

2023-06-125

The Westminster Building, 10 Dorrance St, Ste 840 Providence, RI 02903 401.383.2276 | wright-pierce.com

September 28, 2023



Richard Lucia, P.E. Stedman Government Center Suite 116, 4808 Tower Hill Road Wakefield, RI 02879

SUBJECT: Supplemental Calculations for 0 Booth Avenue (CRMC File No. 2020-09 039)

Dear Rich,

In response to your email dated August 4th 2023 and subsequent correspondence, concerning the 0 Booth Avenue project located in East Providence, Rhode Island.

Please find included supplemental calculations demonstrating the stability of the MSE slope and concrete block habitat,

Two (2) full sized plan sets $(24'' \times 36'')$ with additional details demonstrating the design and installation of the MSE slope and concrete block habitat, and

One (1) set of 8.5"x11" plans for public notice.

Sincerely,

WRIGHT-PIERCE

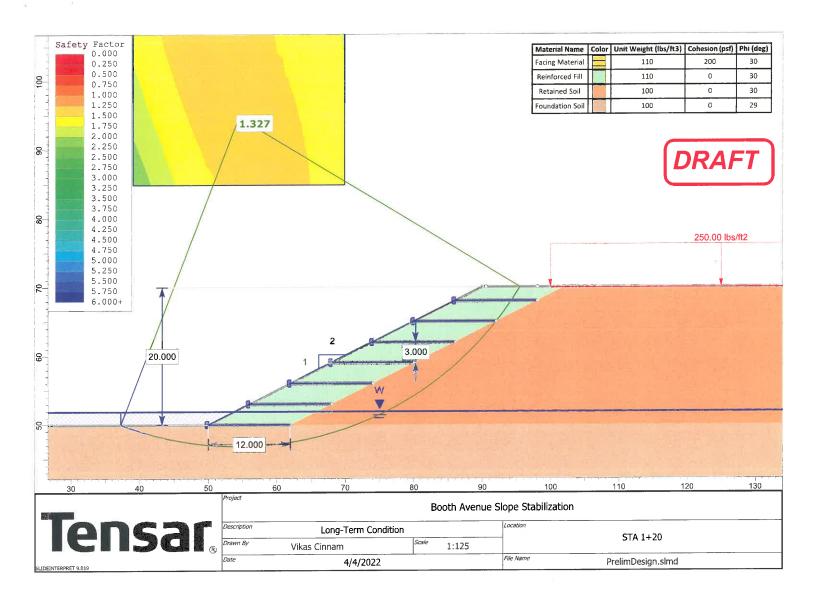
Derick Hopkins, PE Senior Project Engineer

derick.hopkins@wright-pierce.com

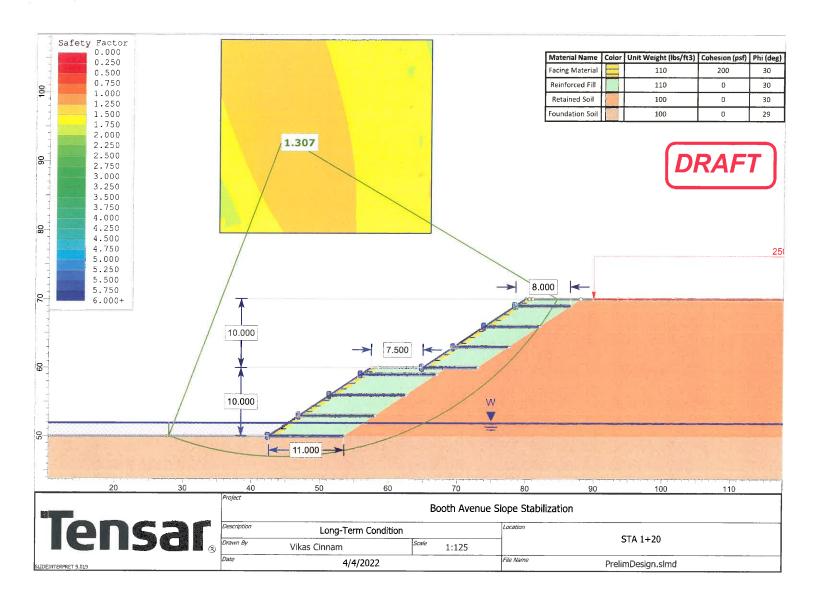
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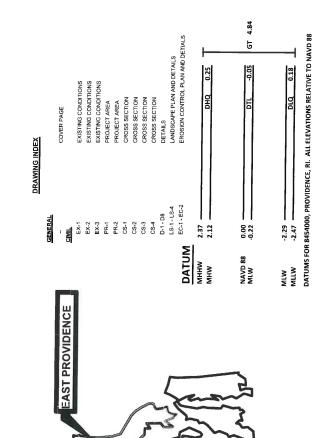
CITY OF EAST PROVIDENCE, RHODE ISLAND

BOOTH AVENUE SLOPE STABILIZATION

Septmeber 2023

RICRMC PERMIT SUBMISSION

FOR REGULATORY REVIEW ONLY



RHODE ISLAND

PROVIDENCE



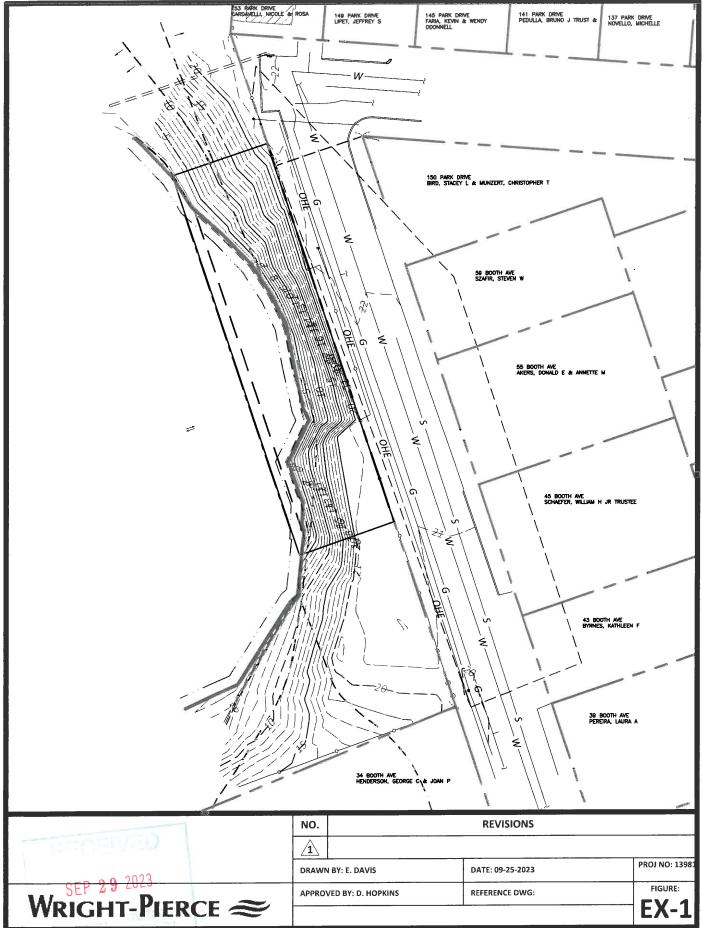
Engineering a Better Environment Wright-Pierce 🙈

