

Hull Street Playground Drainage Improvements

Project No. EP23/24-19

North Hull Street
East Providence, Rhode Island

MARCH 2024

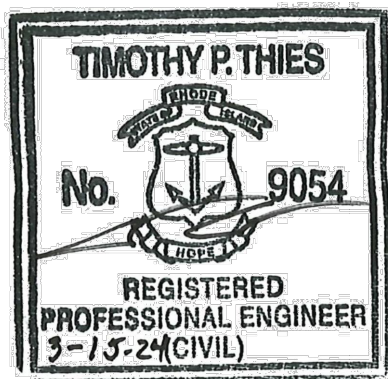
CIVIL ENGINEER:



PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE LINCOLN, RI 02865 401-334-4100
10 LINCOLN ROAD, SUITE 210 FORTBORO, MA 02035 508-243-1755
14 BOSMA ROAD, SUITE 2B HOLYOKE, MA 01140 413-507-3448

PREPARED FOR:

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



Scale : 1" = 500'

INDEX OF DRAWINGS

SHEET No.	DRAWING No.	DESCRIPTION
1	----	COVER SHEET
2	C0.1	NOTES
3	C0.2	LEGEND
4	C1.0	EXISTING CONDITIONS/ EROSION CONTROL PLAN
5	C2.0	GRADING AND DRAINAGE PLAN
6	C3.0	DETAILS

GENERAL

OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PE POLYETHYLENE

GENERAL

10

10 X 51

CONTOUR

LIMIT OF DISTURBANCE/COMPOST FILTER SOCK	LOB/CFS
CATCH BASIN	■
HYDRANT	✱
DRAINAGE MANHOLE	●
SEWER MANHOLE	●
UTILITY POLE	●

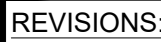


SCALE ADJUSTMENT GUIDE

0" 1"

BAR IS ONE INCH ON
ORIGINAL DRAWING

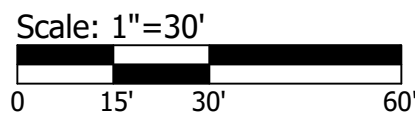
Hull Street Playground
Drainage Improvements
East Providence, Rhode Island

[illegible]

PROJECT NO.:	24037.00
DATE:	MARCH 2024
SCALE:	NOT TO SCALE
DESIGNED BY:	MAM
CHECKED BY:	DLI
DRAWN BY:	JLC
APPROVED BY:	DLI
DRAWING TITLE:	

DRAWING NO.:

SHEET NO. 3 OF 6



1. UTILITY SERVICE TO THE FACILITY SHALL NOT BE INTERRUPTED DUE TO UTILITY WORK SHOWN HEREON. ALL UTILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
2. PRIOR TO COMMENCING SITE WORK IN ANY ARE, THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES WITH THE PROJECT AREA USING GROUND-PENETRATING RADAR OR OTHER NONDESTRUCTIVE SURVEY METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXISTING UTILITIES OR STRUCTURES WITHIN THE PROJECT AREA DEPICTED AND NOT DEPICTED ON THE PLANS. ANY DAMAGE TO EXISTING WORKING UTILITIES OR STRUCTURES NOT INTENDED TO BE REMOVED SHALL BE RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
3. PRIOR TO ANY UTILITY AND/OR DRAINAGE SYSTEM DEMOLITION, PROVISIONS FOR MAINTAINING THE UTILITY SHALL BE APPROVED BY THE OWNER OR THE OWNER'S REPRESENTATIVE BEFORE AND RELATIVE WORK MAY COMMENCE.
4. AN IRRIGATION SYSTEM IS LOCATED WITHIN THE PROJECT AREA. CONTRACTOR SHALL REMOVE AND DISPOSE IRRIGATION FACILITIES AS REQUIRED TO INSTALL PROPOSED IMPROVEMENTS. PROTECT IN-PLACE IRRIGATION FACILITIES THAT DO NO CONFLICT WITH WORK.

TIMOTHY P. THIES

 No. 9054
REGISTERED
PROFESSIONAL ENGINEER
3-15-24(CIVIL)

DRAWING NO.:
C1.0
SHEET NO. 4

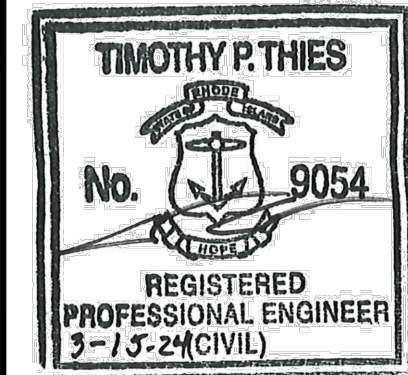
D:\PROJECTS\24\24037\24037.DWG User: PTHIES Date: 03/01/2024 10:00:00 AM Project: 24037 - GRADING AND DRAINAGE PLAN.dwg



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

Hull Street Playground Drainage Improvements

East Providence, Rhode Island



REVISIONS:

