

# Roger Williams Park Stormwater Treatment Train

AP 090, Lot 157

1000 Elmwood Avenue  
Providence, Rhode Island

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:

Kindly be advised that this Permit  
is not equivalent to a  
verification of the type or extent  
of freshwater wetlands on site

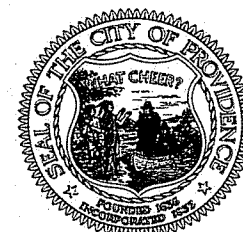
CIVIL ENGINEER:



**PARE**  
PARE CORPORATION  
ENGINEERS - SCIENTISTS - PLANNERS

8 BLACKSTONE VALLEY PLACE LINCOLN, RI 02865 401-334-4100  
10 LINCOLN ROAD, SUITE 210 FOWLER, MA 02835 508-549-1755  
14 BOBOLA ROAD, SUITE 203 HOLYOKE, MA 01040 413-507-3448

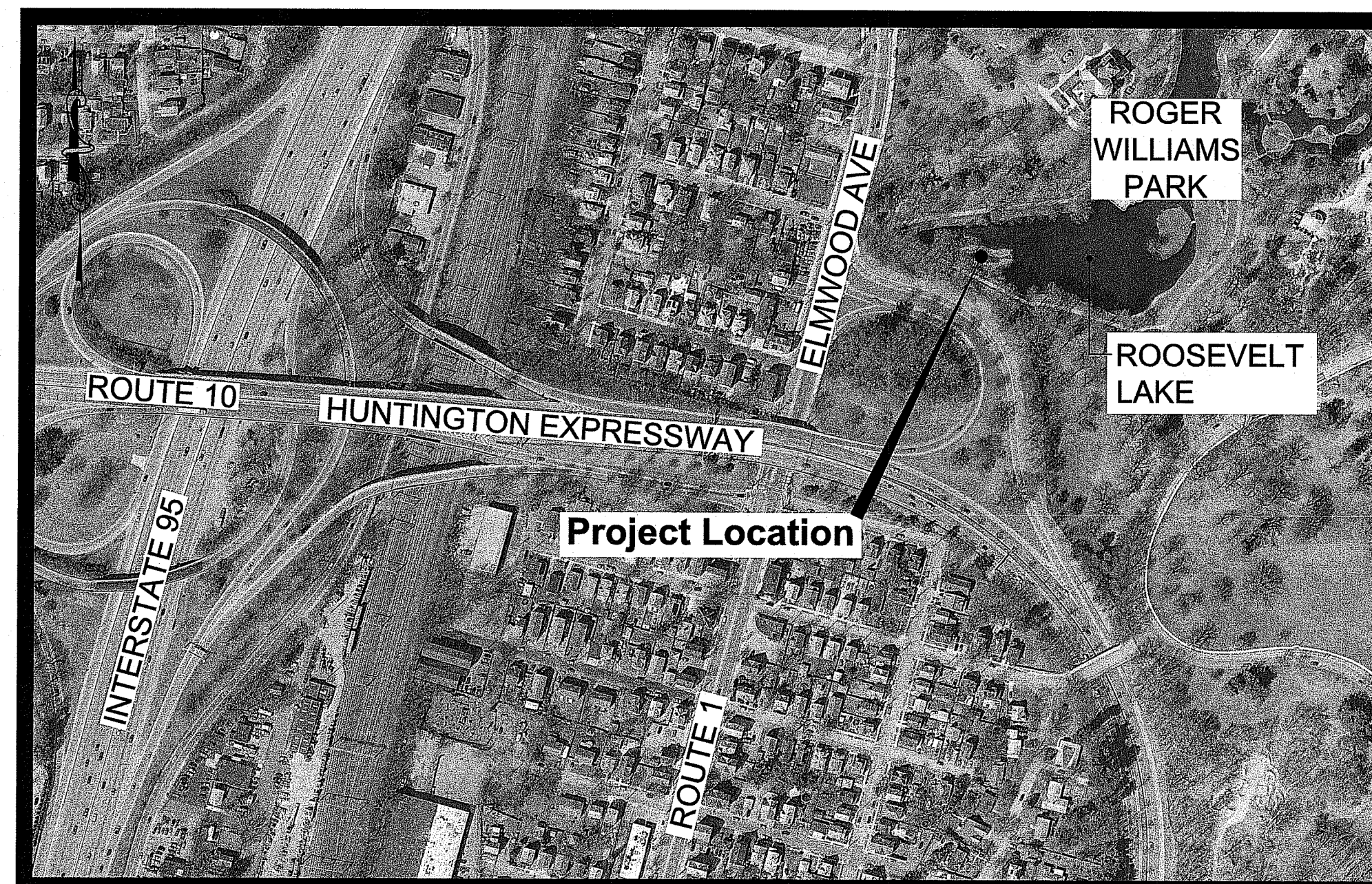
PREPARED FOR:



