



LOCUS MAP
NOT TO SCALE

PERMIT SET
FOR
SOUTH TRAIL COMMERCE
PHASE II

Being A.P. 71, Block 4, Lot 10
Lot Area = 2.50 Acres

Owner/Applicant:
Jade Investment Group, LLC
2505 Boston Neck Road
Saunderstown, RI 02874

ZONING: B
Minimum Lot Size: N/A
Minimum Street Frontage: 150'
Minimum Front Depth: 100'
Minimum Side Depth: 30'
Minimum Rear Depth: 75'

FEMA DETERMINATION
ZONE "X" (UNSHADED)
AREA OF MINIMAL FLOOD HAZARD
PANEL NO. - 44009C0093H
EFFECTIVE DATE OCTOBER 19, 2010

- NOTES:**
1. THIS SITE DOES NOT FALL WITHIN A CRITICAL RESOURCE AREA AS DEFINED IN SD 38.00.
 2. THERE ARE NO WETLANDS IN THE AREA OF PROPOSED OWTS, EXCEPT AS SHOWN ON PLAN.
 3. WETLAND EDGE FLAGGED BY EA ENGINEERING, SCIENCE AND TECHNOLOGY ON 10/29/2007
 4. WETLAND FLAGS WERE LOCATED WITH A HORIZONTAL ACCURACY OF +/- 1'.
 5. THE SITE DOES NOT FALL WITHIN THE TOWN'S GROUNDWATER PROTECTION OVERLAY DISTRICT.
 6. THE SITE DOES NOT FALL WITHIN A NATURAL HERITAGE AREA AS DEFINED BY RIDEM.
 7. THE LOCATION OF ALL PROPOSED UNDERGROUND UTILITIES TO BE SHALL BE DETERMINED BY THE RESPECTIVE UTILITY COMPANY. UNDERGROUND ELECTRIC, GAS, CABLE, AND TELEPHONE SERVICES ARE PROPOSED FOR THIS DEVELOPMENT.

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

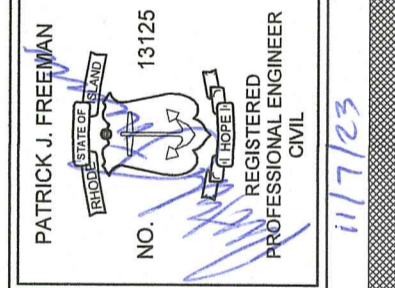
LEGEND	
	EXISTING PROPERTY LINE
	ABUTTER PROPERTY LINE
	500' PROPERTY RADIUS
	SOIL CLASS BOUNDARY
	ZONING BOUNDARY
	EXISTING TREELINE



500' Radius Map
SCALE: 1" = 100'

500' Radius Map
FOR
SOUTH TRAIL COMMERCE
PHASE II
LOCATED AT
Pole # 35 South County Trail
Exeter, Rhode Island

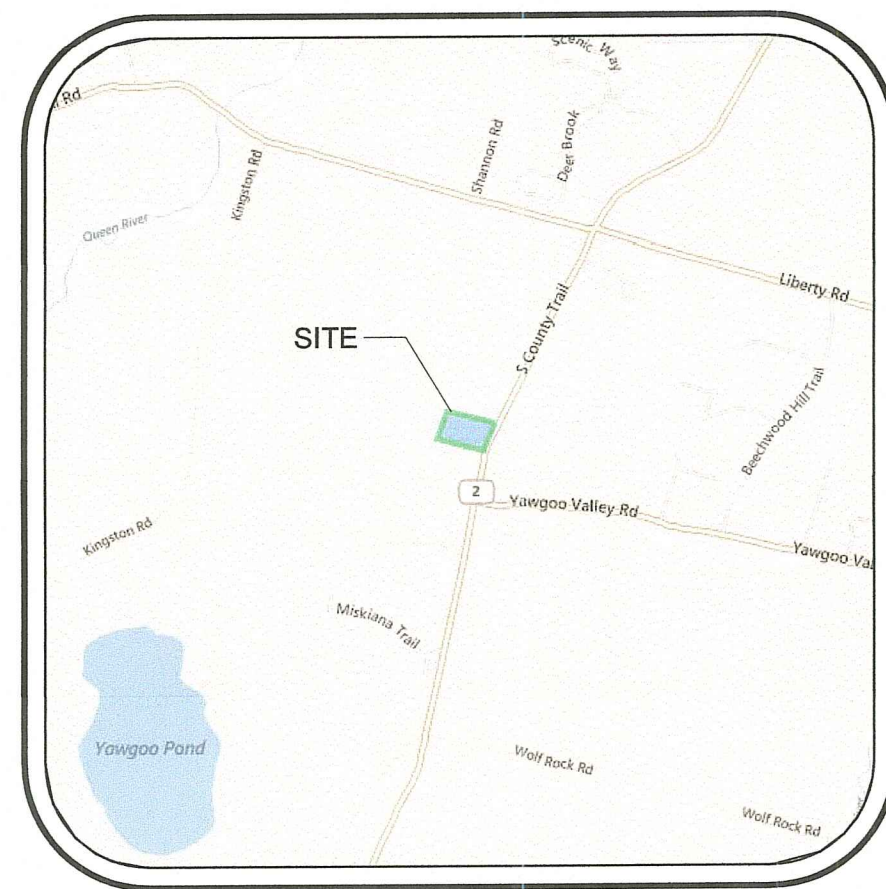
Drawn By: MjC	Checked By: PJF		
Scale: 1" = 100'	Date: 09/13/2023		
REVISIONS			
NO.	REVISION	BY	DATE
1.	PER IDEM COMMENTS	PJF	11/6/23



AMERICAN ENGINEERING, INC.
Professional Engineering & Land Surveying
400 South County Trail - Suite A 201
Exeter, Rhode Island 02822
E-Mail: DCofta@AmericanEngineeringRI.com
Phone (401) 294-4090 / Fax (401) 294-3625

Sheet
NOV 07 2023
1
of 4 sheets
Drawing No. 120243

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: DEC 15 2022 FILE #: 23-0210
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



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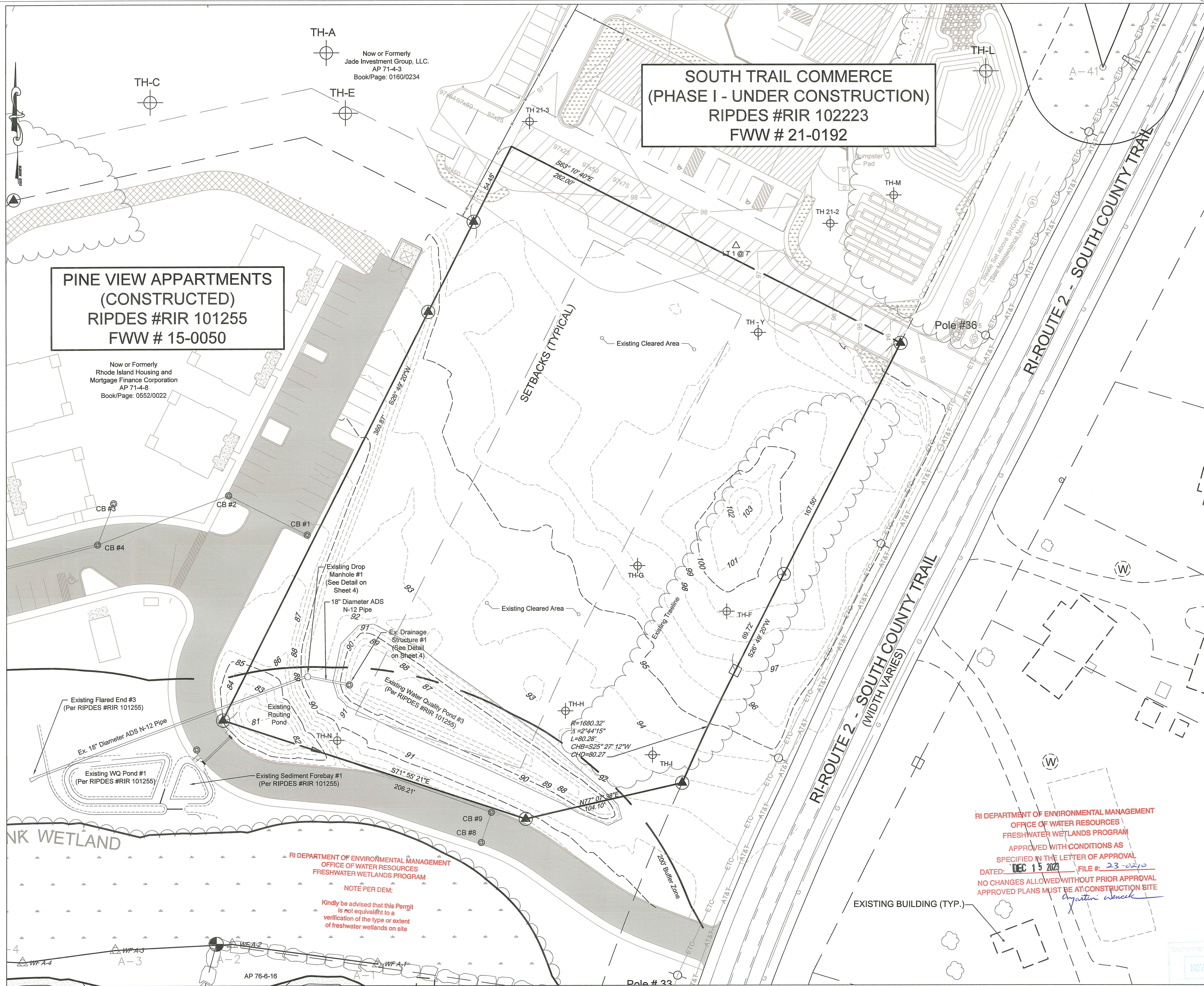
LEGEND