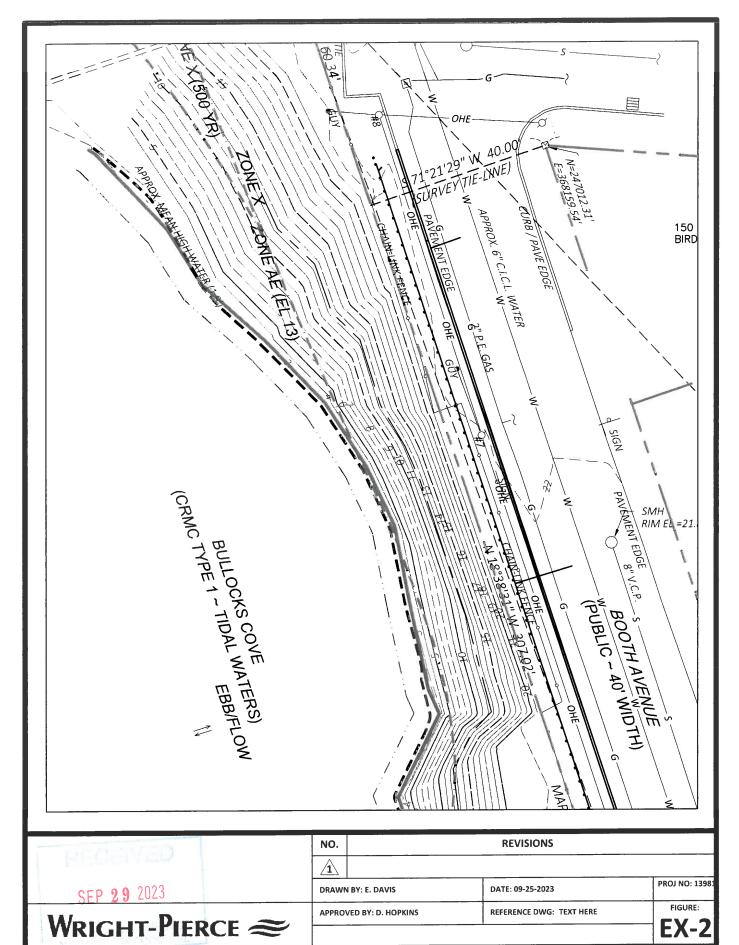
888.621.8156 | www.wright-pierce.com

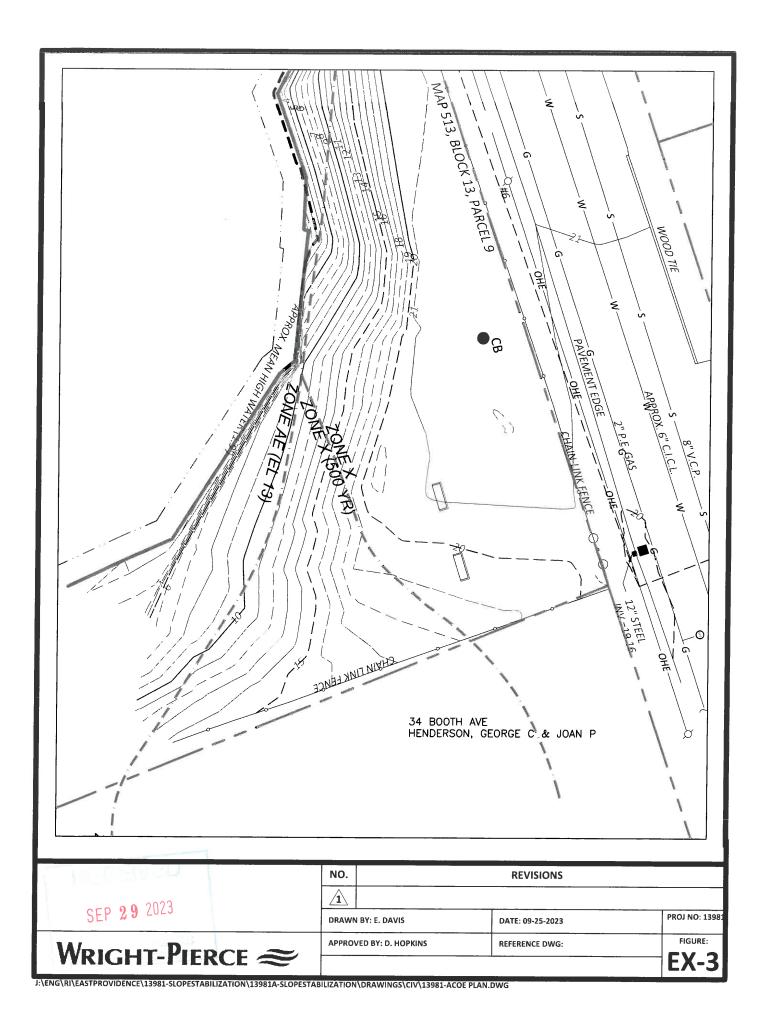
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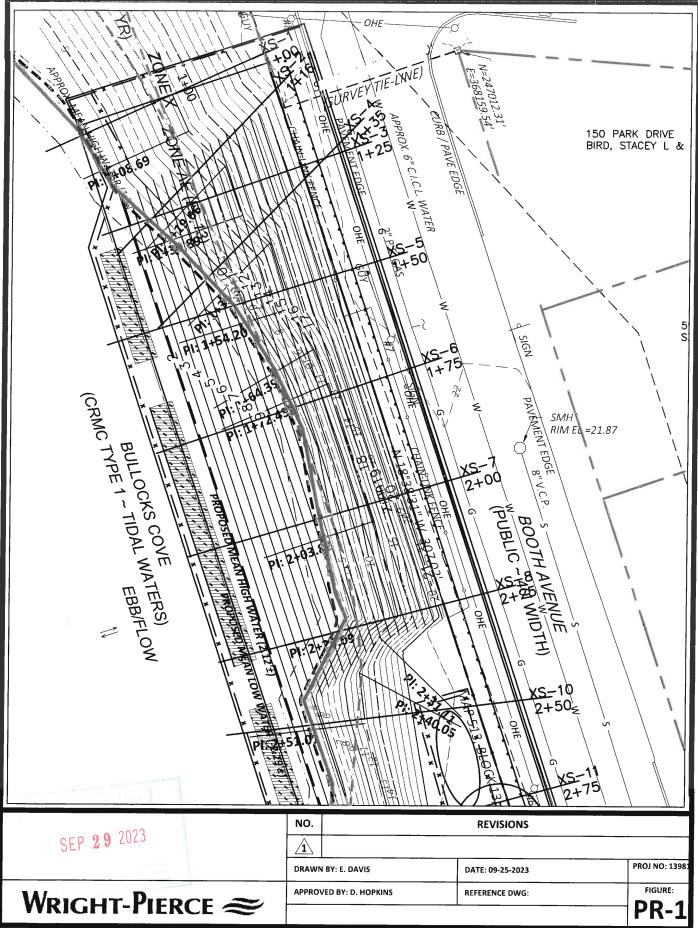
WP PROJECT No. 13981

