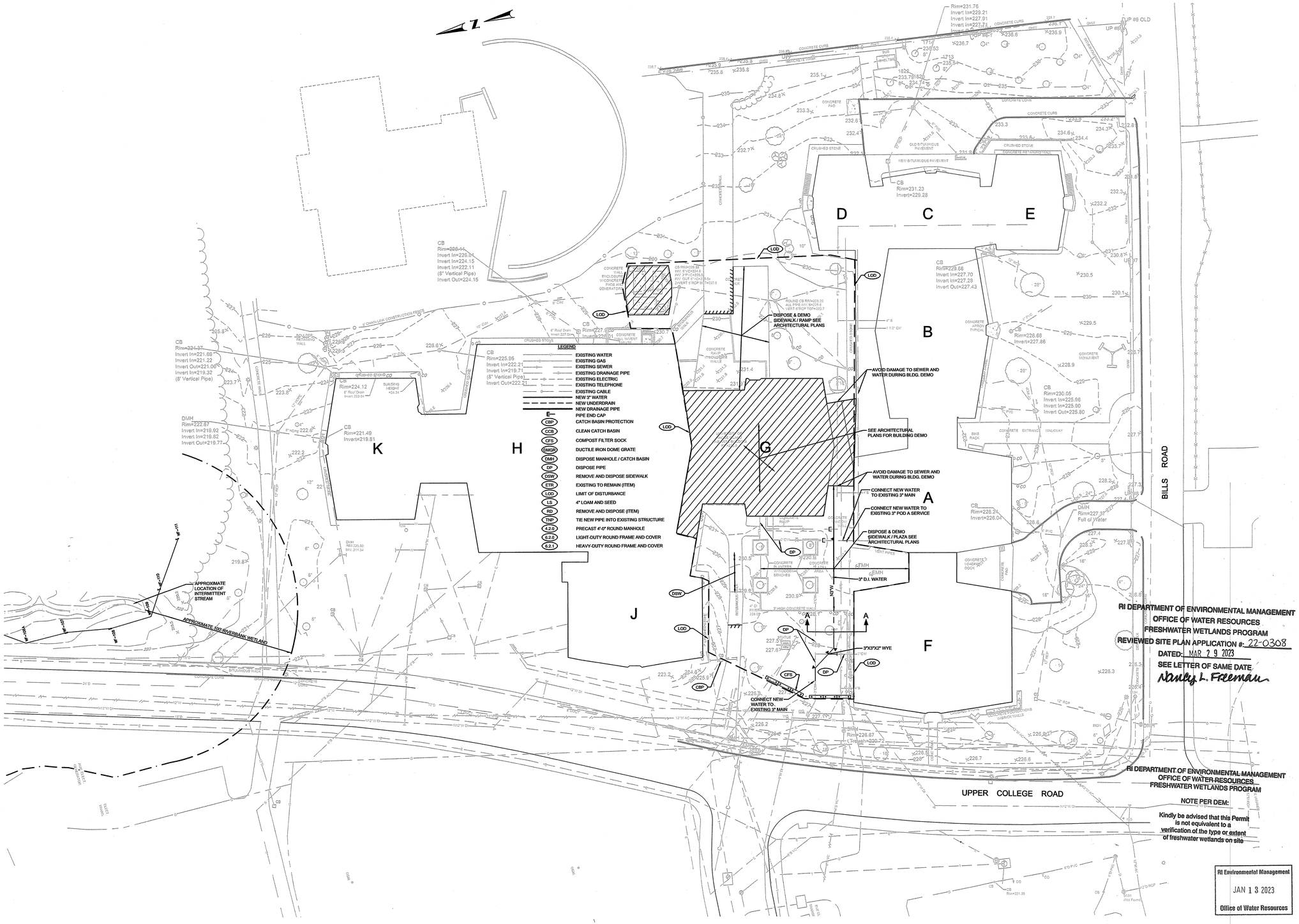

THE UNIVERSITY OF RHODE ISLAND

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401-874-1000

Stamp

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No. 5928
REGISTERED PROFESSIONAL ENGINEER

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Key Plan:

No.	Revision/Issue	Date

Fine Arts Center Phase I B

ENABLING SITE PLAN

Project	21225
Scale	1" = 30'
Date	28 JUNE 2022
Drawn By	LBD
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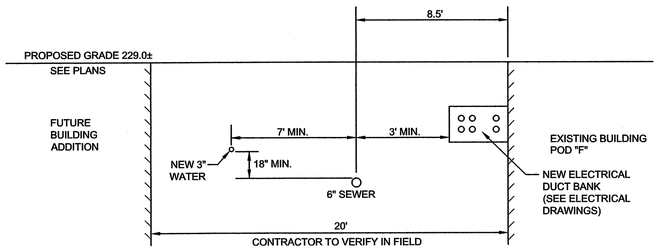
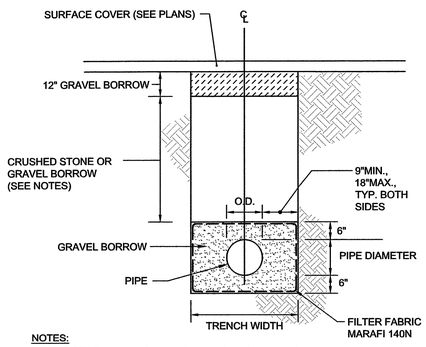


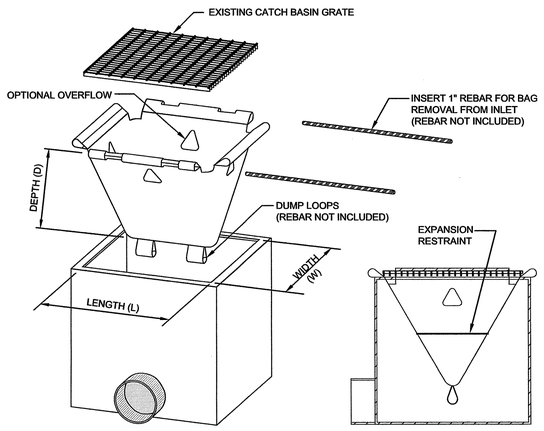
TYPICAL SECTION A - A
NOT TO SCALE

NOTE:
WATER AND SEWER LINES TO BE
LAID IN SEPARATE TRENCHES.



NOTES:
1. SUITABLE MATERIAL EXCAVATED FROM THE TRENCH MAY BE USED FOR PIPE BEDDING.
2. CRUSHED STONE SHALL BE USED FOR STORM DRAIN PIPE.
3. GRAVEL BORROW SHALL BE USED FOR WATER MAIN PIPE.

TYPICAL PIPE TRENCH DETAIL
NOT TO SCALE



SIZE = L" X W" X D"

CATCH BASIN INLET PROTECTION TYPE A (CBP)
NOT TO SCALE

GENERAL NOTES

1. SPECIFICATIONS GOVERNING THIS PROJECT SHALL BE THE RIDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (AMENDED AUGUST 2013, INCLUDING ALL REVISIONS, ADDENDA AND SUPPLEMENTAL SPECIFICATIONS; AND THE "RHODE ISLAND STANDARD DETAILS" (1998, INCLUDING ALL REVISIONS. ALL PROJECT SITE IMPROVEMENTS SHALL CONFORM TO THE APPLICABLE STANDARDS SET FORTH IN THESE DOCUMENTS (AND THE SUB-REFERENCES INCORPORATED THEREIN) UNLESS OTHERWISE INDICATED IN THE CONTRACT DOCUMENTS.
2. THE PROJECT LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, THE CONTRACTOR WILL BE RESPONSIBLE FOR RESTORING (THROUGH PROVISION AND PLACEMENT OF LOAM AND SEED) ANY UNPAVED AREAS OUTSIDE OF THE PROJECT LIMITS OF DISTURBANCE IMPACTED BY CONSTRUCTION OPERATIONS. ANY REQUIRED RESTORATION OUTSIDE THE PROJECT LIMITS OF DISTURBANCE SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
3. ANY DAMAGE CAUSED BY THE CONTRACTOR TO EXISTING CURBING, SIDEWALKS, PAVEMENTS, FENCES, OR OTHER SITE FEATURES TO REMAIN IN PLACE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL EXCESS EXCAVATED PAVEMENTS, CURBING, SIDEWALKS, CURB STOPS, AND OTHER CONSTRUCTION WASTE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENTS FROM DEWATERING OPERATION DISCHARGES THROUGH THE USE OF STILLING BASINS, FILTER FABRIC DEVICES, AND/OR OTHER SUITABLE MEANS AS APPROVED BY THE ENGINEER.
6. THE CONTRACTOR SHALL PROVIDE CONTINUOUS DUST CONTROL (USING WATER AND/OR CALCIUM CHLORIDE OR OTHER APPROVED METHODS) FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS AND SURFACES OF BACK FILLED TRENCHES, IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
7. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED NOTICES AND COMPLY WITH ALL PERMITS, LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN AND SPECIFIED IN THE CONTRACT DOCUMENTS.
8. EXISTING UTILITIES HAVE BEEN PLOTTED FROM BEST AVAILABLE DATA AND ARE APPROXIMATE ONLY. IN ACCORDANCE WITH CURRENT STATE "DIG SAFE" LAWS AND RULES, THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE SYSTEM ELEMENTS AND UTILITIES (BOTH UNDERGROUND AND OVERHEAD) BEFORE ANY EXCAVATION MAY COMMENCE. THE CONTRACTOR IS ADVISED THAT (A) NOT ALL UTILITY PROVIDERS SUBSCRIBE TO THE DIG SAFE PROGRAM, AND (B) IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL POTENTIALLY AFFECTED UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO THE COMMENCEMENT OF WORK. EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY MUNICIPAL, STATE OR FEDERAL AGENCY OR AUTHORITY HAVING JURISDICTION OVER THE WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD OR UNMARKED UTILITIES (AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY) SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
9. THE CONTRACTOR IS ADVISED THAT WORK UNDER EXISTING OVERHEAD UTILITIES MAY BE REQUIRED, AND THAT MINIMUM CLEARANCES SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. THIS MAY REQUIRE SPECIAL MEANS AND METHODS IN ORDER TO PROPERLY COMPLETE THE WORK. SHOULD THE CONTRACTOR ELECT TO RELOCATE EXISTING OVERHEAD UTILITIES, THEN THE CONTRACTOR SHALL CONDUCT ALL COORDINATION WITH THE AFFECTED UTILITY COMPANIES AND BEAR ALL COSTS ASSOCIATED WITH UTILITY RELOCATIONS NOT INCLUDED IN THE CONTRACT.
10. PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING PIPES AND/OR STRUCTURES WHICH ARE TO BE CONNECTED OR REMOVED. ANY VARIATION FROM THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION, WHEREUPON WORK CAN COMMENCE ONLY UPON THE ENGINEER'S AUTHORIZATION.
11. ALL EXISTING PIPE, SUBSURFACE STRUCTURES, PAVEMENTS, EXCESS EXCAVATED MATERIALS AND MISCELLANEOUS MATERIALS REMOVED IN THE COURSE OF UTILITY WORK (INSTALLATION OF DRAINAGE, WATER AND SEWER PIPING, ETC.) SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR AT AN OFFSITE LOCATION.
12. WHERE UNDERGROUND UTILITY CROSSINGS ARE REQUIRED, AT LEAST TWO (2) TEST PITS SHALL BE DUG TO DETERMINE THE LOCATION/DEPTH AND MATERIAL OF THE EXISTING UTILITY.
13. UTILITY SERVICES TO EXISTING BUILDINGS AND FACILITIES SHALL BE MAINTAINED AT ALL TIMES FOR THE DURATION OF CONSTRUCTION.
14. THE CONTRACTOR SHALL ADJUST ALL UTILITY BOXES, FRAMES, AND COVERS AS REQUIRED TO MATCH FINISH GRADE.
15. THIS PLAN SET REVERENCES RIDOT STANDARD DETAILS (DESIGNATED AS RIDOT STD (X.X.X). RIDOT STANDARD DETAILS ARE AVAILABLE AT: HTTP://WWWDOT.RI.GOV/BUSINESS/CONTRACTORSANDCONSULTANTS.PHP.
16. ANY PROPRIETARY PRODUCTS REFERENCED IN THIS PLAN SET ARE REPRESENTATIVE OF THE MINIMUM DESIGN REQUIREMENTS FOR THE PURPOSE IT PROPOSES TO SERVE. ALTERNATIVES TO ANY PROPRIETARY PRODUCT MAY BE SUBMITTED TO THE ENGINEER OF RECORD FOR CONSIDERATION, WHICH MUST BE ACCOMPANIED BY APPROPRIATE SPECIFICATION SHEETS/DESIGN CALCULATIONS THAT DEMONSTRATE THE ALTERNATIVE(S) MEET THE MINIMUM DESIGN PARAMETERS OF THE PRODUCTS SHOWN ON THE PLANS. NO ALTERNATIVES MAY BE USED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.