PROJECT NO.: 24037.00
DATE: MARCH 2024
SCALE: 1" = 30'
DESIGNED BY: MAM
CHECKED BY: DLL
DRAWN BY: JLC
APPROVED BY: DLL

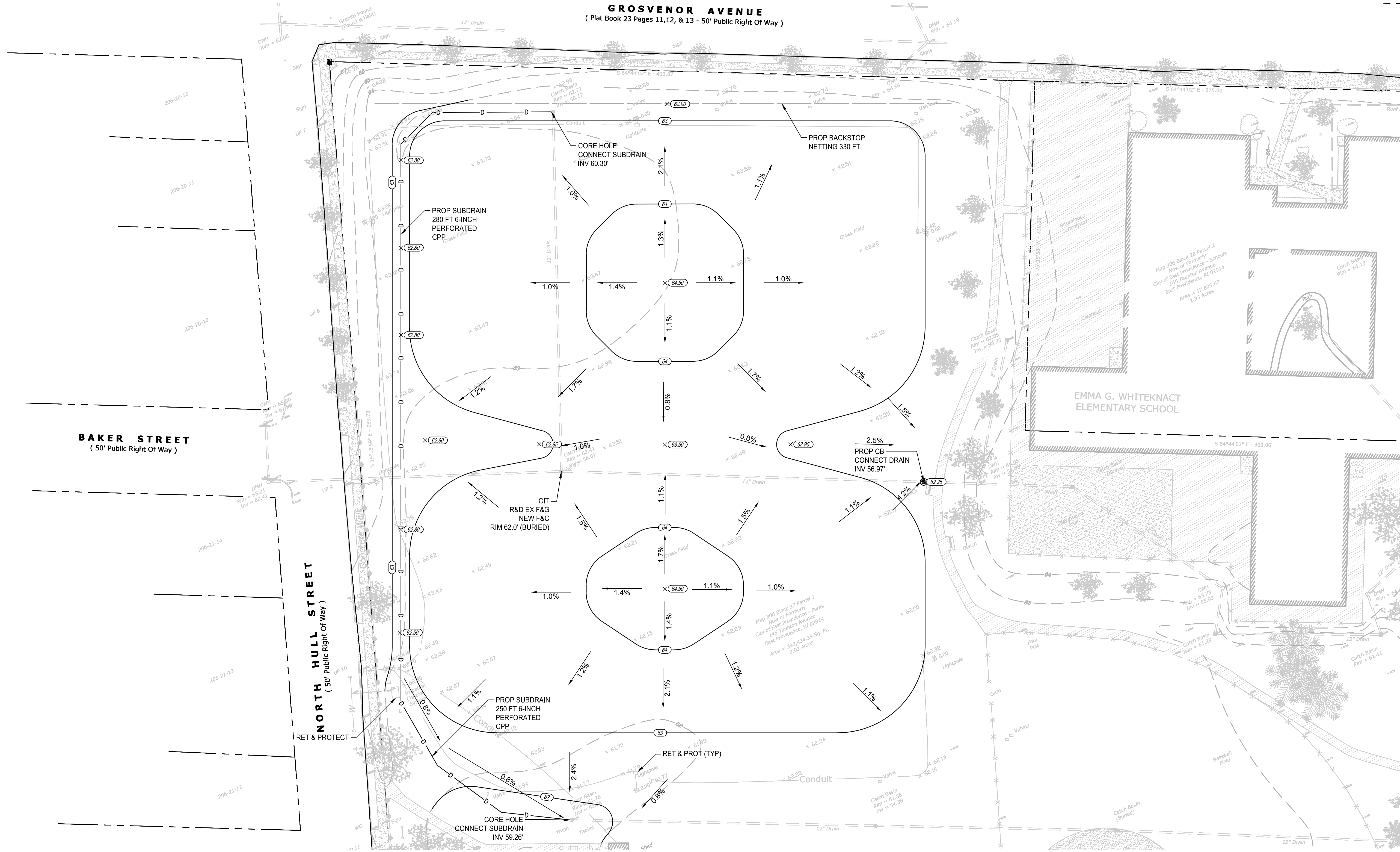
DRAWING TITLE:

GRADING AND
DRAINAGE PLAN

DRAWING NO.:

C2.0

SHEET NO. 5 OF 6

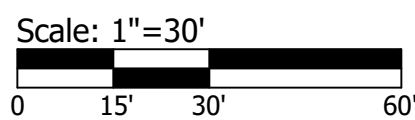


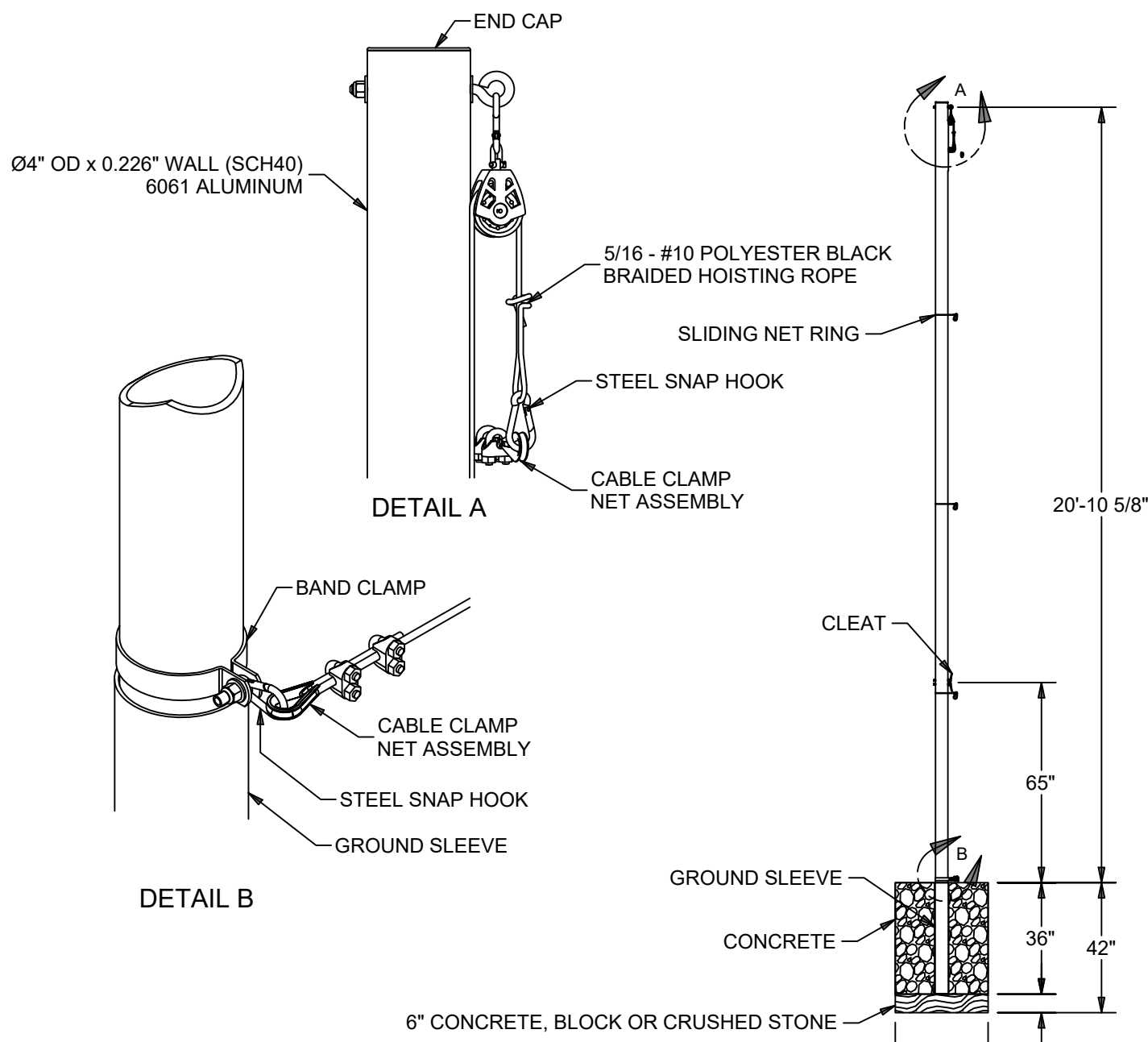
GRADING NOTES:

- ALL IMPORTED FILL SHALL COMPLY WITH THE SPECIFICATIONS FOR THE REQUIRED EARTHEN MATERIALS AT CONCENTRATIONS OF OIL & HAZARDOUS MATERIALS BELOW THE RHODE ISLAND DEPT OF ENVIRONMENTAL MANAGEMENT RESIDENTIAL DIRECT EXPOSURE CRITERIA.
- IMPORTED EARTHEN FILL WILL CONSIST PRIMARILY OF PERVIOUS FILL AND LOAM AND MEET THE REQUIREMENTS AS LISTED IN THE SPECIFICATIONS. THE FINAL LOAM SURFACE LAYER SHALL BE AT LEAST 4-INCHES THICK AND UNIFORM THROUGHOUT THE AREA OF COVERAGE. THE LOAM SURFACE SHALL BE DRUM ROLLED AFTER SEEDING.
- THE ATHLETIC FIELDS AND SURROUNDING GRASSED AREAS SHALL BE FINE OR MICRO GRADED TO MEET THE FINAL UNIFORM SLOPES AS SHOWN IN THE PLAN ABOVE TO ENSURE PROPER ATHLETIC FIELD PERFORMANCE AND DRAINAGE. NO UNDULATIONS, DEPRESSIONS, OR ISOLATED MOUNDS WILL BE ALLOWED.
- ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH GRADE. RIM ELEVATIONS OF STRUCTURES AND MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE GRADING PLANS.
- PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MIN. OF 1/8" PER FOOT UNLESS SPECIFIED.
- THE PROPOSED WALKWAYS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% AND A MAXIMUM RUNNING SLOPE OF 5% AS SHOWN ON CONSTRUCTION DETAILS.
- ALL GRADING AT ACCESSIBLE ROUTES SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA) OF 2010, LATEST EDITION.