- UTILITY POLE FOUND
- ANGLE POINT
- GRANITE /STONE BOUND FOUND
- IRON ROD WITH CAP SET
- STONEWALL FOUND
- EXISTING PROPERTY LINE
- ABUTTER PROPERTY LINE
- EXISTING TREELINE

FEMA DETERMINATION
ZONE "X" (UNSHADED)
AREA OF MINIMAL FLOOD HAZARD
PANEL NO. - 44009C0093H
EFFECTIVE DATE OCTOBER 19, 2010

TESTHOLE DATA

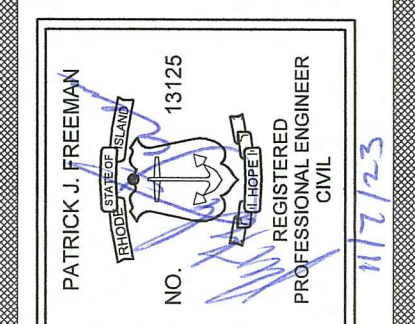
TESTHOLE#	GROUND ELEV. *	WT DEPTH
"TH-F"	99.00	11'-6"
"TH-G"	97.00	13'
"TH-H"	94.00	10'
"TH-I"	93.00	7'-6"
"TH-N"	87.00	9'
"TH-Y"	97.50	8'
"TH 21-3"	98.25	9'



**EXISTING CONDITIONS PLAN
FOR
SOUTH TRAIL COMMERCE
PHASE II**
LOCATED AT
Pole # 35 South County Trail
Exeter, Rhode Island

Drawn By: PJF
Checked By: MJC
Scale: 1" = 30'
Date: 09/13/2023

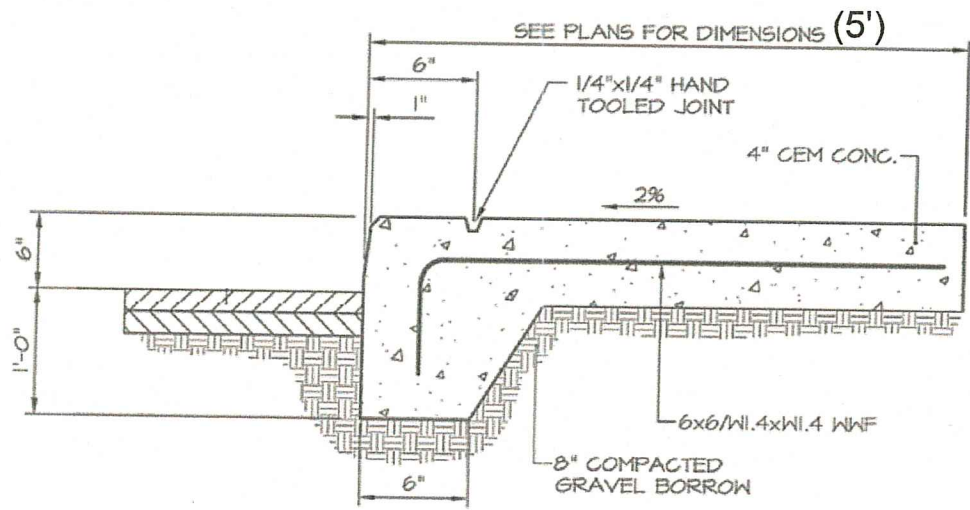
NO.	REVISION	DATE	BY
1.	PER RIDEM COMMENTS	11/02/23	PJF



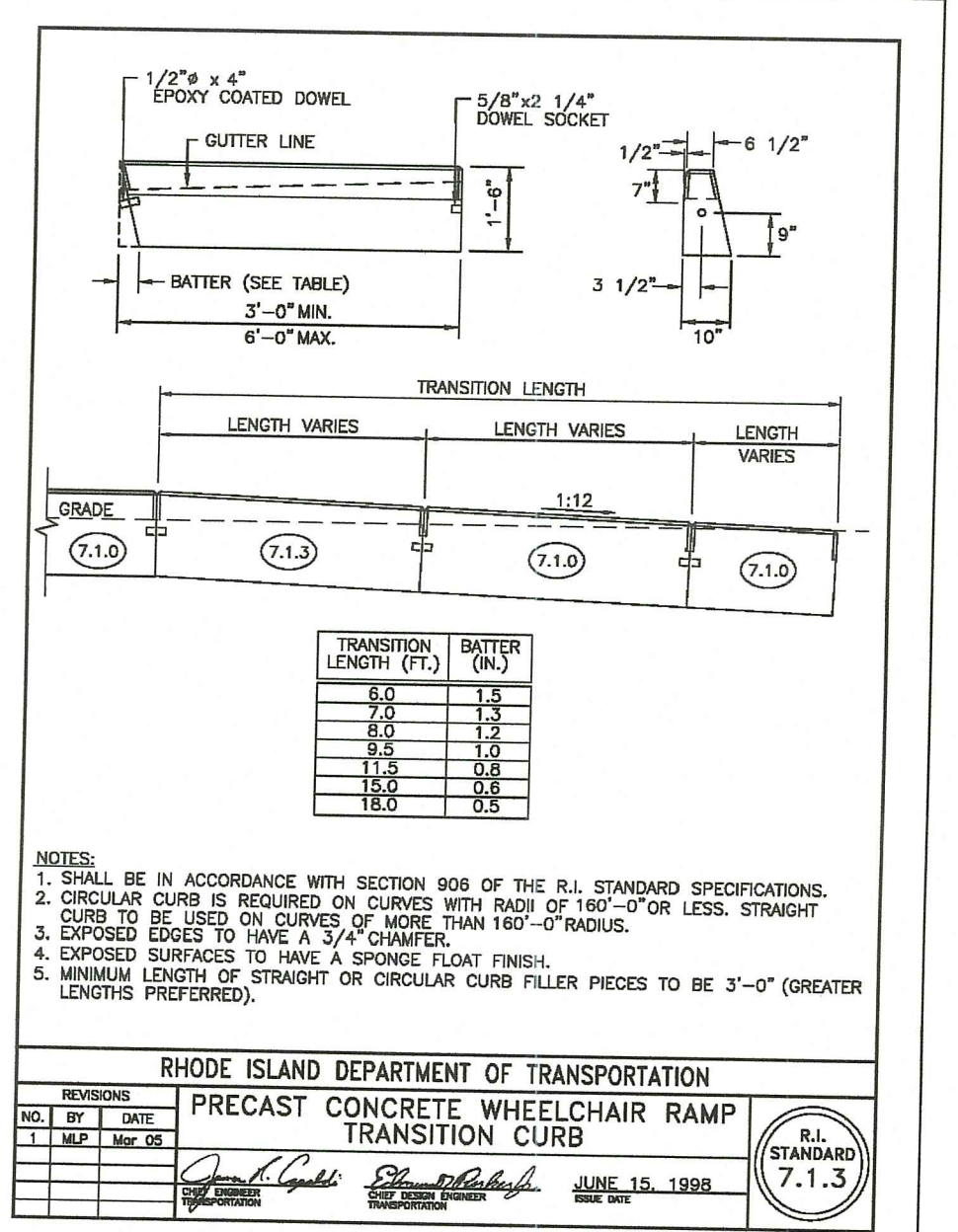
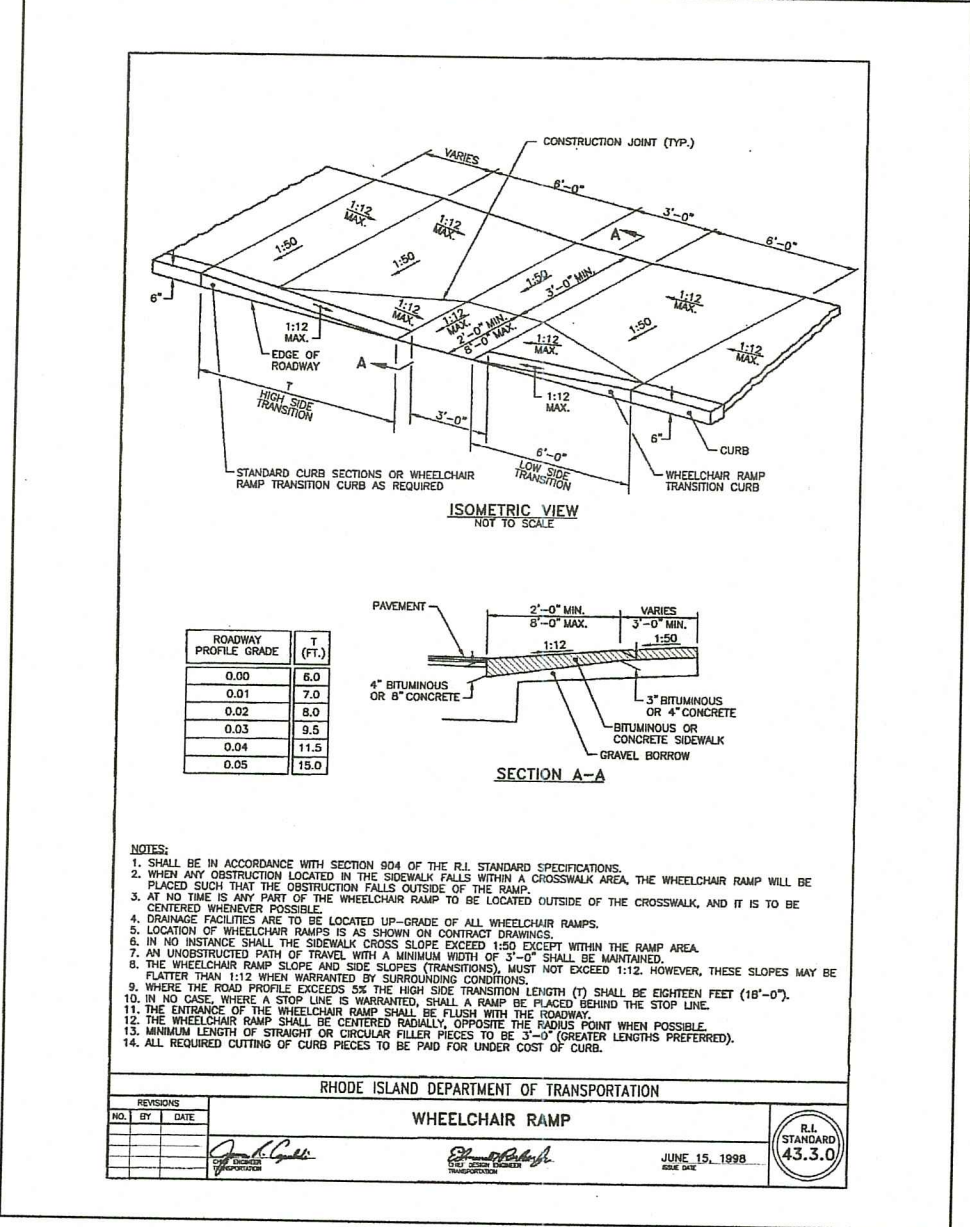
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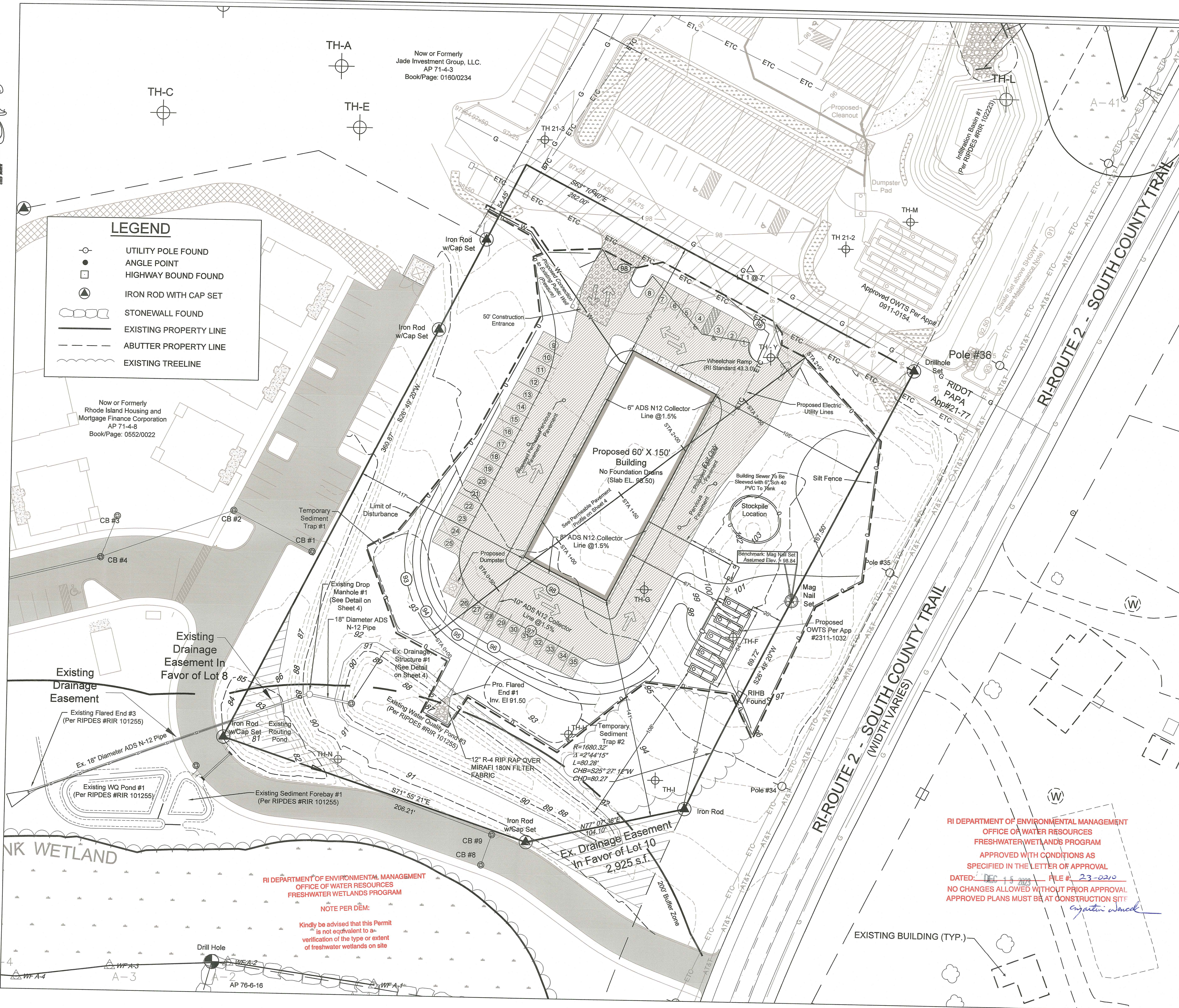