DRAINAGE NOTES:

1. ALL DRAINAGE PIPING TO BE HIGH-DENSITY POLYETHYLENE (HDPE) WITH WATERTIGHT JOINTS WHERE INSTALLED WITHIN THE SEASONAL HIGH GROUNDWATER, UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICTIONS.
2. ALL DRAINAGE STRUCTURES MUST BE WATERTIGHT, UNLESS NOTED.

EROSION AND SEDIMENT CONTROL NOTES

1. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES TO BE EMPLOYED ON THE PROJECT ARE INDICATED ON THE PLANS. CONTROL MEASURES SHALL BE FURNISHED, INSTALLED, MAINTAINED FOR THE DURATION OF CONSTRUCTION, AND SUBSEQUENTLY REMOVED, ALL IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS, THE LATEST EDITION OF THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" (REVISED 2014), AND ANY SITE-SPECIFIC EROSION AND SEDIMENT CONTROL / POLLUTION PREVENTION PLAN INCLUDED IN THE CONTRACT DOCUMENTS.
2. ALL CLEARING, GRADING AND EARTHWORK ACTIVITIES SHALL REMAIN STRICTLY WITHIN THE LIMITS OF DISTURBANCE (LOD) DEPICTED ON THE PLANS AND SHALL BE RESTRICTED TO ACTIVITIES NECESSARY FOR COMPLETION OF THE WORK. THE CONTRACTOR SHALL ENSURE THAT ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE REMAIN UNDISTURBED AND PROTECTED FROM CONSTRUCTION IMPACTS.
3. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS, THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, AND THE APPLICABLE CONDITIONS OF ANY REGULATORY/ENVIRONMENTAL PERMITS ISSUED FOR THE PROJECT.
4. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES, EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT LOCATIONS AND AREAS SHOWN ON THE PLANS. CLEARING MAY OCCUR PRIOR TO INSTALLATION OF SUCH CONTROLS; HOWEVER NO GRUBBING, GRADING, FILLING, OR OTHER SOIL DISTURBANCE SHALL OCCUR PRIOR TO INSTALLATION.
5. PERIMETER EROSION CONTROL BARRIERS (STAKED COMPOST FILTER SOCK, SILT FENCE, OR OTHER DEVICES AS INDICATED) SHALL BE INSTALLED IN CONTINUOUS UNINTERRUPTED RUNS AT THE LOCATIONS INDICATED ON THE PLANS AND MAINTAINED IN EFFECTIVE CONDITION UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. FOLLOWING SUCCESSFUL STABILIZATION OF DISTURBED AREAS, ALL PERIMETER EROSION CONTROL BARRIERS SHALL BE REMOVED. PRIOR TO REMOVAL OF THE DEVICES, ALL ACCUMULATED SEDIMENT AND DEBRIS TRAPPED BY THE BARRIERS SHALL BE REMOVED AND DISPOSED OF LEGALLY AT A SUITABLE OFFSITE LOCATION.
6. THE TOE OF ANY FILL SLOPE IS TO REMAIN AT LEAST ONE (1) FOOT INSIDE OF ALL PERIMETER EROSION CONTROL BARRIERS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR COVER ANY PORTION OF THE EROSION CONTROL MEASURES WITH MATERIAL. ANY MATERIAL THAT IS PLACED ON ANY EROSION CONTROLS BY THE CONTRACTOR (OR ANY AGENT OF THE CONTRACTOR) SHALL BE IMMEDIATELY REMOVED, AND ANY NECESSARY REPAIRS TO THE EROSION CONTROLS SUBSEQUENTLY IMPLEMENTED AT NO COST TO THE OWNER.
7. UNTIL VEGETATIVE COVER IS ESTABLISHED AND DISTURBED AREAS ARE FULLY STABILIZED, TRAPPED SEDIMENTS SHALL BE PERIODICALLY REMOVED FROM PERIMETER EROSION CONTROL BARRIERS. AT A MINIMUM, MATERIAL SHALL BE REMOVED ONCE THE DEPTH OF ACCUMULATED SEDIMENT REACHES SIX (6) INCHES OR ONE-HALF THE BARRIER HEIGHT, WHICHEVER IS LESS. ALL REMOVED MATERIAL SHALL BE DISPOSED OF LEGALLY AT A SUITABLE OFFSITE LOCATION.
8. ALL MATERIAL STOCKPILES SHALL BE LOCATED WITHIN THE LIMITS OF DISTURBANCE (LOD) DEPICTED ON THE PLANS AND SHALL BE SURROUNDED BY A SECURED PERIMETER OF COMPOST FILTER SOCK.
9. ALL EXISTING AND CONSTRUCTED DRAINAGE SYSTEM INLETS SHALL BE PROVIDED WITH INLET PROTECTION DEVICES (FILTER BAGS/SILT SACKS, SANDBAGS, WATTLES, ETC.) AS INDICATED ON THE PLANS. ALL INLET PROTECTION DEVICES SHALL BE INSTALLED, MAINTAINED, AND CLEANED FOR THE DURATION OF CONSTRUCTION AND UNTIL ALL STORMWATER CONTROLS ARE FULLY STABILIZED AND ONLINE, AT WHICH TIME THEY SHALL BE REMOVED.
10. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
11. EROSION CONTROL DEVICES SHOULD BE INSPECTED WEEKLY AND AFTER RAINFALL EVENTS EXCEEDING ONE HALF INCH (½") IN ANY 24-HOUR PERIOD. WHERE AND WHEN REQUIRED, MAINTENANCE AND REPAIRS SHALL BE COMPLETED WITH 24 HOURS OF THE INSPECTION.
12. DENUDED/UNVEGETATED SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR PERIODS IN EXCESS OF 2 WEEKS OR THROUGH THE INACTIVE WINTER SEASON.
13. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15 SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
14. TEMPORARY SURFACE STABILIZATION TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS FIBER MESH, EROSION CONTROL BLANKETS, OR OTHER MATTING. THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS DIRECTED BY THE ENGINEER. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000-4,000 POUNDS PER ACRE (2-2.5 POUNDS PER SQUARE YARD). IF NEEDED, TEMPORARY SEEDING (PROVIDED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND EROSION AND SEDIMENT CONTROL GUIDANCE) MAY BE EMPLOYED TO FURTHER MINIMIZE EROSION.
15. TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE, FREE OF SUBSOIL, STONES, ROCKS, ROOTS, BRUSH, REFUSE, CONSTRUCTION DEBRIS AND OTHER DELETERIOUS MATERIALS AND SHALL CONFORM TO SUBSECTION M.18.01 OF THE RIDOT STANDARD SPECIFICATIONS.
16. THE SEEDED MIX SHALL BE INOCULATED WITHIN 24 HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
17. THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING AND BE APPLIED AT A SEEDING RATE OF 100 POUNDS PER ACRE:

COMPONENT	% BY WEIGHT
RED FESCUE	70
KENTUCKY BLUEGRASS	15
COLONIAL BENTGRASS	5
PERENNIAL RYEGRASS	10

18. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1 - JUNE 1 AND AUGUST 15 - OCTOBER 15.
19. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 14 DAYS OF FINAL GRADING. PLANTING OF GRASS SHALL BE ACCOMPLISHED BY THE CONTRACTOR AS EARLY AS POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION.
20. THE CONTRACTOR MUST REPAIR AND OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE (1) CALENDAR YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.

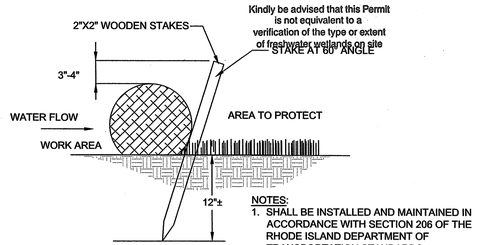
RI Environmental Management
JAN 13 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION #: 22-0308
DATED: MAR 2 9 2023
SEE LETTER OF SAME DATE
Nancy L. Freeman

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



NOTES:
1. SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 206 OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

8-INCH COMPOST FILTER SOCK (CFS)
NOT TO SCALE

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Key Plan:

No.	Revision/Issue	Date

Fine Arts Center
Phase I B

DETAILS

Project	21225
Scale	
Date	JANUARY 2023
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LEGEND

EXISTING WATER	TEP TIE EXISTING PIPE INTO NEW STRUCTURE
EXISTING GAS	TNP TIE NEW PIPE INTO EXISTING STRUCTURE
EXISTING SEWER	4.3.0 PRECAST CONCRETE FLARED END SECTION
EXISTING DRAINAGE PIPE	4.2.0 PRECAST 4'-0" ROUND MANHOLE
EXISTING ELECTRIC	4.4.0 PRECAST 4'-0" CATCH BASIN
EXISTING TELEPHONE	6.2.0 LIGHT-DUTY ROUND FRAME AND COVER
EXISTING CABLE	6.2.1 HEAVY-DUTY ROUND FRAME AND COVER
ABANDON DRAINAGE PIPE	6.4.0 ROUND FRAME AND GRATE
NEW 6" SEWER	7.1.0 PRE-CAST CONCRETE CURB
NEW 3" WATER	7.1.1 PRE-CAST CONCRETE TRANSITION CURB
NEW UNDERDRAIN	7.1.3 PRE-CAST CONCRETE WHEELCHAIR RAMP TRANSITION CURB
NEW DRAINAGE PIPE	7.3.0 GRANITE CURB
ACB ADJUST CATCH BASIN	43.1.0 CEMENT CONCRETE SIDEWALK
AMH ADJUST MANHOLE	51.1.0 TREE PROTECTION DEVICE
CBP CATCH BASIN PROTECTION	51.1.1 DRIP LINE TREE PROTECTION DEVICE
CG CLEAR & GRUB	
CM CUT TO MATCH PAVEMENT	
CRB CURB BAFFLE (SEE DETAIL)	
CWD CURB WEIR (SEE DETAIL)	
DMGR DUCTILE IRON DOME GRATE	
DMH DISPOSE MANHOLE/ CATCH BASIN	
DP DISPOSE PIPE	
ETR ITEM EXISTING TO REMAIN	
RD ITEM REMOVE AND DISPOSE	
RRP RIPRAP (R-4)	
LOD LIMIT OF DISTURBANCE	
LS LOAM AND SEED	
QPA STORMWATER QUALIFYING PERVIOUS AREA (SEE NOTE 2)	
SMH SEWER MANHOLE	
USCD UNDER SIDEWALK CROSS DRAIN	

NOTES:

1. THE CONTRACTOR SHALL VERIFY DRAINAGE STRUCTURES:
   a. THE CONTRACTOR SHALL VERIFY AND REPORT ALL LOCATIONS, ELEVATIONS, INVERTS, ETC. OF THE STORMWATER AND UNDERDRAIN SYSTEMS. THE REPORT SHALL BE PROVIDED TO THE OWNER / ENGINEER PRIOR TO INITIATING WORK ON ALL COMPONENTS OF THE SYSTEM. THIS REPORT SHALL BE PROVIDED TO THE OWNER / ENGINEER A MINIMUM OF 14-DAYS PRIOR TO INITIATING SAID WORK.
   b. ANY WORK CONDUCTED PRIOR TO APPROVAL BY THE ENGINEER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY AND ALL COSTS INCURRED TO REPAIR THE SYSTEM SHALL BE THE PAID BY THE CONTRACTOR, AND THE CONTRACTOR SHALL BE HELD ACCOUNTABLE FOR ALL REPAIRS.
2. THE CONTRACTOR SHALL PROTECT ALL "QUALIFYING PERVIOUS AREAS" FROM COMPACTION THROUGHOUT CONSTRUCTION TO THE MAXIMUM EXTENT AND FOLLOWING COMPLETION OF FINAL GRADING.
3. DO NOT DISCONNECT OR ABANDON IN PLACE ANY EXISTING BUILDING ROOF DRAINS UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL INSPECT ALL DRAINAGE SYSTEM ELEMENTS PRIOR TO REMOVAL TO ENSURE EXISTING BUILDING ROOF DRAINS REMAIN UNDISTURBED. SEE NOTE 1.