PROVIDENCE PARKS DEPARTMENT  
1000 ELMWOOD AVENUE  
PROVIDENCE, RI 02905



PROVIDENCE STORMWATER  
INNOVATION CENTER  
1000 ELMWOOD AVENUE  
PROVIDENCE, RI 02905



Scale : N.T.S.

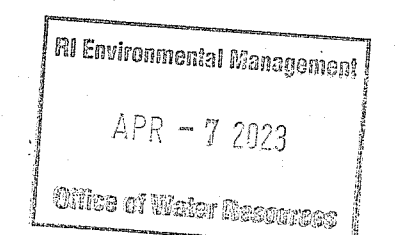
HONORABLE BRETT P. SMILEY, MAYOR  
WENDY NILSSON, SUPERINTENDENT OF PARKS

FRESHWATER WETLANDS APPLICATION SUBMISSION  
APRIL 2023

## INDEX OF DRAWINGS

SHEET No.	DRAWING No.	DESCRIPTION
1	---	COVER SHEET
2	C1.1	NOTES & LEGEND
3	C1.2	EXISTING CONDITIONS
4	C2.0	DEMOLITION, EROSION & SEDIMENT CONTROL PLAN
5	C3.0	GENERAL PLAN
6	C4.0	GRADING, DRAINAGE & UTILITY PLAN
7	C5.1	DETAILS 1
8	C5.2	DETAILS 2
9	C5.3	DETAILS 3
10	C5.4	DETAILS 4
11	C5.5	DETAILS 5
12	C6.0	PEDESTRIAN DETOUR PLAN

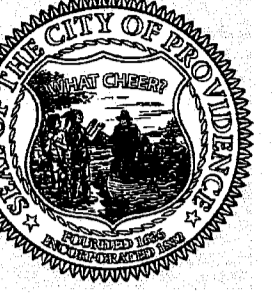
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: MAY 09 2023 FILE #: 23-0081  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



*Nancy L. Freeman*







SCALE ADJUSTMENT GUIDE  
 0 1"  
 BAR IS ONE INCH ON ORIGINAL DRAWING

**Roger Williams Park  
 Stormwater Treatment Train**  
 1000 Elmwood Avenue Providence, Rhode Island  
 DEMOLITION, EROSION & SEDIMENT CONTROL PLAN