DRAINAGE AND UTILITY NOTES:

- ALL SLOPES PROVIDED ARE FT/FT.
- ALL CATCH BASINS AND AREA DRAINS SHALL BE INSTALLED WITH A SUMP AND OUTLET HOOD PER THE DETAIL.
- REFER TO ELECTRICAL DRAWINGS FOR INFORMATION ON ELECTRIC AND TEL/DATA DUCT BANKS AND STRUCTURES. ALL ELECTRICAL FACILITIES DISPLAYED FOR REFERENCE ONLY.
- MODIFICATIONS AND REPAIRS TO THE EXISTING IRRIGATION SYSTEM AND SUPPLY WATER SERVICE SHALL BE DESIGNED, FURNISHED AND INSTALLED BY THE CONTRACTOR. THIS INCLUDES ALL WATER AND ELECTRICAL COMPONENTS INSTALLED PER MANUFACTURERS RECOMMENDATIONS.



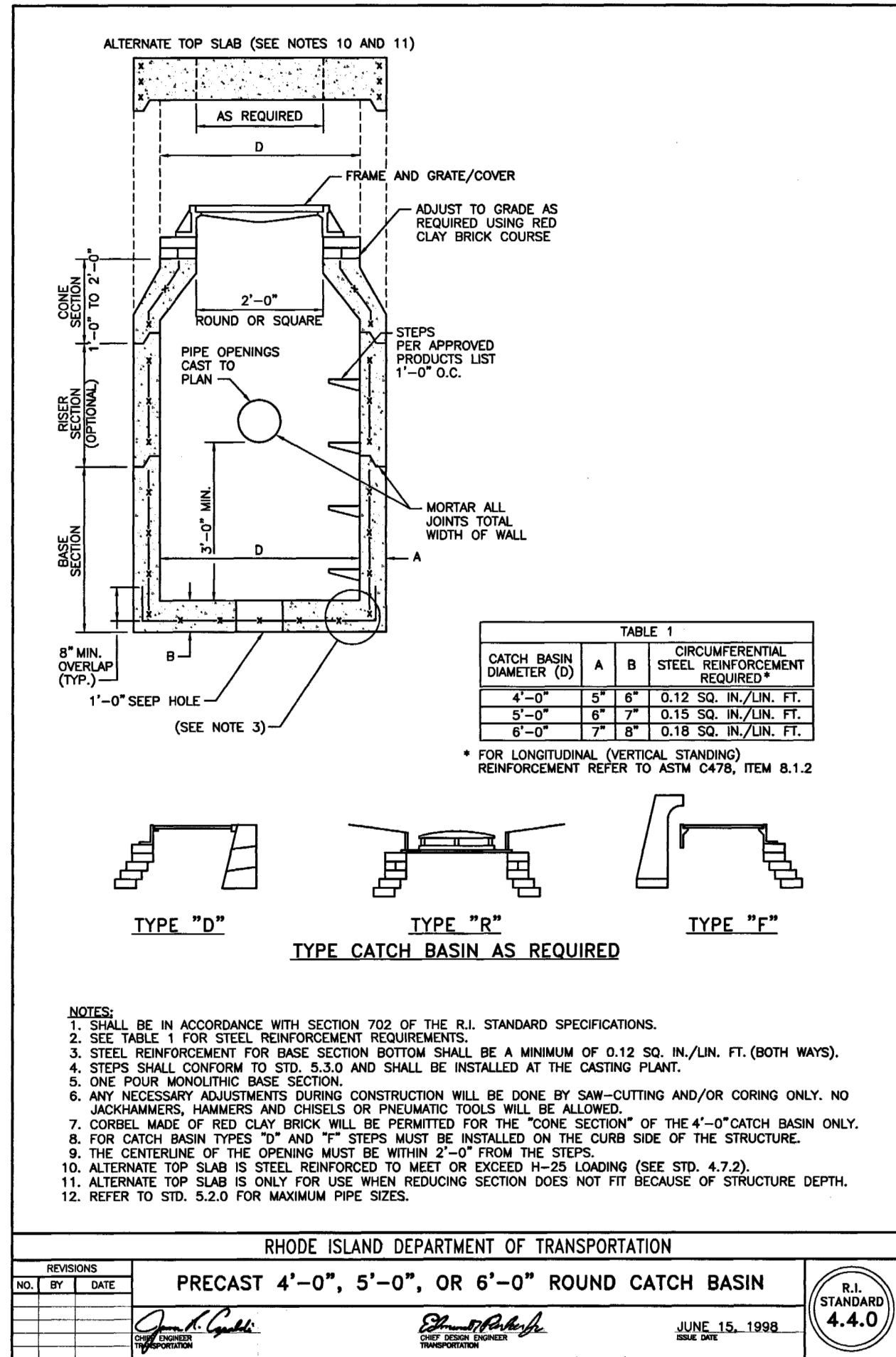


- FEATURES:**
- > Ø4" O.D. x 0.226" WALL (SCH40) 6061 ALUMINUM
 - > MILL FINISH OR POWDER COAT BLACK FINISH
 - > COMES WITH GROUND SLEEVE & COVER
