

NOTE: THE 200 FOOT BUFFER LINE IS MEASURED FROM THE LOCATION OF THE WETLAND ALTERATION AS DELINEATED. SINCE THE 200' BUFFER LINE IS TOTALLY WITHIN THE APPLICANT'S BOUNDARY, THERE ARE NO BUTTERS WHICH NEED NOTIFICATION.

PLAT 7D NEW LOT 7
(INCLUDES PLAT 7D, LOT 6)
AREA = 4,843,492.24 S.F.
OR
111.19 ACRES
(AREA INCLUDES CEMETERY)

- NOTES:**
- Reference is hereby made to that certain plan entitled "Land to be conveyed to John A. & Joyce L. Silvia, Town of Richmond, R.I., Scale: 1" = 40', Nov. 1961, by Rossi and Lewis Engrs."
 - Reference is hereby made to that certain plan entitled "Plan of land owned by Paul O. & M. Pauline DeGannett In The Town of Richmond, R.I., Scale: 1" = 50', Date: Nov. 15, 1983, by Environmental Consultants, Inc., Dugway Bridge Rd., West Kingston, R.I., 02892."
 - Reference is hereby made to that certain plan entitled "Plan of Land Prepared For Washington County Pomona Grange, Assessor's Plat 7D, Lot 7, Wilbur Hill Rd., Richmond, R.I., Scale: 1" = 40', Date: Aug. 8, 1989, by Richard A. Greene & Assoc., Inc., 1009 Main St., Hope Valley, R.I."
 - Reference is hereby made to that certain plan entitled "Plan of Land For The Nature Conservancy Owned By Arthur Paul Gannett Richmond, Rhode Island, March 7, 1995, Scale: 1 Inch Equals 100 Feet by Marc N. Nyberg Associates, Inc., Land Surveyors and Planners, 11 Main Street, Slatersville, R.I."
 - The wetland edge and Grass Pond as shown on this plan are approximate and were delineated using aerial photos and maps of record.
 - The buildings and edge of parking locations as shown on this plan are approximate and were delineated using aerial photographs and maps of record.

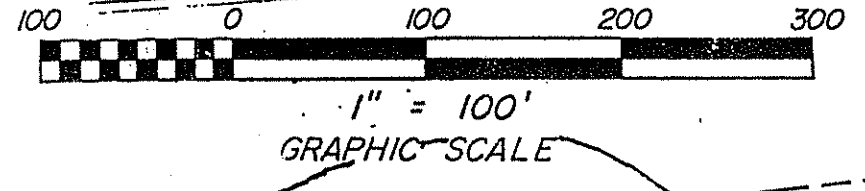
TABLE OF SOILS

Aa	= Arian
Chb	= Charlton very stony fine sandy loams
Efa	= Enfield silt loams
Wa	= Walpole sandy loam
Afa	= Agawam fine sandy loam
SuB	= Sutton verymstony fine sandy loam
Ghc	= Gloucester-Hinkley very stony sandy loam
Co	= Carlisle muck

SITE PLAN
PREPARED FOR
WASHINGTON COUNTY POMONA GRANGE, INC.
RICHMOND TOWNHOUSE ROAD & WILBUR HILL ROAD
ASSESSOR'S PLAT 7D, LOT 7
RICHMOND TOWNHOUSE ROAD
RICHMOND, RHODE ISLAND

RICHARD A. GREENE
1791
PROFESSIONAL LAND SURVEYOR

EUGENE F. SPRING
No. 3166
REGISTERED PROFESSIONAL ENGINEER



SCALE: 1" = 100' DATE: SEPT. 8, 1999
MAY, 2013, MAY, 2014, FEB. 20, 2015,
AUGUST 30, 2015,
NOVEMBER 23, 2015.
RICHARD A. GREENE & ASSOCIATES, INC.
220 RICHMOND TOWNHOUSE ROAD
CAROLINA, RHODE ISLAND 02812.
SHEET 1 OF 4