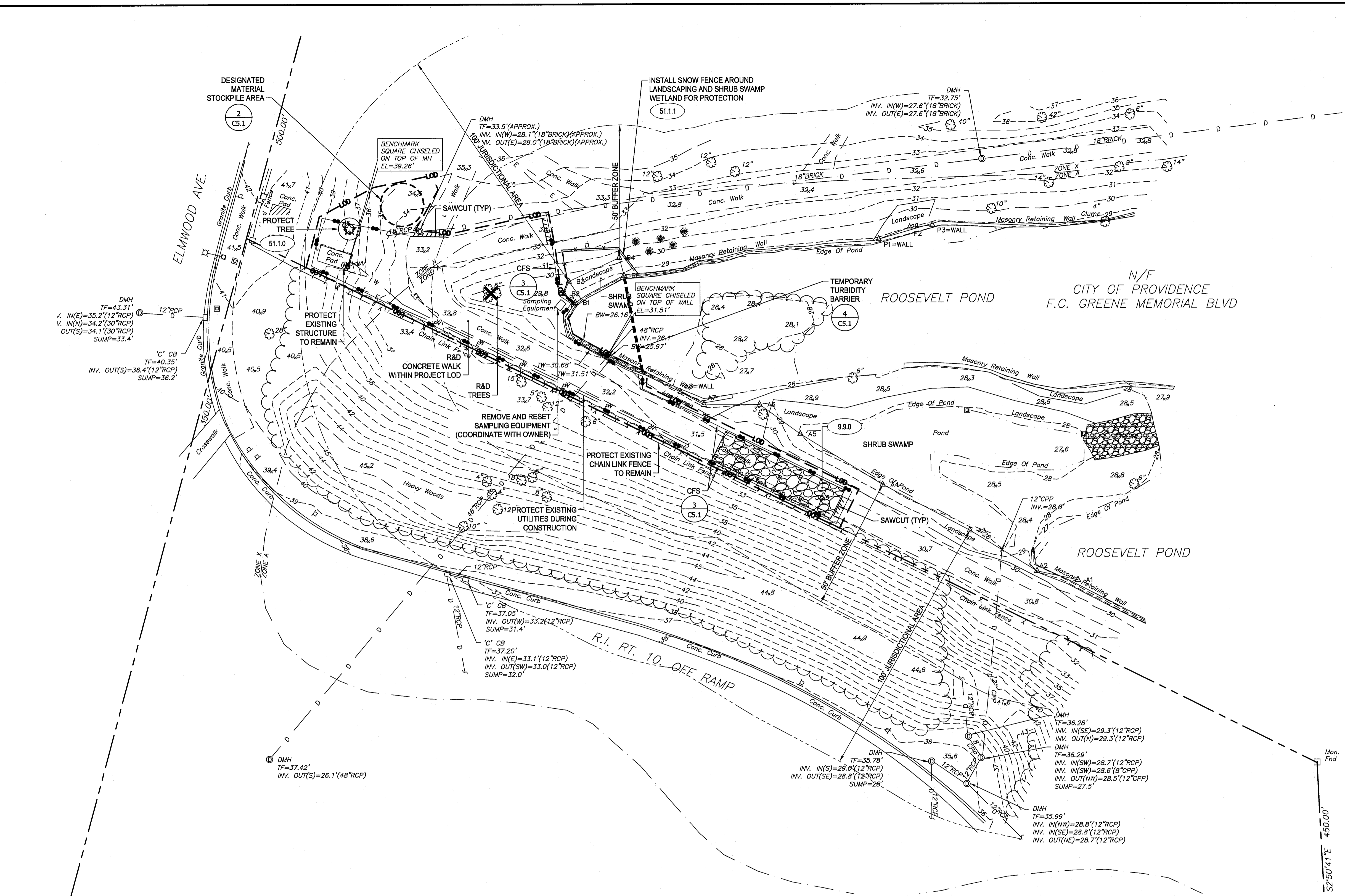


REVISIONS:

PROJECT NO.: 22220.00  
 DATE: APRIL 2023  
 SCALE: 1" = 20'  
 DESIGNED BY: CRL  
 CHECKED BY: BB  
 DRAWN BY: AWB \ AKL  
 APPROVED BY: BB

