

**CITY OF WOONSOCKET, RI
FINANCE DEPARTMENT**

INVITATION TO BID #6112

“SOIL EROSION AND SEDIMENT CONTROL FOR CASS PARK”

Specifications are available at the Finance Department, **Office of Purchasing**, City of Woonsocket, 169 Main Street, Woonsocket, Rhode Island 02895 between the hours of 8:30 a.m. and 4:00 p.m., Monday through Friday, and on the City's website, www.woonsocketri.org, under the Bids/RFPs tab positioned on the main page.

Sealed bids will be received by the City of Woonsocket, Division of Purchasing, City Hall, 169 Main Street, 1st Floor, Woonsocket, Rhode Island until **2:00 p.m. (EASTERN) on Tuesday, January 17, 2023** at which time they will be publicly opened and read.

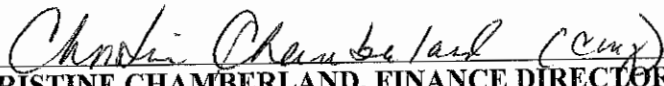
All bids must be submitted with **Duplicate copy** in a sealed envelope plainly marked with **Bid # 6112 SOIL EROSION AND SEDIMENT CONTROL FOR CASS PARK** on its exterior.

This contract is intended to provide for the one-time furnishing and installation of soil erosion and sediment control devices for a construction project in Cass Park for the City of Woonsocket, Rhode Island.

The Finance Department, through its director, reserves the right to accept or reject any or all bids or proposals; to waive any technicality to any bid or part thereof submitted; to accept any bid or option of comparison thereof; to contract in part or in whole; and to accept the bid deemed to be in the best interest of the City of Woonsocket.

No bidder may withdraw its bid within sixty (60) days after the actual time and date of the bid opening thereof.

Questions concerning specifications must be submitted in email to Jon Pratt, City Engineer (jpratt@woonsocketri.org) no later than Wednesday, January 4, 2023 at 12 Noon (EASTERN). Questions received, if any, will be answered in an Addendum to this Solicitation and posted on or before **Friday, January 6, 2023**. For the latest information, Bidders are reminded to monitor the City website: **<https://www.woonsocketri.org/purchasing-department/pages/bids-rfps>**


CHRISTINE CHAMBERLAND, FINANCE DIRECTOR

PUBLISHED: 12/19/22

**CITY OF WOONSOCKET
RHODE ISLAND**

TECHNICAL SPECIFICATIONS

SECTION 1

GENERAL PROVISIONS:

The City of Woonsocket wishes to begin excavation of the site of a proposed new athletic facility within the City owned Cass Park property on Cass Avenue. The purpose of this invitation to bid is to solicit responses from qualified parties interested in providing and installing soil erosion and sediment control measures in conformance with project plans approved by the Rhode Island Department of Environmental Management (RIDEM). The work contemplated in this solicitation consists of the provision and installation of compost filter socks and catch basin inserts.

Wherever in this agreement the word 'Engineer' is used, it shall be and is mutually understood to refer to the City Engineer of the City of Woonsocket, acting either directly or through any assistant having general charge of the work, or through any assistant or inspector having immediate charge of the work, or through any assistant or inspector having immediate charge of a portion thereof, limited by the duties entrusted to them.

Whenever the word 'Contractor' is used herein, it shall be and is mutually understood to refer to the party or parties of the second part to this agreement, or the legal representative of said party or parties.

The prices specified in the proposal shall include the total amount to be paid for the specified quantity of soil erosion and sediment control materials and complete transportation, delivery, offloading, and installation.

The successful bidder must be prepared to begin work on the site within 30 calendar days of a Notice to Proceed.

Work hours will be from 7 am to 4 pm Monday through Friday and 7 am to 12 pm Saturdays. No work will be authorized on Sundays or holidays. Hours may be adjusted by the City during the project period to limit negative impacts on the operation of the adjacent Woonsocket High School. The site shall be completely secure at the end of each workday.

SECTION 2

TECHNICAL:

Any deviations from the original specifications shall be noted by the bidder.

The City of Woonsocket will be responsible for:

- Providing an approved site plan showing the limits of disturbance.
- Providing approved RIDEM permit documents.

- Performing all clearing of brush and cutting of trees.
- Providing inspections and approvals.
- Providing unlimited access to all work areas during all permitted working hours.

Bidder will be responsible for the following items:

- Conforming and complying with all local and state regulations and all requirements of any necessary permits.
- Providing and installing all materials included in the bid for soil erosion and sediment control.
- Providing all labor, equipment, and accessories necessary to perform the work contemplated by this bid.

The contractor shall be responsible for all injury to water pipes, gas pipes, electrical wires, conduits, sewers, storm water drains, and other structures met with in the prosecution of the work, and shall be liable for damages to the public or private property resulting therefrom.

SECTION 3

PLANS FURNISHED:

The approved plans and a copy of these specifications are to be constantly kept at the work by the contractor or his authorized foreman. The contractor will be furnished with a set of drawings showing the details and dimensions necessary to carry out the work. Dimensions given thereon in figures are to have preference over the scale.

No deviation from the approved plans or specification will be allowed, unless authorized in writing.

SECTION 4

LOCATION OF UNDERGROUND STRUCTURES:

The locations provided on furnished plans for existing sewers, water pipes, storm drainage, gas, electric mains and other conduits are intended to be approximate only. The City will not be responsible for any omission, nor for any errors in locations due to incomplete or faulty records. The contractor must obtain a 'Dig Safe' number from Dig Safe System, Inc. at 1-888-344-7233.

SECTION 5

SUB-CONTRACTORS:

No portion of the work shall be sublet to any sub-contractor without first giving the City due notice in writing of such intention. No sub-contractor shall be employed who is unsatisfactory to the City Engineer.

SECTION 6

COMPETENT WORKMEN/LICENSES:

The Contractor shall provide a 'Competent Person', as defined by the US Department of Labor Occupational Safety & Health Administration (OSHA), for the location of the proposed work. The contractor shall employ only competent and efficient laborers and first-mechanics or artisans for every kind of work, and whenever, in the opinion of the City Engineer, any person is unfit to perform their task, or does their work contrary to directions, or conducts themselves improperly, the contractor must discharge that person immediately and not employ that person again on the work.

All equipment operators and workers performing work at the proposed location shall hold the appropriate State of Rhode Island licenses for their responsibilities.

An OSHA ten (10) hour construction safety program is required for all on-site employees.

SECTION 7

SAFETY:

All Federal, State and Local safety regulations shall be followed.

SECTION 8

WORK TO BE LEFT CLEAN:

The work area and the adjacent areas affected by the progress of the work shall be kept clean and all rubbish, surplus materials and unneeded equipment shall be promptly removed. All damage to said areas shall be repaired immediately. All damage and repairs shall be the sole responsibility of the Contractor.

SECTION 9

WARRANTY:

The contractor or his sureties will be held liable for keeping in perfect repair, adjustment and good order, the whole of the work to be constructed under this contract, and for other damages that may occur by reason of the construction.

SECTION 10

INSURANCE REQUIREMENTS:

The successful bidder shall furnish to the City, prior to issuance of the contract, certificates of minimum insurance as listed below. These certificates shall contain a provision that the insurance company will notify the certificate holder, by registered mail, at least fifteen (15) days in advance of any cancellation or material change.

Workman's Compensation	Statutory	
Employers Liability	\$100,000	Each Accident
	\$500,000	Disease-Policy Limit
	\$100,000	Disease-Each Employee

Automobile Liability	\$1,000,000	Combined Single Limit
Commercial General Liability	\$2,000,000	General Aggregate
Aggregate	\$2,000,000	Products & Completed Operations
	\$1,000,000	Personal & Advertising Injury
	\$1,000,000	Each Occurrence
	\$100,000	Fire Damage (Any one fire)
	\$5,000	Medical Expenses (Any one person)

SECTION 11

METHOD OF PAYMENT:

The Contractor shall be paid for all materials satisfactorily installed and approved at the unit price listed in the accepted bid. The Owner and Contractor shall agree on the accepted quantities and the contractor shall submit and itemized invoice on an approved form. The Owner will pay the invoice in full in accordance with the standard terms. No extra payment will be made for any part of the work considered to be included in the bid items.