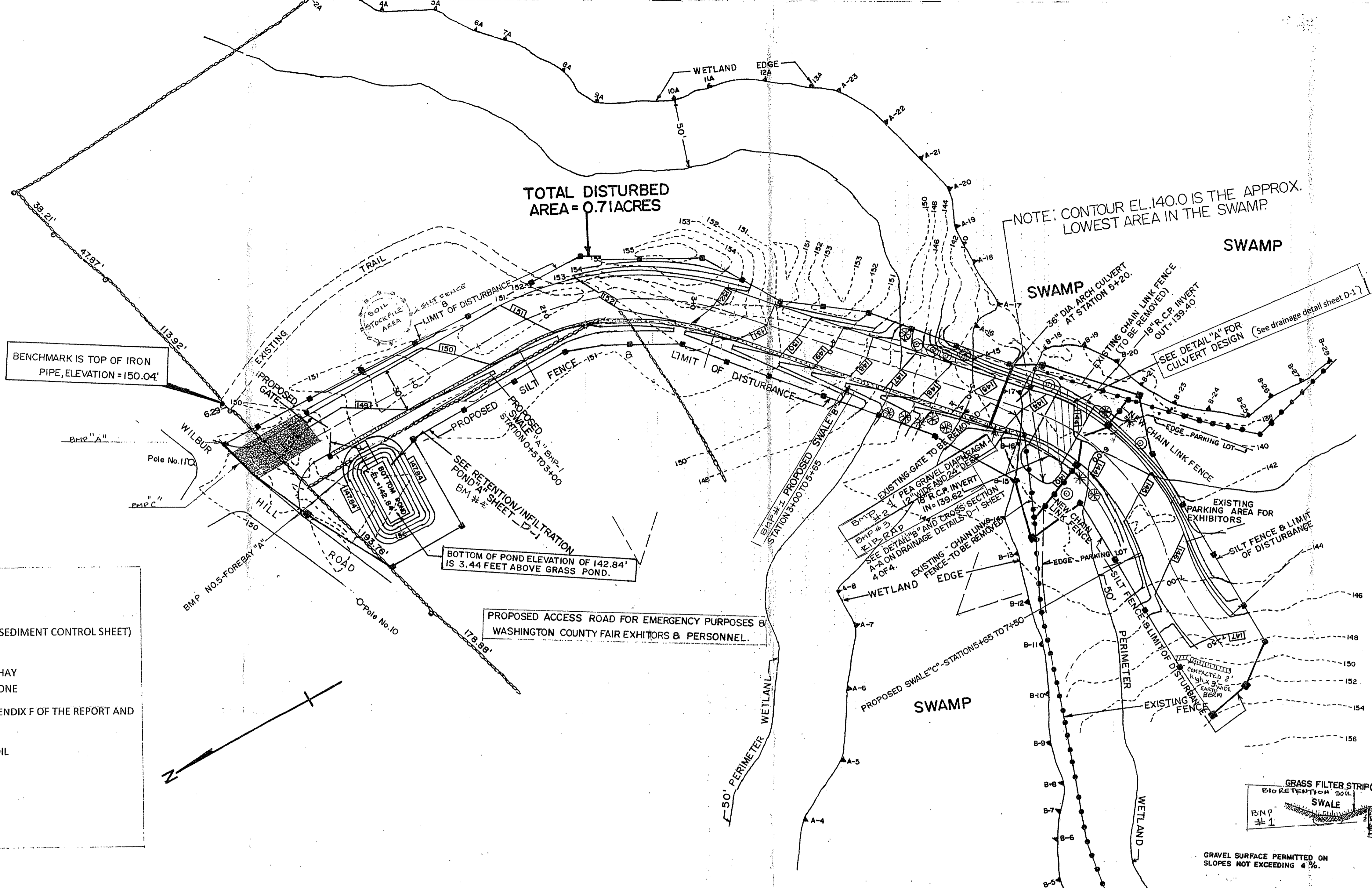
NOTE: SEE SHEET 2 OF 4 FOR ROADWAY AND CULVERT DESIGNS

I hereby certify that this map meets class III Survey and conforms to procedural and Technical Standards for the practice of Land Surveying in the State of Rhode Island and Providence Plantations as prescribed by the Rhode Island Society of Professional Land Surveyors, Inc. May 11/23/15

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
FILE # JLL-2017
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

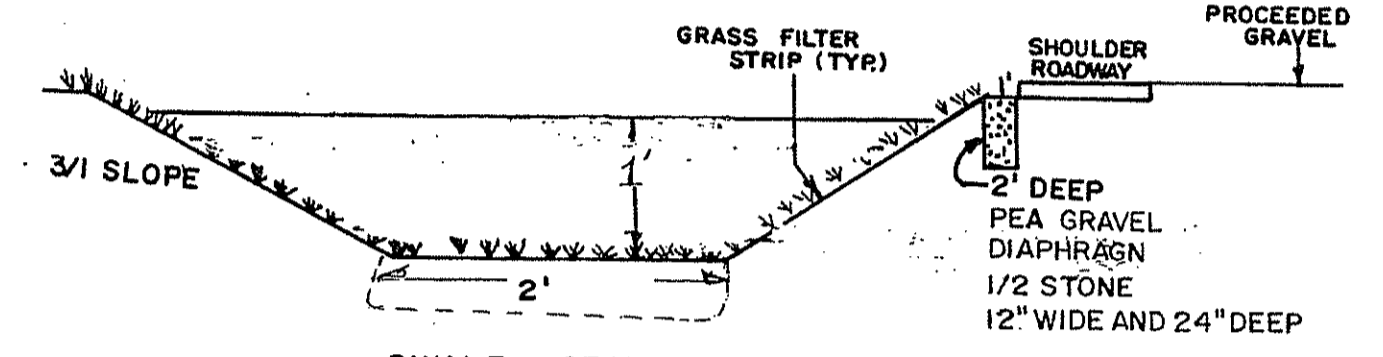
F4 D1 #52

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUL 06 2016 FILE # 14-0107
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