RI Environmental Management  
 APR 07 2023  
 Office of Water Resources

DRAWING NO.: **C2.0**  
 SHEET NO. 4 OF 12



**EXISTING LEGEND**

- Light Pole
- ⊗ Deciduous Tree
- ☆ Coniferous Tree
- ⊙ Bush
- ⊕ Water Gate
- ⊞ Handhole
- "C" Catch Basin
- ⊙ Water Manhole
- ⊙ Drainage Manhole
- ⊞ Sign
- - - 100 - - - Contour Line
- 101.8 Spot Grade
- x Chain Link Fence
- o — Metal Fence
- w — Treeline
- w — Underground Water Line
- D — Underground Drain Line
- E — Underground Electric Line
- · — Edge of Pond
- · - Fema Zone Line

**PROPOSED LEGEND**

- 262 — CONTOUR
- x 261.5 SPOT ELEVATION
- o — DRAINAGE LINE
- o — LIMIT OF DISTURBANCE
- o — CHAIN LINK FENCE
- x — FENCE
- — — CURBING
- — — EDGE OF PAVEMENT
- / — SAWCUT LINE
- + — SIGN
- o — COMPOST FILTER SOCK
- ⊗ REMOVE & DISPOSE TREE. DISPOSE OF TREE AND STUMP OFF-SITE.
- ⊙ PROTECT EXISTING TREE TO REMAIN.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:  
 Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: MAY 09 2023 FILE # 23-0081  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy P. Pezzullo*

Scale: 1"=20'  
 0 10' 20' 40'

21:000123 Job: 22220.00 RI Park Stormwater Treatment Train - RI DEPT Environmental Management & Sediment Control Plans.dwg

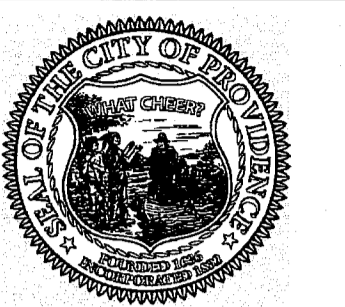






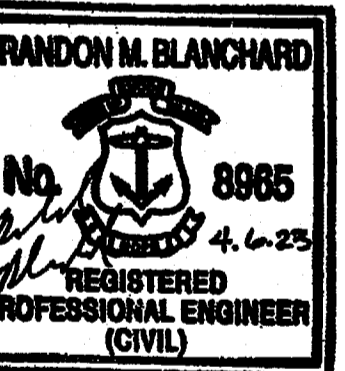






SCALE ADJUSTMENT GUIDE  
0" 1"  
BAR IS ONE INCH ON ORIGINAL DRAWING

Roger Williams Park  
Stormwater Treatment Train  
1000 Elmwood Avenue Providence, Rhode Island  
DETAILS 4

