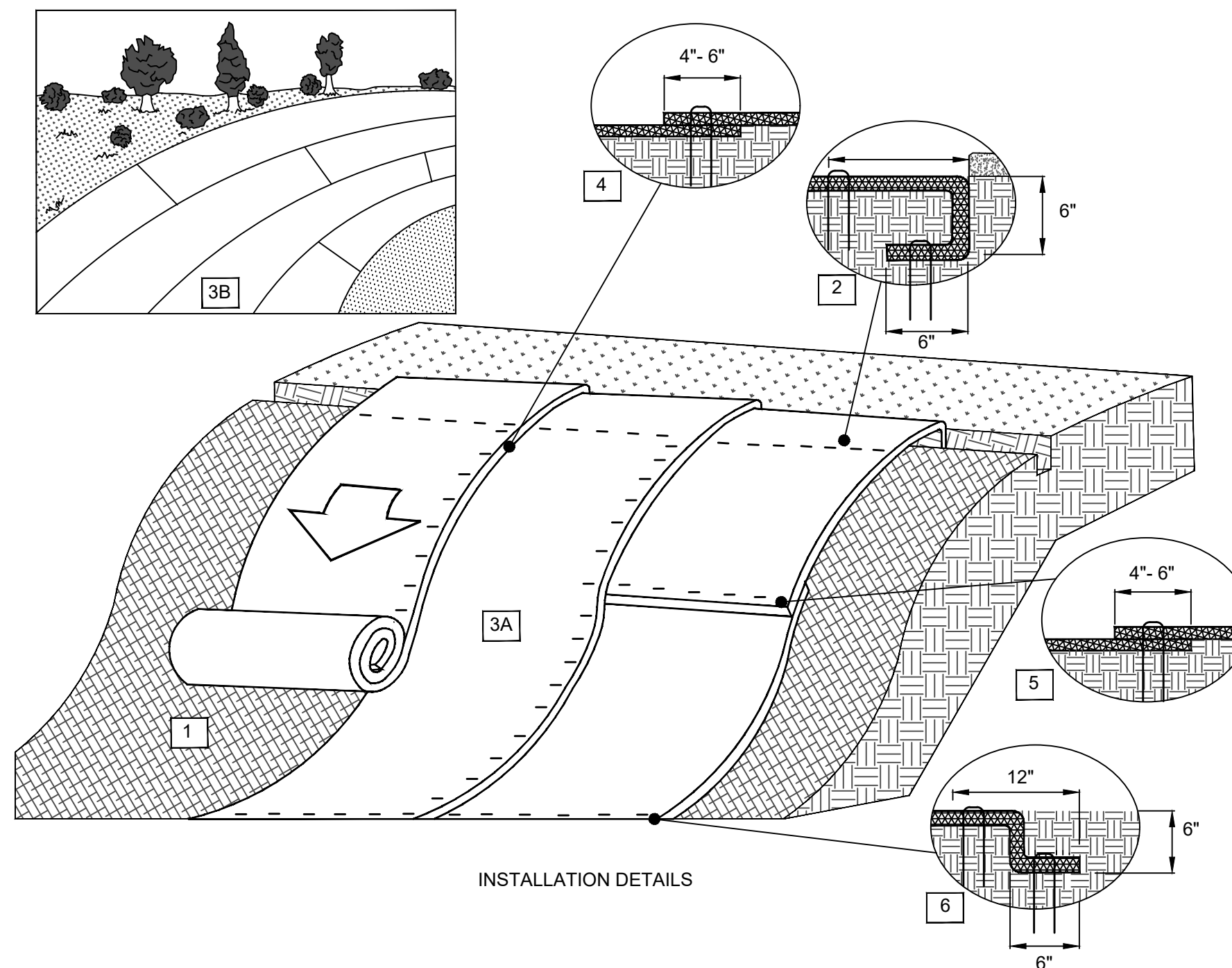
SCALE: NTS



NOTE:
SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. DOT STANDARD SPECIFICATIONS

 TREE PLANTING DETAIL

SCALE: NTS



INSTALLATION NOTES:
1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPs), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. GROUND SURFACE MUST BE FREE OF DEBRIS, ROCKS, CLAY CLODS AND RAKED SMOOTH SUFFICIENT TO ALLOW INTIMATE CONTACT OF THE RECP WITH THE SOIL OVER THE ENTIRETY OF THE INSTALLATION.

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPs IN A 6" DEEP X 6" WIDE TRENCH. ANCHOR THE RECPs WITH A ROW OF STAPLES/STAKES/PINS SPACED AT S_1 APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING AND FOLD THE ROLL OVER, DOWNSLOPE. SECURE RECPs OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES/PINS SPACED AT S_1 APART ACROSS THE WIDTH OF THE RECPs.