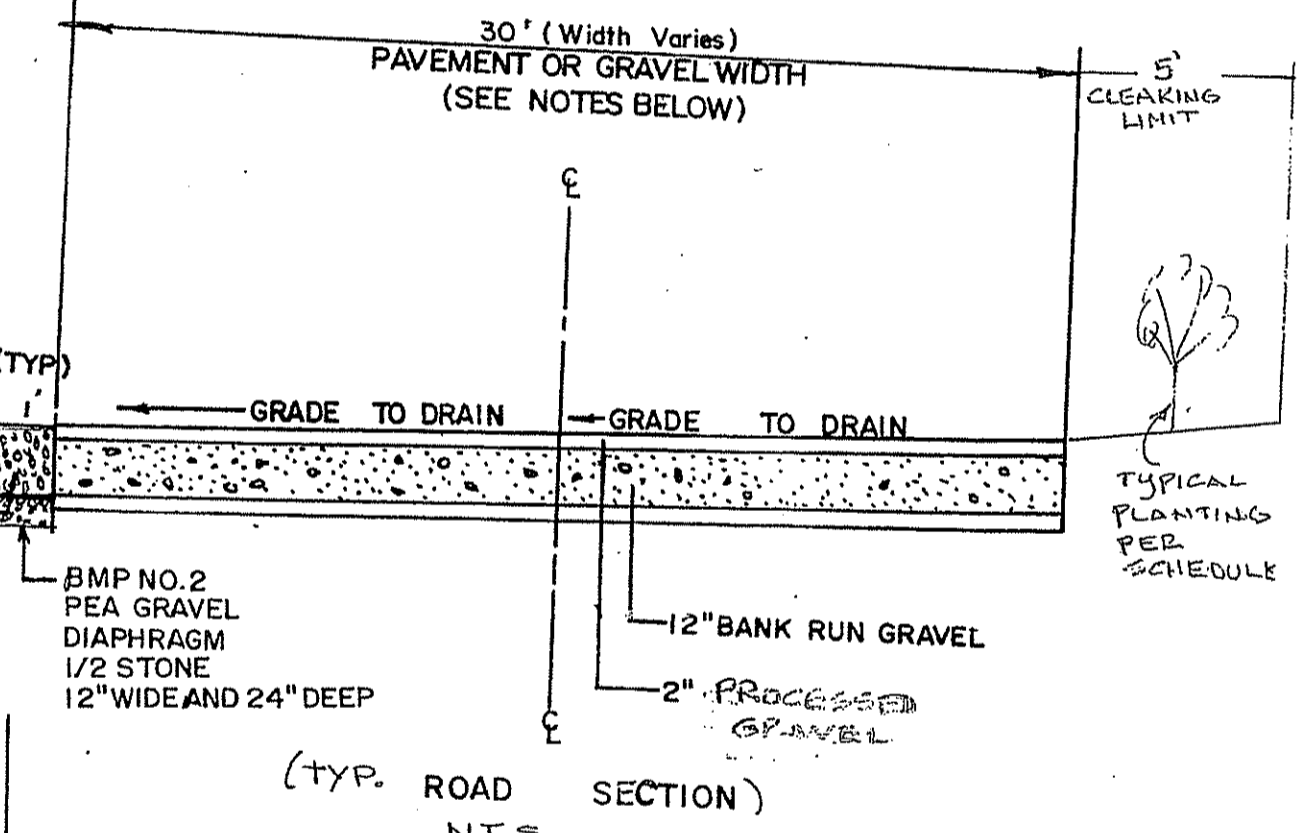


- PLANTING SCHEME**
- High bush blueberry, winterberry, and sweet pepper bush will be planted along both sides of the proposed access drive as indicated. The plants will be planted 10 feet on center, 3 feet in height after planting.
 - The bushes will be planted during the growing season (April through October).
 - Any plantings not surviving at least one growing season will be replaced.

- ⊙ Winterberry Bush (Typ.)
- * High Bush blueberry (Typ.)
- ⊗ Sweet Pepper Bush (Typ.)



SWALE SECTION
 (SEE DETAIL SHEET D-1 FOR SECTIONS OF SWALES A, B & C.)