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Key Plan:

No.	Revision/Issue	Date

Fine Arts Center Phase I B

SITE PLAN

Project	21225
Scale	1" = 30'
Date	28 JUNE 2022
Drawn By	LBD
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Sheet	C-2.01

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3. ANY DAMAGE CAUSED BY THE CONTRACTOR TO EXISTING CURBING, SIDEWALKS, PAVEMENTS, FENCES, OR OTHER SITE FEATURES TO REMAIN IN PLACE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL EXCESS EXCAVATED PAVEMENTS, CURBING, SIDEWALKS, CURB STOPS, AND OTHER CONSTRUCTION WASTE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENTS FROM DEWATERING OPERATION DISCHARGES THROUGH THE USE OF STILLING BASINS, FILTER FABRIC DEVICES, AND/OR OTHER SUITABLE MEANS AS APPROVED BY THE ENGINEER.

6. THE CONTRACTOR SHALL PROVIDE CONTINUOUS DUST CONTROL (USING WATER AND/OR CALCIUM CHLORIDE OR OTHER APPROVED METHODS) FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS AND SURFACES OF BACK FILLED TRENCHES, IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

7. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED NOTICES AND COMPLY WITH ALL PERMITS, LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN AND SPECIFIED IN THE CONTRACT DOCUMENTS.

8. EXISTING UTILITIES HAVE BEEN PLOTTED FROM BEST AVAILABLE DATA AND ARE APPROXIMATE ONLY. IN ACCORDANCE WITH CURRENT STATE "DIG SAFE" LAWS AND RULES, THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE SYSTEM ELEMENTS AND UTILITIES (BOTH UNDERGROUND AND OVERHEAD) BEFORE ANY EXCAVATION MAY COMMENCE. THE CONTRACTOR IS ADVISED THAT (A) NOT ALL UTILITY PROVIDERS SUBSCRIBE TO THE DIG SAFE PROGRAM, AND (B) IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL POTENTIALLY AFFECTED UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO THE COMMENCEMENT OF WORK. EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY MUNICIPAL, STATE OR FEDERAL AGENCY OR AUTHORITY HAVING JURISDICTION OVER THE WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD OR UNMARKED UTILITIES (AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY) SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.

9. THE CONTRACTOR IS ADVISED THAT WORK UNDER EXISTING OVERHEAD UTILITIES MAY BE REQUIRED, AND THAT MINIMUM CLEARANCES SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. THIS MAY REQUIRE SPECIAL MEANS AND METHODS IN ORDER TO PROPERLY COMPLETE THE WORK. SHOULD THE CONTRACTOR ELECT TO RELOCATE EXISTING OVERHEAD UTILITIES, THEN THE CONTRACTOR SHALL CONDUCT ALL COORDINATION WITH THE AFFECTED UTILITY COMPANIES AND BEAR ALL COSTS ASSOCIATED WITH UTILITY RELOCATIONS NOT INCLUDED IN THE CONTRACT.

10. PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING PIPES AND/OR STRUCTURES WHICH ARE TO BE CONNECTED OR REMOVED. ANY VARIATION FROM THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION, WHEREUPON WORK CAN COMMENCE ONLY UPON THE ENGINEER'S AUTHORIZATION.

11. ALL EXISTING PIPE, SUBSURFACE STRUCTURES, PAVEMENTS, EXCESS EXCAVATED MATERIALS AND MISCELLANEOUS MATERIALS REMOVED IN THE COURSE OF UTILITY WORK (INSTALLATION OF DRAINAGE, WATER AND SEWER PIPING, ETC.) SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR AT AN OFFSITE LOCATION.

12. WHERE UNDERGROUND UTILITY CROSSINGS ARE REQUIRED, AT LEAST TWO (2) TEST PITS SHALL BE DUG TO DETERMINE THE LOCATION/DEPTH AND MATERIAL OF THE EXISTING UTILITY.

13. UTILITY SERVICES TO EXISTING BUILDINGS AND FACILITIES SHALL BE MAINTAINED AT ALL TIMES FOR THE DURATION OF CONSTRUCTION.

14. THE CONTRACTOR SHALL ADJUST ALL UTILITY BOXES, FRAMES, AND COVERS AS REQUIRED TO MATCH FINISH GRADE.

15. THIS PLAN SET REVERENCES RIDOT STANDARD DETAILS (DESIGNATED AS RIDOT STD (X.X.X). RIDOT STANDARD DETAILS ARE AVAILABLE AT: HTTP://WWW.DOT.RI.GOV/BUSINESS/CONTRACTORSANDCONSULTANTS.PHP.

16. ANY PROPRIETARY PRODUCTS REFERENCED IN THIS PLAN SET ARE REPRESENTATIVE OF THE MINIMUM DESIGN REQUIREMENTS FOR THE PURPOSE IT PROPOSES TO SERVE. ALTERNATIVES TO ANY PROPRIETARY PRODUCT MAY BE SUBMITTED TO THE ENGINEER OF RECORD FOR CONSIDERATION, WHICH MUST BE ACCOMPANIED BY APPROPRIATE SPECIFICATION SHEETS/DESIGN CALCULATIONS THAT DEMONSTRATE THE ALTERNATIVE(S) MEET THE MINIMUM DESIGN PARAMETERS OF THE PRODUCTS SHOWN ON THE PLANS. NO ALTERNATIVES MAY BE USED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.

DRAINAGE NOTES:

1. ALL DRAINAGE PIPING TO BE HIGH-DENSITY POLYETHYLENE (HDPE) WITH WATERTIGHT JOINTS WHERE INSTALLED WITHIN THE SEASONAL HIGH GROUNDWATER, UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICTIONS.

2. ALL DRAINAGE STRUCTURES MUST BE WATERTIGHT, UNLESS NOTED.

EROSION AND SEDIMENT CONTROL NOTES

1. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES TO BE EMPLOYED ON THE PROJECT ARE INDICATED ON THE PLANS. CONTROL MEASURES SHALL BE FURNISHED, INSTALLED, MAINTAINED FOR THE DURATION OF CONSTRUCTION, AND SUBSEQUENTLY REMOVED, ALL IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS, THE LATEST EDITION OF THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" (REVISED 2014), AND ANY SITE-SPECIFIC EROSION AND SEDIMENT CONTROL / POLLUTION PREVENTION PLAN INCLUDED IN THE CONTRACT DOCUMENTS.

2. ALL CLEARING, GRADING AND EARTHWORK ACTIVITIES SHALL REMAIN STRICTLY WITHIN THE LIMITS OF DISTURBANCE (LOD) DEPICTED ON THE PLANS AND SHALL BE RESTRICTED TO ACTIVITIES NECESSARY FOR COMPLETION OF THE WORK. THE CONTRACTOR SHALL ENSURE THAT ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE REMAIN UNDISTURBED AND PROTECTED FROM CONSTRUCTION IMPACTS.

3. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS, THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, AND THE APPLICABLE CONDITIONS OF ANY REGULATORY/ENVIRONMENTAL PERMITS ISSUED FOR THE PROJECT.

4. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES, EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT LOCATIONS AND AREAS SHOWN ON THE PLANS. CLEARING MAY OCCUR PRIOR TO INSTALLATION OF SUCH CONTROLS; HOWEVER NO GRUBBING, GRADING, FILLING, OR OTHER SOIL DISTURBANCE SHALL OCCUR PRIOR TO INSTALLATION.

5. PERIMETER EROSION CONTROL BARRIERS (STAKED COMPOST FILTER SOCK, SILT FENCE, OR OTHER DEVICES AS INDICATED) SHALL BE INSTALLED IN CONTINUOUS UNINTERRUPTED RUNS AT THE LOCATIONS INDICATED ON THE PLANS AND MAINTAINED IN EFFECTIVE CONDITION UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. FOLLOWING SUCCESSFUL STABILIZATION OF DISTURBED AREAS, ALL PERIMETER EROSION CONTROL BARRIERS SHALL BE REMOVED. PRIOR TO REMOVAL OF THE DEVICES, ALL ACCUMULATED SEDIMENT AND DEBRIS TRAPPED BY THE BARRIERS SHALL BE REMOVED AND DISPOSED OF LEGALLY AT A SUITABLE OFFSITE LOCATION.

6. THE TOE OF ANY FILL SLOPE IS TO REMAIN AT LEAST ONE (1) FOOT INSIDE OF ALL PERIMETER EROSION CONTROL BARRIERS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR COVER ANY PORTION OF THE EROSION CONTROL MEASURES WITH MATERIAL. ANY MATERIAL THAT IS PLACED ON ANY EROSION CONTROLS BY THE CONTRACTOR (OR ANY AGENT OF THE CONTRACTOR) SHALL BE IMMEDIATELY REMOVED, AND ANY NECESSARY REPAIRS TO THE EROSION CONTROLS SUBSEQUENTLY IMPLEMENTED AT NO COST TO THE OWNER.

7. UNTIL VEGETATIVE COVER IS ESTABLISHED AND DISTURBED AREAS ARE FULLY STABILIZED, TRAPPED SEDIMENTS SHALL BE PERIODICALLY REMOVED FROM PERIMETER EROSION CONTROL BARRIERS. AT A MINIMUM, MATERIAL SHALL BE REMOVED ONCE THE DEPTH OF ACCUMULATED SEDIMENT REACHES SIX (6) INCHES OR ONE-HALF THE BARRIER HEIGHT, WHICHEVER IS LESS. ALL REMOVED MATERIAL SHALL BE DISPOSED OF LEGALLY AT A SUITABLE OFFSITE LOCATION.

8. ALL MATERIAL STOCKPILES SHALL BE LOCATED WITHIN THE LIMITS OF DISTURBANCE (LOD) DEPICTED ON THE PLANS AND SHALL BE SURROUNDED BY A SECURED PERIMETER OF COMPOST FILTER SOCK.

9. ALL EXISTING AND CONSTRUCTED DRAINAGE SYSTEM INLETS SHALL BE PROVIDED WITH INLET PROTECTION DEVICES (FILTER BAGS/SILT SACKS, SANDBAGS, WATTLES, ETC.) AS INDICATED ON THE PLANS. ALL INLET PROTECTION DEVICES SHALL BE INSTALLED, MAINTAINED, AND CLEANED FOR THE DURATION OF CONSTRUCTION AND UNTIL ALL STORMWATER CONTROLS ARE FULLY STABILIZED AND ONLINE, AT WHICH TIME THEY SHALL BE REMOVED.

10. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.

11. EROSION CONTROL DEVICES SHOULD BE INSPECTED WEEKLY AND AFTER RAINFALL EVENTS EXCEEDING ONE HALF INCH (½") IN ANY 24-HOUR PERIOD. WHERE AND WHEN REQUIRED, MAINTENANCE AND REPAIRS SHALL BE COMPLETED WITH 24 HOURS OF THE INSPECTION.

12. DENUDED/UNVEGETATED SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR PERIODS IN EXCESS OF 2 WEEKS OR THROUGH THE INACTIVE WINTER SEASON.

13. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15 SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.

14. TEMPORARY SURFACE STABILIZATION TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS FIBER MESH, EROSION CONTROL BLANKETS, OR OTHER MATTING. THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS DIRECTED BY THE ENGINEER. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3,000-4,000 POUNDS PER ACRE (1.9-2.5 POUNDS PER SQUARE YARD). IF NEEDED, TEMPORARY SEEDING (PROVIDED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND EROSION AND SEDIMENT CONTROL GUIDANCE) MAY BE EMPLOYED TO FURTHER MINIMIZE EROSION.

15. TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE, FREE OF SUBSOIL, STONES, ROCKS, ROOTS, BRUSH, REFUSE, CONSTRUCTION DEBRIS AND OTHER DELETERIOUS MATERIALS AND SHALL CONFORM TO SUBSECTION M.18.01 OF THE RIDOT STANDARD SPECIFICATIONS.

16. THE SEEDED MIX SHALL BE INOCULATED WITHIN 24 HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.

17. THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING AND BE APPLIED AT A SEEDING RATE OF 100 POUNDS PER ACRE:

COMPONENT	% BY WEIGHT
RED FESCUE	70
KENTUCKY BLUEGRASS	15
COLONIAL BENTGRASS	5
PERENNIAL RYEGRASS	10

18. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1 - JUNE 1 AND AUGUST 15 - OCTOBER 15.

19. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 14 DAYS OF FINAL GRADING. PLANTING OF GRASS SHALL BE ACCOMPLISHED BY THE CONTRACTOR AS EARLY AS POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION.

20. THE CONTRACTOR MUST REPAIR AND OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE (1) CALENDAR YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.