CITY OF WOONSOCKET
RHODE ISLAND
6112 BID PROPOSAL

The undersigned bidder proposes to furnish all labor, equipment and related incidentals, other related work and overhead items for the "Soil Erosion and Sediment Control for Cass Park" for the City of Woonsocket, Rhode Island, all in strict accordance with the specifications for the unit prices set forth in the Bid Proposal.

Item 1. For Compost Filter Sock, in place, the amount of _____ dollars per foot. (\$ _____/foot)

(Amount in Words)

Total price bid based on estimated quantity: _____ dollars. (\$ _____)

Estimated quantity = 1,970 Feet

Item 2. For Catch Basin Inserts, in place, the amount of _____ dollars each. (\$ _____/each)

(Amount in Words)

Total price bid based on estimated quantity: _____ dollars. (\$ _____)

Estimated quantity = 2 Each

Total of all items: _____

The undersigned bidder declares that this proposal is made without connection with any other person(s) making proposals for the same work and is in all respects fair and without collusion or fraud; and that, except in the normal discharge of his/her duties, no person acting for or employed by the City of Woonsocket is directly or indirectly interested therein, or in the work to which it relates or in any of the profits thereof and that the Specifications and Contract Agreement have been carefully examined.

PROPOSAL SUBMITTED BY:

COMPANY NAME: _____

STREET & NUMBER: _____

MAILING ADDRESS: _____

(If different from above)

CITY & STATE: _____

BY (PERSON): _____

SIGNATURE: _____

TELEPHONE NUMBER: _____

EMAIL ADDRESS: _____

Cass Park Athletic Complex - Phase I

AP 40A, Lots 7-4 & 8-48
0 Cass Ave
Woonsocket, Rhode Island

OWNER/APPLICANT:
CITY OF WOONSOCKET
169 MAIN STREET
WOONSOCKET, RI 02895
STEVEN D'AGOSTINO
401-597-0857

CIVIL ENGINEER:
 PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100



Scale : N.T.S.

INDEX OF DRAWINGS		
SHEET No.	DRAWING No.	DESCRIPTION
1	-	COVER SHEET
2	C1.1	NOTES AND LEGEND
3	C2.1	DEMOLITION, EROSION & SEDIMENT CONTROL PLAN
4	C3.1	GENERAL, GRADING & DRAINAGE PLAN
5	C4.1	DETAILS

100% CONSTRUCTION DRAWINGS
NOVEMBER 23, 2021

1. PROJECT LOCATION: CASS PARK, 0 CASS AVE, WOONSOCKET, RHODE ISLAND 02895.
ASSESSORS MAP 40A, LOTS 7-4 & 8-48.
2. EXISTING CONDITIONS MAPPING TAKEN FROM PLAN ENTITLED "EXISTING CONDITIONS" PREPARED BY NATIONAL LAND SURVEYORS-DEVELOPERS, INC., DATED JULY 2007.
3. EXISTING CONDITIONS COMPILED FROM CASS PARK IMPROVEMENT AUTOCAD FILE PROVIDED BY OWNER AND SITE OBSERVATIONS PERFORMED BY PARE CORPORATION ON MARCH 3, 2021.
4. WETLAND FLAGS IDENTIFYING WETLAND RESOURCE AREAS WERE PLACED BY PARE CORPORATION ON FEBRUARY 26, 2021 AND LOCATED BY PARE CORPORATION USING A TRIMBLE PROXH GPS UNIT WITH SUBMETER ACCURACY.

1. PER AVAILABLE RIDEN MAPPING, THERE ARE NO NATURAL HERITAGE AREAS WITHIN THE PROJECT LOD.
2. THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED MARCH 2018 WITH ALL REVISIONS AND ADDENDA, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. ALL WORK SHALL MEET OR EXCEED THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, WITH LATEST REVISIONS. THE LATEST REVISION OF THE STANDARD SPECIFICATIONS MAY BE OBTAINED AT THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
3. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE ENGINEER AND OWNER'S REPRESENTATIVE AS REQUIRED.
4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AND/OR BARRIERS AROUND ALL OPEN EXCAVATED AREAS IN ACCORDANCE WITH OSHA FEDERAL, STATE, AND LOCAL REQUIREMENTS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER PRIOR TO INSTALLATION OF ANY PORTION OF THE WORK WHICH WOULD BE AFFECTED. NO FIELD ADJUSTMENTS IN THE LOCATION OF SITE ELEMENTS SHALL BE MADE WITHOUT THE ENGINEER'S APPROVAL.
6. IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED, THE CONTRACTOR SHALL IMMEDIATELY CONTACT AND COORDINATE ANY DEVIATIONS WITH THE ENGINEER AND OWNER.
7. ANY AREA OUTSIDE OF THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
8. ALL SITE WORK SHALL MEET OR EXCEED THE SITE WORK SPECIFICATIONS PREPARED FOR THIS PROJECT.
9. ALL SIGNS SHALL BE REFLECTORIZED TYPE III SHEETING AND CONFORM WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST REVISION.
10. ALL UTILITIES (LOCATION AND ELEVATION) DEPICTED SHALL BE CONSIDERED APPROXIMATE ONLY. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT "DIG SAFE" AT 1-888-344-7233) TO ACCURATELY LOCATE UNDERGROUND UTILITIES, ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES AND THE COST TO REPAIR THE DAMAGES TO INITIAL CONDITIONS, AS DEPICTED ON THE PLANS, SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
11. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED IN ADVANCE. NOTE THAT NOT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL RESPECTIVE UTILITY COMPANIES TO VERIFY AND LOCATE EXISTING UTILITIES.

1. ALL LINES ARE PERPENDICULAR OR PARALLEL TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
2. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL PERFORM BENCHMARK FIELD LEVEL VERIFICATION AND COORDINATE LAYOUT CHECK. THE CONTRACTOR SHALL CONTACT PARE CORPORATION IF ANY DISCREPANCIES ARE FOUND.

1. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION OF STRUCTURES, PAVEMENT AND CONCRETE MATERIALS, AND UTILITIES WITH APPROPRIATE PROPOSED SITE GENERAL, GRADING, UTILITY, AND LANDSCAPING DRAWINGS.
2. ALL NOTED UTILITIES TO BE REMOVED AND DISPOSED OF, RELOCATED OR CAPPED REPRESENT ALL KNOWN SITE CONDITIONS TO BE DEMOLISHED. THE CONTRACTOR SHALL COORDINATE ALL UNFORESEEN CONDITIONS WITH THE PROJECT ENGINEER, OWNER AND/OR RESPECTIVE UTILITY COMPANIES PRIOR TO PROCEEDING WITH WORK.
3. WATER, SEWER, DRINKAGE, GAS, AND OTHER SITE UTILITIES SERVICING THE EXISTING FACILITIES ARE TO REMAIN ACTIVE THROUGHOUT CONSTRUCTION. THERE SHALL BE NO INTERRUPTION OF UTILITY SERVICES DURING THE CONSTRUCTION OPERATION WITHOUT APPROVAL FROM THE OWNER.

1. UNDERGROUND UTILITIES DEPICTED WERE COMPILED FROM AVAILABLE RECORD PLANS AND SHALL BE CONSIDERED APPROXIMATE ONLY. BEFORE COMMENCING SITE WORK IN ANY AREA, CONTACT DIG SAFE AT 1-888-DIG-SAFE (1-888-344-7233) TO ACCURATELY LOCATE UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES DEPICTED OR NOT DEPICTED ON THE PLANS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COSTS TO REPAIR SUCH DAMAGES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED.
2. ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES AND GRADES ON THE PLANS AND SITE WORK SPECIFICATIONS.
3. 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.
4. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION OF PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED.
5. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION SHALL BE PROVIDED ON A SKETCH TO SCALE OF THE EXISTING UTILITY WITH TIES TO KNOWN POINTS, PHOTOS AND FURNISHED TO THE ENGINEER FOR RESOLUTION.
6. THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS SHALL BE RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. GAS, ELECTRIC, AND COMMUNICATIONS ROUTINGS ARE SUBJECT TO REVIEW AND APPROVAL BY APPROPRIATE UTILITY COMPANIES.
8. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES BY PROVIDING TEMPORARY SUPPORTS OR SHEETING AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
9. EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO THE OWNER.
10. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MIN. OF 1/8" PER FOOT UNLESS SPECIFIED OTHERWISE.