TYPICAL ROAD SECTION
 (TYP. ROAD NOTES)

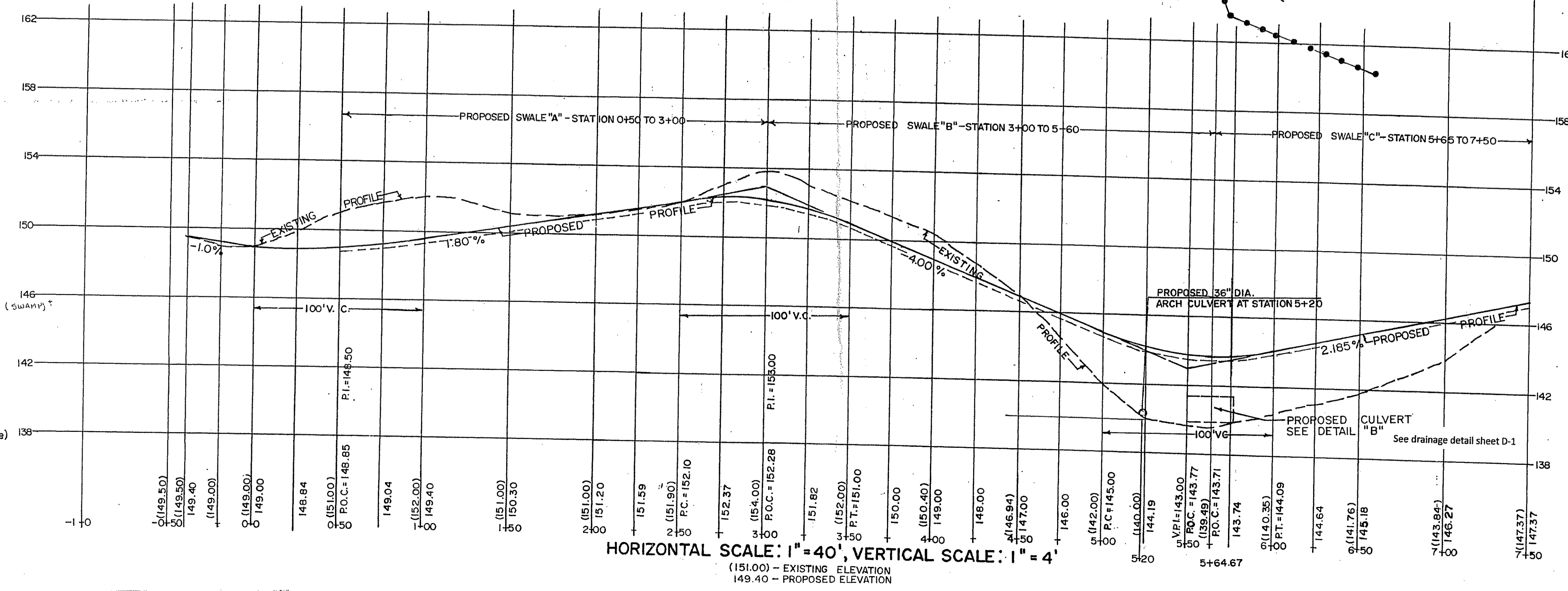
TABLE OF BEST MANAGEMENT PRACTICES

TEMPORARY (SEE THE SOIL EROSION AND SEDIMENT CONTROL SHEET)

- SILT FENCE/HAY BALE LINE
- SWALE EROSION CHECK/STONE OR HAY
- CONSTRUCTION PAD ENTRANCE/STONE

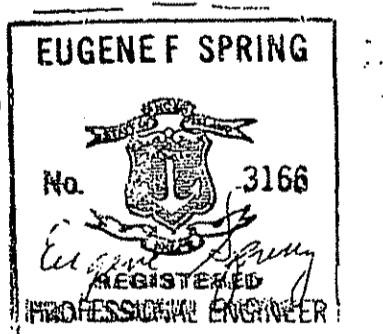
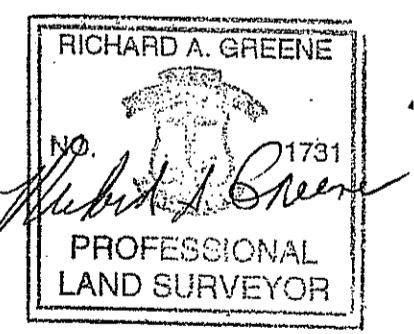
WATER QUALITY AND RECHARGE (SEE APPENDIX F OF THE REPORT AND DRAINAGE DETAIL SHEET D-1)

- DRY SWALE WITH BIORETENTION SOIL
- PEA GRAVEL DIAPHRAGM
- RIP-RAP
- INFILTRATION POND WITH FOREBAY
- SWALE FOREBAY



HORIZONTAL SCALE: 1" = 40' **VERTICAL SCALE: 1" = 4'**
 (151.00) - EXISTING ELEVATION
 149.40 - PROPOSED ELEVATION

- LEGEND**
- ⊙ Soil Evaluation, Test Hole w/ EL. OF GWL = 1-10 (SWAMP)
 - - - Existing Contour Elevation
 - - - Proposed Contour Elevation
 - 134x12 Existing Spot Elevation
 - - - Existing Stonewall
 - - - Proposed Silt Fencing (Limit of Disturbance)
 - ⊗ Flagged Wetland Edge with Flag Number



PLAN AND PROFILE PLAN
 PREPARED FOR
WASHINGTON COUNTY POMONA GRANGE, INC.