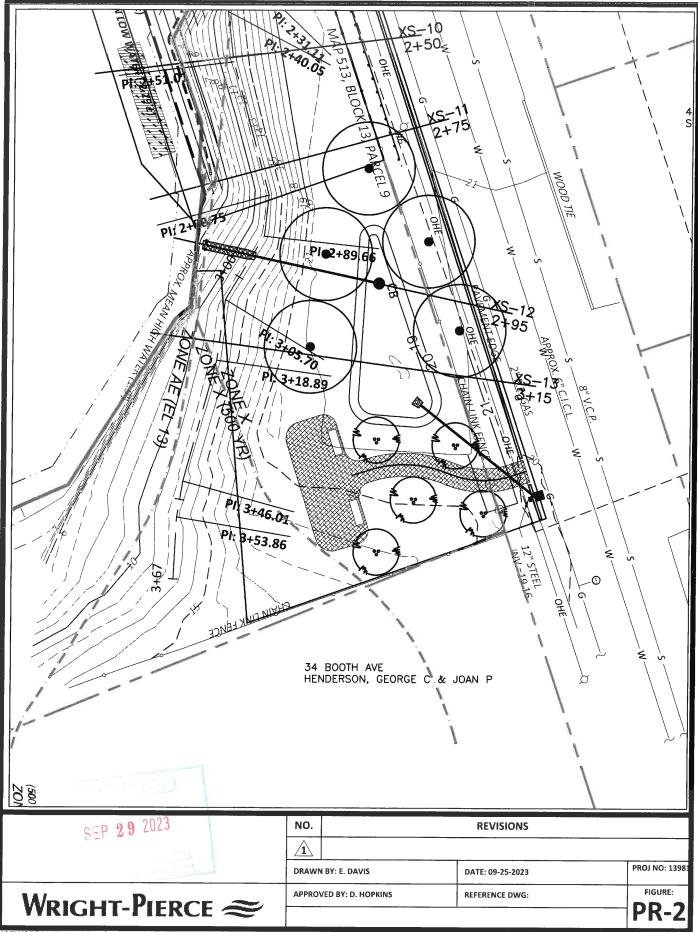
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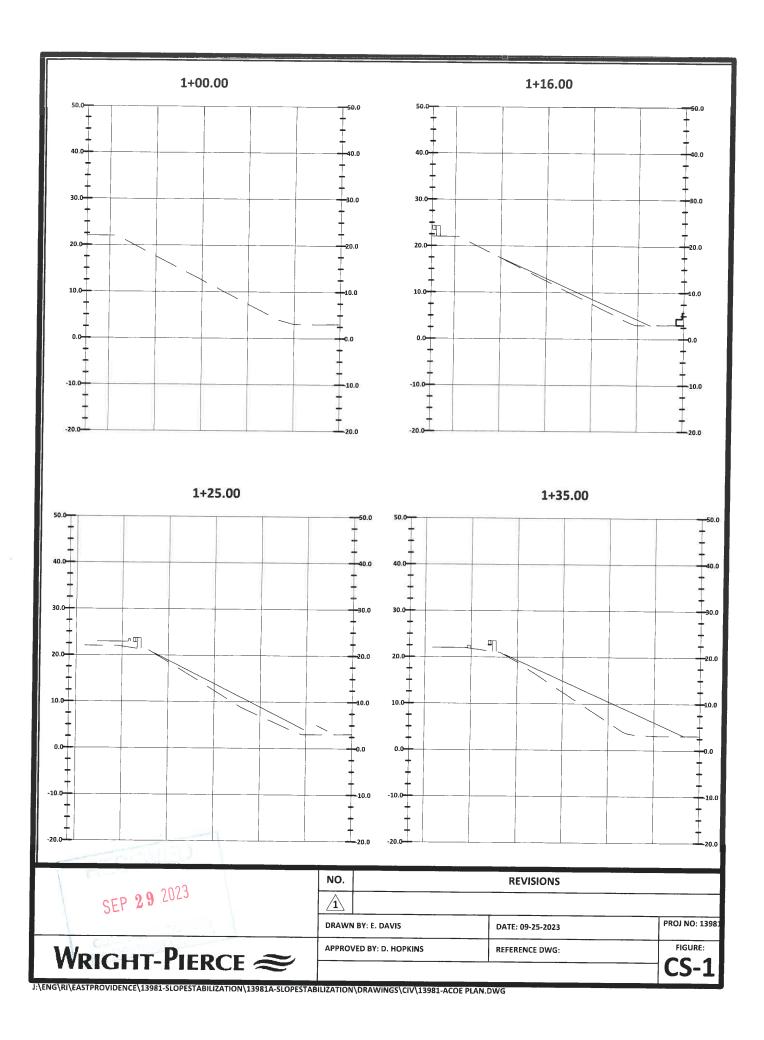