RI Environmental Management
JAN 18 2023
Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION #: 22-0308
DATED: MAR 29 2023
SEE LETTER OF SAME DATE
Nancy L. Freeman

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

NOTE PER DEM:

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THE UNIVERSITY OF RHODE ISLAND

45 Upper College Rd,
Kingston, RI 02881
401-874-1000

Stamp

TODD A. RAVENELLE
No. 5928
REGISTERED PROFESSIONAL ENGINEER

Architect
KMW Architecture
98 Magazine Street,
Roxbury, MA 02119
617-267-0808

Associate Architect
Brewster Thornton Group
150 Chestnut Street
Providence, RI 02903
401-861-5588

Structural Engineers
Odeh Associates
1223 Mineral Springs Avenue
North Providence, RI 02904
401-724-1771

MEP Engineers
BER
66 Main Street
North Easton, MA 02356
508-230-0260

Cost
Deadalus Projects Inc.
1 Faneuil Hall Marketplace
South Market Building 4195
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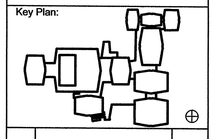
CAVANAUGH TOCCi
327 F Boston Post Road
Sudbury, MA 01776-3027
978-443-7871

Key Plan:

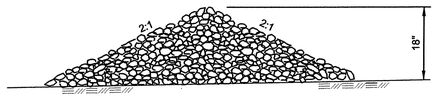


No.	Revision/Issue	Date

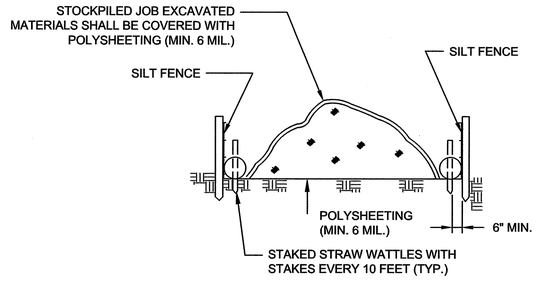
Fine Arts Center Phase I B

NOTES

Project	21225
Scale	AS NOTED
Date	28 JUNE 2022
Drawn By	LBD
Checked By	TAR
Sheet	C-2.02

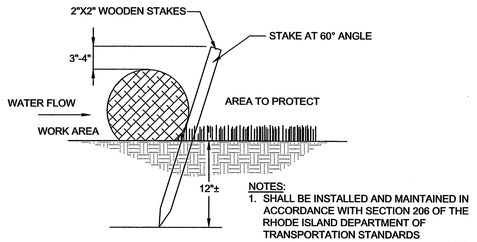


STONE BAFFLE (SB)
NOT TO SCALE



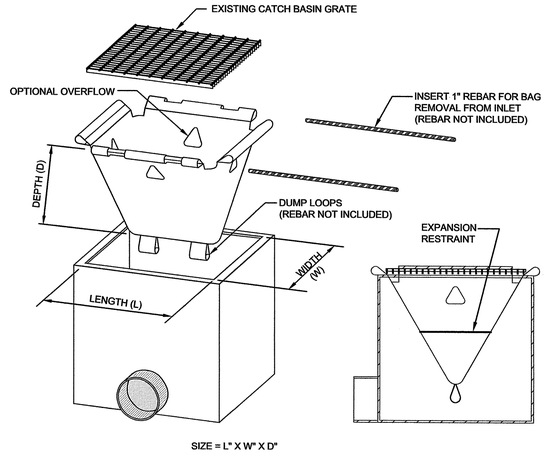
ELEVATION

STOCKPILED MATERIAL
NOT TO SCALE



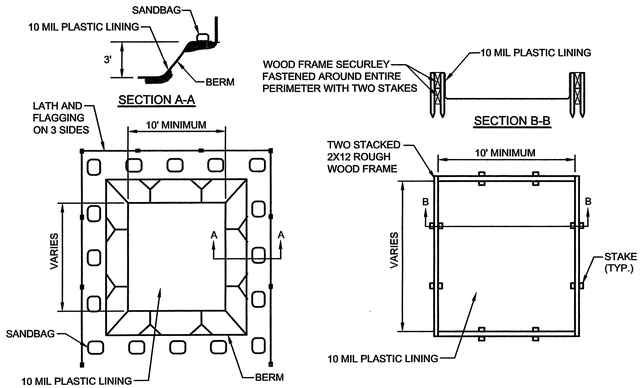
NOTES:
1. SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 206 OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

8-INCH COMPOST FILTER SOCK (CFS)
NOT TO SCALE



SIZE = L" X W" X D"

CATCH BASIN INLET PROTECTION TYPE A (CBP)
NOT TO SCALE

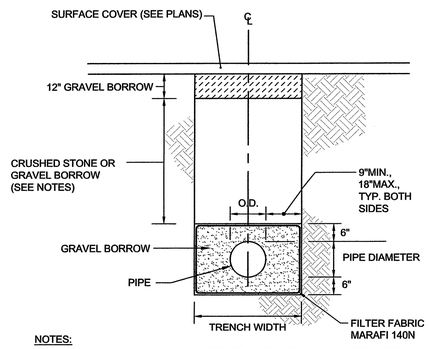


PLAN
TYPE "BELOW GRADE
NOT TO SCALE

PLAN
TYPE ABOVE GRADE
WITH WOOD PLANKS

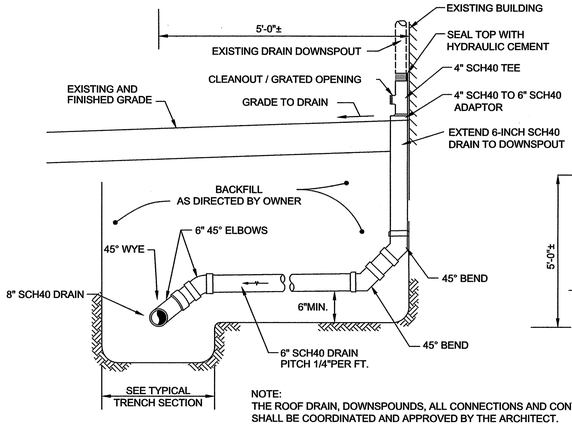
- SELF-INSTALLED ABOVE GRADE WASHOUTS ON LARGER SITES MUST BE AT LEAST 10 FEET BY 10 FEE LONG AND SIZED TO CONTAIN ALL LIQUID AND SOLID WASTE EXPECTED TO BE GENERATED IN BETWEEN CLEANOUT PERIODS. WASHOUTS AT SMALLER SITES CAN BE SMALLER ACCORDING T THE EXPECTED CAPACITY NEEDED. INCLUDE A MINIMUM OF 12-INCH FREEBOARD IN THE SIZING CALCULATIONS. ONE CAN MAKE THE STRUCTURES FROM STAKED STRAW BALES OR SANDBAGS DOUBLE OR TRIPLE-LINED WITH PLASTIC SHEETING OF AT LEAST 10-MIL THICKNESS THAT HAS NO HOLES OR TEARS.
- SELF-INSTALLED BELOW-GRADE WASHOUTS SHOULD BE CONSTRUCTED AS SHOWN ON THE DETAILS AT THE END OF THIS MEASURE, WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 10 FT. THEY MUST BE SIZED TO CONTAIN ALL LIQUID AND SOLID WASTE EXPECTED TO BE GENERATED IN BETWEEN CLEANOUT PERIODS.
  LATH AND FLAGGING SHOULD BE COMMERCIAL TYPE.
  PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

TEMPORARY CONCRETE WASHOUT
NOT TO SCALE



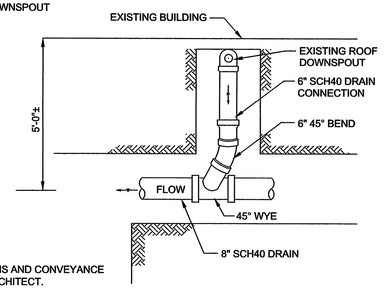
NOTES:
1. SUITABLE MATERIAL EXCAVATED FROM THE TRENCH MAY BE USED FOR PIPE BEDDING.
2. CRUSHED STONE SHALL BE USED FOR STORM DRAIN PIPE.
3. GRAVEL BORROW SHALL BE USED FOR WATER MAIN PIPE.

TYPICAL PIPE TRENCH DETAIL
NOT TO SCALE

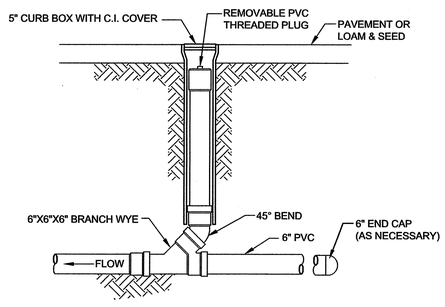


NOTE:
THE ROOF DRAIN, DOWNSPOUNDS, ALL CONNECTIONS AND CONVEYANCE SHALL BE COORDINATED AND APPROVED BY THE ARCHITECT.

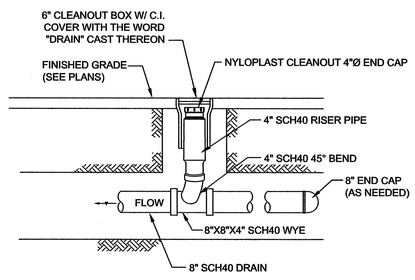
TYPICAL DRAIN CONNECTION DETAIL
NOT TO SCALE



TYPICAL DRAIN CONNECTION - PLAN VIEW
NOT TO SCALE



CLEANOUT DETAIL
NOT TO SCALE



ROOF CONVEYANCE CLEANOUT DETAIL
NOT TO SCALE

RI Environmental Management
JAN 18 2023
Office of Water Resources

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Key Plan:

No.	Revision/Issue	Date

Fine Arts Center Phase I B

DETAILS 1

Project	21225
Scale	AS NOTED
Date	28 JUNE 2022
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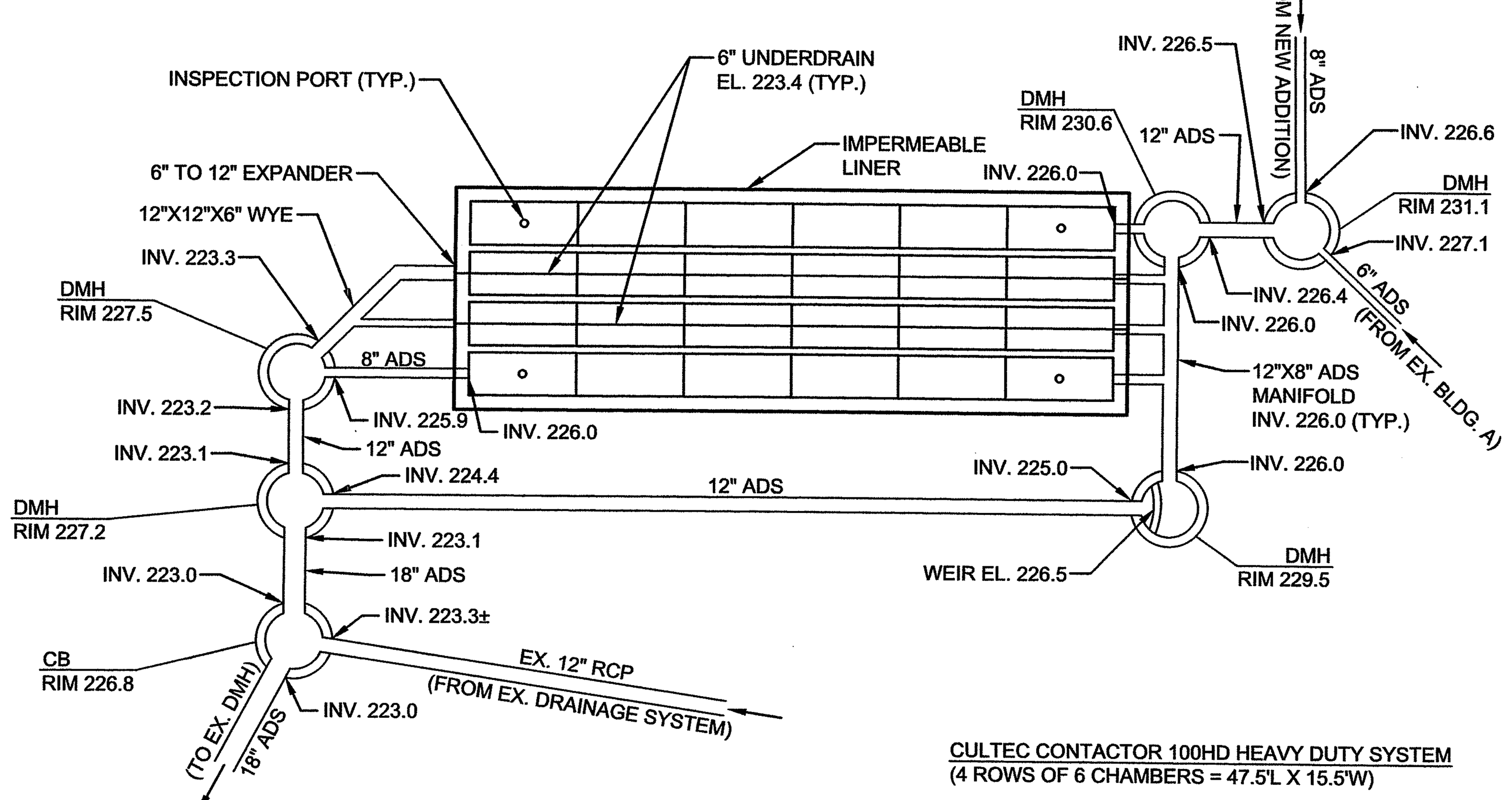
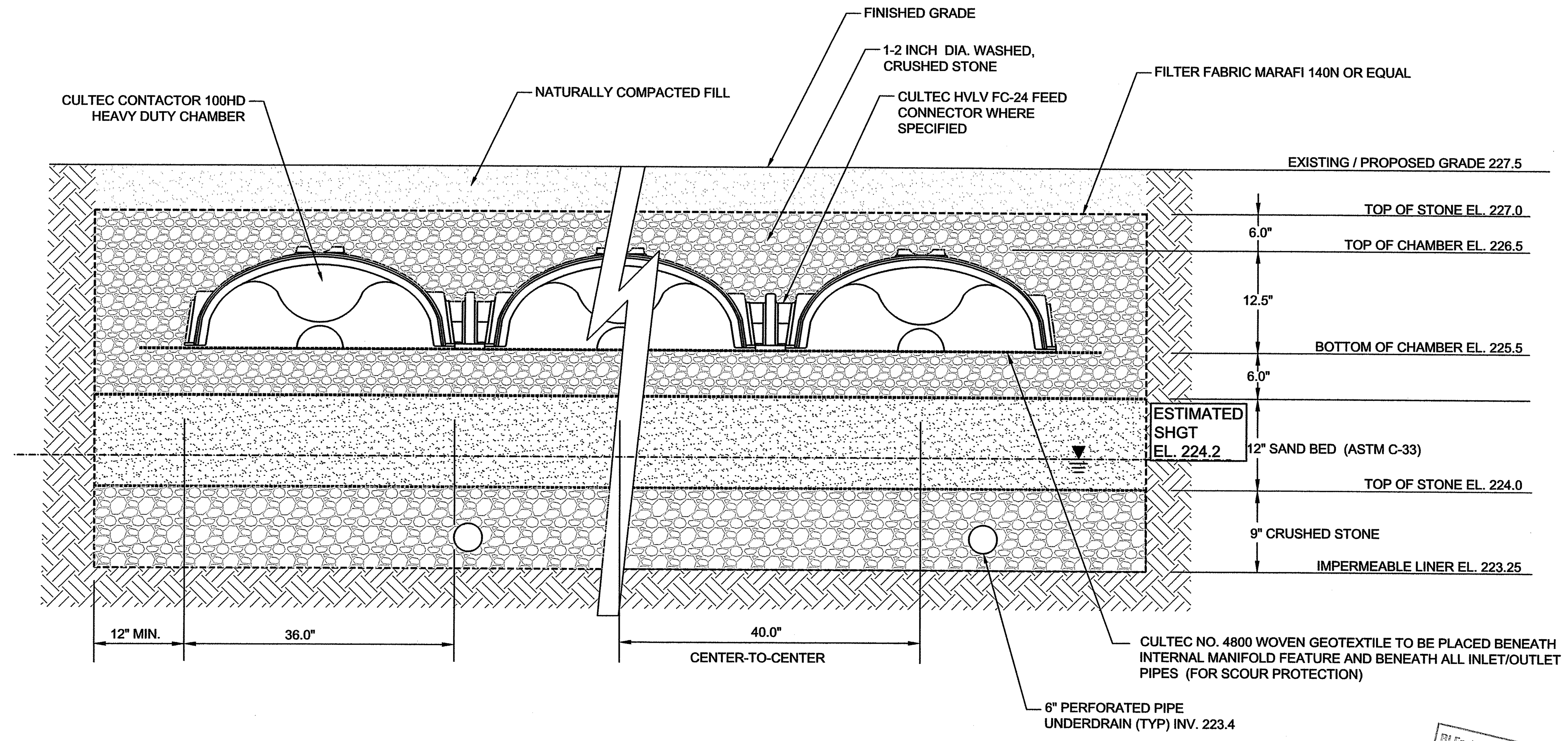


LINED SUBSURFACE SAND FILTER SYSTEM PLAN VIEW (BMP-4)

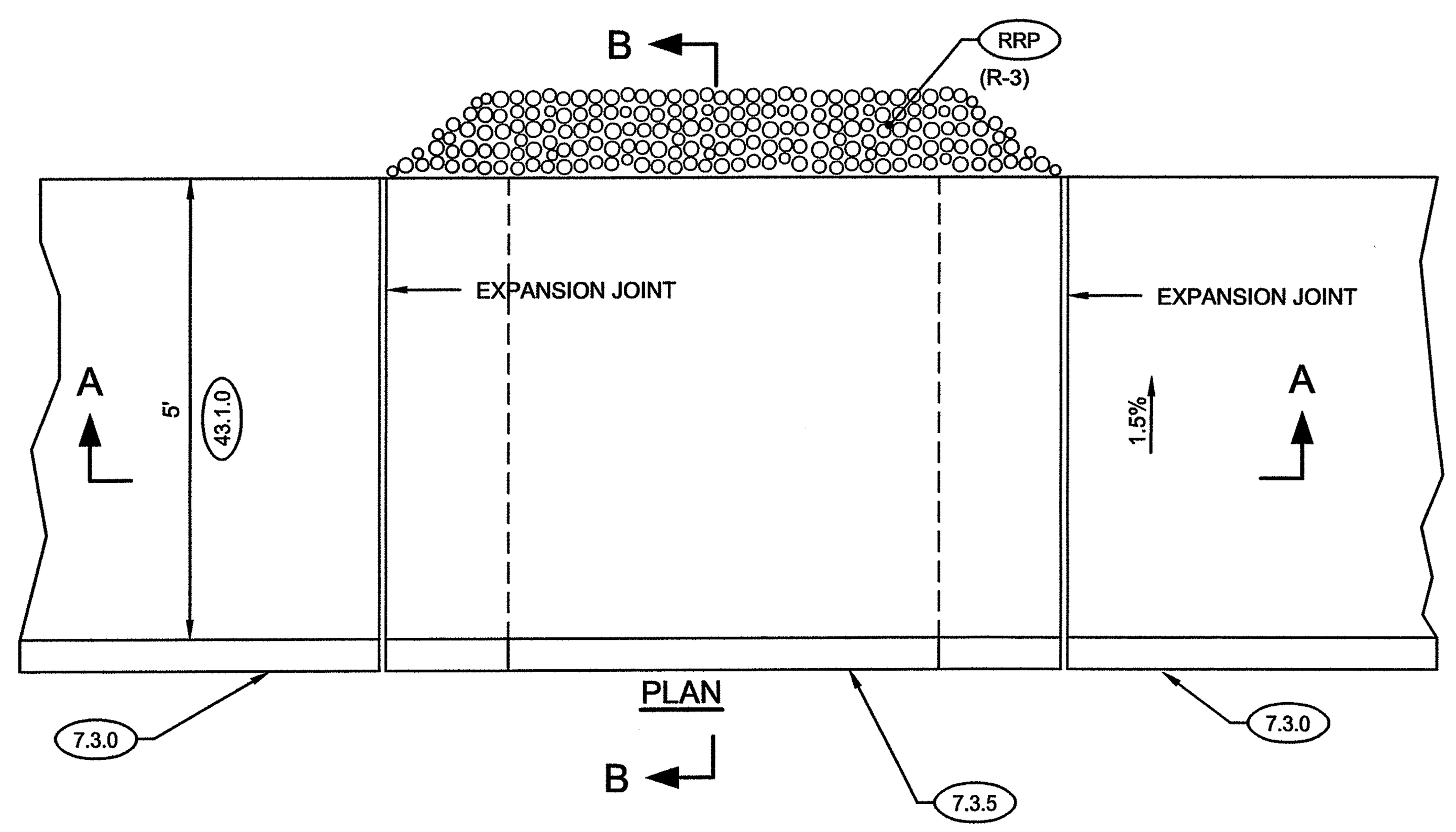
NOT TO SCALE

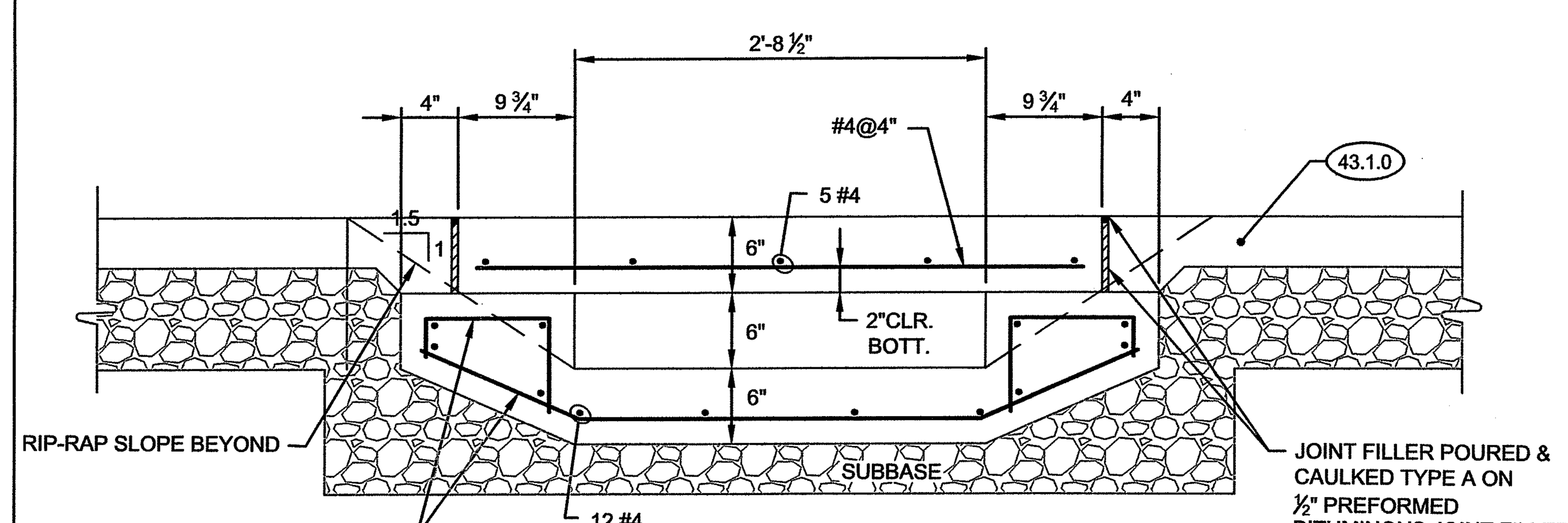


CULTEC CONTACTOR 280HD HEAVY DUTY SYSTEM CROSS SECTION

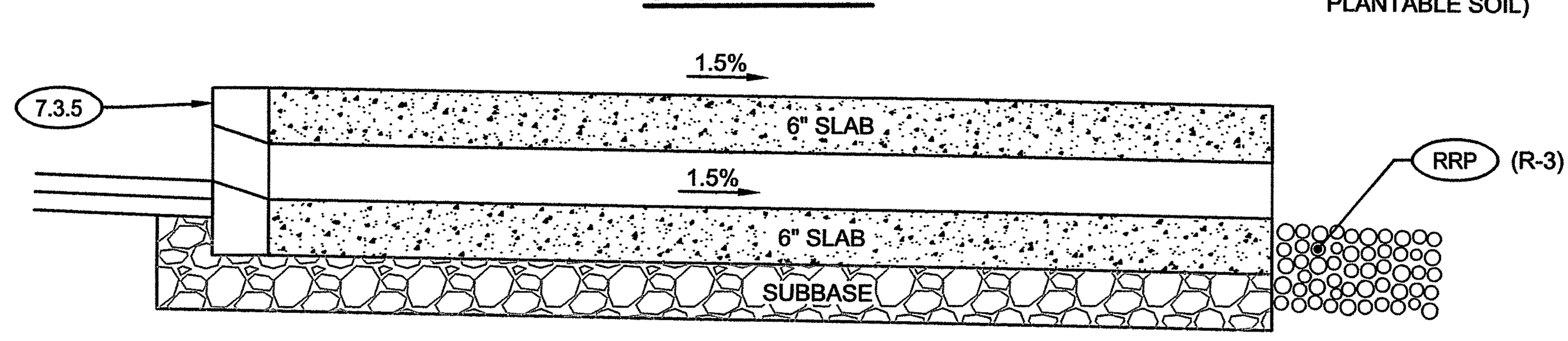
NOT TO SCALE

RI Environmental Management
JAN 1 8 2023
Office ...