ASSESSOR'S PLAT 7D, LOT 7
 RICHMOND TOWNHOUSE ROAD &
 WILBUR HILL ROAD
 RICHMOND, RHODE ISLAND

SCALE: 1" = 40' DATE: MAY 2014, OCT. 2014, FEB. 2015
 RICHARD A. GREENE & ASSOCIATES, INC.
 220 RICHMOND TOWNHOUSE ROAD
 CAROLINA, R.I. 02812
 TEL. (401) 364-9405
 FAX. (401) 364-9403
 SHEET 2 OF 4

GENERAL NOTES

- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY THE STATE AND THE MUNICIPALITY IN WHICH WORK IS BEING PERFORMED PRIOR TO THE START OF ANY WORK.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DOCUMENT EXISTING CONDITIONS OF SURROUNDING PROPERTIES AND TO MAINTAIN THE INTEGRITY OF THE SAME. ANY DAMAGE TO AND THE COST OF REPAIR OF UTILITIES, ROADWAYS, STRUCTURES AND SURROUNDING PROPERTY SHALL BE FULLY BORNE BY THE CONTRACTOR.
- ALL WORKMANSHIP AND MATERIALS SHALL MEET OR EXCEED THE LATEST STANDARDS OF THE MUNICIPALITY AND THE LATEST STATE STANDARDS AND SPECIFICATIONS PUBLISHED FOR ROAD AND BRIDGE CONSTRUCTION.
- CONTACT DIG-SAFE AND UTILITY COMPANIES FOR EXACT ON-SITE LOCATION OF EXISTING UNDERGROUND UTILITIES AT LEAST FORTY-EIGHT HOURS PRIOR TO START OF CONSTRUCTION.
- ALL CONTRACTOR SHALL ADHERE TO ALL CONDITIONS OF CONSTRUCTION APPROVALS AND SHALL KEEP A COPY OF ALL APPROVALS ON SITE DURING CONSTRUCTION. CONTRACTOR SHALL READ ALL APPROVALS PRIOR TO START OF CONSTRUCTION AND SHALL CLARIFY ANY QUESTIONS BEFOREHAND WITH THE SITE ENGINEER AND MUNICIPALITY.
- ALL TEMPORARY AND PERMANENT CONTROLS (EG. HAY BALES, CHECK DAMS, ETC) SHALL BE MAINTAINED PER THE OPERATING AND MAINTENANCE PLAN; CONTACT THE SITE OWNER PRIOR TO INSTALLATION OF ANY WORK.

PLANTING OF WETLAND REQUIRED TREES & SHRUBS

- REFER TO THE PROJECT PLANS FOR SPECIES AND LOCATIONS
- ASSURE THAT THE PLANTING ARE HEALTHY PRIOR TO THE INSTALLATION
- PLANT AND STAKE PER THE PROJECT PLAN AND SPECIFICATIONS
- ANY PLANTINGS NOT SURVIVING AT LEAST 1 GROWING SEASON WILL BE REPLACED

STOCKPILING OF MATERIALS

- All cleared materials, trees, brush, etc. shall be removed from the wetland and buffer areas and stockpiled in a suitable upland area or completely removed from the site. The contractor shall check with the owner for a suitable location prior to construction.
- Stockpiled materials shall be surrounded with a silt fence or hay bale erosion control BMP until reused or disposed of.

CONSTRUCTION SEQUENCE

- Install perimeter sediment and erosion control barriers, as shown on the plans. Erosion control measures will be maintained or replaced as required during the construction period. The soil stockpile areas during construction will be encased with the silt fence/hay bale barrier.
- Clear the limited area of vegetation and remove from the site.
- Provide the required rough grading and provide the necessary bedding for the culverts at the proper elevation (dry season) and install the necessary backfill between and over the culverts and raise the road bed in this area to the proper elevations and stabilize the side slopes. Provide the during construction inspections as required by the operating and maintenance requirements.
- Install the proper road sub grade and compact.
- Install the finish process grass road surface, compact and install the final grassed swale system and install the permanent loam seed.
- Upon satisfactory growth of the swale system and side slopes, remove the temporary erosion control measures.
- Provide the final inspection and approval as required by the operating and maintenance requirements and provide the final reports to the owner.
- Refer to the "Construction Runoff Inspection" section below for additional details and the "Operating and Maintenance Program in the written report which accompanies the project documents.

REINFORCED CONCRETE PIPE AND FLARED END SECTION BEDDING REQUIREMENTS

- The reinforced concrete pipe culverts and flared end sections as shown on the plans shall be placed on RIDOT Class C bedding consisting of crushed stone conforming to subsection M.01.04, namely 100 percent shall pass the 1/2 inch sieve and 0-5 percent shall pass the #4 sieve

TEMPORARY STONE CHECK DAM FOR SWALES

The installation shall be in accordance with the RI Soil Erosion Control Handbook.