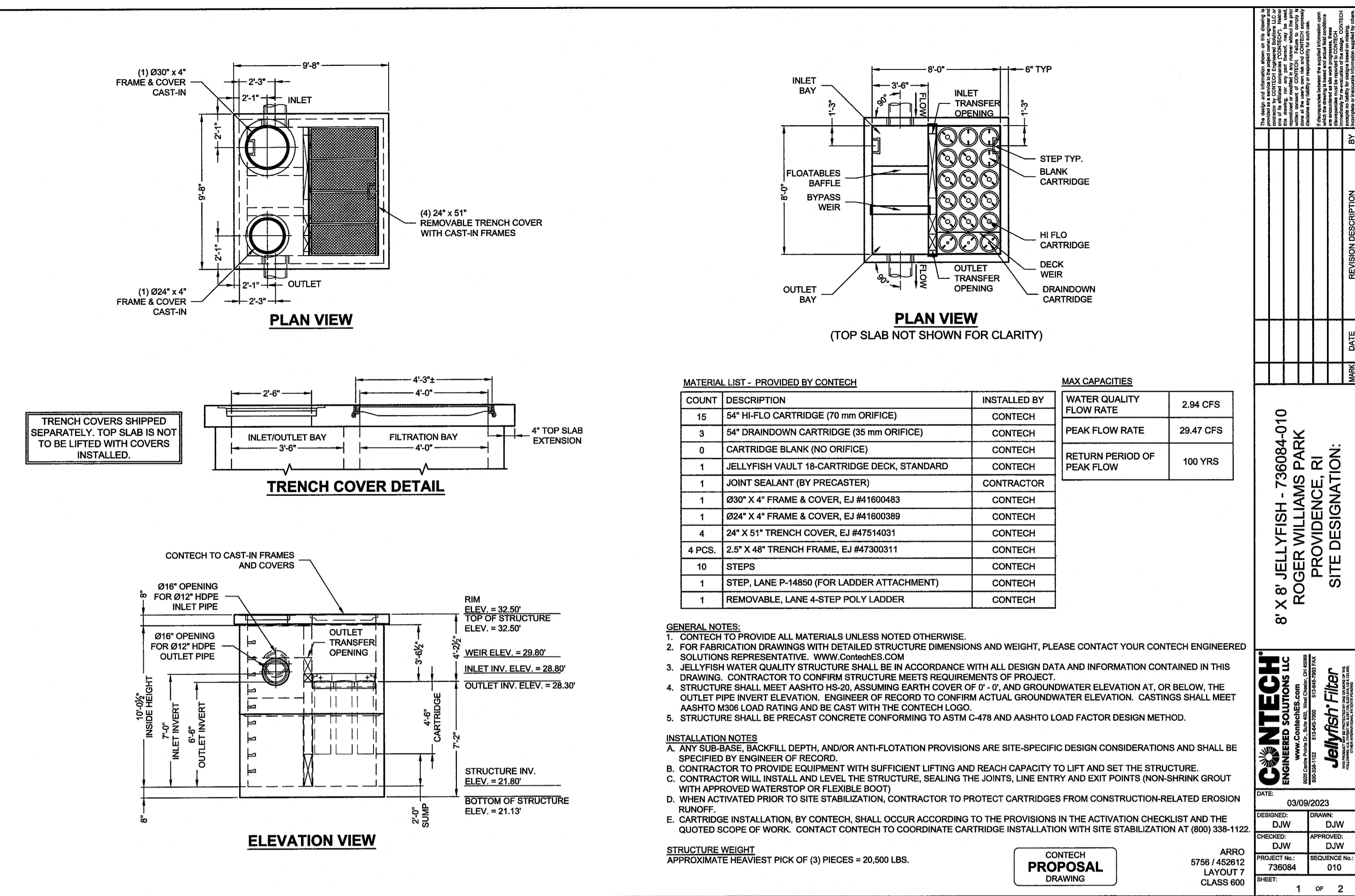


REVISIONS:

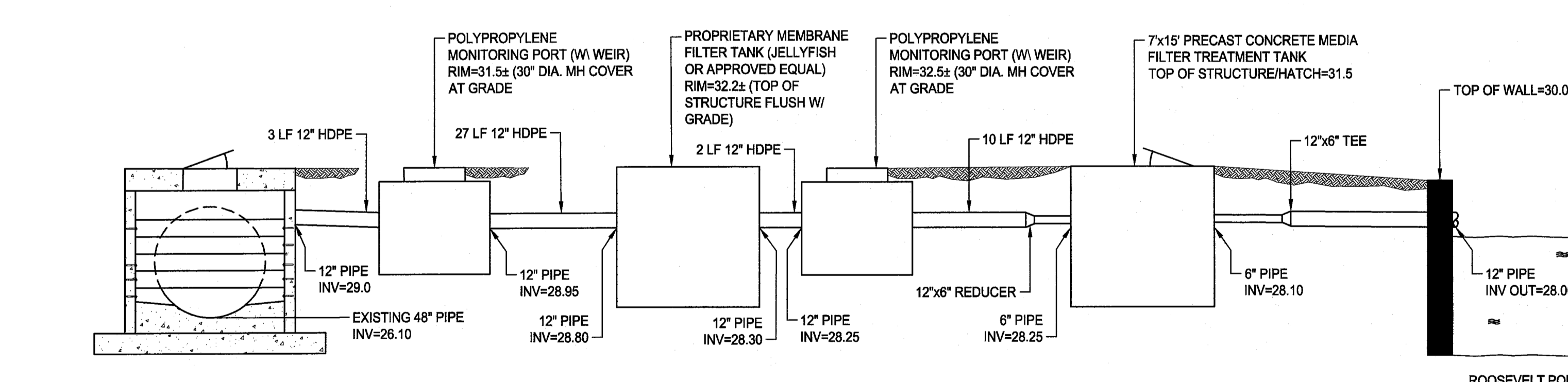
PROJECT NO.: 22220.00  
DATE: APRIL 2023  
SCALE: NOT TO SCALE  
DESIGNED BY: CRL  
CHECKED BY: BB  
DRAWN BY: AWB \ AKL  
APPROVED BY: BB