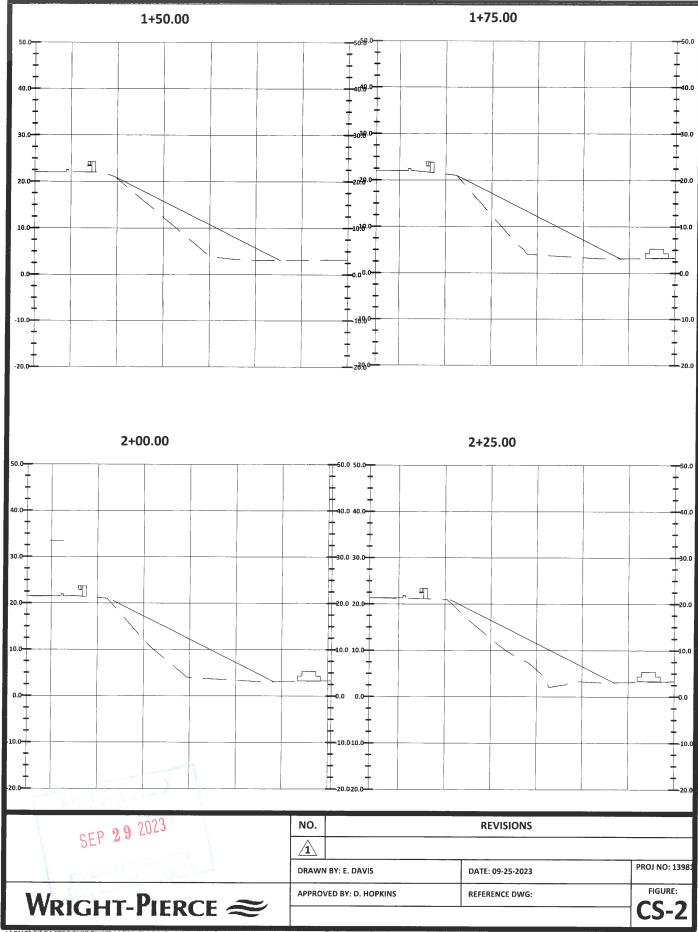


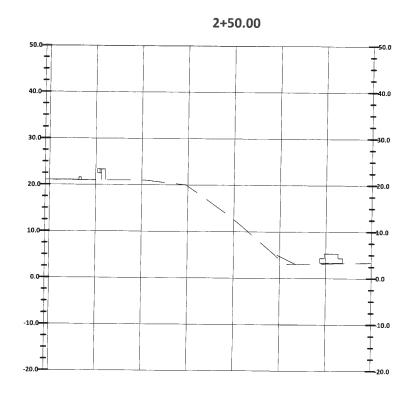


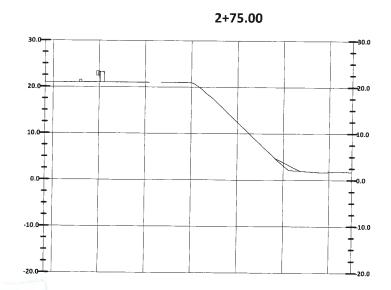




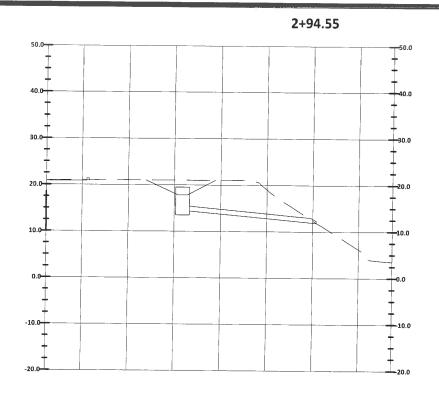


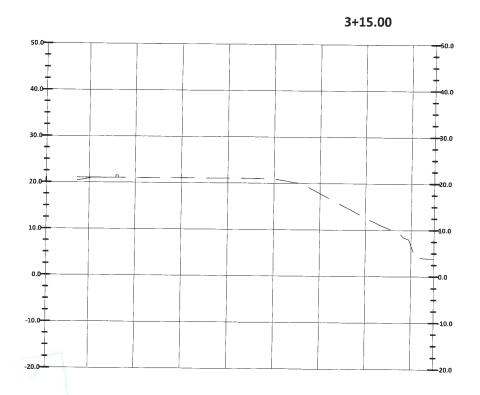




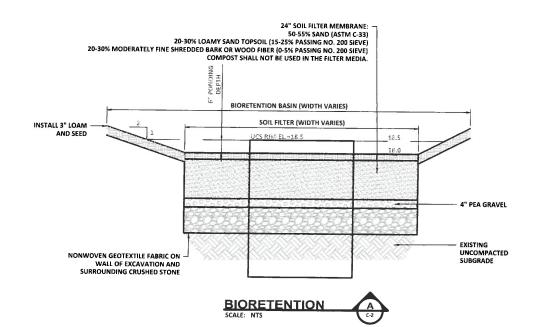


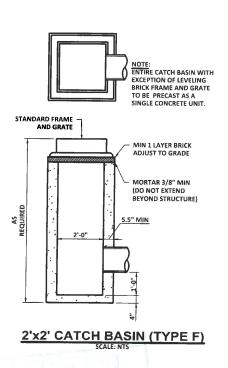
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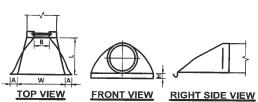




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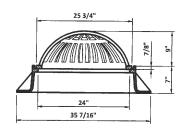






PIPE DIAMETER (in)				
DIAMETER (in)	12.0			
A (in)	7.0			
B(max) (in)	15.0			
H (in)	6.0			
L (in)	21.0			
W (in)	24.0			

HDPE FLARED END SECTION SCALE: NTS



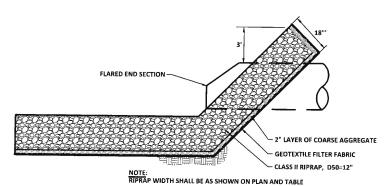
HIGH BEEHIVE GRATE & FRAME

SCALE: "NTS"

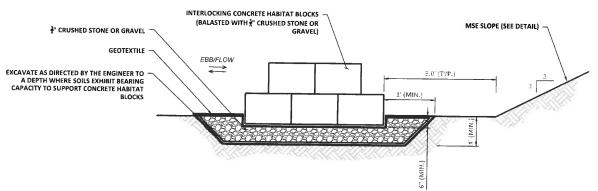
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	DRAWN BY: E. DAVIS	DATE: 09-25-2023	PROJ NO: 13981
WRIGHT-PIERCE \approx	APPROVED BY: D. HOPKINS	REFERENCE DWG:	FIGURE:
WRIGHT-PIERCE		,	D-1

RIPRAP STABILIZATION TABLE

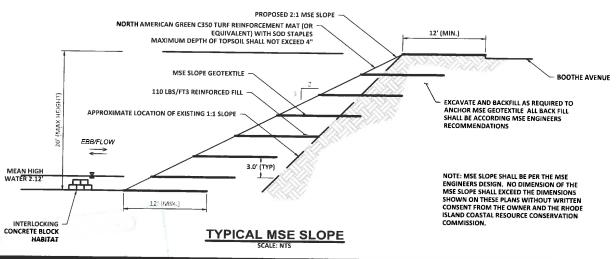
RIPRAP ID LOCATION	WIDTH AT PIPE OUTLET (ft)	WIDTH AT RIPRAP OUTLET (ft)	LENGTH (ft)	D50 (in)
1 12 INCH HDPE FLARED END SECTION	5	5	12	12



PIPE LEVEL SPREADER OUTLET W/FLARED END



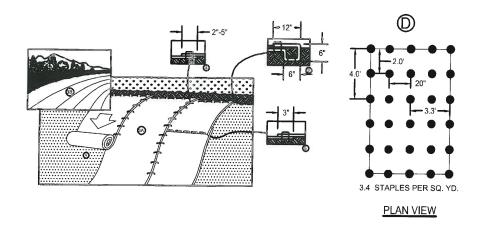
INTERLOCKING CONCRETE BLOCK HABITAT BLOCK



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	DRAWN BY: E. DAVIS	DATE: 09-25-2023	PROJ NO: 13981
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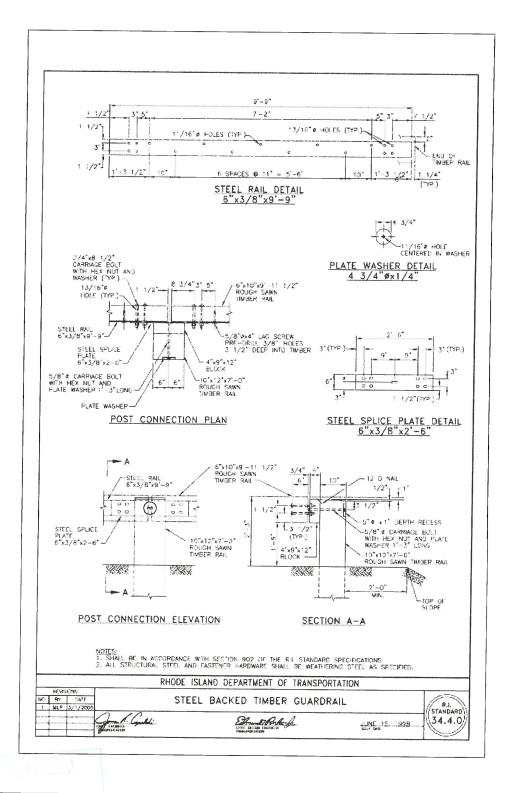
- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
- 3. ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM". STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" 5" (5 CM 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
- CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN
 APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART
 ACROSS ENTIRE RECP'S WIDTH.

NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

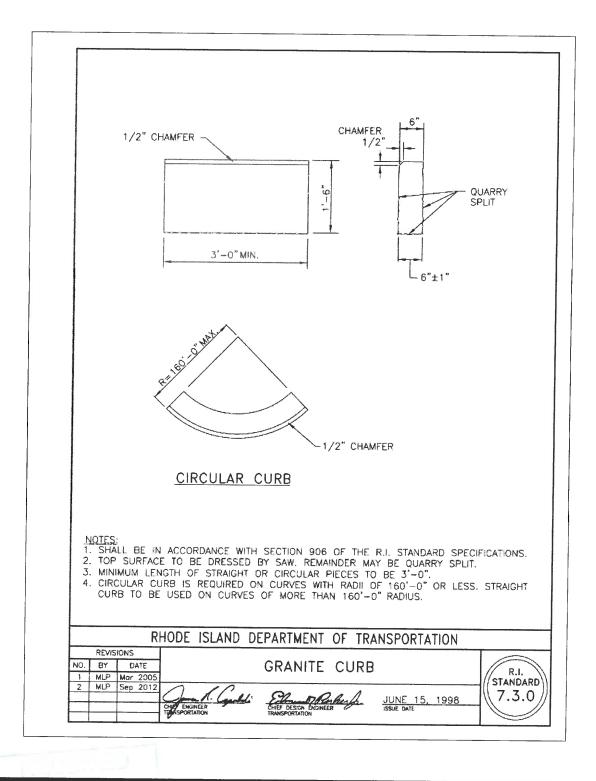


2H:1V TURF REINFORCEMENT INSTALLATION SCALE: NTS

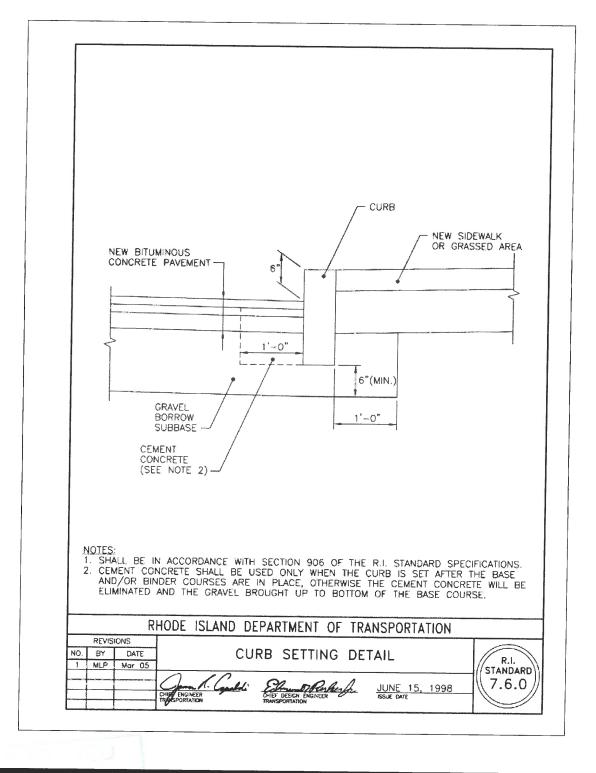
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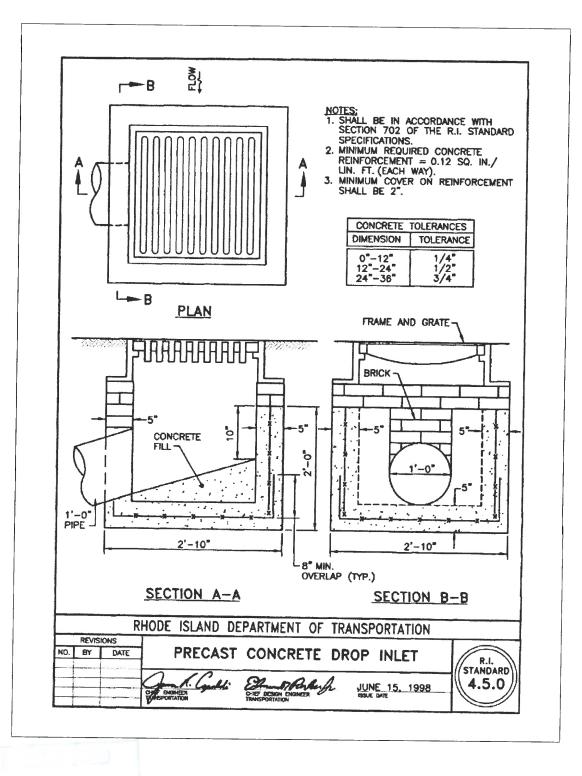
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Wright-Pierce ≈			D-4



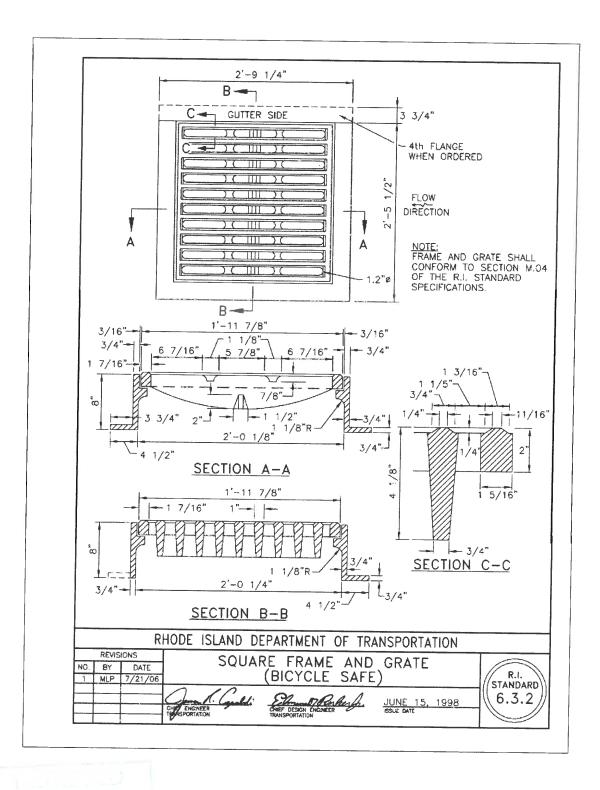
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WRIGHT-PIERCE \approx			D-5



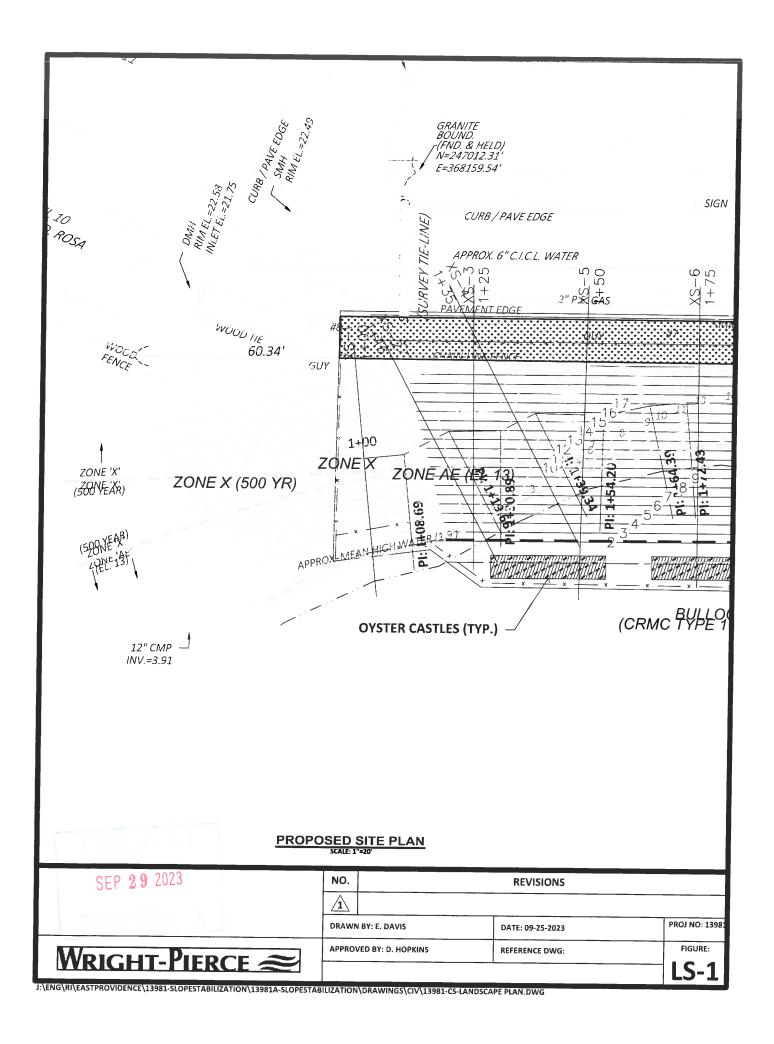
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WRIGHT-PIERCE \approx	APPROVED BY: D. HOPKINS	REFERENCE DWG:	FIGURE:
WRIGHT-PIERCE			D-6