MONOLITHIC CURB AND CEMENT CONCRETE SIDEWALK
 NOT TO SCALE



LEGEND

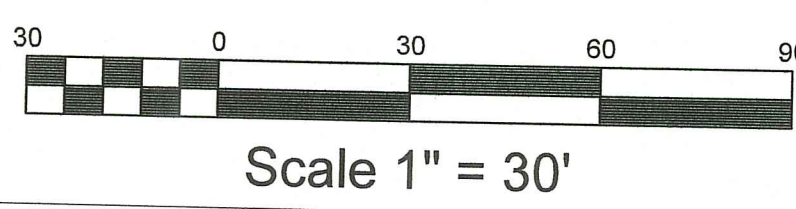
- UTILITY POLE FOUND
- ANGLE POINT
- HIGHWAY BOUND FOUND
- ▲ IRON ROD WITH CAP SET
- ▭ STONEWALL FOUND
- EXISTING PROPERTY LINE
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- ~ EXISTING TREELINE



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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 FRESHWATER WETLANDS PROGRAM

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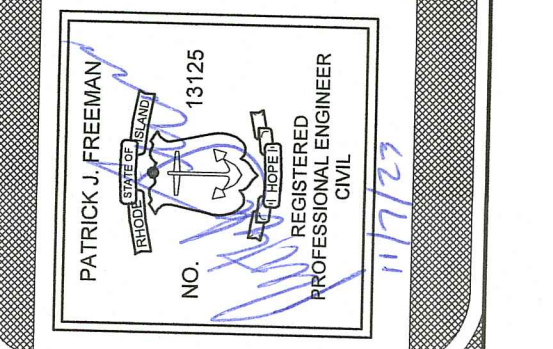
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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PROPOSED CONDITIONS PLAN FOR
SOUTH TRAIL COMMERCE PHASE II
 LOCATED AT
 Pole # 35 South County Trail
 Exeter, Rhode Island

Drawn By: PUF Checked By: MJC
 Scale: 1" = 30' Date: 09/13/2023

NO.	REVISION	DATE
1.	PER RIDE COMMENTS	P.F. 11/6/23

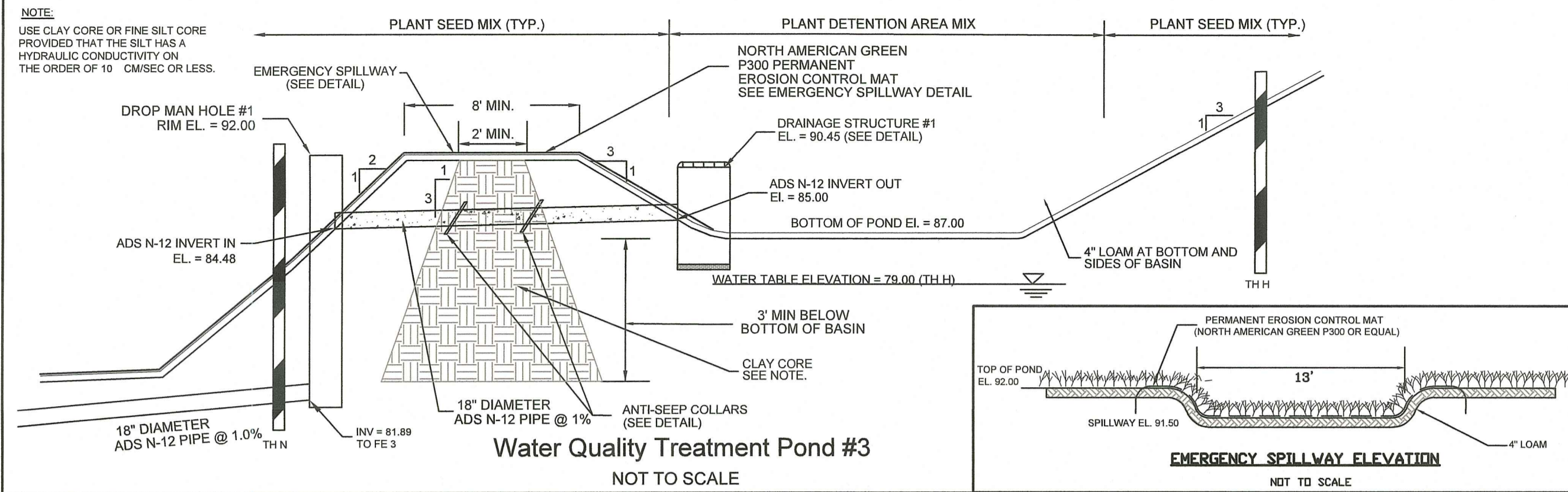


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Sheet
3
 of 4 sheets
 Drawing No. 120243