 - > CORROSION RESISTANT HARDWARE
- NETTING OPTIONS:**
- > MULTI-SPORTS 1-3/4" x #36 KNOTTED NYLON SQ. MESH, UV TREATED WITH 1/4" ROPE BORDER
 - > SOCCER / FOOTBALL 3-1/2" x #36 KNOTTED NYLON SQ. MESH, UV TREATED WITH 1/4" ROPE BORDER
 - > 1-3/4" KNOT-LESS HTPP SQ. MESH, UV TREATED WITH 1/4" ROPE BORDER
 - > 4" KNOT-LESS HTPP SQ. MESH, UV TREATED WITH 1/4" ROPE BORDER

NOTE: THESE ARE SUGGESTED DIMENSIONS FOR AVERAGE SOIL CONDITIONS, CONSULT LOCAL BUILDING CODES.

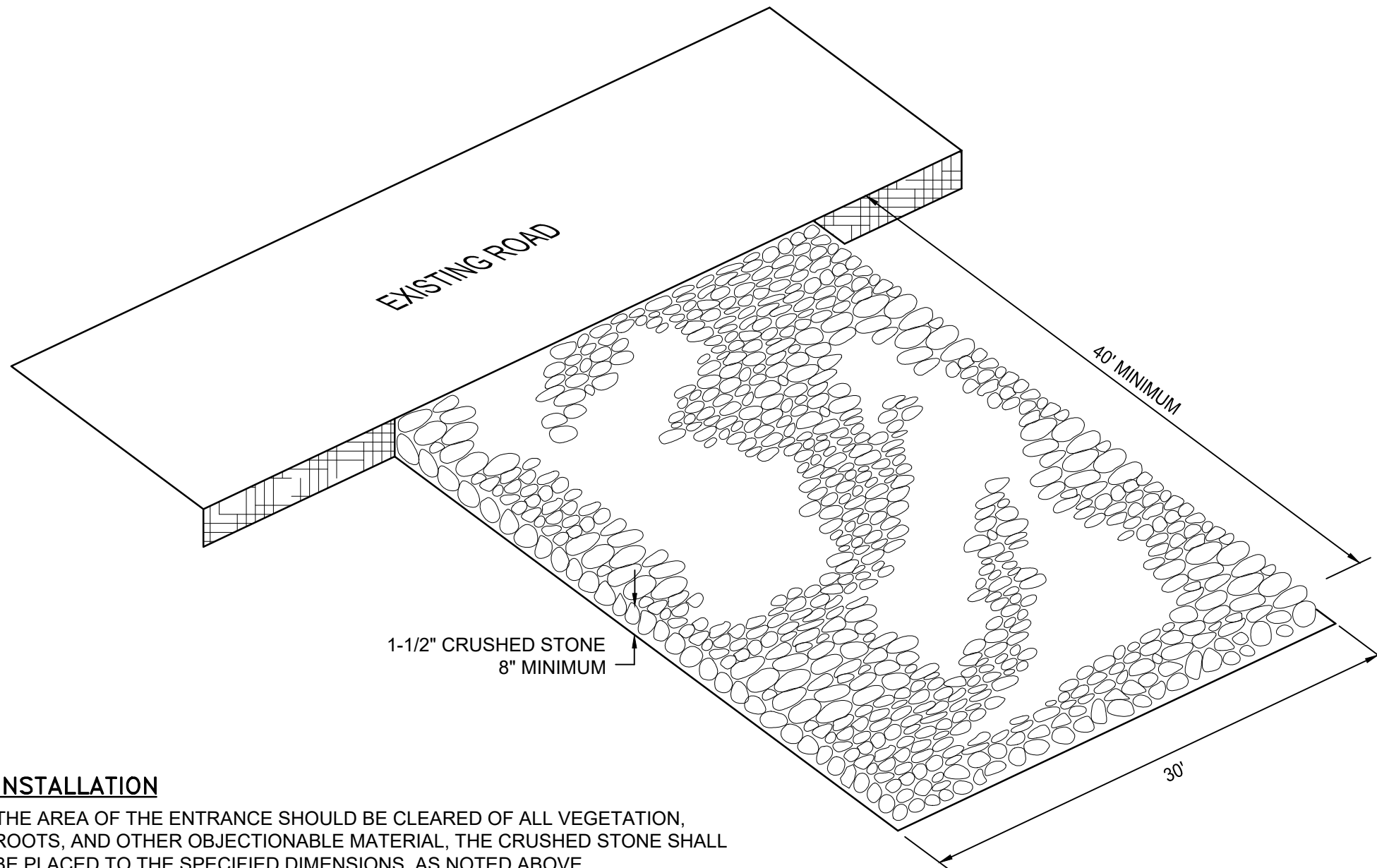
ALUMINUM BALL STOP POLE SYSTEM

NOT TO SCALE



PRECAST ROUND CATCH BASIN

NOT TO SCALE



INSTALLATION

THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. THE CRUSHED STONE SHALL BE PLACED TO THE SPECIFIED DIMENSIONS, AS NOTED ABOVE.