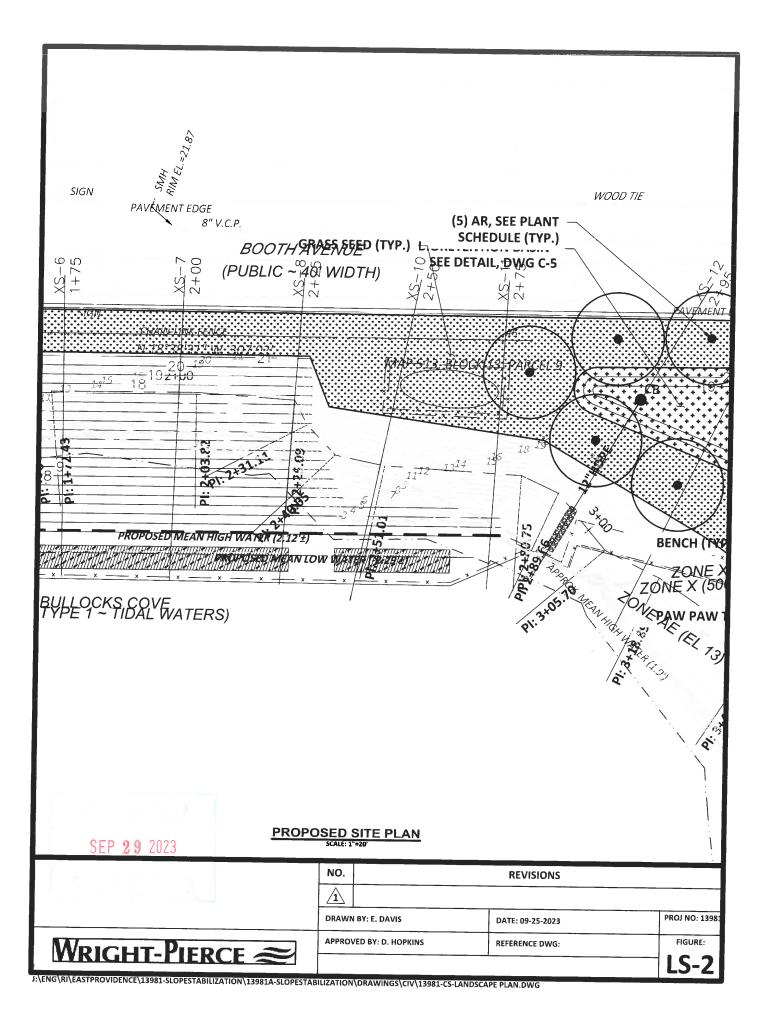


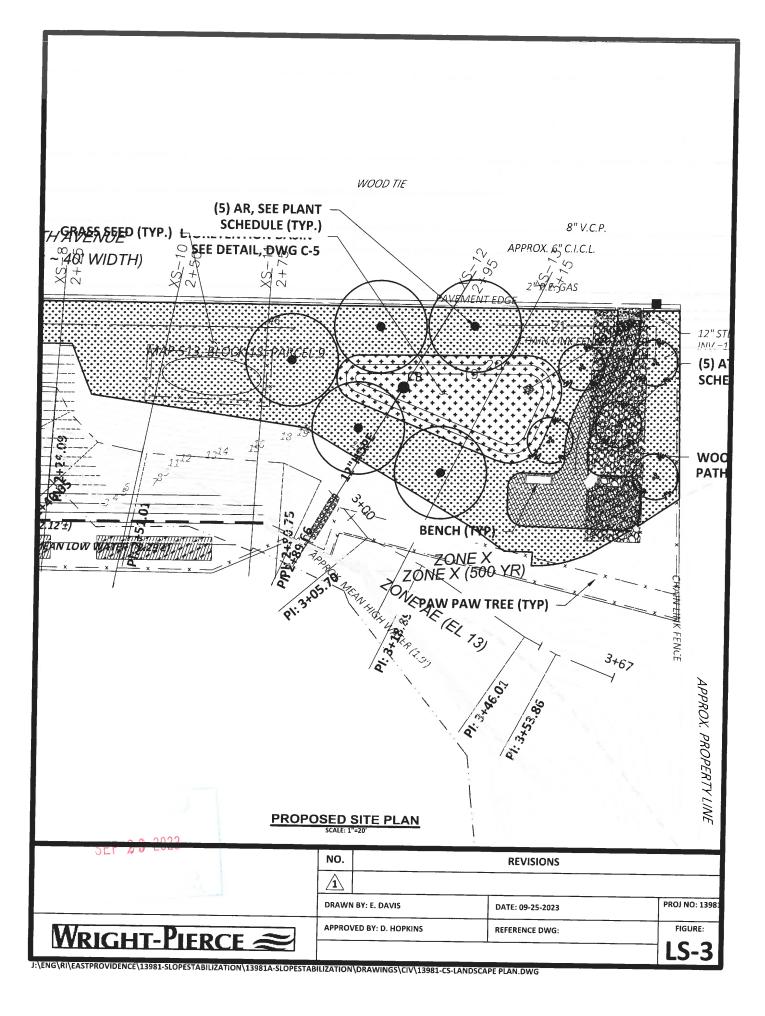
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NO. REVISIONS	Wright-Pierce ≈	APPROVED BY: D. HOPKINS	REFERENCE DWG:	FIGURE:
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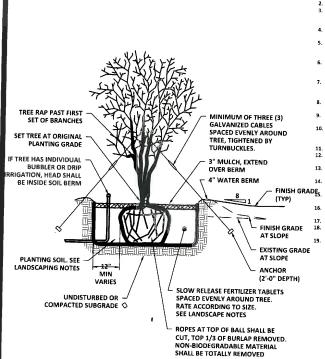


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	DRAWN BY: E. DAVIS	DATE: 09-25-2023	PROJ NO: 1398:
WRIGHT-PIERCE \approx	APPROVED BY: D. HOPKINS	REFERENCE DWG:	FIGURE:
WRIGHT-FIERCE			D-8









PLANTING NOTES:

- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE REQUIREMENTS AS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN, LATEST EDITION. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF THE HIGHEST SPECIMEN QUALITY.

 SEE SPECIFICATIONS FOR ITEMS NOT COVERED ON THE PLANS AND DETAILS.

 CONTRACTOR SHALL INSPECT SITE PRIOR TO BEGINNING PLANTING OPERATIONS AND NOTHEY THE ENGINEER OF ANY CONDITIONS THAT ARE NOT SUITABLE TO PERFORMING PLANTING OPERATIONS. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONDITIONS THAT ARE NOT SUITABLE TO PERFORMING PLANTING OPERATIONS. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONDITIONS THAT WOULD PREVENT THE ALITY OF ROWING FOR THE PLANTING SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING. TREES SHALL BE AS AME RELATIONSHIP TO FINISH GRADE AS THEY BORE TO PREVIOUS GRADE.

 TO PREVIOUS GRADE.