1. THE CONTRACTOR AND RELEVANT SUBCONTRACTORS SHALL READ AND UNDERSTAND THE RIDGES GENERAL PERMIT FOR STORMWATER DISCHARGES AND THE RIDGES PERMIT FOR EROSION CONTROL. THE CONTRACTOR SHALL PREPARE A EROSION CONTROL PLAN (ESCP) PREPARED FOR THE PROJECT. ALL EROSION CONTROLS SHALL BE IN ACCORDANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK. LATEST REVISION.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE CONDITIONS ISSUED FOR THE PROJECT BY RIDEM AND BE RESPONSIBLE FOR CONFORMANCE WITH ALL PERMIT REQUIREMENTS AND CONSTRUCTION DOCUMENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING OR INSTALLING ALL TEMPORARY SEDIMENT AND EROSION CONTROLS AS SHOWN ON THESE PLANS AND SHALL MAINTAIN ALL EROSION CONTROL MEASURES AS NECESSARY DURING THE ENTIRE CONSTRUCTION PERIOD.
4. ANTI-TRACKING PADS (R/L STD. DETAIL 9.9.0) SHALL BE PROVIDED AT ALL POINTS OF VEHICULAR INGRESS AND EGRESS ON THE CONSTRUCTION SITE AND SHALL BE MAINTAINED TO LIMIT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS.
5. EROSION CONTROL BARRIERS SHALL BE INSTALLED AS SHOWN ON THE EROSION CONTROL PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS.
6. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A WEEKLY BASIS AND AFTER EACH STORM EVENT OF ONE INCH OR GREATER DURING CONSTRUCTION TO ENSURE THAT CHANNELS, DITCHES AND PIPES ARE CLEAR OF DEBRIS AND THAT THE EROSION CONTROL BARRIERS ARE INTACT. IDENTIFIED DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY.
7. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
8. THE CONTRACTOR SHALL CLEAN AND MAINTAIN EROSION CONTROL BARRIER WHEN SEDIMENT ACCUMULATES TO ONE HALF THE HEIGHT OF THE BARRIER. MATERIAL COLLECTED FROM THE SEDIMENTATION BARRIERS SHALL BE REMOVED AS NECESSARY AND DISPOSED IN AN UPLAND AREA.
9. THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUBGRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PONDING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO APPLICATION OF SURFACE PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE, AS REQUIRED, TO STABILIZED DISCHARGE POINTS.
10. INSTALLATION OF THE EROSION CONTROL BARRIERS AS ILLUSTRATED IS INTENDED TO REPRESENT THE MINIMUM SEDIMENTATION CONTROL FACILITIES NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
11. REQUIRED SEDIMENTATION CONTROL FACILITIES MUST BE PROPERLY ESTABLISHED, CLEARLY VISIBLE AND IN OPERATION PRIOR TO INITIATING ANY LAND CLEARING ACTIVITY AND/OR OTHER CONSTRUCTION RELATED WORK. SUCH FACILITIES SHALL REPRESENT THE LIMIT OF WORK. WORKERS SHALL BE INFORMED THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR BEYOND THE LIMIT OF WORK AT ANY TIME THROUGHOUT THE CONSTRUCTION PERIOD.
12. THE CONTRACTOR SHALL MAINTAIN A SUFFICIENT RESERVE OF VARIOUS EROSION CONTROL MATERIALS AVAILABLE AT ALL TIMES FOR EMERGENCY PURPOSES OR ROUTINE MAINTENANCE.
13. EXISTING AND NEWLY INSTALLED CATCH BASINS AND STORM DRAIN INLETS SHALL BE PROTECTED WITH APPROPRIATE TEMPORARY INLET PROTECTION IN ACCORDANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.
14. THE CONTRACTOR SHALL NOT REMOVE ANY TEMPORARY SEDIMENT CONTROL BARRIERS UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.
15. CONSTRUCTION SITE WASTE MATERIALS SHALL BE MAINTAINED ONSITE AND DISPOSED OFF SITE AT A LOCATION IN ACCORDANCE WITH THE LOCAL AND STATE REGULATIONS.
16. RIP-RAP OR OTHER EROSION DISSIPATORS SHALL BE USED WHERE NECESSARY TO PREVENT SCOUR.
17. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS UPON COMPLETION OF WORK IN THAT AREA.
18. ALL DRAINAGE STRUCTURES SHALL BE CLEARED OF ACCUMULATED SEDIMENT PRIOR TO ACCEPTANCE OF FINAL PROJECT.
19. NEWLY VEGETATED AREAS SHALL BE MAINTAINED REGULARLY TO ENSURE STABLE VEGETATED SURFACES.
20. EROSION AND SEDIMENTATION CONTROLS SHALL BE UTILIZED AS SHOWN ON THE PLANS. POTENTIAL EROSION AND SEDIMENTATION PROBLEMS ASSOCIATED WITH THE CONSTRUCTION OF THE PROJECT SHALL BE AVOIDED THROUGH THE PROJECT SCHEDULING AND THE USE OF APPROPRIATE STANDARD CONTROLS (RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK) AS ILLUSTRATED ON THE PROJECT PLANS.
21. WHERE EROSION CONTROLS ARE NEEDED ON IMPERVIOUS SURFACES, THE CONTRACTOR SHALL PROVIDE SAND BAG EROSION CONTROL BARRIER.
22. TEMPORARY DIVERSION (TD) MAY CONSIST OF A DITCH OR SWALE, OR MAY BE ACHIEVED USING WOOD CHIPS, COIR LOGS, OR SIMILAR MATERIALS.
23. TEMPORARY SEDIMENT TRAPS (TST) AND TEMPORARY SWALES (TSW) SHALL BE SIZED BY THE CONTRACTOR USING THE PARAMETERS CONTAINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.

EXISTING

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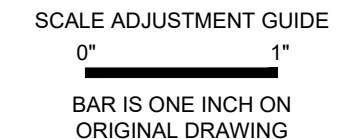
ATG	= ADJUST TO GRADE
CFS	= COMPOST FILTER SOCK (SEE DETAIL)
CG	= CLEAR AND GRUB VEGETATION
CM	= SAWCUT AND MATCH
DF	= REMOVE AND DISPOSE FENCE
DFP	= REMOVE AND DISPOSE FLEXIBLE PAVMENT
ETR	= EXISTING TO REMAIN. PROTECT DURING CONSTRUCTION
LS	= LOAM AND SEED (SEE DETAIL)
RLS	= RIPRAP LEVEL SPREADER (SEE DETAIL)
RRS	= RIPRAP SLOPE (SEE DETAIL)
RS	= RIPRAP SPILLWAY (SEE DETAIL)
R&D	= REMOVE AND DISPOSE
TP	= TEMPORARY INLET PROTECTION
TRM	= TURF REINFORCEMENT MAT
TST	= TEMPORARY SEDIMENT TRAP

PROPERTY LINE	
CONTOUR	
NOT ELEVATION	
DRAINAGE LINE	
ELECTRIC	
OF DISTURBANCE	
CATCH BASIN	
HYDRANT	
INAGE MANHOLE	
UTILITY POLE	
TREE LINE	
RAIN LINK FENCE	
EDGE OF PAVEMENT	
SAWCUT LINE	
POST FILTER SOCK	
ETLAND EDGE	
RIMETER WETLAND	
00' RIVERBANK	
MADE TO DRAIN	