They shall not exceed 3 ft. in height at the center. Extend the stone check dam to the full width of the drainage way, plus 18" on each side leaving the height of the center of the stone check dam approximately 6" lower than the height of the outer edges (see the attached detail)

The maximum spacing between check dams shall be such that the toe of the upstream check dam is at the same elevation as the top of the downstream check dam.

SEDIMENT REMOVAL

Sediment will accumulate behind the check dams. Sediment should be removed when it has accumulated to one-half of the original height of the dam. Trapping efficiencies at check dams are reduced if accumulated sediment is not removed.

CHECK DAM REMOVAL

Check dams must be removed when their useful life has been completed. In this permanently constructed swale, the check dams should be removed when the permanent grass bioretention swale is finished. The temporary check dam may be removed or graded into the flow line of the channel over the area left disturbed by sediment removal. Grade so there is no obstruction to flow. In this case, the temporary check dam stone must be completely removed to assure mowing can be done. Stabilize the disturbed soil after removal and continue the installation of the swale

INSPECTION AND MAINTENANCE

The temporary check dam inspection and maintenance shall comply with the Soil Erosion Control Operating and Maintenance Control Plan (see the open channel system construction and maintenance checklist in the report)

EROSION CONTROL

- DISTURBANCE OF SOIL SURFACES IS REGULATED BY STATE LAW AND LOCAL ORDINANCE. ALL WORK SHALL COMPLY WITH THE FOLLOWING CRITERIA TO PREVENT OR MINIMIZE SOIL EROSION.
- THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL DEVICES IS THE RESPONSIBILITY OF THE CONTRACTOR. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLAN, OR AS DIRECTED BY THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND THE TOWN OF CHARLESTOWN. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED IN EFFECTIVE CONDITION DURING CONSTRUCTION.
- THE CONTRACTOR SHALL USE THE LATEST EDITION OF THE "STATE OF RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" IN CONSTRUCTING THE EROSION AND SEDIMENT CONTROLS INDICATED ON THE PLANS. ALL EROSION AND SEDIMENT CONTROL MEASURES OR WORKS AND REHABILITATION MEASURES MUST CONFORM TO OR EXCEED THE SPECIFICATIONS OR STANDARDS SET OUT IN THIS HANDBOOK.
- THE CONTRACTOR IS RESPONSIBLE FOR THE TIMELY INSTALLATION, INSPECTION, MAINTENANCE, AND/OR REPLACEMENT OF ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES TO ENSURE PROPER OPERATION THROUGHOUT THE LIFE OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF PERMANENT MEASURES UNTIL CONSTRUCTION OF THE PROJECT IS COMPLETED OR UNTIL IT IS ACCEPTED BY THE OWNER. THE OWNER IS RESPONSIBLE THEREAFTER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN ROADS, CONTROL DUST, AND TAKE ALL NECESSARY MEASURES TO ENSURE THAT THE SITE AND ALL ROADS BE MAINTAINED IN A MUD- AND DUST-FREE CONDITION AT ALL TIMES THROUGHOUT THE LIFE OF THE CONTRACT. DUST CONTROL SHALL INCLUDE, BUT IS NOT LIMITED TO, WATER AND/OR CRUSHED STONE OR COARSE GRAVEL, SUBJECT TO THE APPROVAL OF THE ENGINEER.
- THE PROPOSED CONSTRUCTION ENTRANCE(S) SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND DETAILS. ALL VEHICLE TRAFFIC ENTERING OR EXITING THE PROJECT SITE SHALL PASS OVER THE CONSTRUCTION ENTRANCE(S) TO REDUCE THE TRACKING OR FLOWING OF SEDIMENT ONTO THE SURROUNDING ROADWAYS. THE CONSTRUCTION ENTRANCE(S) SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE SURROUNDING ROADWAYS. THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO THE SURROUNDING ROADWAYS MUST BE REMOVED IMMEDIATELY. ADDITIONAL ENTRANCES FOR CONSTRUCTION PHASING SHALL BE INSTALLED AS REQUIRED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADWAYS.
- THE CONTRACTOR SHALL INSTALL ALL PERIMETER SEDIMENT CONTROL BARRIERS AS SHOWN ON THE SITE PLANS OR AS MAY BE REQUIRED TO PREVENT SEDIMENT FLOW TO SURFACE WATERS. A ROW OF STAKED HAYBALES OR A SILT FENCE SHALL ALSO BE INSTALLED AROUND ANY SOIL STOCKPILE AREAS. CLEANOUT OF ACCUMULATED SEDIMENT BEHIND PERIMETER SEDIMENT CONTROL BARRIERS IS NECESSARY IF ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER BECOMES FILLED WITH SEDIMENT. REPLACE BARRIER IMMEDIATELY IF BARRIER DECOMPOSED OR BECOMES INEFFECTIVE.
- TEMPORARY VEGETATIVE COVER SHALL BE APPLIED TO ANY DISTURBED AREAS (INCLUDING SOIL STOCKPILE AREAS) THAT HAVE NOT YET REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS. TEMPORARY SEEDING MAY BE APPLIED ANYTIME BETWEEN MARCH 1 THROUGH JUNE 15 AND AUGUST 15 THROUGH OCTOBER 1.