EXISTING

**** Water Quality Treatment Pond #3 - NO MODIFICATIONS NECESSARY****



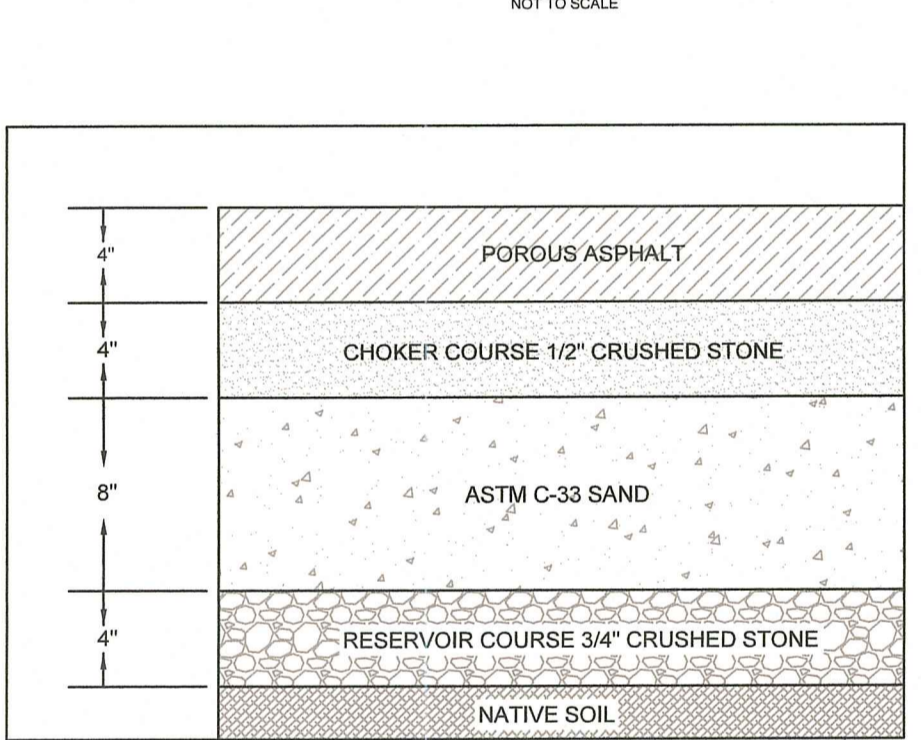
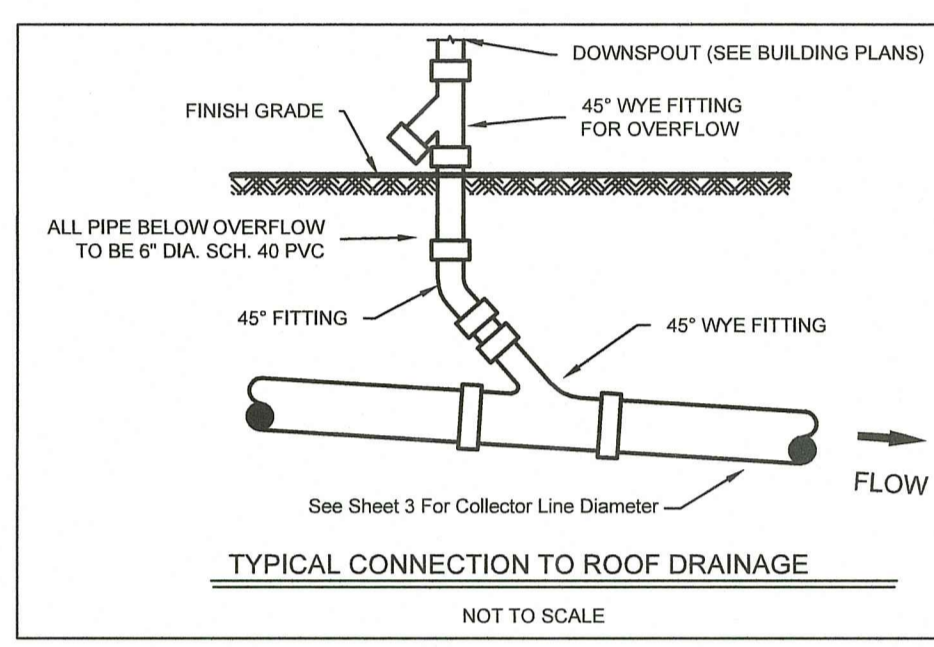
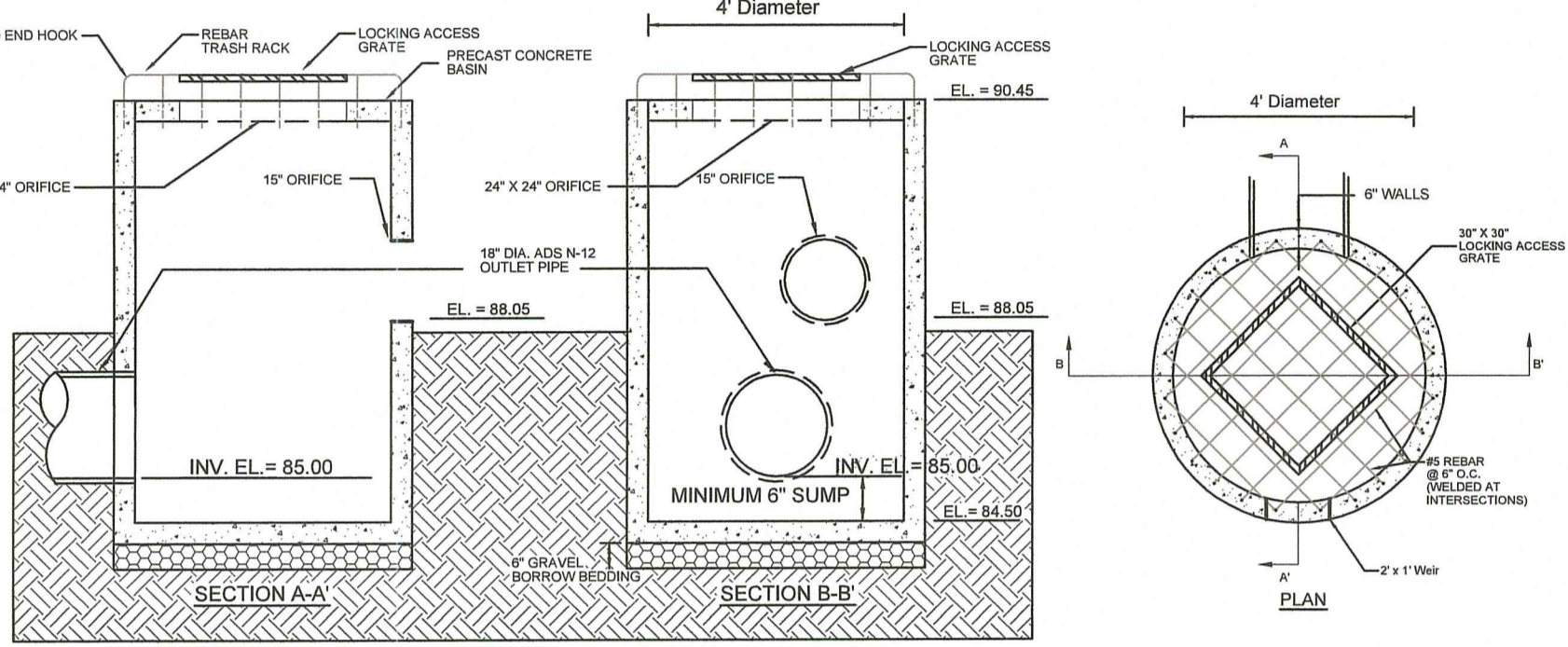
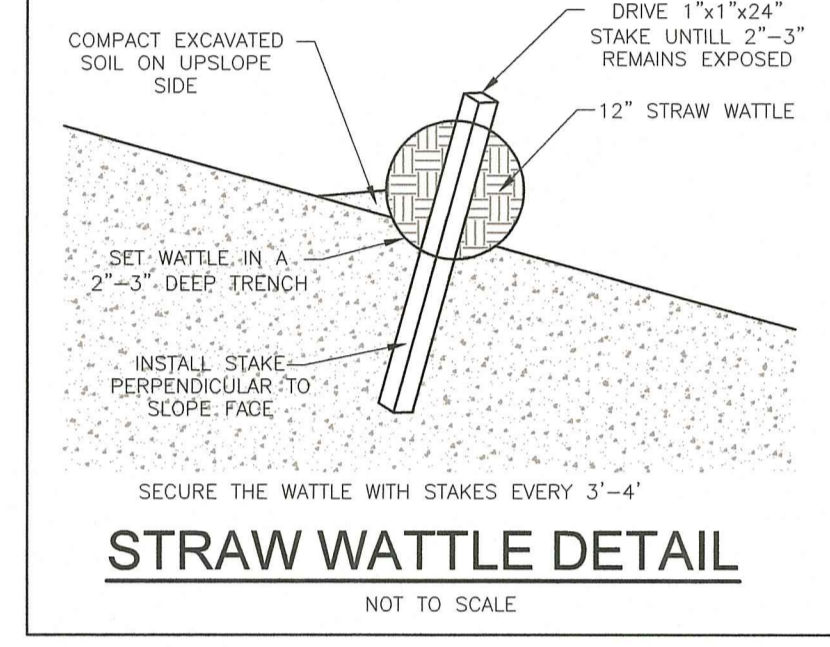
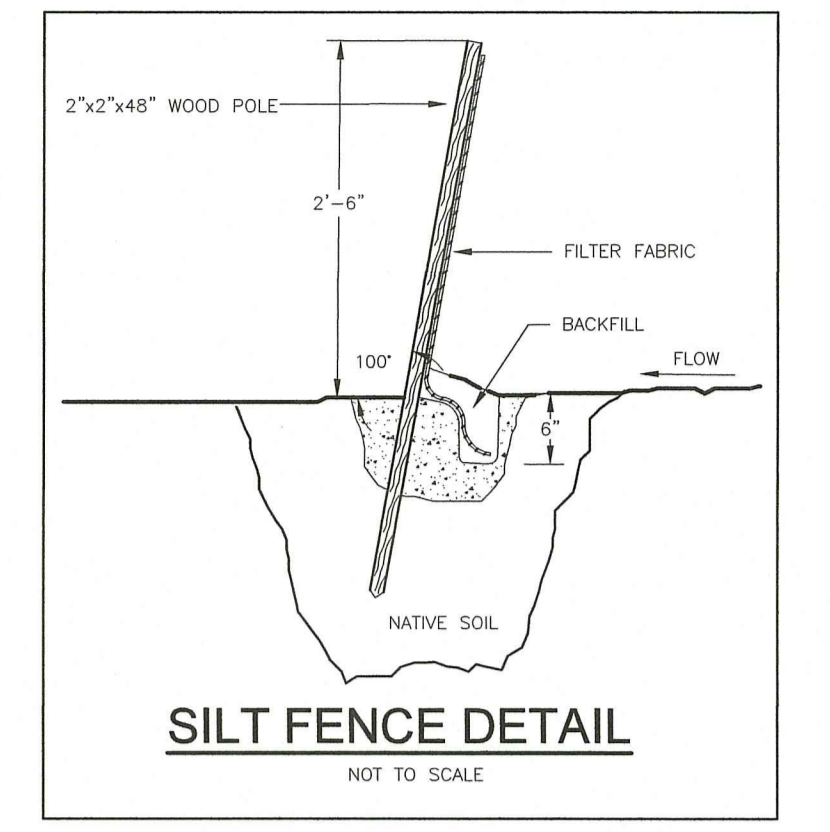
NOTES SHOWN ON THIS SHEET ARE GENERAL. SEE THE SOIL EROSION AND SEDIMENT CONTROL PLAN & THE LONG-TERM OPERATION AND MAINTENANCE PLAN & LONG TERM POLLUTION PREVENTION PLAN FOR DETAILS.