9.7.0 = DEWATERING BASIN - R.I. STD. 9.7.0

9.9.0 = CONSTRUCTION ACCESS - R.I. STD. 9.9.0

AD = AMERICANS WITH DISABILITIES ACT
 ASSF = AREA SUBJECT TO STORM FLOWAGE
 BM = BENCHMARK
 BMP = BEST MANAGEMENT PRACTICE
 BT = BITUMINOUS
 BOT. = BOTTOM
 BC = BOTTOM OF CURB (FINISHED GRADE ON LOW SIDE OF CURB)
 BS = BOTTOM OF STAIR (FINISHED GRADE AT BOTTOM OF STAIR)
 BW = BOTTOM OF WALL (FINISHED GRADE ON LOW SIDE OF WALL)
 CB = CAST IRON
 C1 = CAST BASIN, 4" DIA. UNLESS OTHERWISE NOTED
 CLD = CEMENT-LINED DUCTILE IRON
 CL = CLASS
 CLSM = CONTROLLED LOW STRENGTH MATERIAL
 CO = CLEANOUT
 CONC. = CONCRETE
 CC = CONCRETE CURB, VERTICAL
 DEMO = DEMOLITION
 DIA = DIAMETER
 DIV = DIVERSION
 DYL = DOUBLE YELLOW LINE
 DMH = DRAIN MANHOLE
 EOP = EDGE OF PAVEMENT
 EL = ELEVATION
 EX, EXIST = EXISTING
 EXCEB = EXISTING CATCH BASIN
 EXDMH = EXISTING DRAIN MANHOLE
 FFE = FINISH FLOOR ELEVATION
 FT = FOOT
 FND = FOUND
 GTD = GRADE TO DRAIN
 GRAN. = GRANITE
 HDPE = HIGH DENSITY POLYETHYLENE PIPE
 HMA = HOT MIX ASPHALT
 HYD = HYDRANT
 I.D. = INNER DIAMETER
 INV. = INVERT
 LOD = LIMIT OF DISTURBANCE
 LP = LOW POINT
 MUTCD = MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION
 MAX. = MAXIMUM
 MIN. = MINIMUM
 MON. = MONITORING
 N.T.S. = NOT TO SCALE
 OSHA = OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 OWS = OIL WATER SEPARATOR
 OCS = OUTLET CONTROL STRUCTURE
 PERF. = PERFORATED
 PE = POLYETHYLENE
 PVC = POLYVINYL CHLORIDE
 R-X = RADIUS (IN FEET)
 RCP = REINFORCED CONCRETE PIPE
 RIDEM = RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 RIDOT = RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 RHP = RHODE ISLAND HIGHWAY PLAT
 RIDPES = RHODE ISLAND POLLUTION DISCHARGE ELIMINATION SYSTEM
 R.I. STD. = RHODE ISLAND STANDARD
 SHM = SEWER MANHOLE
 SWL = SINGLE SOLID WHITE LINE
 SESC = SOIL EROSION AND SEDIMENT CONTROL
 STD. = STANDARD DIMENSIONAL RATIO
 TD = TEMPORARY DIVERSION
 TST = TEMPORARY SEDIMENT TRAP
 TSW = TEMPORARY SWALE
 TP = TEST PIT
 TC = TOP OF CURB
 TS = TOP OF STAIR (FINISHED GRADE OF TOP STAIR)
 TW = TOP OF WALL
 TYP. = TYPICAL
 UT = UTILITY POLE
 VCG = VERTICAL GRANITE CURB
 VC = VITRIFIED CLAY
 WPM = WATER PAINT MARK
 W. = WITH
 YD = YARD DRAIN



Cass Park Athletic Complex - Phase I

Woonsocket, Rhode Island

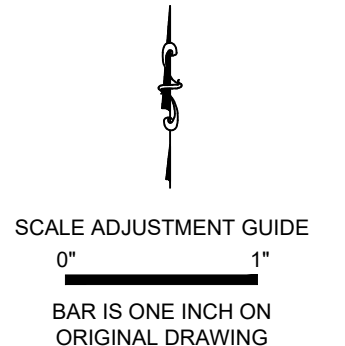
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PROJECT NO.:	21015.00
DATE:	NOVEMBER 23, 2021
SCALE:	NOT TO SCALE
DESIGNED BY:	AB
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	JLW
DRAWING TITLE:	

NOTES AND LEGEND

DRAWING NO.:
C1.1

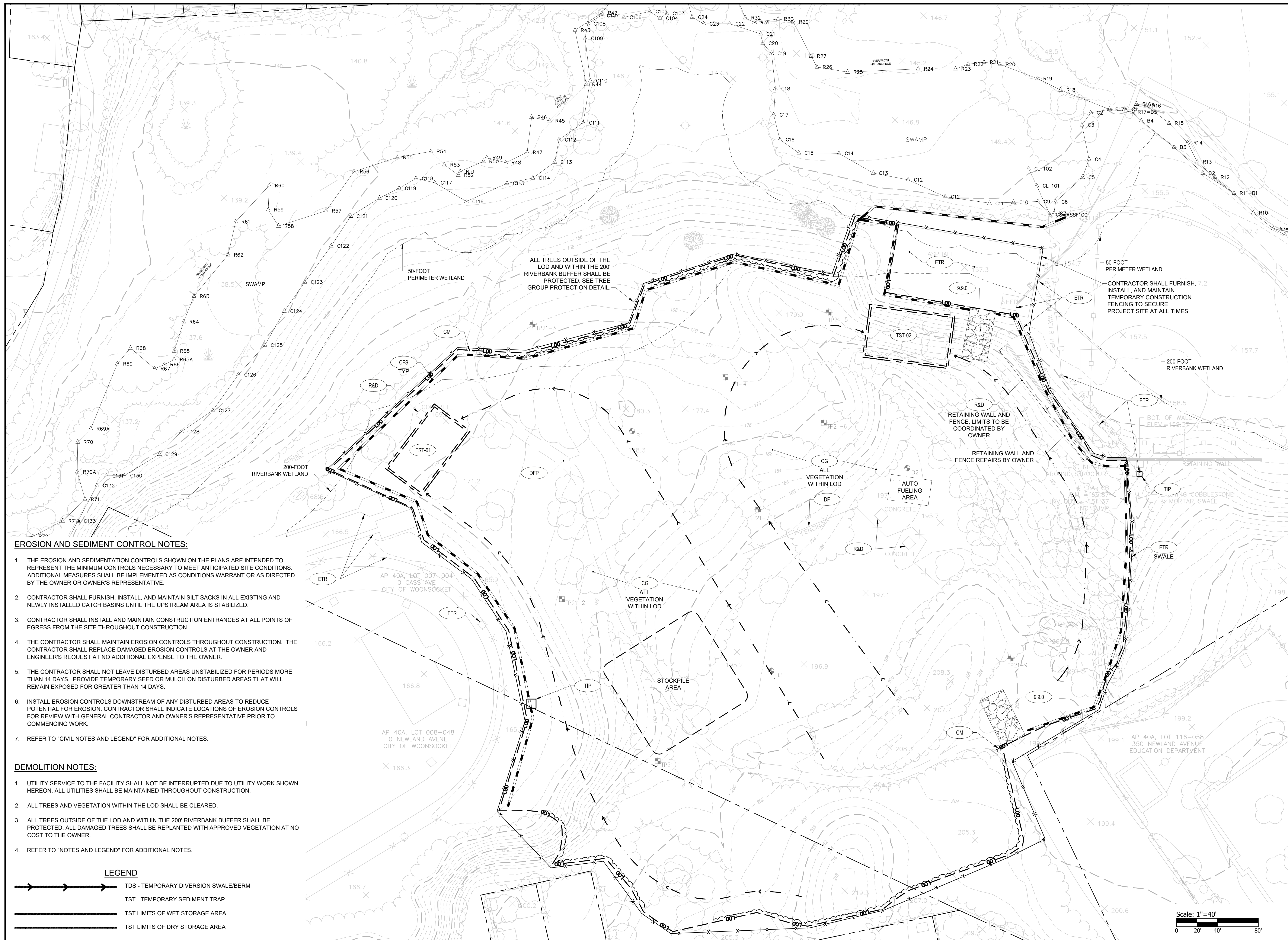
SHEET NO. 2 OF 5



Cass Park Athletic Complex - Phase I

Woonsocket Rhode Island

REVISIONS:		
PROJECT NO.:	21015.00	
DATE:	NOVEMBER 23, 2021	
SCALE:	1"=40'	
DESIGNED BY:	AB	
CHECKED BY:	DLP	
DRAWN BY:	AKL	
APPROVED BY:	JLW	
DRAWING TITLE:		
DEMOLITION, EROSION & SEDIMENT CONTROL PLAN		
DRAWING NO.:		
C2.1		
SHEET NO. 3 OF 5		