THIS TEMPORARY VEGETATIVE COVER SHALL CONSIST OF 60% OF ANNUAL OR PERENNIAL RYEGRASS AND 40% OF MILLET OR SUDANGRASS OR 100% OF WINTER RYE. ANNUAL OR PERENNIAL RYEGRASS SHALL BE PLANTED AT A RATE OF 1.5 POUNDS PER 1,000 SQUARE FEET. WINTER RYE SHALL BE PLANTED AT A RATE OF 2.5 POUNDS PER 1,000 SQUARE FEET, AND MILLET OR SUDANGRASS SHALL BE PLANTED AT A RATE OF 1.0 POUND PER 1,000 SQUARE FEET.

LIMESTONE AND FERTILIZER SHALL BE APPLIED ACCORDING TO SOIL TEST RECOMMENDATIONS OFFERED BY THE UNIVERSITY OF MASSACHUSETTS SOIL TESTING LABORATORY. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 1.5 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS: (1) 3 TONS PER ACRE (OR 135 POUNDS PER 1,000 SQUARE FEET) FOR CLAY, CLAY LOAM AND HIGH ORGANIC SOIL; (2) 2 TONS PER ACRE (OR 80 POUNDS PER 1,000 SQUARE FEET) FOR SANDY LOAM, LOAM, OR SILT LOAM; AND (3) 1 TON PER ACRE (OR 40 POUNDS PER 1,000 SQUARE FEET) FOR LOAMY SAND OR SAND. TEMPORARY VEGETATIVE COVER SHALL BE INSTALLED AS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.

PERMANENT VEGETATIVE COVER SHALL BE APPLIED TO ALL DISTURBED AREAS THAT HAVE REACHED FINISHED GRADE AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY CEASED. SEEDING DATES ARE TO BE APPLIED TO SAND AND AUGUST 15 TO SEPTEMBER 30. PERMANENT VEGETATIVE COVER NOT OTHERWISE SPECIFIED ON THE PLANS SHALL RECEIVE THE FOLLOWING SEED MIXTURE (ALSO KNOWN AS URI NUMBER 2 SEED):

40% OF RED FESCUE	APPLICATION RATE: 0.90LBS/1,000SF
40% OF KENTUCKY BLUEGRASS	APPLICATION RATE: 0.90LBS/1,000SF
20% OF PERENNIAL RYEGRASS	APPLICATION RATE: 0.45LBS/1,000SF

LIMESTONE AND FERTILIZER SHALL BE APPLIED ACCORDING TO SOIL TEST RECOMMENDATIONS OFFERED BY THE UNIVERSITY OF MASSACHUSETTS SOIL TESTING LABORATORY. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 1.5 POUNDS PER 1,000 SQUARE FEET OF 10-20-20 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS: 4 TONS PER ACRE (OR 160 POUNDS PER 1,000 SQUARE FEET) FOR CLAY, CLAY LOAM AND HIGH ORGANIC SOIL; 3 TONS PER ACRE (OR 120 POUNDS PER 1,000 SQUARE FEET) FOR SANDY LOAM, LOAM, OR SILT LOAM; AND 2 TONS PER ACRE (OR 80 POUNDS PER 1,000 SQUARE FEET) FOR LOAMY SAND OR SAND.

AREAS WHICH HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING IN ADDITION TO THE MULCH WHICH CANNOT BE SEEDING DATES AND ANY SOIL STOCKPILE AREAS. TEMPORARY MULCHING SHOULD BE PERFORMED AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY CEASED UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS.

ALL MULCHES MUST BE INSPECTED PERIODICALLY, IN PARTICULAR AFTER RAINSTORMS, TO CHECK FOR RILL EROSION. WHERE EROSION IS OBSERVED, ADDITIONAL MULCH MUST BE APPLIED. IF NETTING IS USED, THE NET SHALL BE REINSTALLED AS NECESSARY AFTER REPAIRING DAMAGE TO SLOPE. INSPECTIONS SHALL TAKE PLACE UNTIL GRASSES ARE FIRMLY ESTABLISHED. GRASS IS CONSIDERED TO BE FIRMLY ESTABLISHED AT A MINIMUM HEIGHT OF THREE (3) INCHES.