EROSION CONTROL & SOIL STABILIZATION PROGRAM

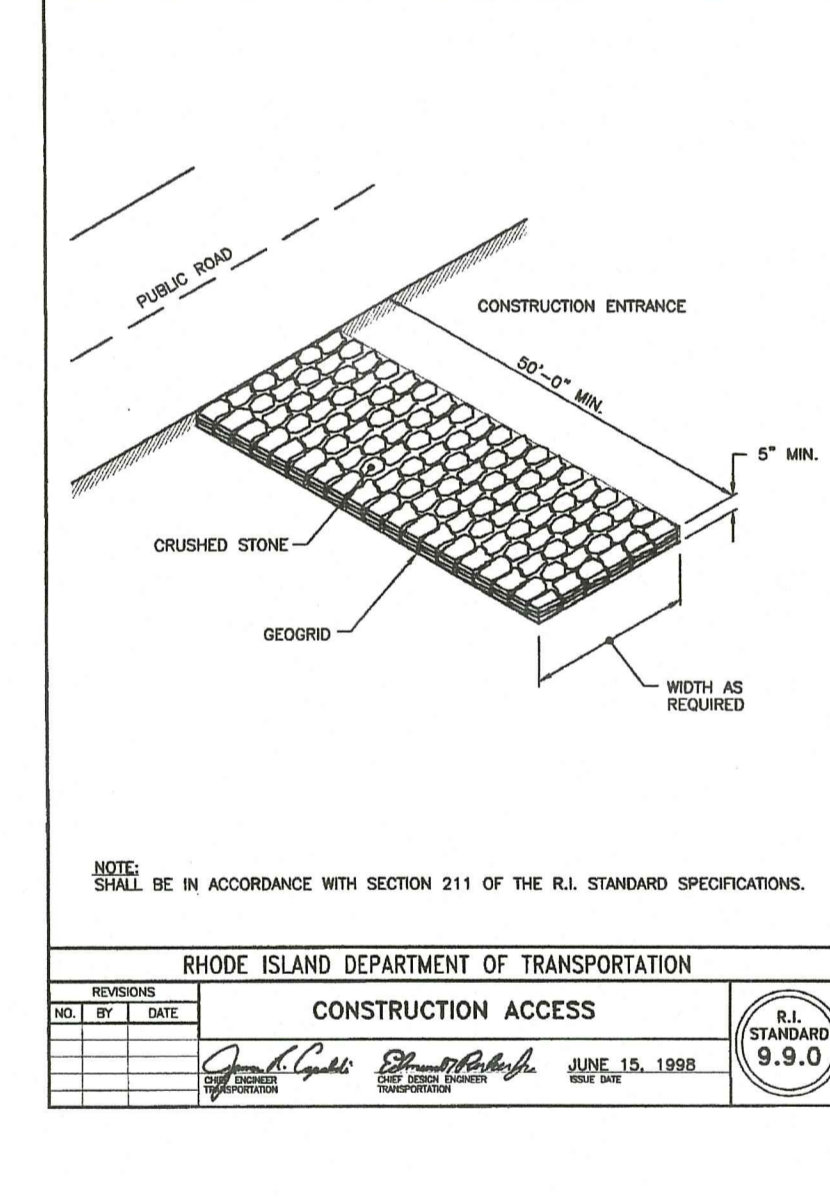
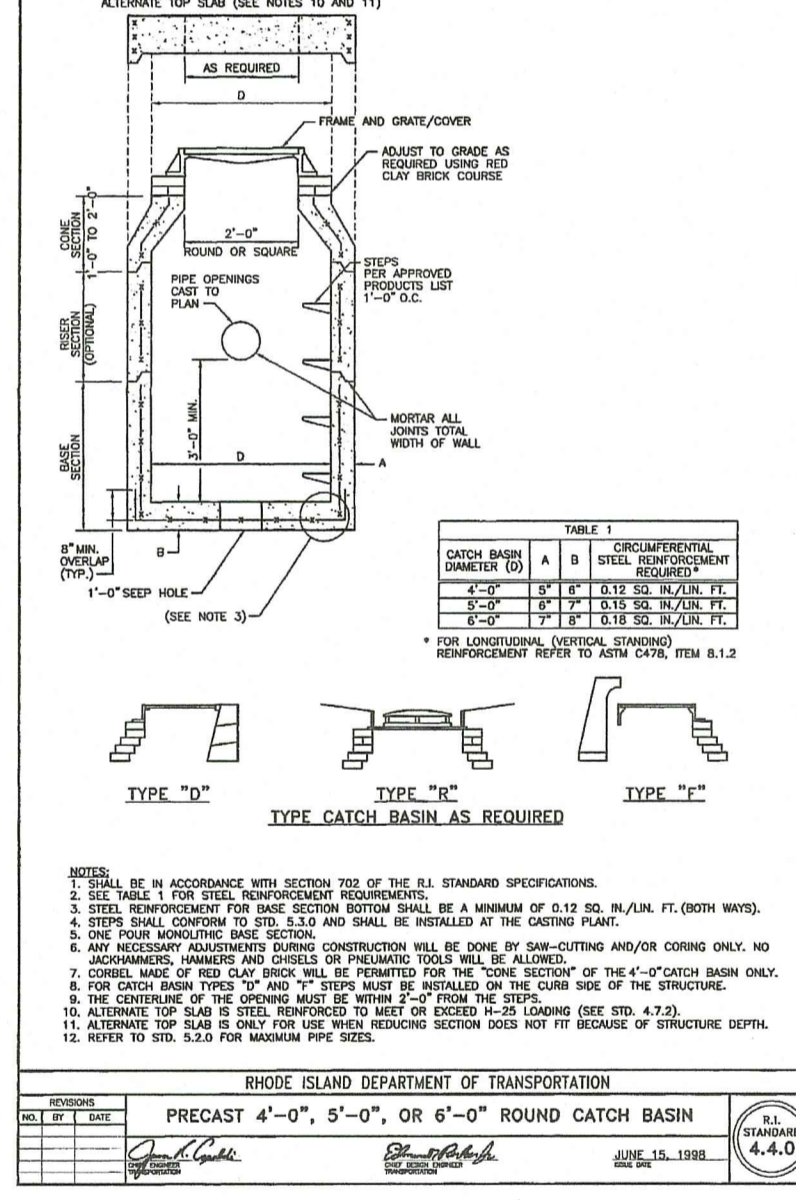
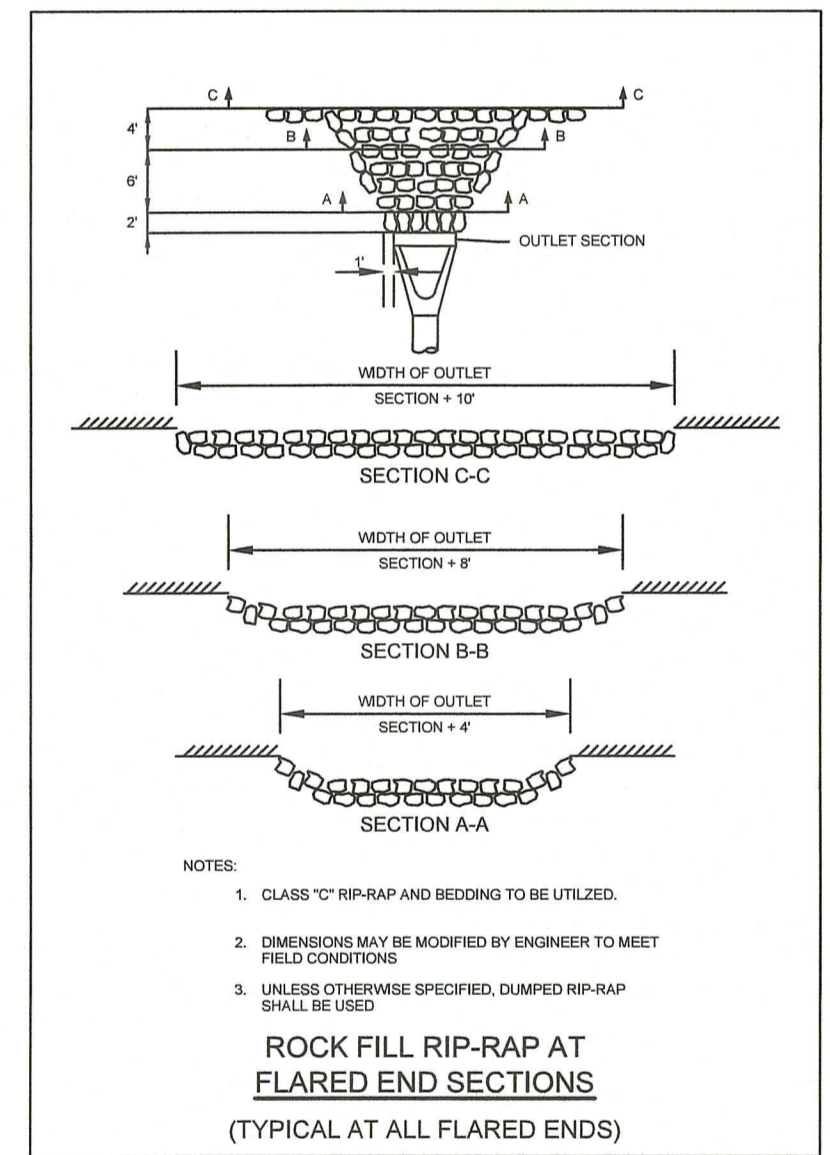
1. DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
2. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION PERIOD.
3. THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS, AND SHALL CONFORM WITH R.I. STANDARD SPECIFICATION M. 20.
4. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
5. THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING PERMANENT SEEDING MIXTURES:

MIXTURE	% BY WT.	SEEDING DATES
RED FESCUE	75	APRIL 1 - JUNE 15
KENTUCKY BLUEGRASS	15	AUG. 15 - OCT. 15
COLONIAL BENTGRASS	5	
PERENNIAL RYEGRASS	5	
TOTAL 100%ACRE		
6. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OF FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
7. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 3000-4000 LBS/AC.
8. ALL HAYBALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR COVER IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING CAN BE USED TO HELP MINIMIZE EROSION. A TEMPORARY SEEDING GUIDE MUST BE INCLUDED AS A REFERENCE. THE FOLLOWING SPECIES ARE RECOMMENDED:

SPECIES	LBS/ACRE	LBS/1,000 SQ. FT.	SEEDING DATES
PERENNIAL RYEGRASS	60	1.5	MAR. 15 - JUNE 15
KENTUCKY BLUEGRASS	40	1.0	MAY 15 - AUGUST 15
MILLET	40	1.0	MAY 15 - AUGUST 15
WINTER RYE	120	3.0	AUGUST 15 - JUNE 15
OATS	120	3.0	MAR. 15 - JUNE 15
WEEDING	20	0.5	MAY 1 - JUNE 30
9. THE CONTRACTOR MUST REPAIR AND OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
10. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 15TH THRU OCT. 15TH.
11. ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2004 EDITION, AMENDED MARCH 2018, SECTION 202.03.3).
12. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 15 DAYS OF FINAL GRADING.
13. STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS OR WETLANDS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES SHALL ALSO BE SEED AND/OR STABILIZED.
14. ON BOTH STEEP AND LONG SLOPES CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.
15. REFERENCE THE SEDIMENTATION CONTROL PROGRAM AND ORDER OF PROCEDURE FOR PROPER COORDINATION.



- PERVIOUS PAVEMENT NOTES:**
1. Areas where infiltrating permeable pavement practices are proposed shall not serve as temporary sediment control devices during site construction phase.
 2. Permeable pavement surfaces require regular vacuum sweeping or hosing (minimum every three months or as recommended by manufacturer) to keep surface from clogging. Maintenance frequency needs to be more or less depending on the traffic volume at the site.
 3. Minimize use of sand and salts during the winter months.
 4. Do not repave or reseal with impervious material.



SEDIMENTATION CONTROL PROGRAM

1. ALL DISTURBED AREAS SUBJECT TO EROSION TENDENCIES WHETHER THEY ARE NEWLY FILLED OR EXCAVATED SHALL RECEIVE SUITABLE SLOPE PROTECTION.
2. DURING CONSTRUCTION, THE CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
3. CARE SHALL BE TAKEN SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING EITHER EXISTING OR PROPOSED DRAINAGE OR SEWER STRUCTURES.
4. SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED PERIODICALLY AND AFTER PERIODS OF RAINFALL. SUCH DEVICES SHALL BE REPAIRED OR REPLACED AS NEEDED.
5. CARE SHALL BE TAKEN SO AS NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECT TO STORMWATER FLOW.
6. ADDITIONAL HAYBALES, SILT FENCE OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
7. REFERENCE THE "RHODE ISLAND EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE U.S. DEPT. OF AGRICULTURE, SOIL CONSERVATION SERVICE, 1989, WITH ANY AMENDMENTS, AS A GUIDE.

ORDER OF PROCEDURE

1. IMMEDIATELY UPON COMPLETION OF THE CLEARING AND GRUBBING OPERATION AND PRIOR TO ANY GRADING, TEMPORARY HAYBALES, SILT FENCE OR SANDBAGS SHALL BE PLACED OUTSIDE THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS. (I.E. ALONG NEW ROADWAYS, STREAMBANKS, CRITICAL AREAS, ETC.)
2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PERIODICALLY CLEANED AND MAINTAINED AS PER THE RESPECTIVE PROGRAMS DURING THE CONSTRUCTION.
3. IF WORK PROGRESS IS TO BE INTERRUPTED AT ANY TIME, REFERENCE EROSION AND SEDIMENTATION CONTROL PROGRAMS FOR TEMPORARY CONTROL.

CONSTRUCTION PHASING NOTES:

1. PRIOR TO ANY GROUND DISTURBING ACTIVITY, PERIMETER SOIL EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED. FOR CONSTRUCTION OF THE PROPOSED ROAD, SOIL EROSION CONTROLS SHALL BE PLACED DOWN-GRADIENT PRIOR TO ANY GROUND DISTURBANCE.
2. CONSTRUCT TEMPORARY SEDIMENT BASINS.
3. CLEAR AND GRUB AREAS FOR ROAD AND DRAINAGE STRUCTURES. DISPOSE OF STUMPS.
4. REMOVE LOAM AND SUB-SOILS AND STOCKPILE FOR LATER USE. SEE THE EROSION CONTROL & SOIL STABILIZATION PROGRAM FOR ADDITIONAL GUIDANCE.
5. CONSTRUCT FOREBAYS, WATER QUALITY SAND FILTER, INFILTRATION BASIN, AND DETENTION POND.
6. CONSTRUCT THE ROAD (SUBGRADE, BASE COURSE, AND BINDER PAVEMENT), UTILITIES, AND ASSOCIATED DRAINAGE STRUCTURES.
7. INSTALL HAYBALE EROSION CONTROL DEVICES AT CATCH BASIN INLETS.
8. INDIVIDUAL LOTS SHALL BE CONSTRUCTED ON A LOT BY LOT BASIS.
 - 9.1. PRIOR TO ANY GROUND DISTURBING ACTIVITY, PERIMETER SOIL EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED.
 - 9.2. CLEAR AND GRUB AREAS TO BE DISTURBED.
 - 9.3. REMOVE LOAM AND SUB-SOILS AND STOCKPILE FOR LATER USE. SILT FENCE SHOULD BE PLACED AROUND THE STOCKPILE AND IT SHOULD BE SEEDER.
 - 9.4. ROUGH GRADE THEN SEED THE SITE.
 - 9.5. CONSTRUCT THE DWELLING, DRIVEWAY, OWTS, AND INSTALL ANY PROPOSED HELLS.
 - 9.6. FINISH GRADE AND SEED/SOIL THE SITE.
 - 9.7. EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL SUCH A TIME THAT A DESIRABLE STAND OF GRASS OR GROUND COVER HAS BEEN ESTABLISHED.

MAINTENANCE AND RESPONSIBILITY

1. THE CONSTRUCTION SUPERINTENDENT SHALL HAVE THE SOLE RESPONSIBILITY FOR THE DESIGN IMPLEMENTATION. THEY SHALL ALSO BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION WORKERS AND SUB-CONTRACTORS ARE AWARE OF THE PROVISIONS OF THE PLAN AND THE ENGINEER'S REPORT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ASPECTS OF THE DESIGN PRIOR TO FINAL APPROVAL BY THE TOWN. DURING THAT TIME, ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHOULD BE CHECKED ON A WEEKLY BASIS AS WELL AS AFTER EACH SIGNIFICANT RAINFALL. ALL SUCH MEASURES SHOULD BE CLEANED OR REPLACED AS NECESSARY.
3. REPLANTING, REGRADING OR OTHER REPAIRS NEEDED AS A RESULT OF EROSION AND SEDIMENTATION SHOULD BE DONE PROMPTLY.
4. ALL VEGETATION NOT SURVIVING AT LEAST ONE FULL GROWING SEASON SHALL BE REPLANTED AT THE OWNER'S EXPENSE.
5. UPON PROJECT COMPLETION, THE PROPERTY OWNER SHALL ADHERE TO THE FOLLOWING MAINTENANCE RECOMMENDATIONS:
 - A. MOOWING: THE MOOWING OF GRASS IN AND AROUND THE BASIN SHOULD BE DONE AT LEAST ONCE PER GROWING SEASON, PREFERABLY AFTER AUGUST 15 TO PROTECT GROUND NESTING BIRDS AND OTHER ANIMALS. MORE FREQUENT MOOWINGS WILL BE REQUIRED FOR BASINS MAINTAINED AS RECREATIONAL OR OPEN SPACE FACILITIES. TRASH AND LITTER MUST BE REMOVED DURING MOOWING OPERATIONS.
 - B. INSPECTIONS: THE STRUCTURAL INTEGRITY OF THE BASIN, ESPECIALLY ANY IMPOUNDING STRUCTURES, SHOULD BE INSPECTED ON AN ANNUAL BASIS. IN ADDITION, THE INLETS FOR THE BASIN SHOULD ALSO BE INSPECTED ANNUALLY. ANY DEFICIENCIES MUST BE CORRECTED IMMEDIATELY AFTER OBSERVATION. THE BASIN AND ALL STRUCTURES SHOULD BE INSPECTED MORE OFTEN DURING THE FIRST YEAR OF OPERATION. INSPECTIONS SHOULD BE CONDUCTED AFTER LARGE STORMS, TO ENSURE PROPER STABILIZATION AND FUNCTION.
 - EMBANKMENT SUBSIDENCE
 - EROSION
 - CRACKING
 - TREE GROWTH
 - OUTLET & SPILLWAY CONDITION
 - SEDIMENT ACCUMULATION
 - SLOPE STABILITY

ANY DEFICIENCY NOTED DURING THE INSPECTION WILL BE IMMEDIATELY REPAIRED OR REPLACED, IF ENCOUNTERED, TRASH, DEBRIS, ETC. SHOULD BE REMOVED FROM THE DRAINAGE SYSTEM AT LEAST TWICE A YEAR.