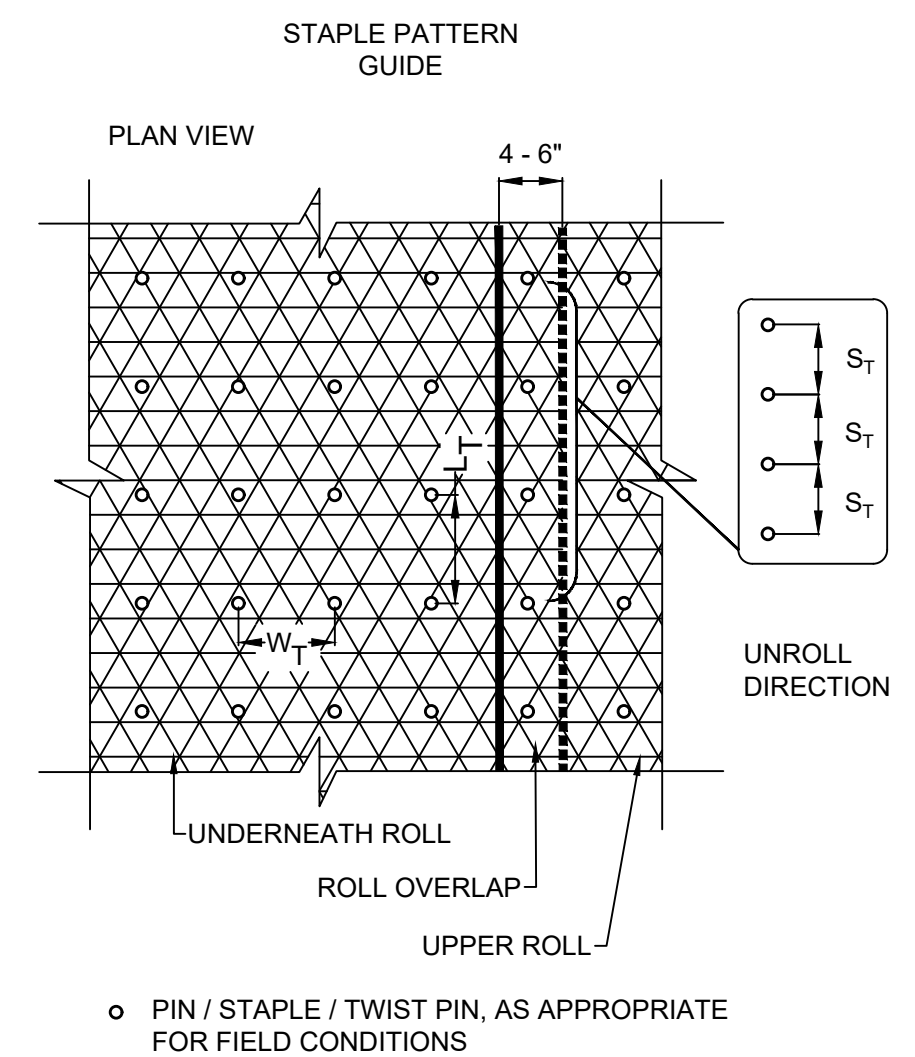
3. ROLL THE RECPs (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECPs WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPs MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/ STAKES/PINS IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. ROLLMAX RECPs AND ECBs SHOULD UTILIZE STAPLE PATTERN SHOWN IN ACCOMPANYING TABLE.

4. THE EDGES OF PARALLEL RECPS MUST BE STAPLED WITH APPROXIMATELY 4" - 6" OVERLAP.

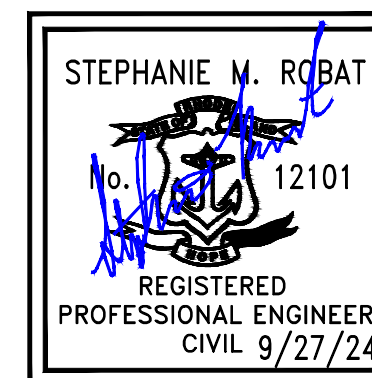
5. CONSECUTIVE RECPs SPLICED DOWN THE SLOPE MUST OVERLAPPED WITH THE UPSTREAM MAT ATOP THE DOWNSTREAM MAT (SHINGLE STYLE). THE OVERLAP SHOULD BE 4" - 6".

6. AT THE TERMINAL END, SECURE EACH MAT ACROSS THE WIDTH WITH A ROW OF STAPLES/STAKES/PINS SPACED AT S_T . IF EXPOSED TO FLOW, FOOT TRAFFIC, WIND UPLIFT OR OTHER DISRUPTION, TRENCH THE TERMINAL END IN AS SHOWN IN DETAIL.

7. FASTENERS SHOULD PROVIDE A MINIMUM OF TWENTY POUNDS OF PULLOUT RESISTANCE.



DIMENSION	MEASUREMENT
W _T	30"
L _T	30"
S _T	18"
NOMINAL FREQUENCY	1.7 / SY
APPLICATION	ECB (DEGRADABLE)



#	REVISION DESCRIPTION	DATE	BY
1	ISSUED FOR PERMIT	9/27/24	SMR

ROSE LARISA MEMORIAL PARK
SLOPE REPAIRS & SHORELINE PROTECTION
EAST PROVIDENCE, RHODE ISLAND

TYPICAL DETAILS
2 OF 2

**PERMIT PLAN
SET**

**NOT FOR
CONSTRUCTION**

DATE:
SEPTEMBER 27, 2024

DESIGN BY: SMR
DRAWN BY: SJR / CDD
CHECKED BY: SMR

PROJECT NUMBER:	22006.00
-----------------	----------

C-18

SHEET 18 OF 18