SECTION A - A



SECTION B - B

NOTES:

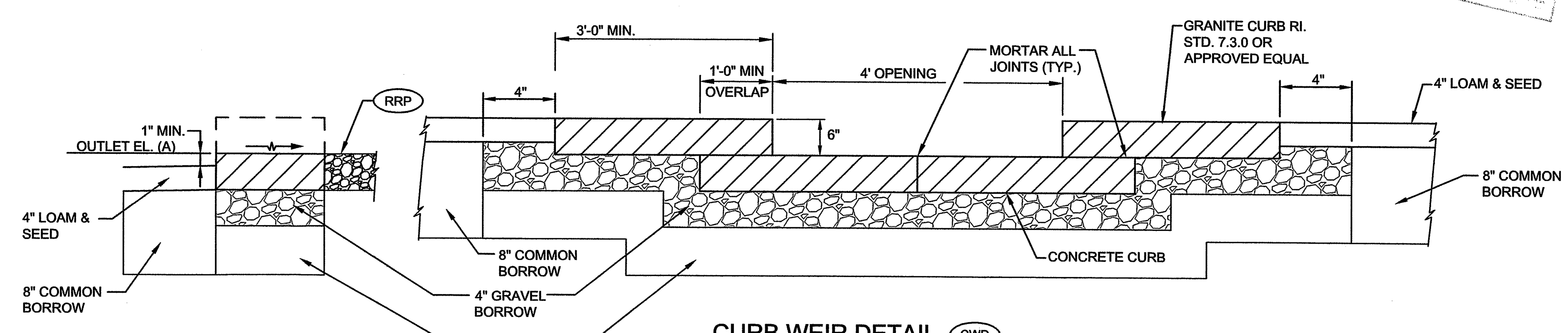
1. CONCRETE SHALL BE CLASS XX.
2. REINFORCING SHALL CONFORM TO SECTION M.05.01 OF THE RI STD. SPEC.
3. INVERT OF DRAIN SHALL BE SET BASED ON GRADING PLAN.
4. RIPRAP AT THE BACK OF SIDEWALK SHALL BE GRADED TO MATCH EXISTING GRADE AT A SLOPE OF 1.5:1 OR FLATTER.

UNDER SIDEWALK CROSS DRAIN (USCD)

NOT TO SCALE

STORMWATER NOTES

1. BIORETENTION MEDIA SHALL BE A SANDY LOAM, LOAMY SAND, LOAM (USDA), OR A LOAM / SAND MIX. THE SOIL SHALL BE FREE OF STONES, STUMPS, ROOTS, OTHER WOODY MATERIAL OVER 1-INCH DIAMETER, AND WEEDS.
2. PLACEMENT OF THE SOIL SHALL BE IN LIFTS OF 12-INCHES TO 18-INCHES, LOOSELY COMPACTED.
3. THE BIORETENTION MEDIA SHALL UTILIZE PLANTING SOIL HAVING A COMPOSITION AS FOLLOWS:
   - 85 TO 88 % SAND
   - 8 TO 12 % SOIL FINES
   - 3 TO 5 % ORGANIC MATTER
4. AN ALTERNATIVE MEDIA MEETING THE REQUIREMENTS OF "ENGINEERED MEDIA" PER THE RIDOT LINEAR MANUAL MAY BE UTILIZED FOLLOWING APPROVAL FROM THE ENGINEER.
   a. 30-INCHES OF BIORETENTION SOILS MEETING THE FOLLOWING:
      i. MIXTURE 1: 60 TO 70 % SAND
         15 TO 25 % TOP SOIL (SANDY LOAM)
         15 TO 25 % ORGANIC MATTER
      ii. MIXTURE 2: 70 TO 85 PERCENT SAND
         15 TO 30 PERECENT ORGANIC MATTER
5. CRUSHED STONE SHALL BE CLEAN STONE CONFORMING TO GRADATION LISTED IN SECTION M.01.09, TABLE I, COLUMN II OF THE RIDOT STANDARDS.



SIDE VIEW

NOT TO SCALE

CURB WEIR DETAIL (CWD)

NOT TO SCALE

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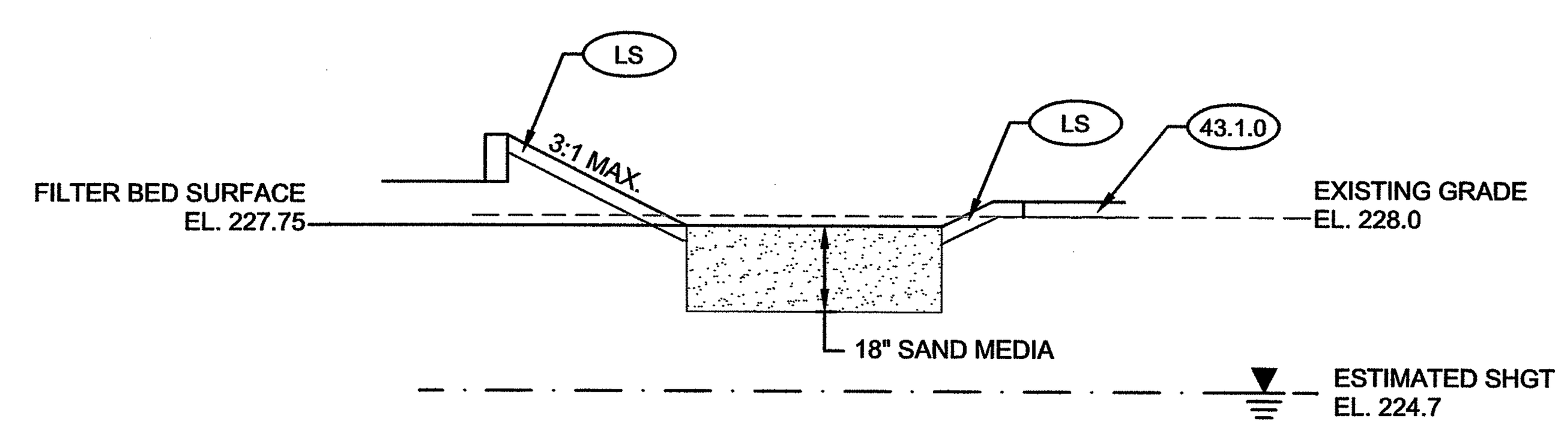
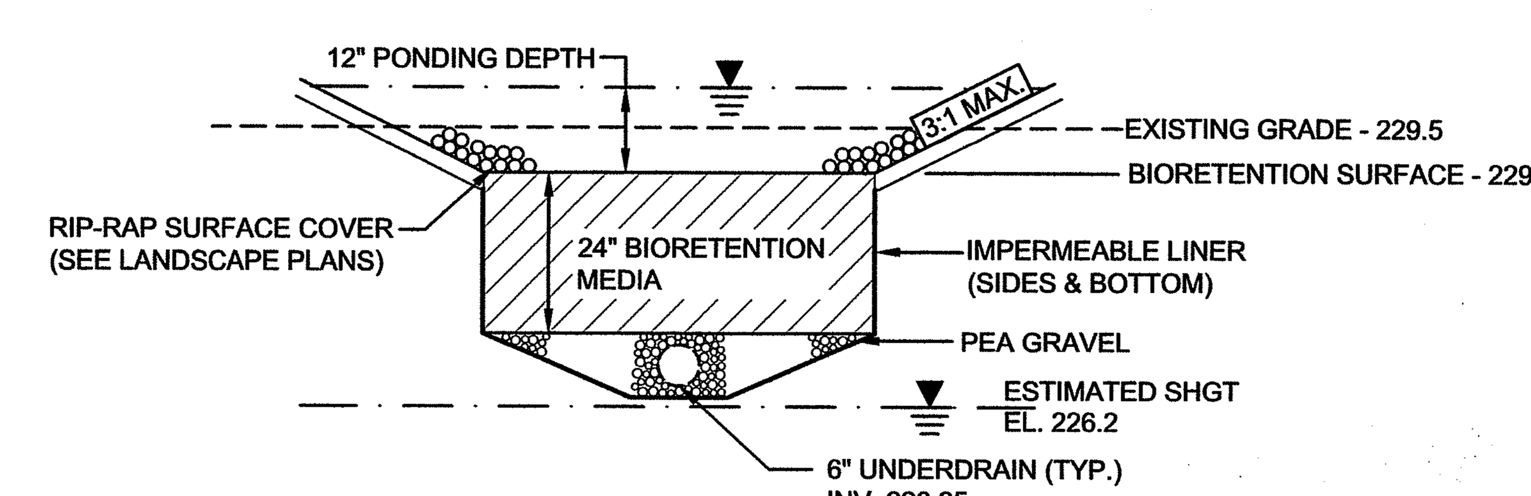


TYPICAL SAND FILTER DETAIL (BMP-3)

NOT TO SCALE



TYPICAL BIORETENTION FILTER DETAIL (BMP-2)

NOT TO SCALE

NOTE:
BIORETENTION MEDIA SHALL CONSIST OF UNITED STATES DEPARTMENT OF AGRICULTURE LOAMY SAND TO SANDY LOAM CLASSIFICATION AND MEET THE FOLLOWING GRADATION: SAND 85-88%, SILT 8-12%, CLAY 0-2%, AND ORGANIC MATTER (IN THE FORM OF LEAF COMPOST) 3-5%.

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

NOTE PER DEM:

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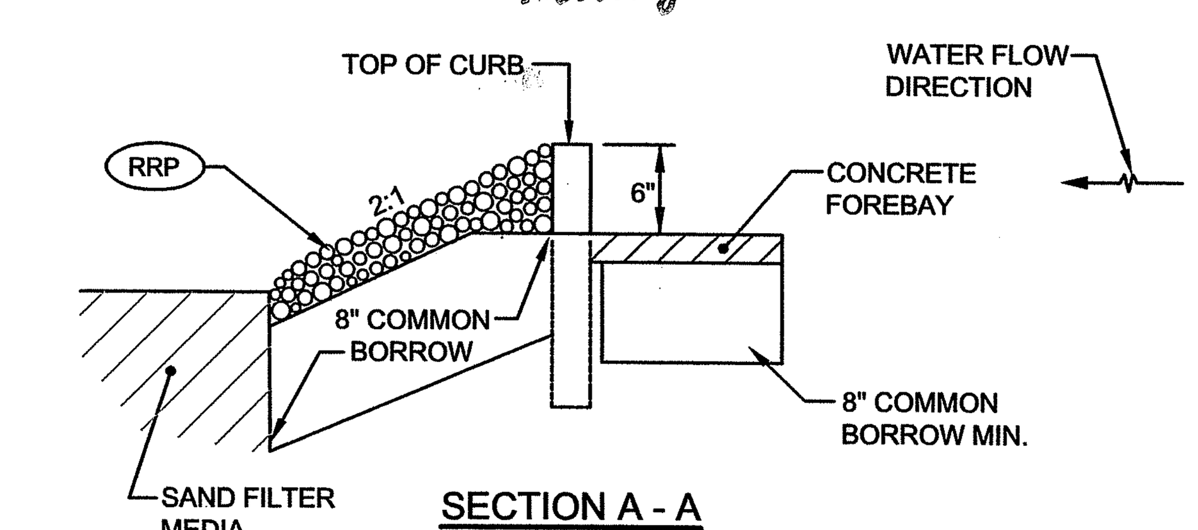
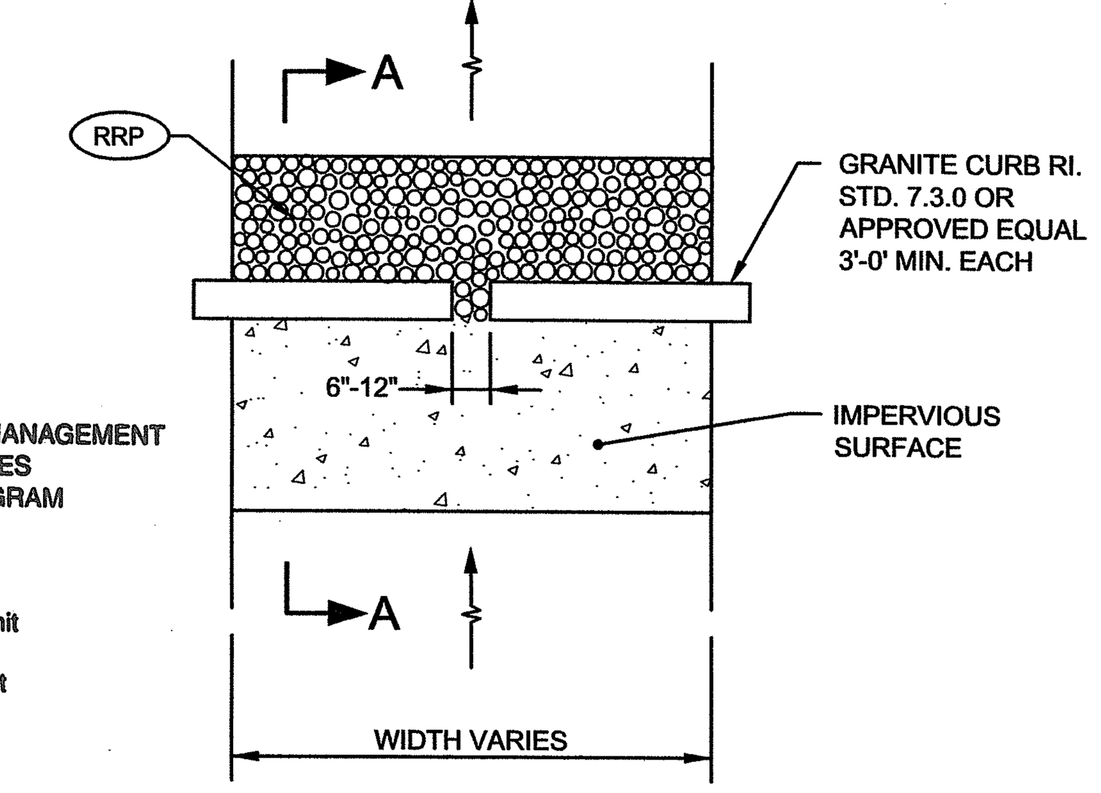