 PLANT GROUPING AND LOCATIONS ARE DIAGRAMMANTIC. THE LOCATION OF PLANTS SHALL BE APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT AT THE CONTRACTOR'S EXPENSE.

 ARCHITECT, PLANTS INSTALLED PRIOR TO FIELD STAKING OR DIRECTION BY THE LANDSCAPE ARCHITECT SHALL BE REPLACED AS DIRECTED BY THE LANDSCAPE ARCHITECT AT THE CONTRACTOR'S EXPENSE.

 PLANT MATERIAL DELIVERED ON SITE SHALL BE HEALD-IN AT A SHADY LOCATION UNTIL PLANTING AREA IS PREPARED FOR INSTALLATION. ANY PLANTIS REMAINING UNPLANTED ON THE SITE FOR MORE THAN 24 HOURS SHALL BE PROTECTED AND MAINTAINED INCLUDING BUT NOT LIMITED TO WATER AND SHADE. DAMAGED ON STESSED HEALD-SHANT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

 THERE WILL BE NO SUBSTITUTIONS OF PLANT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

 THERE WILL BE NO SUBSTITUTIONS OF PLANT MATERIAL WITHOUT PRIOR WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT. ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS SHALL BE REPLACED AT THE GONTRACTOR'S EMPRISE.

 FINE CONTRACTOR SHALL SUPPLY ALL WERE PLANDSCAPE ARCHITECT/FINNISEER.

 FINE CONTRACTOR SHALL SUPPLY ALL WERE PLANDSCAPE ARCHITECT/FINNISEER.

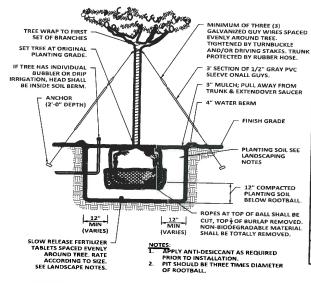
- THE CONTRACTOR SHALL MAINTAIN ALL PREPARED PLANTING AREAS FREE FROM DEBRIS. NO STORAGE OR STOCKPILING SHALL OCCUR ON PLANT AREAS.
- AREAS.
 THE CONTRACTOR IS TO USE CARE DURING EXCAVATION AND PLANTING TO AVOID DISTURBING OR DAMAGING ANY ADJACENT CONSTRUCTION
 SUBSURFACE DRAINAGE OR UTILITIES. ANY DAMAGE RESULTING FROM THIS CONSTRUCTION WILL BE THE CONTRACTOR'S RESPONSIBILITY AND
 SHALL BE RESTORED AT HIS EXPENSE TO THE SATISFACTION OF THE OWNER.
 STAKE LICKATION OF ALL PROPOSED PLANTING FOR APPROVAL BY THE LANDSCAPE ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF PLANTING,
 THE CONTRACTOR SHALL SUPPLY PLANT MATERIAL IN THE QUANTITIES INDICATED ON THE PLANS, FOR DISCREPANCIES BETWEEN THE PLANS AND
 THE PLANT SCHEDULE, THE PLAN QUANTITIES SHALL PREVAIL
 ALL PLANT MATERIAL IN CONTAINERS SHALL BE WELL ESTABLISHED ROOTED MATERIAL THAT OCCUPIES THE ENTIRE VOLUME OF SPECIFIED
 CONTAINER.
- ALL PLANT MATERIAL IN CONTAINERS SHALL BE WELL ESTABLISHED ROOTED MATERIAL THAT OCCUPIES THE ENTIRE VOLUME OF SPECIFIED CONTAINER, OCCUPIES THE ENTIRE VOLUME OF SPECIFIED CONTAINER, PLANTS WITH GIRDLING ROOTS SHALL BE REJECTED. CONTAINER, WITH THE FINISH GRADE, PREPARE ALL TREE PITS WITH PLANTING. TO PLANTING. THE TREE ROOT FLARE SHALL BE EXPOSED AND PLANTED EVEN WITH THE FINISH GRADE, PREPARE ALL TREE PITS WITH PLANTING SOIL TO A MINIMUM DEPTH MATCHING THE DEPTH OF THE FOOT BALLS. ALL PLANT BEDS ARE TO RECEIVE THREE INCHES [3"] OF SHEEDED BARK MULCH AS SPECIFIED. NO SEPARATE PAY ITEM FOR MULCH OR AND/OR FETTILIZER PROVERS. PAID FOR MURSE PLANTING ITEMS.
 ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED, PRUNED AND FERTILIZED PER THE SPECIFICATIONS.
 ALL LEXIS NIGHTED STORMAIN SHALL BE PROPERLY PROTECTED, PRUNED AND FERTILIZED FOR THE SPECIFICATIONS.
 ALL LAWA REAS DISTURBED BY CONSTRUCTION OPERATIONS INSIDE AND OUTSIDE THE LIMIT OF WORK SHALL BE LOAMED AND SEEDED AS SPECIFIC. ALL AREAS TO BE SEEDED SHALL RECEIVE SO'IL PREPARATION AS SPECIFIED PRIOR TO SEEDING, UNLESS OTHERWISE NOTED ON PLAN. ALL AREAS TO BE SEEDED WITH GRASS SEED MIX SHALL RECEIVE SO' TOPSOIL PRIOR TO SEEDING.

- NOTES:

 1. APPLY ANTI-DESICCANT PRIOR TO PLANTING
 ASTROD FOR TREES UNDER 10' MA STAKING METHOD FOR TREES UNDER 10' MAY BE
- SUBSTITUED FOR GUY WIRE METHOD.