SCALE ADJUSTMENT GUIDE

0" 1"

BAR IS ONE INCH ON ORIGINAL DRAWING

Cass Park Athletic Complex - Phase I

Woonsocket, Rhode Island

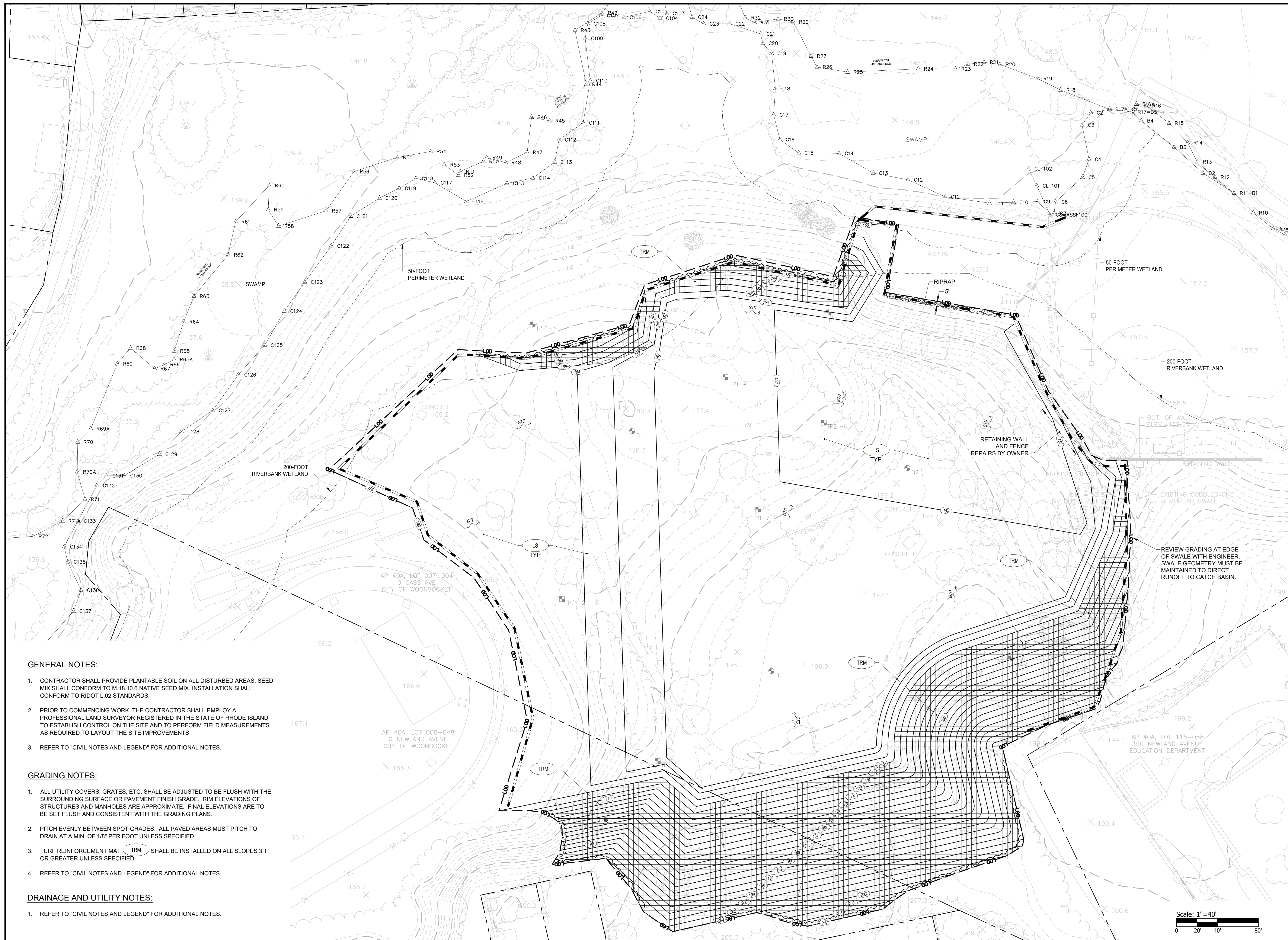
REVISIONS:

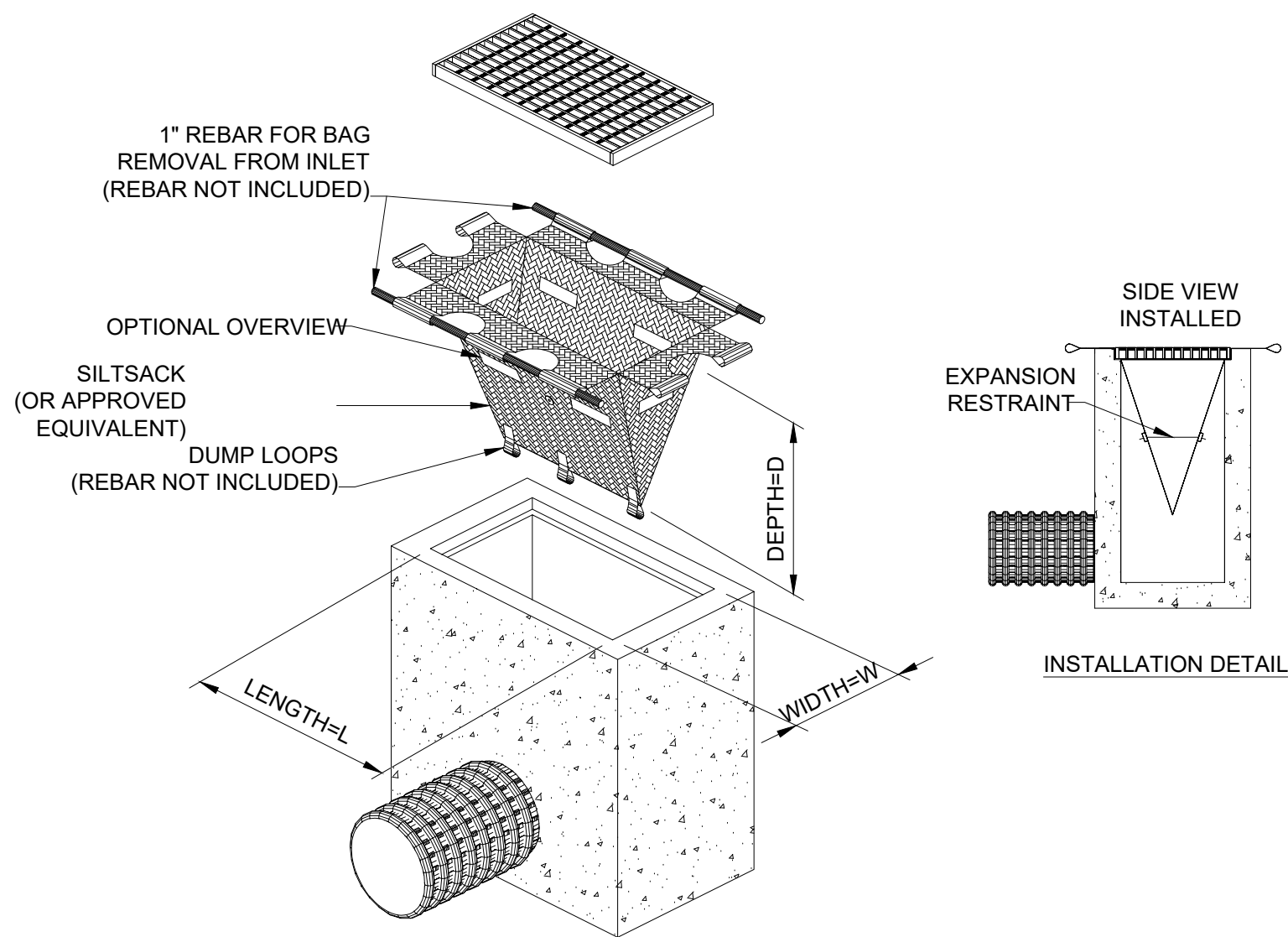
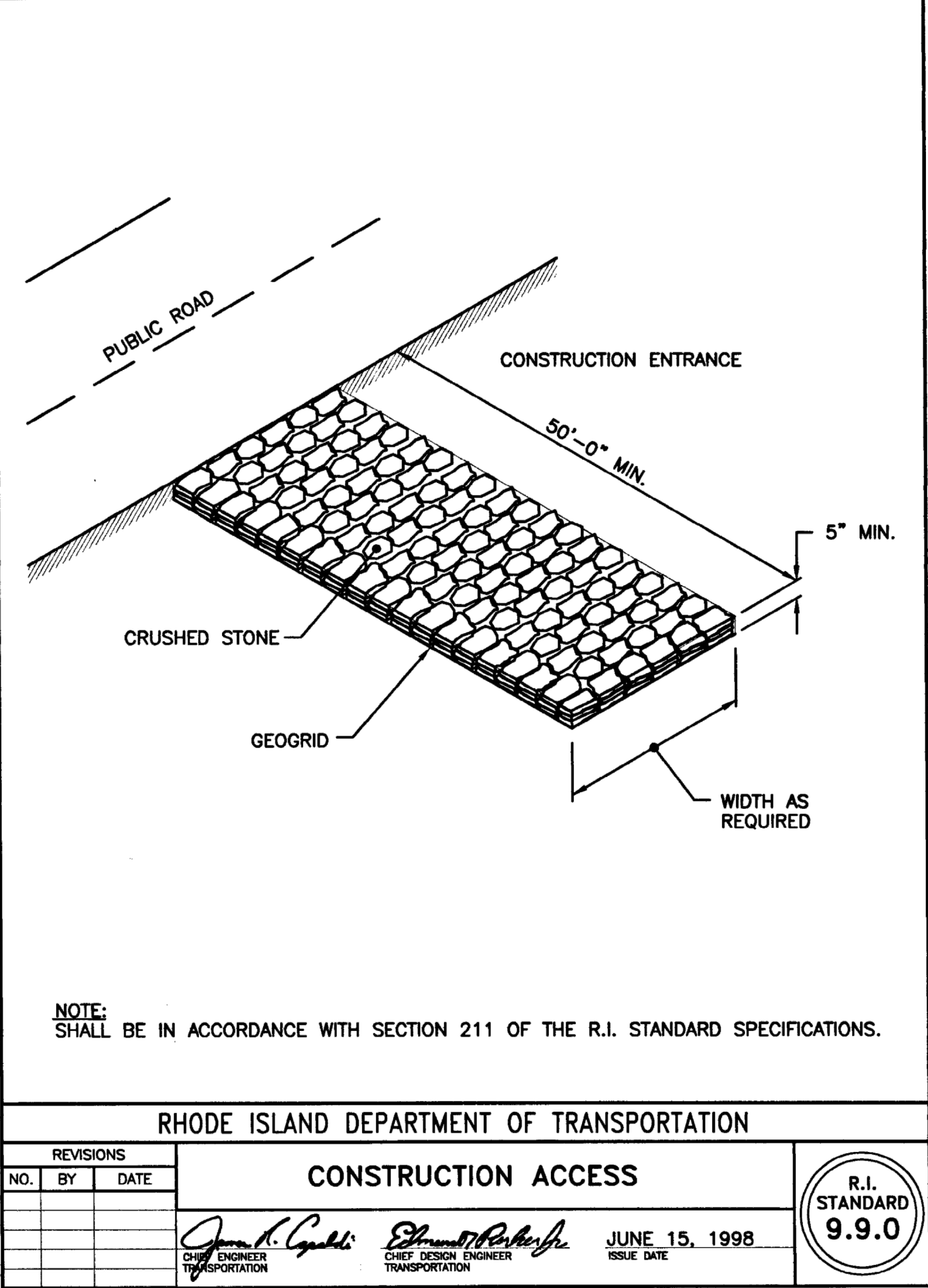
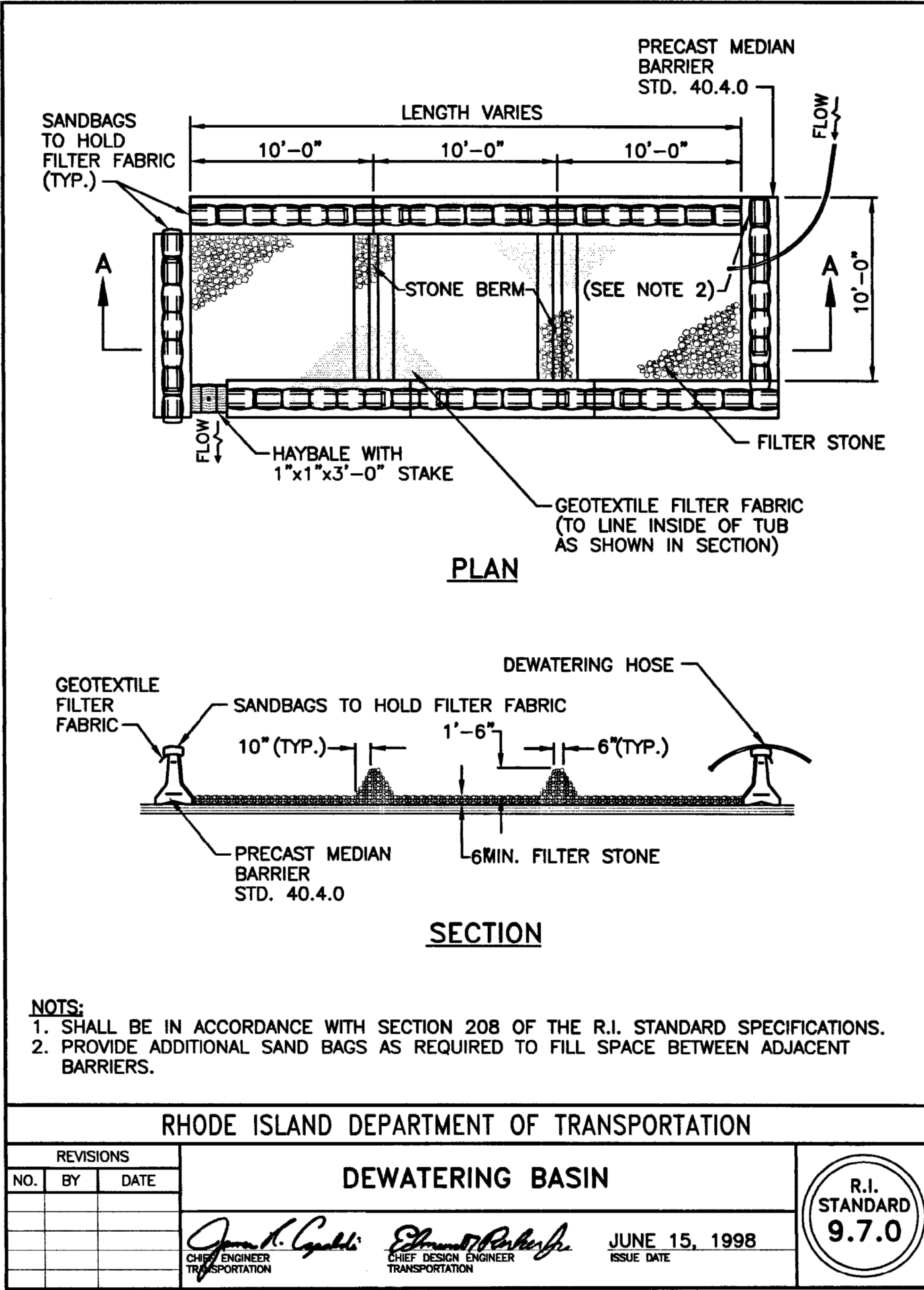
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PROJECT NO.:	21015.00
DATE:	NOVEMBER 23, 2021
SCALE:	1"=40'
DESIGNED BY:	AB
CHECKED BY:	DLP
DRAWN BY:	AKL
APPROVED BY:	JLW
DRAWING TITLE:	