MAINTENANCE

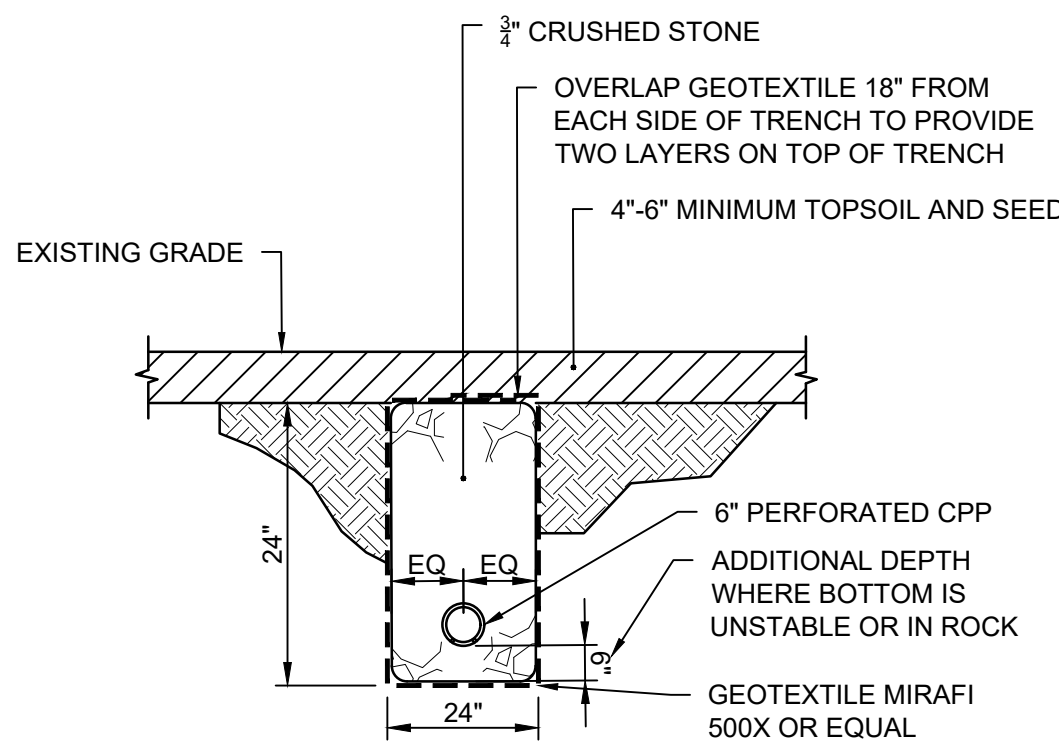
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENTS ONTO PUBLIC RIGHT-OF-WAYS. THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE, OR ADDITIONAL LENGTH, AS CONDITIONS DEMAND, AND REPAIR, AND / OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.

LOCATION

SEE PROJECT PLANS FOR LOCATION OF CONSTRUCTION ENTRANCE.