RESEEDING OF ANY ERODED OR BARE SPOTS IN OR AROUND THE BASIN MUST BE DONE IMMEDIATELY FOLLOWING EXAMINATIONS TO PREVENT SUBSEQUENT SOIL EROSION. MAINTAINING A FULLY VEGETATED BASIN WITH HEALTHY GRASS IS PARAMOUNT TO A SUCCESSFULLY OPERATING FACILITY.

FOLLOWING CONSTRUCTION, THE PONDS, BASINS, AND DRAINAGE SYSTEMS ARE TO BE CLEANED OF ACCUMULATED SEDIMENT PRIOR TO ACCEPTANCE BY THE TOWN AND THEN EVERY TEN YEARS. THE RESULTING POND CONDITION AFTER SEDIMENT REMOVAL MUST BE THE ORIGINAL DESIGN CONDITIONS. ALL REMOVED SEDIMENT IS TO BE TESTED TO DETERMINE POLLUTANT CONTENT. THE SEDIMENT IS TO BE PROPERLY DISPOSED IN UPLAND AREAS BASED UPON THE TEST RESULTS AND LOCAL, STATE AND FEDERAL REGULATIONS.

AN INSPECTION MUST OCCUR ON AN ANNUAL BASIS BY QUALIFIED PERSONNEL TO ENSURE PROPER OPERATION. THE INSPECTION SHOULD, AS A MINIMUM, CONCENTRATE ON THE FOLLOWING:

- DAMAGE TO GRATE/COVER
- EVIDENCE OF STANDING WATER
- DEBRIS REMOVAL
- STRUCTURAL ALIGNMENT/INTEGRITY

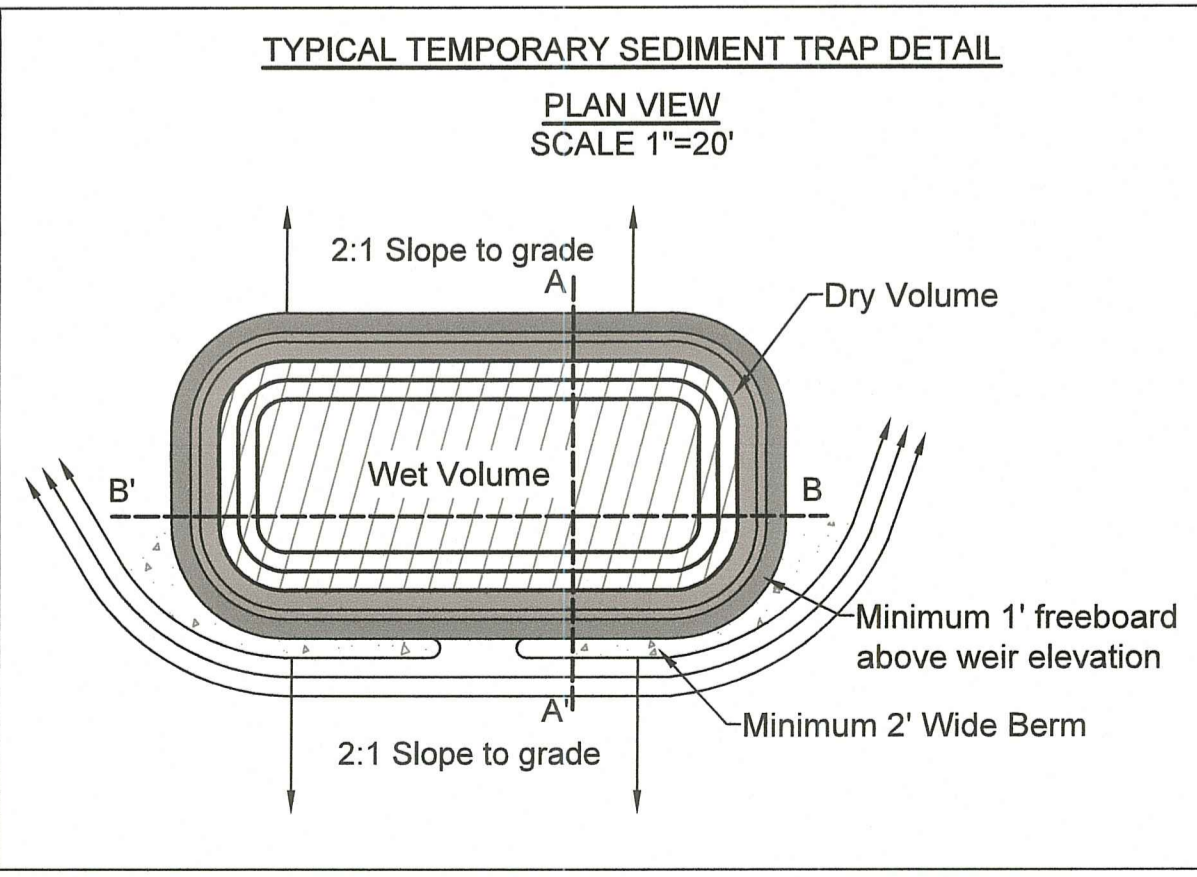
ANY DEFICIENCY NOTED DURING THE INSPECTION WILL BE IMMEDIATELY REPAIRED OR REPLACED.

GENERAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY THE STATE OF RHODE ISLAND AND THE MUNICIPALITY PRIOR TO COMMENCING ANY WORK.
2. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, STRUCTURES, AND ABUTTING PROPERTIES. THE COST OF ANY REPAIR OR REPLACEMENT OF DAMAGED ITEMS SHALL BE BORNE BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE MUNICIPAL ENGINEERING DEPARTMENT AND ALL UTILITY INSTALLATIONS AND INSPECTIONS WITH THE APPROPRIATE DEPARTMENT AND SHALL ADVANCE NOTICE IS REQUIRED BEFORE WORK COMMENCEMENT.
4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR QUANTITY TAKE OFF IN COMPUTING ANY ESTIMATES.
5. EMBANKMENT SLOPES AND ALL DISTURBED AREAS ARE TO RECEIVE 4" OF TOPSOIL AND SEED. SEE EROSION CONTROL PROGRAM DETAILS.
6. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION INDICATED ON THESE CHANGES ALLOWED WITHOUT PRIOR APPROVAL. APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL TEMPORARY SEDIMENTATION AND SOIL EROSION CONTROL MEASURES.
8. THE LOCATION OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE AND SHOULD BE VERIFIED BY THE CONTRACTOR WITH THE APPROPRIATE UTILITY COMPANIES. CALL DIG-SAFE (800)225-4977.
9. IN ALL EXCAVATION AND PLACEMENT OF FILL THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.

GENERAL BASIN NOTES

- THE DETENTION BASIN SHALL BE MAINTAINED ACCORDING TO THE FOLLOWING SCHEDULE:
1. ALL TREES, SHRUBS SHOULD NOT BE PLANTED ON ANY IMPOUNDING EMBANKMENTS (I.E. DIKES OR BERMS) OR WITHIN THE BASIN. SUCH PLANTINGS ARE GENERALLY DISCOURAGED IN ORDER TO REDUCE THE CHANCE OF FAILURE DUE TO ROOT DECAY AND SUBSURFACE DISTURBANCE. GRASSES ARE CONSIDERED THE ONLY ACCEPTABLE VEGETATION FOR PLANTING AND STABILIZING IMPOUNDING EMBANKMENTS.
 2. THE ENTIRE BASIN MUST BE STABILIZED WITH A DENSE LAYER OF GRASS IMMEDIATELY FOLLOWING BASIN CONSTRUCTION. THIS MAY REQUIRE THE ADDITION OF 4-6 INCHES OF A LOAMY SOIL SUBSTRATE TO PROMOTE GOOD VEGETATIVE GROWTH AND INFILTRATION. THE ADDITION OF LOAMY SOIL TO THE BASIN MUST BE FACTORED INTO THE OVERALL VOLUME REQUIREMENT. THE BASIN SHALL BE SEED WITH TURF-TYPE TALL FESCUE OR SIMILAR.
 3. THE DETENTION BASINS SHALL ALSO BE UTILIZED AS TEMPORARY BASINS DURING CONSTRUCTION. THESE BASINS SHALL THEN BE ENTIRELY CLEANED OF SEDIMENT AND THE BOTTOM SCARIFIED PRIOR TO SEEDING AND VEGETATION STABILIZATION. FAILURE TO DO SO WILL ALLOW EXCESSIVE QUANTITIES OF SEDIMENTS TO REMAIN IN THE BASINS AND WILL NECESSITATE MORE FREQUENT CLEANING OF THE DRAINAGE SYSTEM.
 4. THE MAXIMUM ALLOWABLE SLOPE LEADING TO THE BASIN FLOOR SHALL BE 3:1 (3 HORIZONTAL TO 1 VERTICAL), TO FACILITATE MOOWING AND OTHER MAINTENANCE OPERATIONS.
 5. CONCRETE FOR OUTLET WEIR SHALL BE CLASS "A" 3000 PSI. ALL EXPOSED EDGES SHALL HAVE 3/4" CHAMFERS. REINFORCING STEEL SHALL BE GRADE 60.