GENERAL, GRADING & DRAINAGE PLAN

DRAWING NO.:
C3.1



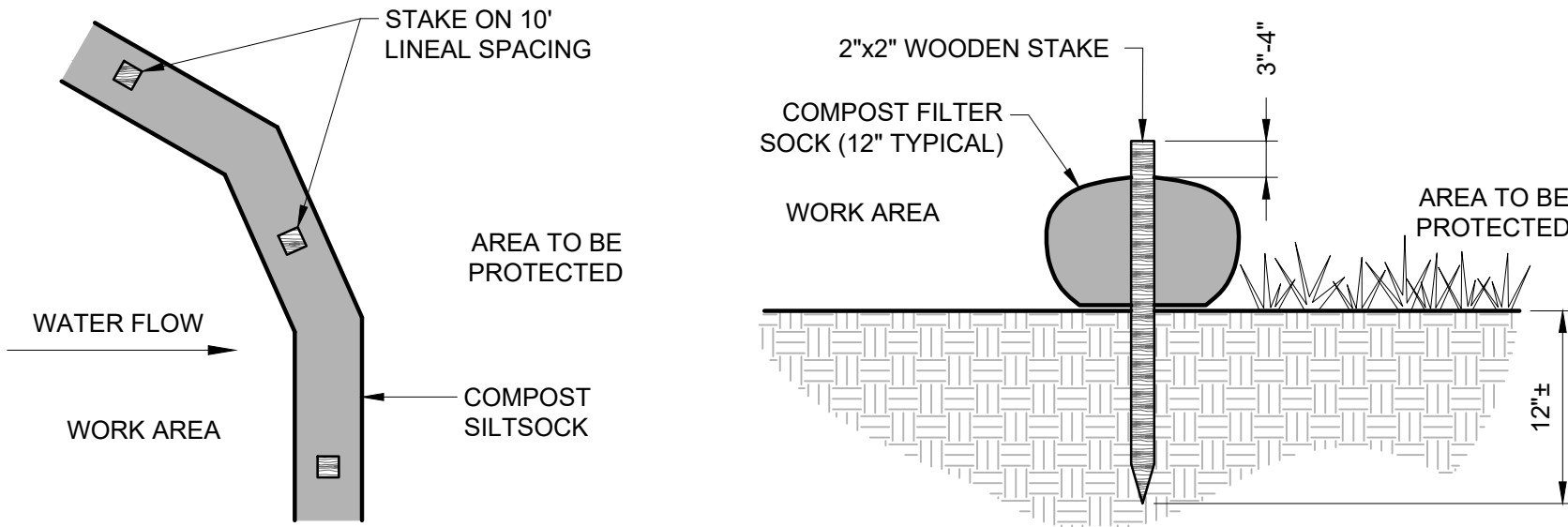


- NOTES:
1. INLET PROTECTION SHALL BE CLEANED OF SILT AND DEBRIS ON A REGULAR BASIS AS REQUIRED BY PROJECT SPECIFIC SESC.
2. INSPECTIONS SHALL BE DONE AFTER EACH RAIN EVENT AND AT A MINIMUM EVERY TWO WEEKS AND AS REQUIRED BY PROJECT SPECIFIC SESC.

TIP

TEMPORARY INLET PROTECTION

NOT TO SCALE

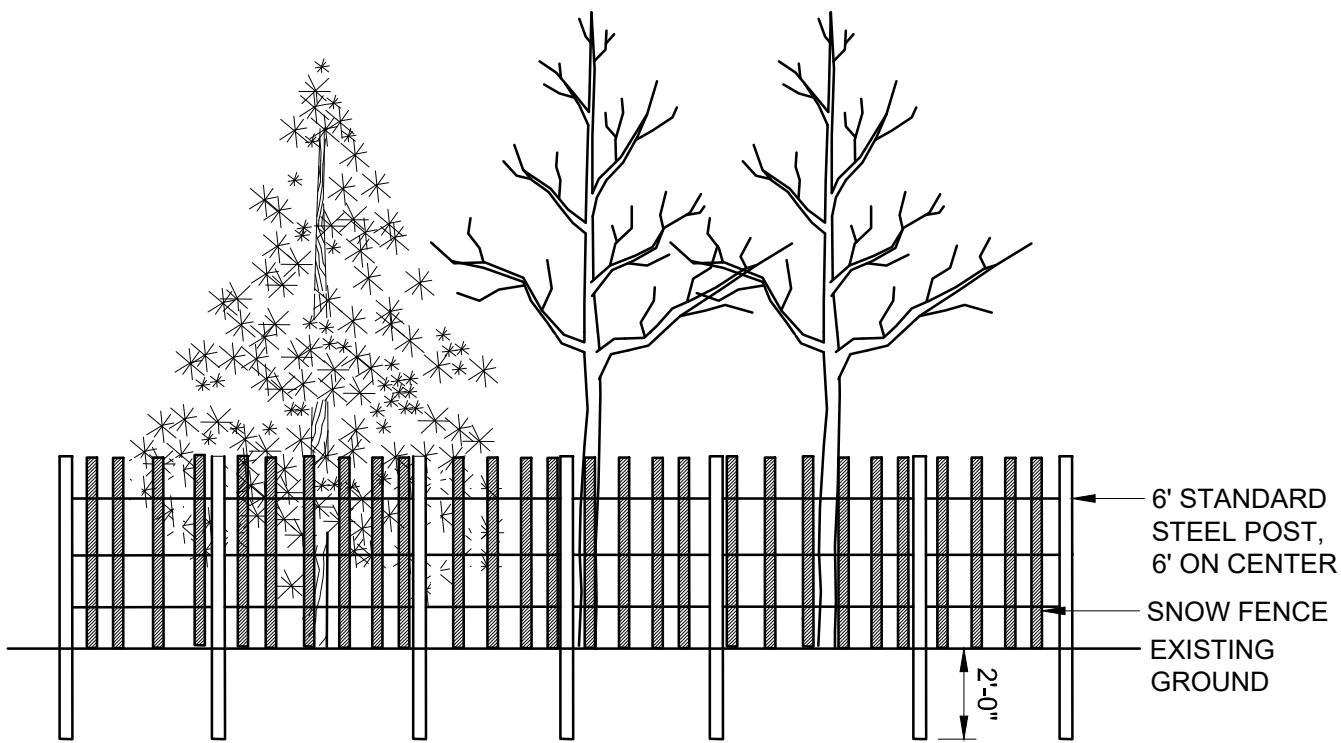


- NOTES:
1. COMPOST/ SOIL/ ROCK/ SEED FILL TO MEET APPLICATION REQUIREMENTS.
2. COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER.
3. IF SOCK NETTING MUST BE JOINED, FIT BEGINNING OF NEW SOCK OVER END OF OLD SOCK, OVERLAPPING BY 2 FEET AND STACK OVERLAP. IF SOCK NETTING IS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