RI Environmental Management  
APR 07 2023  
Office of Water Resources

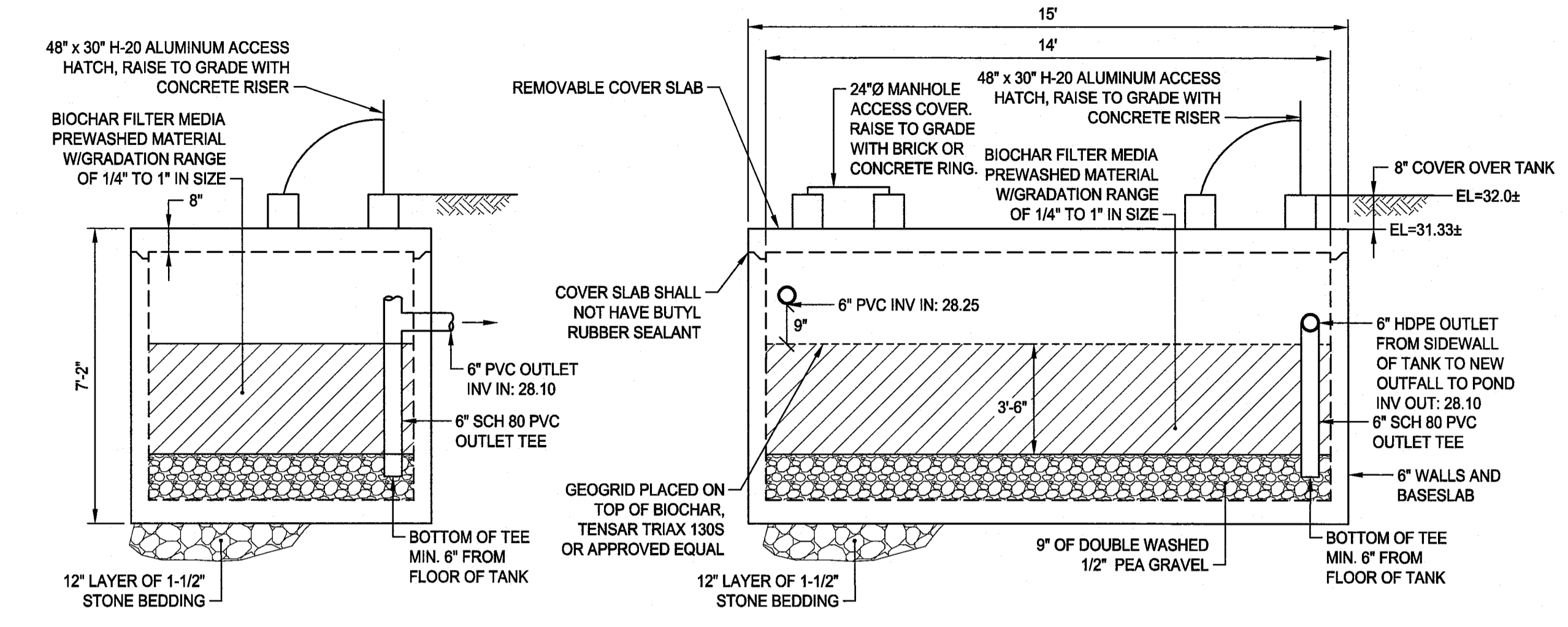
DRAWING NO.: C5.4  
SHEET NO. 10 OF 12



1 "JELLYFISH" TREATMENT FILTER UNIT (OR APPROVED EQUAL)  
NOT TO SCALE



2 TREATMENT TRAIN SYSTEM PROFILE  
NOT TO SCALE



2 MEDIA FILTER TREATMENT SYSTEM DETAIL  
NOT TO SCALE

**END VIEW**

**NOTES:**

- STRUCTURE SHALL BE CAST TO ALLOW FOR TOP COVER TO BE REMOVED AS SHOWN ON THE DETAIL. BUTYL SEALANT SHALL NOT BE USED ON THIS JOINT.
- ALL OTHER JOINTS SHALL BE SEALED WITH BUTYL RUBBER SEALANT.
- CONCRETE SHALL BE 5000 PSI @ 28 DAYS.
- REINFORCING SHALL BE ASTM A-615 GRADE 60.
- TANK AND ACCESS HATCH SHALL BE RATED FOR H-20 LOADING.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:  
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

Z:\WORK\137\_Arch\132220.00\_RR\_Park\_Stormwater\_Treatment\_Train-00\DWG\ST\_Detals.dwg



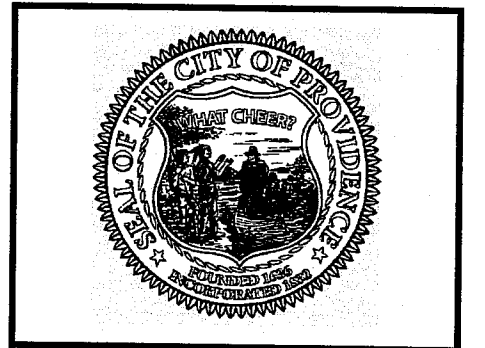
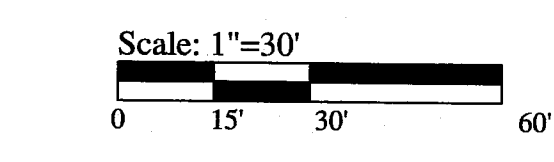