 3. PIT SHOULD BE THREE TIMES DIAMETER OF ROOTBALL.

TREE INSTALLATION: MULTI-STEM SCALE: NTS

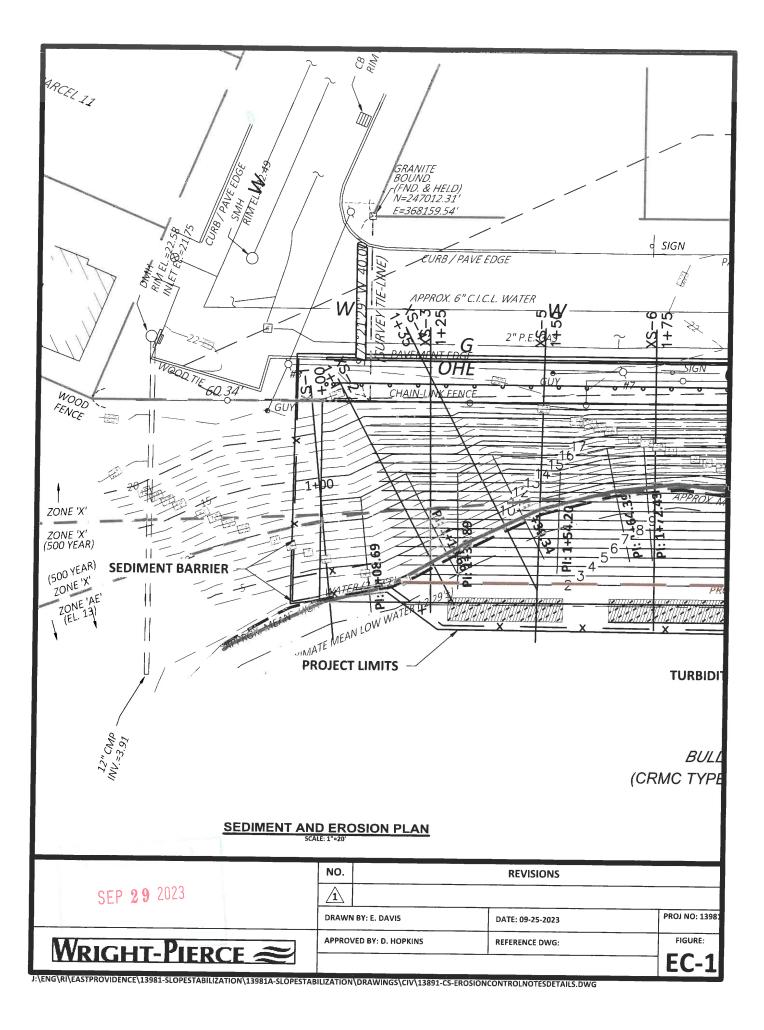


PLANTING SCHEDULE

SYMB.	QTY	BOT. NAME	COMMON NAME	SIZE	ROOT	COMMENTS
FRUI	TTREES					
AT	5	ASIMINA TRILOBA	PAWPAW	7'-8' HT	8&B	SINGLE STEM, FULL HEAVY, MATCHED
DECI	DUOUS TRE	ES				- III A T. III A T. III C
AR	5	ACER RUBRUM	RED MAPLE	2 1/2"-3" CAL.	B&B	SINGLE STEM, FULL HEAVY, MATCHED
BRUS	H BRANCH	ES FOR SLOPE STABILIZATION				THE COLUMN TENED
	200	CEPHALANTHUS OCCIDENTALIS	BUTTONBUSH	3' BRANCH	BARE ROOT	PLANT IN FALL, 3' O.
	200	SALIX DISCOLOR	PUSSY WILLOW	3' BRANCH	BARE ROOT	PLANT IN FALL, 3' O.
	200	VIBURNUM DENTATUM	ARROWWOOD	3' BRANCH	BARE ROOT	PLANT IN FALL, 3' O.O
SEED	& LOAM					
	800 SF	BIORETENTION SEED MIX	SEE SPECIFICATIONS			
	4,600 SF	GRASS SEED MIX	SEE SPECIFICATIONS			

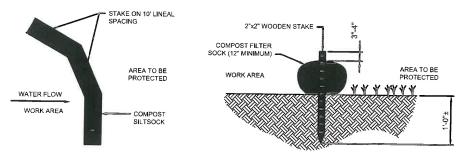
TREE INSTALLATION: 10' AND TALLER

NO. SEP 29 2023 **REVISIONS** DRAWN BY: E. DAVIS PROJ NO: 1398 DATE: 09-25-2023 APPROVED BY: D. HOPKINS WRIGHT-PIERCE \approx REFERENCE DWG: FIGURE: LS-4 J:\ENG\RI\EASTPROVIDENCE\13981-SLOPESTABILIZATION\13981A-SLOPESTABILIZATION\DRAWINGS\CIV\13981-CS-LANDSCAPE PLAN.DWG



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PAVEMENT EDGE 8" V.C.P.		WOOD III	
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CRMC TYPE 1 ~ TIDAL WATERS)			
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SEP 29 2023	<u>î</u>		
	DRAWN BY: E. DAVIS	DATE: 09-25-2023	PROJ NO: 13981 FIGURE:
WRIGHT-PIERCE \approx	APPROVED BY: D. HOPKINS	REFERENCE DWG:	EC-3
ENG\RI\EASTPROVIDENCE\13981-SLOPESTABILIZATION\13981A-SLOPESTAB	 LIZATION\DRAWINGS\CIV\13891-CS-FROSION	CONTROL NOTES DETAILS DWG	LC-3



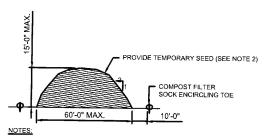
NOTES

- 1. COMPOST/ SOIL/ ROCK/ SEED FILL TO MEET APPLICATION REQUIREMENTS.
- 2. COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER
- 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.

SEDIMENT BARRIER SCALE: NTS

- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
- EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE INTENDED TO REPRESENT THE MINIMUM CONTROLS NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNERS REPRESENTATIVE.
- THE CONTRACTOR SHALL UPDATE THE SESC, AND PERFORM THE REQUIRED INSPECTION AND REPORT KEEPING ACTIVITIES OF THE SESC.
- 4. THE CONTRACTOR SHALL INSTALL EROSION CONTROLS PRIOR TO COMMENCING WORK
- THE CONTRACTOR SHALL PROVIDE DUST CONTROL VIA ON-SITE WATER TRUCK OR OTHER APPROVED METHODS.
- 6. THE CONTRACTOR SHALL PROVIDE CONCRETE WASHOUT AREAS.
- THE CONTRACTOR SHALL MAINTAIN CONSTRUCTION ENTRANCES (ANTI-TRACK PADS) AT ALL POINTS OF INGRESS AND EGRESS TO THE SITE.
- WATER FROM DEWATERING OPERATIONS SHALL BE PUMPED UPGRADIENT TO A MINIMUM STRAW-BALE ENCLOSURE OR OTHER APPROVED DEVICE. ALL DEWATERING SHOULD BE IN CONFORMANCE WITH THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
- CONTRACTOR SHALL CONTAIN AND DISPOSE OF SITE-WASTE CONSISTENT WITH LOCAL, STATE, AND FEDERAL REGULATIONS
- CONTRACTOR SHALL FURNISH INSTALL, AND MAINTAIN SILT SACKS IN ALL EXISTING AND NEWLY INSTALLED CATCH BASINS UNTIL THE UPSTREAM AREA IS STABILIZED.
- THE CONTRACTOR SHALL MAINTAIN EROSION CONTROLS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACE DAMAGED EROSION CONTROLS AT THE OWNER OR OWNERS REPRESENTATIVES REQUEST AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 12. THE CONTRACTOR SHALL NOT LEAVE DISTURBED AREAS UNSTABILIZED FOR PERIODS MORE THAN 14 DAYS. PROVIDE TEMPORARY SEED OR MULCH ON DISTURBED AREAS THAT REMAIN EXPOSED FOR GREATER THAN 14 DAYS.
- 13. INSTALL EROSION CONTROLS DOWNSTREAM OF ANY DISTURBED AREAS TO REDUCE POTENTIAL FOR EROSION. CONTRACTOR SHALL INDICATE LOCATIONS OF EROSION CONTROL FOR REVIEW WITH GENERAL CONTRACTOR AND OWNERS REPRESENTATIVE PRIOR TO COMMENCING WORK.
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS
- ALL TEMPORARILY CUT UTILITIES SHALL BE PROTECTED FROM SEDIMENTATION UNTIL CONNECTED TO POST-CONSTRUCTION POSITION.
- 16. EXCESS TOPSOIL AND SEDIMENT CAPTURED IN EROSION CONTROL MEASURES SHALL BE STOCKPILE ON SITE AND SEEDED.
- 17. CONTRACTOR TO PROVIDE TEMPORARY CONSTRUCTION FENCE.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE WORK AREA HAS BEEN STABILIZED.
- CONTRACTOR SHALL CLEAN DEBRIS AND SOIL FROM ALL CATCH BASINS AND DRAINS AFTER SITE STABILIZATION AND PRIOR TO SITE ACCEPTANCE.

SEDIMENT STOCKPILE SCALE: NTS



- STOCKPILE AREA SHALL NOT EXCEED SPECIFIED DIMENSIONS WITHOUT APPROVAL FROM ENGINEER.
- 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.

SEP **29** 2023

WRIGHT-PIERCE \approx

NO. REVISIONS

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