CFS

COMPOST FILTER SOCK DETAIL

NOT TO SCALE

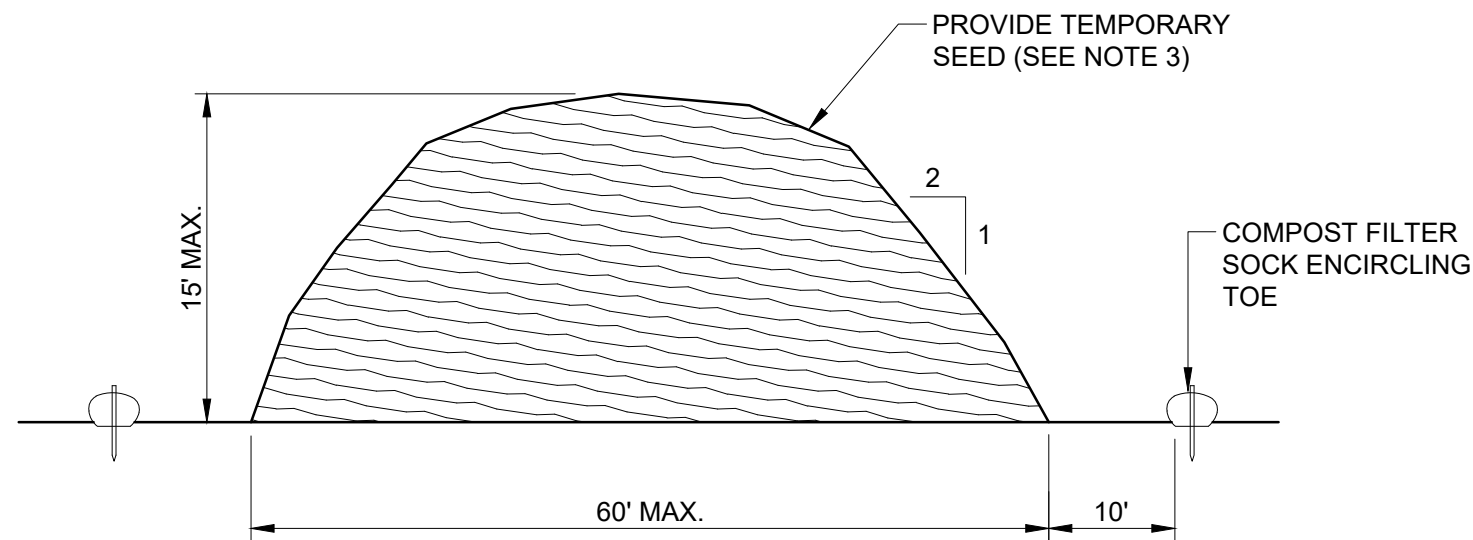


- NOTES:
1. TREE GROUP PROTECTION SHALL BE INSTALLED AT THE DRIP LINE OF THE TREES TO BE PROTECTED.

TGP

TREE GROUP PROTECTION DETAIL

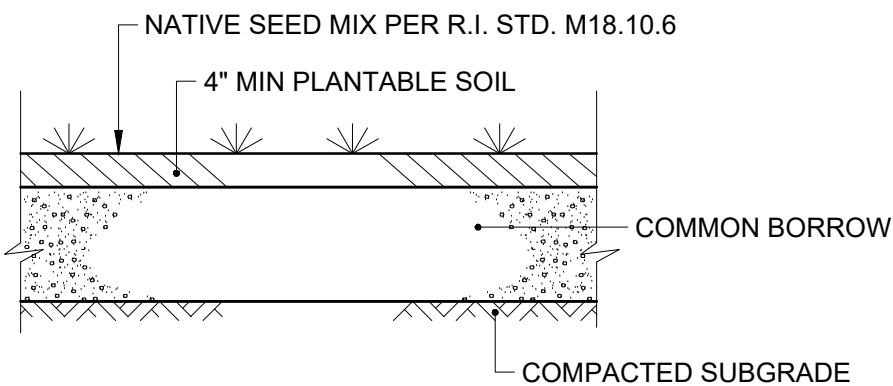
NOT TO SCALE



- NOTES:
1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PREPARE A PLAN SHOWING THE PROPOSED LOCATION OF ALL STOCKPILE AREAS.
2. STOCKPILE AREA SHALL NOT EXCEED SPECIFIED DIMENSIONS WITHOUT APPROVAL FROM ENGINEER.
3. STOCKPILED ERODIBLE MATERIAL THAT WILL NOT BE USED FOR GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED IMMEDIATELY FOLLOWING PLACEMENT.

ERODIBLE MATERIAL STOCKPILE

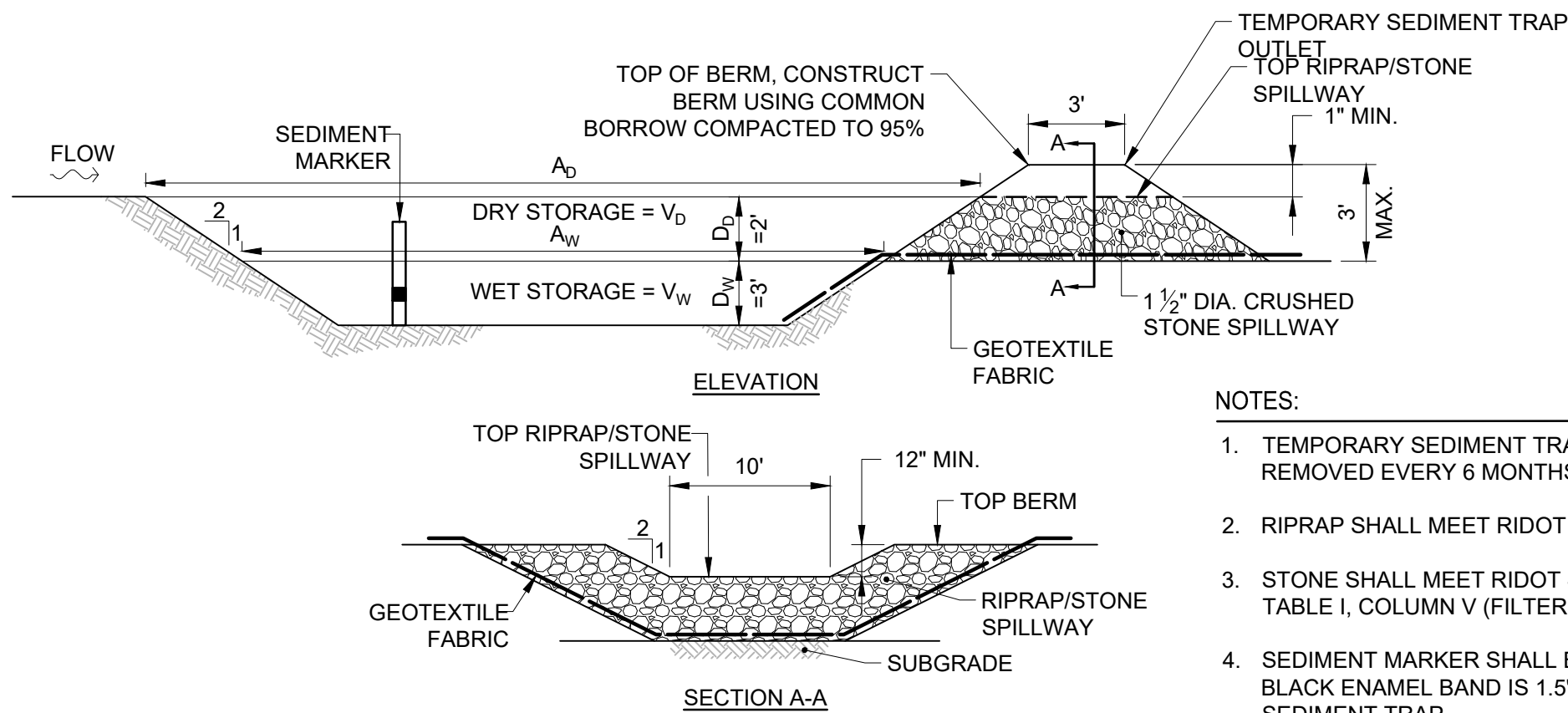
NOT TO SCALE



LS

LOAM & SEED DETAIL

NOT TO SCALE



- NOTES:
1. TEMPORARY SEDIMENT TRAPS SHALL BE CLEANED OR REMOVED EVERY 6 MONTHS.
2. RIPRAP SHALL MEET RIDOT STANDARD SPECIFICATION M.10.03.2.
3. STONE SHALL MEET RIDOT STANDARD SPECIFICATION M.01.09 TABLE I, COLUMN V (FILTER STONE).
4. SEDIMENT MARKER SHALL BE INSTALLED SUCH THAT TOP OF BLACK ENAMEL BAND IS 1.5' FROM THE BOTTOM OF THE SEDIMENT TRAP.

	L_w (FT)	W_w (FT)	A_w (SF)	V_w (CF)	V_D (CF)	TOTAL STORAGE $V_w + V_D$ (CF)
TST-01	75	40	3,000	7,650	6,984	14,634
TST-02	80	48	3,840	9,792	8,768	18,560

TST

TEMPORARY SEDIMENT TRAP DETAIL

NOT TO SCALE

REVISIONS:

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DESIGNED BY: AB
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DRAWN BY: AKL
APPROVED BY: JLW
DRAWING TITLE:

DETAILS

DRAWING NO.:

C4.1

SHEET NO. 5 OF 5