**NOTES:**

1. ALL TEMPORARY PEDESTRIAN CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER PEDESTRIAN CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE PEDESTRIAN CONTROL DEVICES SHALL BE REMOVED FROM THE PARK OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF PEDESTRIANS.
5. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
6. COORDINATE OVER WEIGHT DELIVERIES WITH PARKS DEPARTMENT 48 HOURS IN ADVANCE. PREFERRED PATH IS FROM PARK AVENUE ENTRANCE, TRAVELING AGAINST NORMAL ONE-WAY FLOW OF TRAFFIC TO AVOID TRAVELING OVER BRIDGES WITHIN THE PARK.

**LEGEND:**

- ← DIRECTION OF TRAFFIC
- ⊥ TEMPORARY SIGN
- ▨ WORK ZONE
- ▬▬▬ LONGITUDINAL PEDESTRIAN CHANNELIZING DEVICE



SCALE ADJUSTMENT GUIDE  
 1" = 30'  
 BAR IS ONE INCH ON ORIGINAL DRAWING

**Roger Williams Park  
 Stormwater Treatment Train**  
 1000 Elmwood Avenue Providence, Rhode Island  
 PEDESTRIAN DETOUR PLAN



**REVISIONS:**

NO.	DATE	DESCRIPTION

PROJECT NO.: 22220.00  
 DATE: APRIL 2023  
 SCALE: 1" = 30'  
 DESIGNED BY: CRL  
 CHECKED BY: BB  
 DRAWN BY: AWB \ AKL  
 APPROVED BY: BB

Office of Water Resources  
 APR 20 2023

DRAWING NO.: **C6.0**  
 SHEET NO. 12 OF 12