SECTION A - A



PLAN

NOTE:

1. THE STORMWATER FOREBAYS IMPERVIOUS SURFACE SHALL BE 2-INCHES OF CONCRETE PAVEMENT WITH BRUSH FINISH, OR AN APPROVED EQUAL.

CURB BAFFLE (CRB)

NOT TO SCALE

THE UNIVERSITY OF RHODE ISLAND

45 Upper College Rd, Kingston, RI 02881 401-874-1000

Stamp

TODD A. RAVENELLE
No. 5928
REGISTERED PROFESSIONAL ENGINEER

Architect
KMW Architecture
98 Magazine Street, Roxbury, MA 02119
617-267-0808

Associate Architect
Brewster Thornton Group
150 Chestnut Street
Providence, RI 02903
401-861-5588

Structural Engineers
Odeh Associates
1223 Mineral Springs Avenue
North Providence, RI 02904
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Pawtucket, RI 02860
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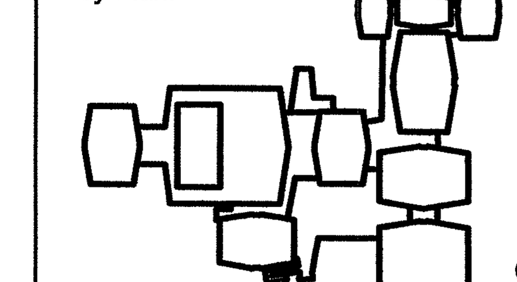
327 F Boston Post Road
Sudbury, MA 01776-3027
978-443-7871

Key Plan:

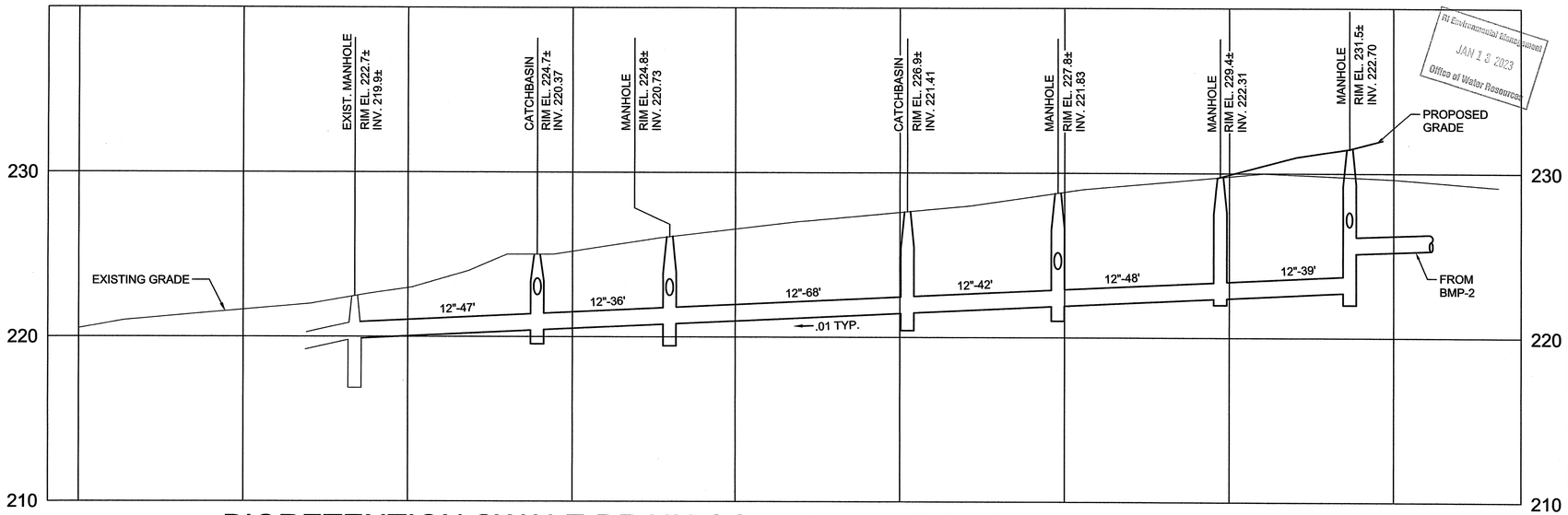


No.	Revision/Issue	Date

Fine Arts Center Phase I B

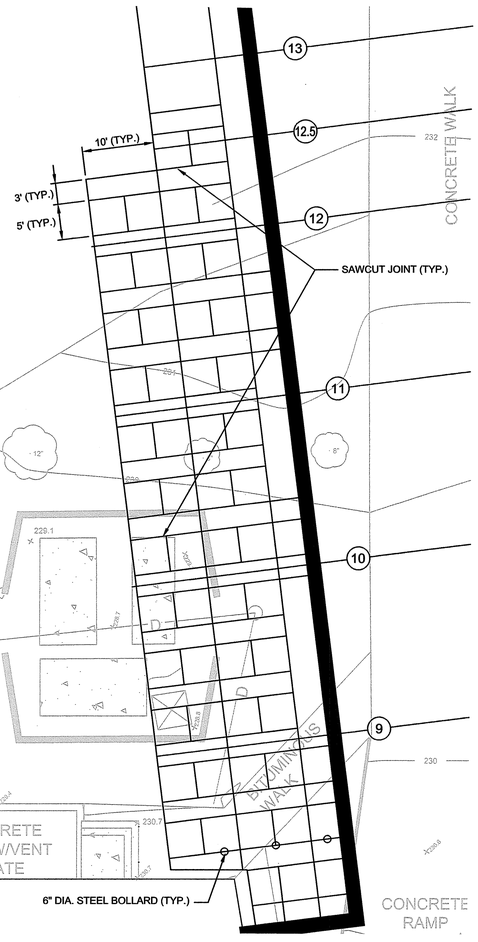
DETAILS 2

Project	21225
Scale	AS NOTED
Date	28 JUNE 2022
Drawn By	LBD
Checked By	TAR
Sheet	C-2.04



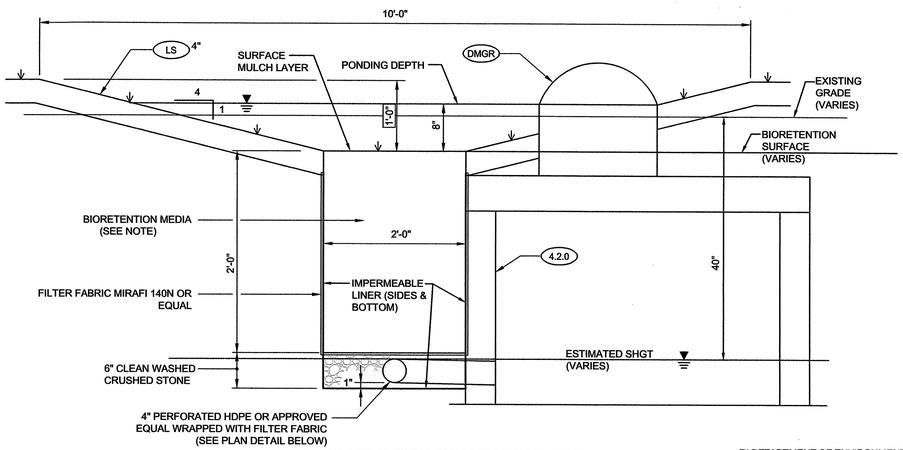
BIORETENTION SWALE DRAIN CONVEYANCE PROFILE

SCALE: HORIZ. 1" = 40'
VERT. 1" = 8'



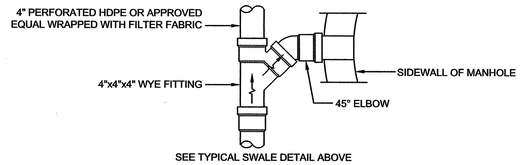
SCULPTURE WORK AREA / SERVICE ACCESS

SCALE: 1" = 10'



TYPICAL BIORETENTION SWALE DETAIL (BMP-1)

SCALE: 1"=1'-0"



PLAN DETAIL OF 4" PIPE

SCALE: 1"=1'-0"

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
REVIEWED SITE PLAN APPLICATION #: 22-0308
DATED: MAR 29 2023
SEE LETTER OF SAME DATE
Nancy L. Freeman

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

NOTE PER DEM:

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RI Environmental Management
JAN 18 2023
Office of Water Resources

THE UNIVERSITY OF RHODE ISLAND
45 Upper College Rd.
Kingston, RI 02881
401-874-1000

Stamp

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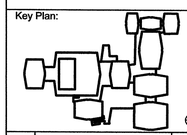
Key Plan:



No.	Revision/Issue	Date

Fine Arts Center Phase I B

DETAILS 3

Project	21225
Scale	AS NOTED
Date	28 JUNE 2022
Drawn By	LBD
Checked By	TAR
Sheet	C-2.05

GENERAL NOTES

CULTEC RECHARGER® 280HD SPECIFICATIONS

CHAMBER PARAMETERS

1. THE CHAMBERS WILL BE MANUFACTURED IN THE U.S.A. BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832) OR APPROVED EQUAL.
2. THE CHAMBER WILL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE).
3. THE CHAMBER WILL BE ARCHED IN SHAPE.
4. THE CHAMBER WILL BE OPEN-BOTTOMED.
5. THE CHAMBER WILL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS.
6. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 280HD SHALL BE 26.5 INCHES TALL, 47 INCHES WIDE AND 8 FEET LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 280HD SHALL BE 7 FEET.
7. MAXIMUM INLET OPENING ON THE CHAMBER ENDWALL IS 18 INCHES.
8. THE CHAMBER WILL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV® FC-24 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. NOMINAL INSIDE DIMENSIONS OF THE SIDE PORTAL SHALL HAVE A WIDTH OF 11.25" AND HEIGHT OF 11.5" THE SIDE PORTAL CAN ACCEPT A MAXIMUM OUTER DIAMETER (O.D.) PIPE SIZE OF 12.25 INCHES .
9. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV® FC-24 FEED CONNECTOR SHALL BE 12 INCHES TALL, 16 INCHES WIDE AND 24.2 INCHES LONG.
10. THE NOMINAL STORAGE VOLUME OF THE RECHARGER 280HD CHAMBER WILL BE 6.079 FT3 / FT - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 280HD SHALL BE 42.553 FT^3 / UNIT - WITHOUT STONE.
11. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR WILL BE 0.913 FT^3 / FT - WITHOUT STONE.
12. THE RECHARGER 280HD CHAMBER WILL HAVE A MINIMUM OF EIGHTY-TWO DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
13. THE RECHARGER 280HD CHAMBER SHALL HAVE 15 CORRUGATIONS.
14. THE ENDWALL OF THE CHAMBER, WHEN PRESENT, WILL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT.
15. THE RECHARGER 280RHD STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL ENDWALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
16. THE RECHARGER 280SHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 9 INCHES HIGH X 35 INCHES WIDE.
17. THE RECHARGER 280IHD INTERMEDIATE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY OPEN ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 9 INCHES HIGH X 35 INCHES WIDE.
18. THE RECHARGER 280EHD END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR END WALLS.
19. THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT WILL FIT INTO THE SIDE PORTALS OF THE RECHARGER 280HD AND ACT AS CROSS FEED CONNECTIONS.
20. CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
21. HEAVY DUTY UNITS ARE DESIGNATED BY A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
22. THE CHAMBER WILL HAVE A RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
23. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
24. THE CHAMBER SHALL BE MANUFACTURED IN AN IN AN ISO 9001:2008 CERTIFIED FACILITY
25. MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 FEET.