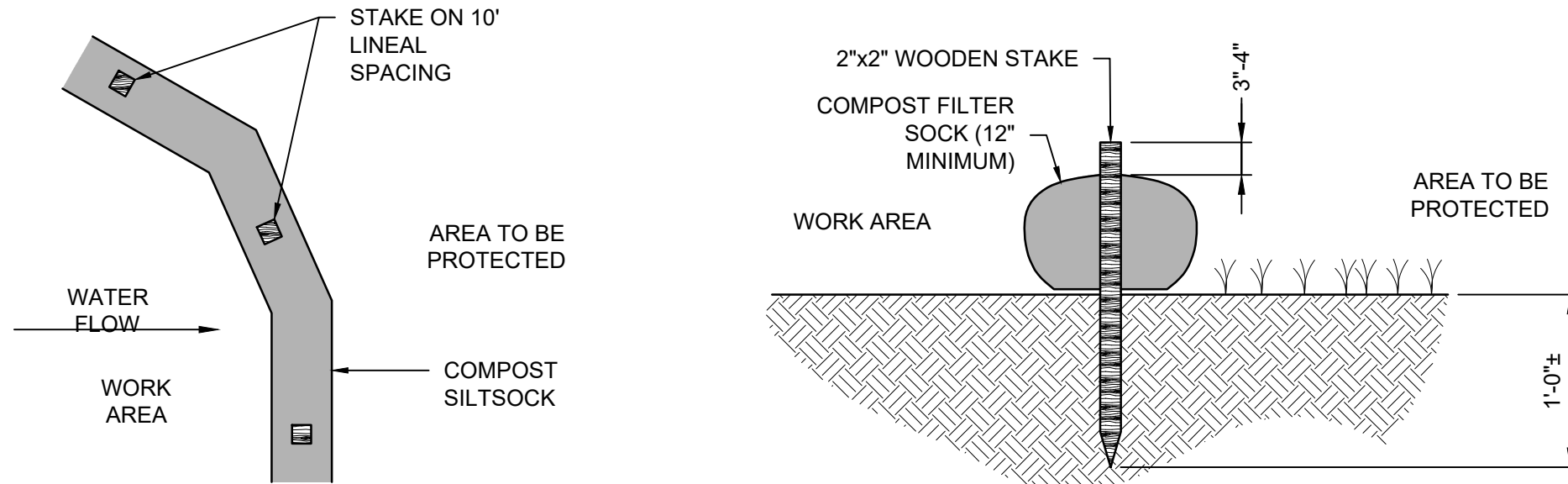
CONSTRUCTION ENTRANCE PROTECTION STONE STABILIZATION PAD

NOT TO SCALE



UNDERDRAIN DETAIL 24 INCH TOTAL DEPTH

NOT TO SCALE

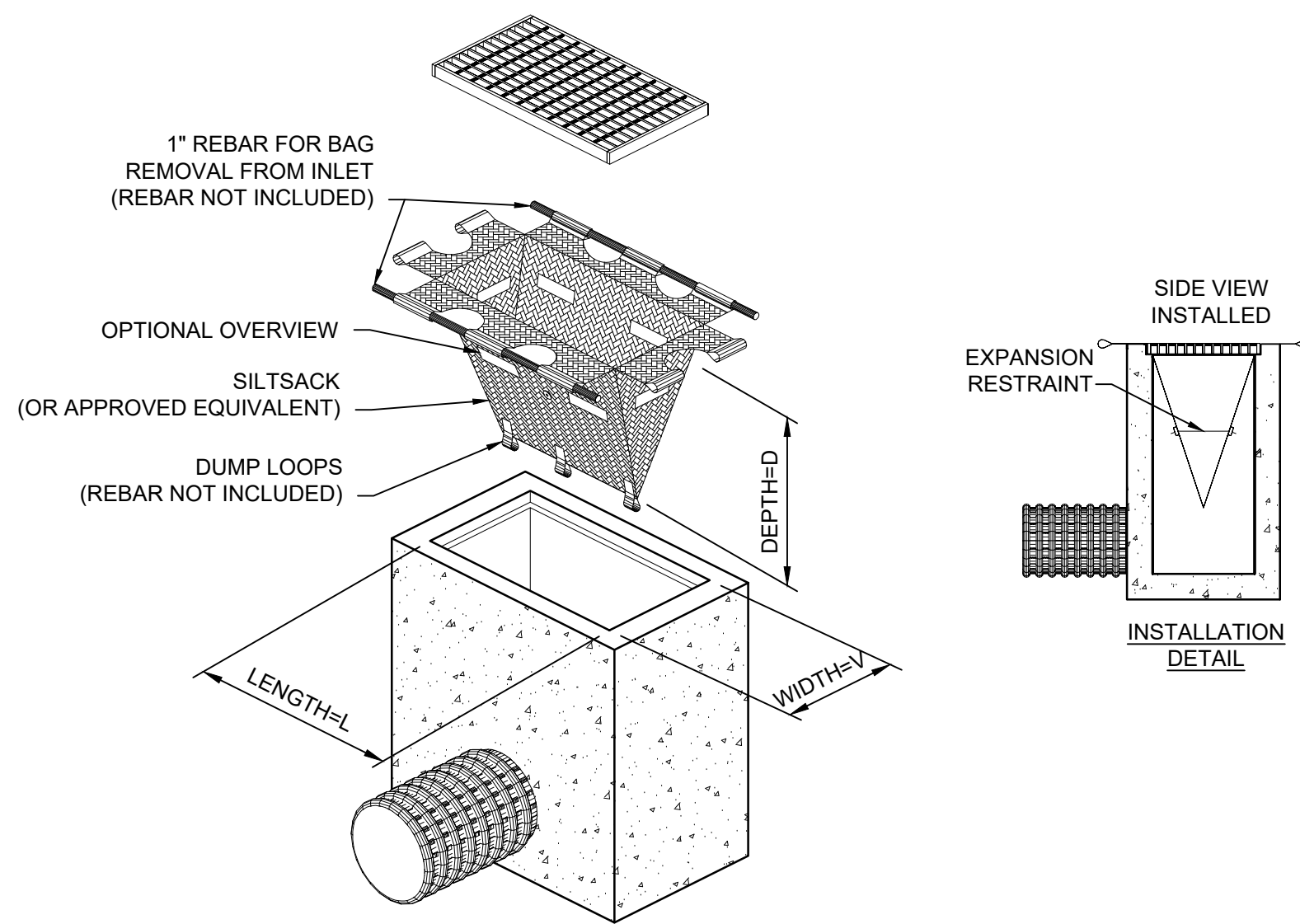


NOTES:

1. COMPOST/ SOIL/ ROCK/ SEED FILL TO MEET APPLICATION REQUIREMENTS.
2. COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER.
3. IF SOCK NETTING MUST BE JOINED, FIT BEGINNING OF NEW SOCK OVER END OF OLD SOCK, OVERLAPPING BY 2 FEET AND STACK OVERLAP. IF SOCK NETTING IS NOT JOINED, OVERLAP OLD SOCK WITH NEW ONE BY MINIMUM OF 2 FEET.