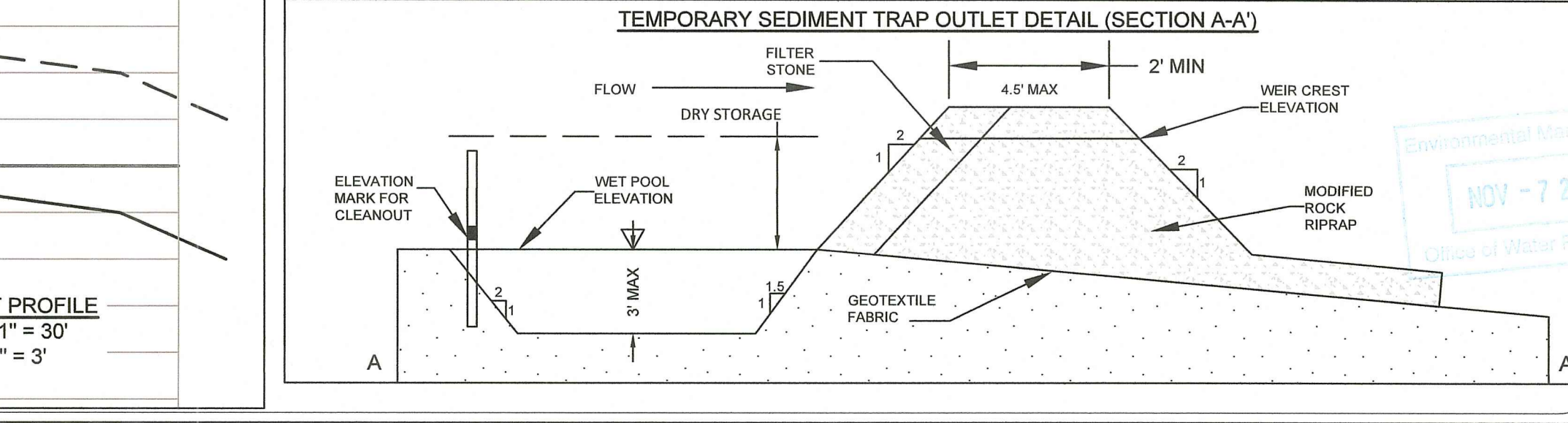
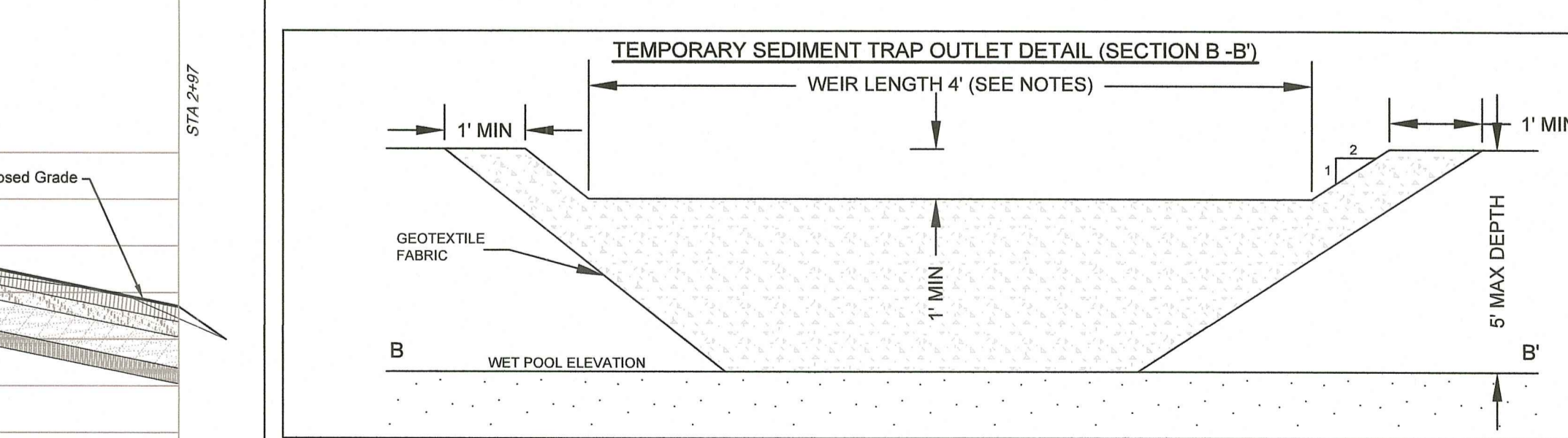
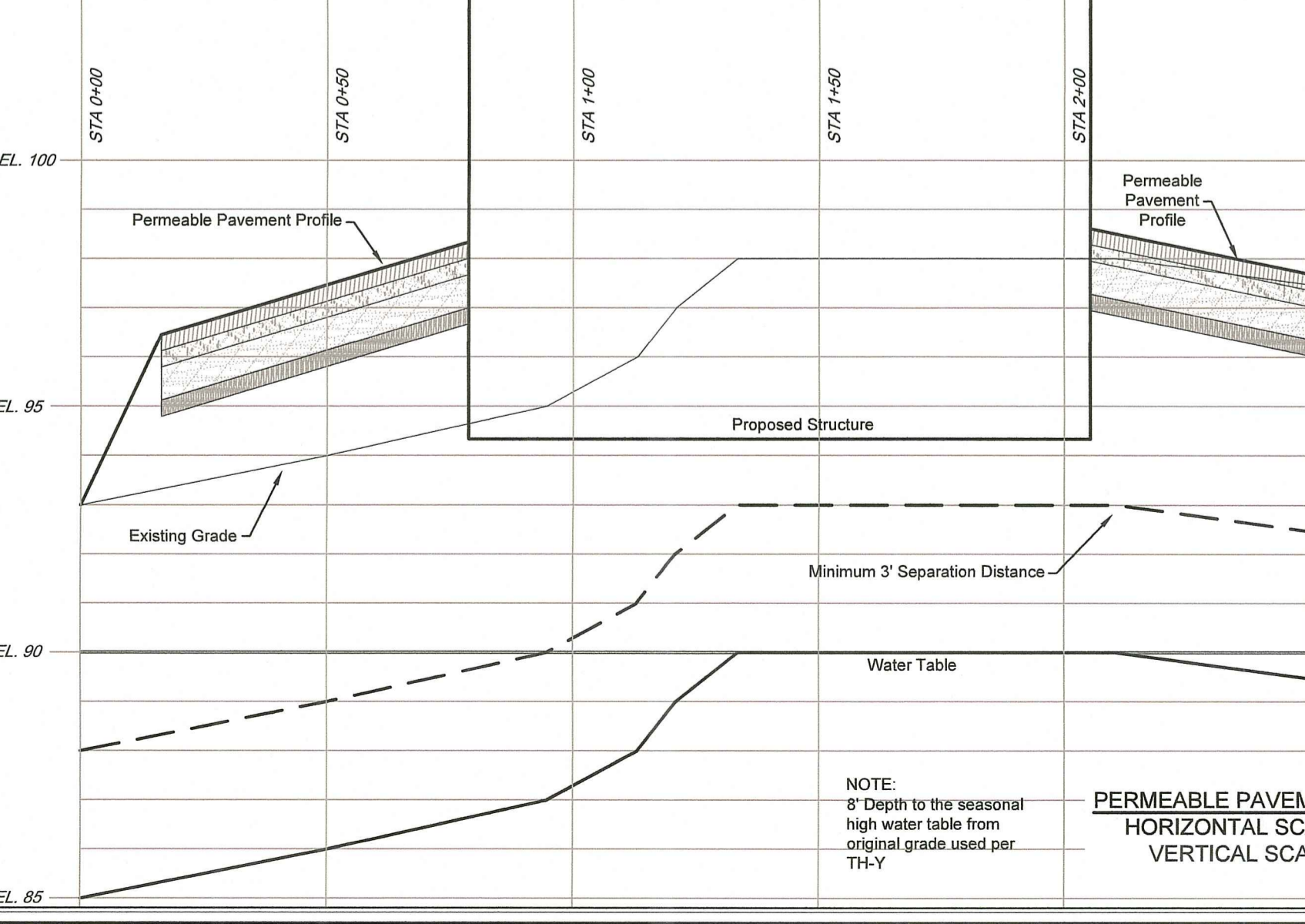
SEDIMENT TRAP SIZING CALCULATION:
Sediment traps have been sized for 1 acre of disturbance.

Volume Required = 1 Acre X 1" X 43,560 sf/acre X 1/12 in/ft = 3,630 cf
Wet Volume required = 3,630cf/2 = 1,815 cf
Dry Volume required = 3,630cf/2 = 1,815 cf

Area of Base of Wet Volume = 728 sf
Area of Top of Wet Volume = 1,254 sf
Wet Volume Provided = (1,254+728)/2 X 2' (Depth) = 1,982 cf

Area of Base of Dry Volume = 1,254 sf
Area of Top of Dry Volume = 1,714 sf
Dry Volume Provided = (1,714 + 1,254)/2 X 1.5' (Depth) = 2,226 cf

Area of Top of Pond (1' above weir elevation) = 2,052 sf
Total Volume Provided = 2,226cf + 1,982cf = 4,208cf



GENERAL NOTES & DETAILS
FOR
SOUTH TRAIL COMMERCE
PHASE II
LOCATED AT
Pole # 35 South County Trail
Exeter, Rhode Island

Checked By: MJC
Date: 09/13/2023

Drawn By: PJF
Scale: AS SHOWN

NO.	REVISION	BY	DATE
1	PER PERM COMMENTS	PJF	11/23

APPROVED WITH CONDITIONS AS SPECIFIED IN LETTER OF APPROVAL

FILE # 23-0210

APPROVED PLANS MUST BE AT CONSTRUCTION SITE

PATRICK J. FREEMAN
REGISTERED PROFESSIONAL ENGINEER
CIVIL
11/17/23

AMERICAN ENGINEERING, INC.
Professional Engineering & Land Surveying
400 South County Trail - Suite A 201
Exeter, Rhode Island 02822
E-Mail: DCoft@AmericanEngineeringRI.com
Phone (401) 294-4090 / Fax (401) 294-3625