CULTEC HVLV® FC-24 FEED CONNECTOR PRODUCT SPECIFICATIONS

GENERAL

CULTEC HVLV FC-24 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER 280HD STORMWATER CHAMBERS.

CHAMBER PARAMETERS

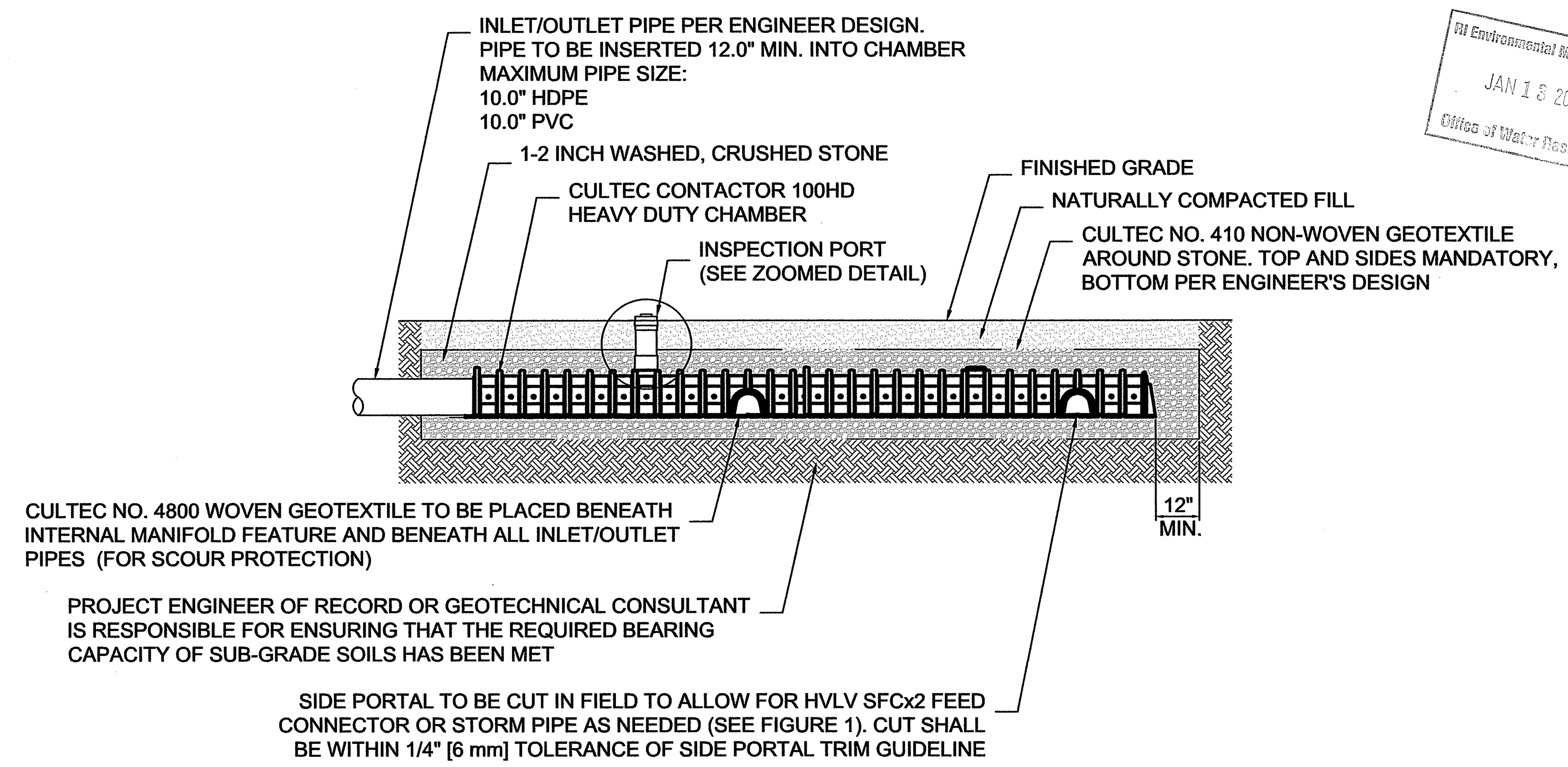
1. THE CHAMBERS WILL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832) OR APPROVED EQUAL.
2. THE CHAMBER WILL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE).
3. THE CHAMBER WILL BE ARCHED IN SHAPE.
4. THE CHAMBER WILL BE OPEN-BOTTOMED.
5. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES TALL, 16 INCHES WIDE AND 24.2 INCHES LONG.
6. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR WILL BE 0.913 FT^3 / FT - WITHOUT STONE.
7. THE HVLV FC-24 FEED CONNECTOR CHAMBER SHALL HAVE 2 CORRUGATIONS.
8. THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT WILL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.
9. THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
10. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.

CULTEC NO. 66™ WOVEN GEOTEXTILE

GENERAL

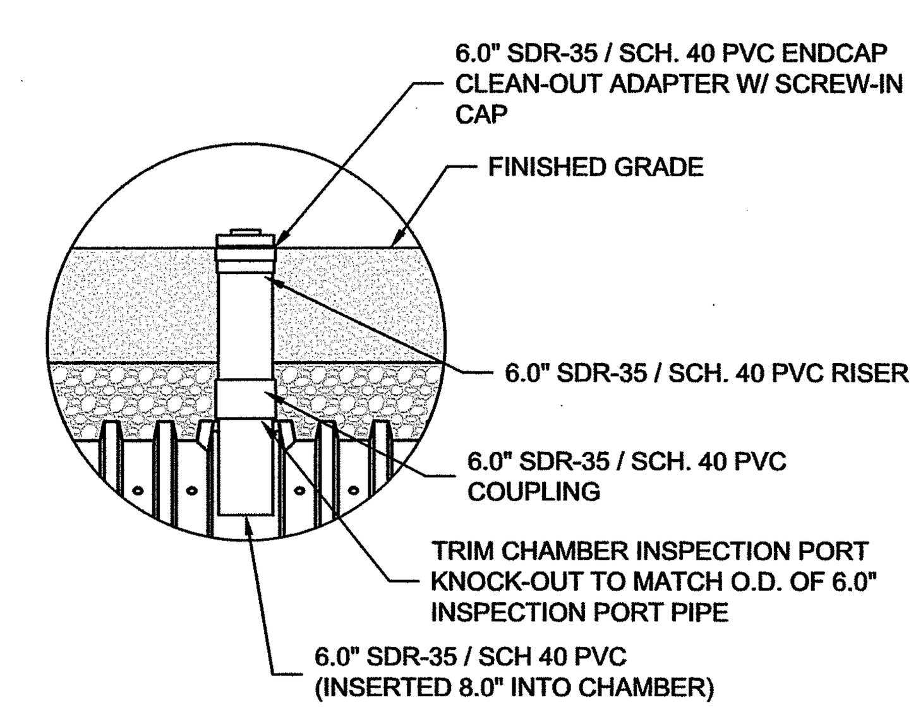
CULTEC NO. 66™ WOVEN GEOTEXTILE OR APPROVED EQUAL SHALL BE UTILIZED AS AN UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS.

RI Environmental Management
JAN 1 8 2023
Office of Water Resources



CULTEC INTERNAL MANIFOLD - OPTIONAL INSPECTION PORT DETAIL

SCALE : 3/8" = 1'-0"



INSPECTION PORT - ZOOM DETAIL

NOT TO SCALE

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OFFICE OF WATER RESOURCES
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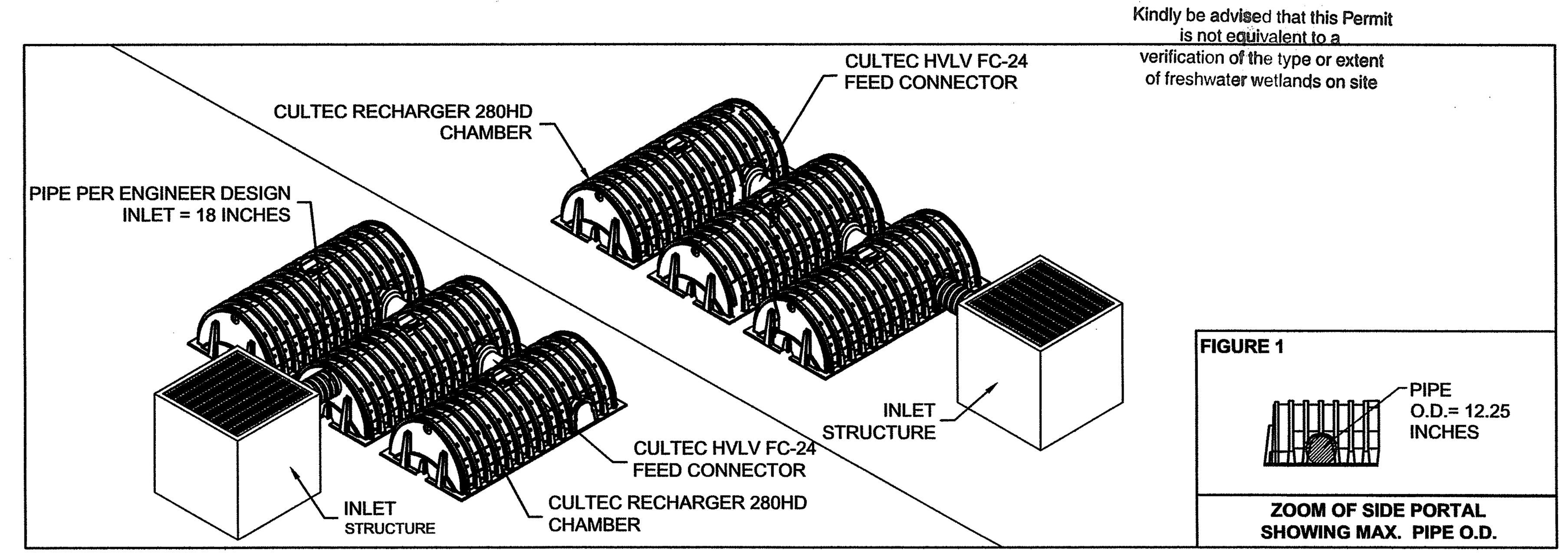

CULTEC TYPICAL INLET CONNECTIONS

NOT TO SCALE

THE
UNIVERSITY
OF RHODE ISLAND

45 Upper College Rd,
Kingston, RI 02881
401-874-1000

Stamp

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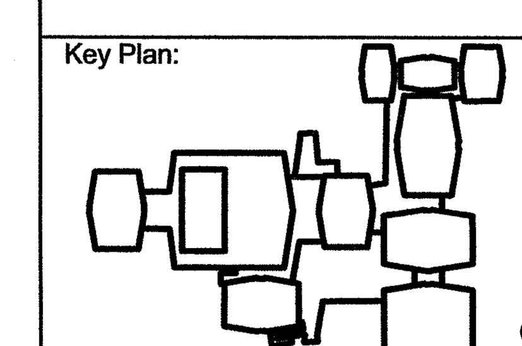

No.	Revision/Issue	Date

Fine Arts Center
Phase I B

DETAILS 4

Project	21225
Scale	AS NOTED
Date	28 JUNE 2022
Drawn By	LBD
Checked By	TAR
Sheet	C-2.06