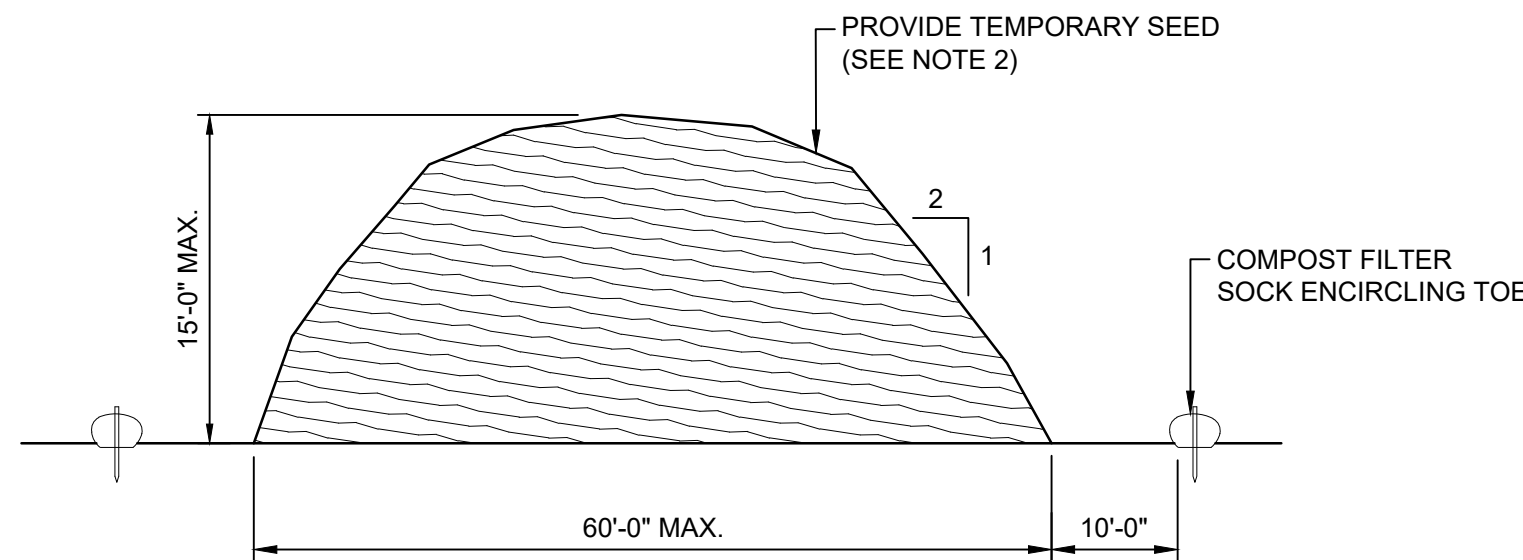
COMPOST FILTER SOCK DETAIL

NOT TO SCALE



TEMPORARY INLET PROTECTION

NOT TO SCALE

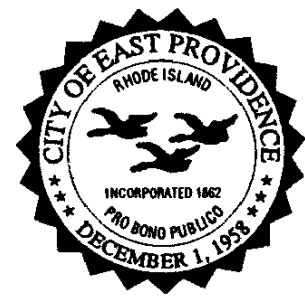


NOTES:

1. STOCKPILE AREA SHALL NOT EXCEED SPECIFIED DIMENSIONS WITHOUT APPROVAL FROM ENGINEER.
2. STOCKPILED ERODIBLE MATERIAL THAT WILL NOT BE USED FOR GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED IMMEDIATELY FOLLOWING PLACEMENT. USE RIDOT STD. M.18.10.5 SEED MIX.

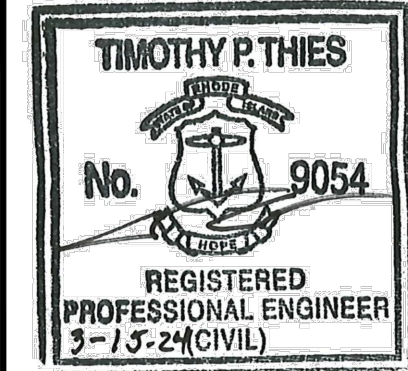
ERODIBLE MATERIAL STOCKPILE

NOT TO SCALE



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

Hull Street Playground
Drainage Improvements
East Providence, Rhode Island



REVISIONS:

NO.	BY	DATE	DESCRIPTION

PROJECT NO.: 24037.00
DATE: MARCH 2024
SCALE:
DESIGNED BY: MAM
CHECKED BY: DLL
DRAWN BY: JLC
APPROVED BY: DLL
DRAWING TITLE:

DETAILS

DRAWING NO.:
C3.0
SHEET NO. 6 OF 6