STRAW OR HAY MULCH, WOOD FIBER MULCH, AND HYDROMULCH ARE RECOMMENDED. STRAW OR HAY MULCH SHOULD BE APPLIED AT A RATE OF 2 TONS PER ACRE. WOOD FIBER MULCH SHOULD BE APPLIED AT A RATE OF 1,000-2,000 POUNDS PER ACRE. OR HYDROMULCH APPLIED AT A RATE OF 1,500 POUNDS PER ACRE. WOOD FIBER MULCH SHOULD NOT BE USED ALONE IN THE WINTER OR DURING HOT DRY WEATHER. STRAW OR HAY MULCH MUST BE ANCHORED IMMEDIATELY AFTER SPREADING TO PREVENT WINDBLOWING. MULCH ANCHORING SHOULD ALSO BE USED ON SLOPES GREATER THAN THREE (3) PERCENT AND CONCENTRATED FLOW AREAS SUCH AS DIVERSION AND WATERWAY CHANNELS.

IF PERMANENT OR TEMPORARY SEEDING CANNOT BE COMPLETED IMMEDIATELY OR WITHIN THE RECOMMENDED SEEDING DATES, USE THE TEMPORARY MULCHING MEASURE TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

ANY EXISTING OR PROPOSED STORMWATER STRUCTURES THAT MAY BE SUBJECT TO SEDIMENTATION SHALL BE PROTECTED WITH STAKED HAYBALES, SILT FENCE, SILT SACKS, OR OTHER APPROVED MEASURES THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.

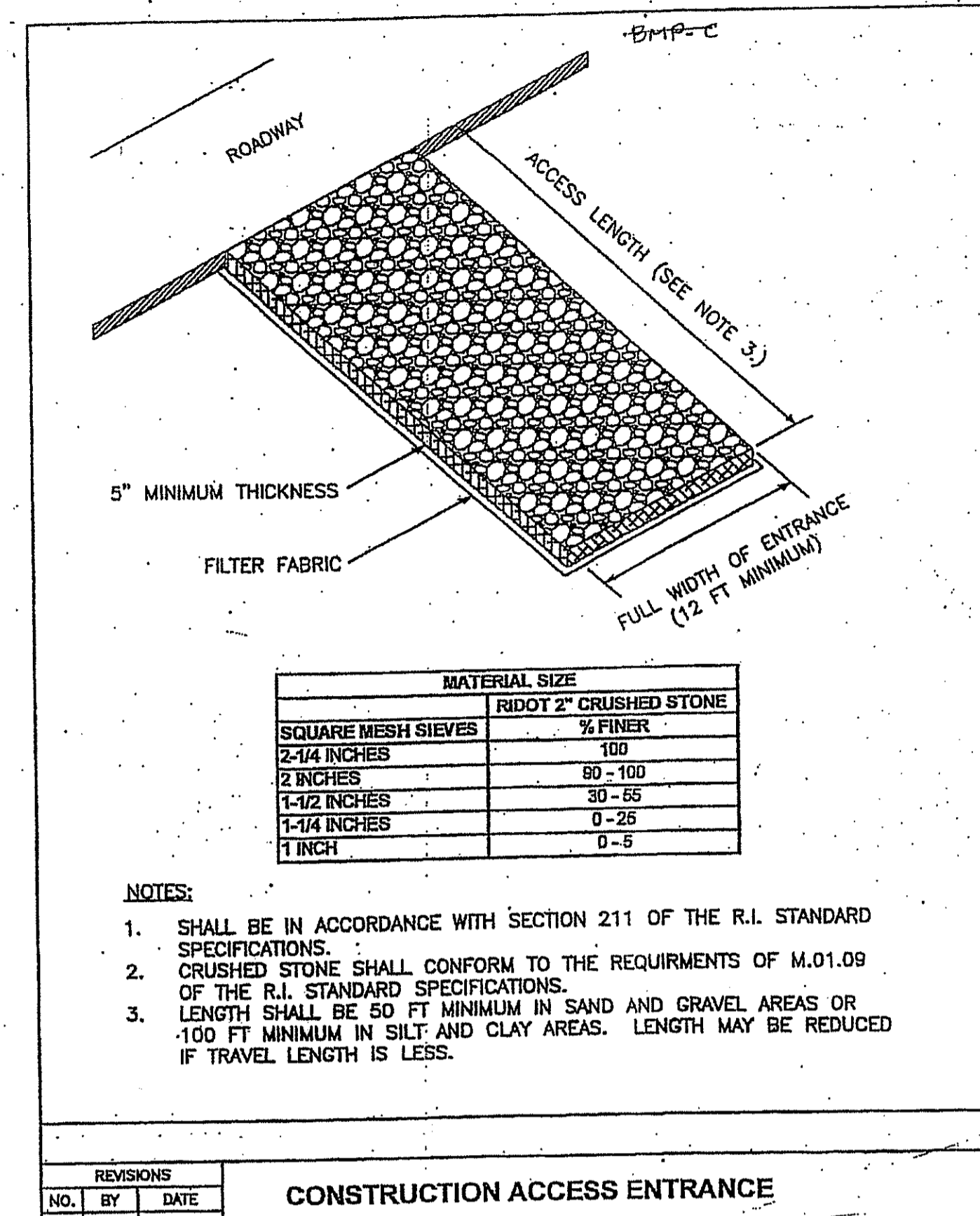
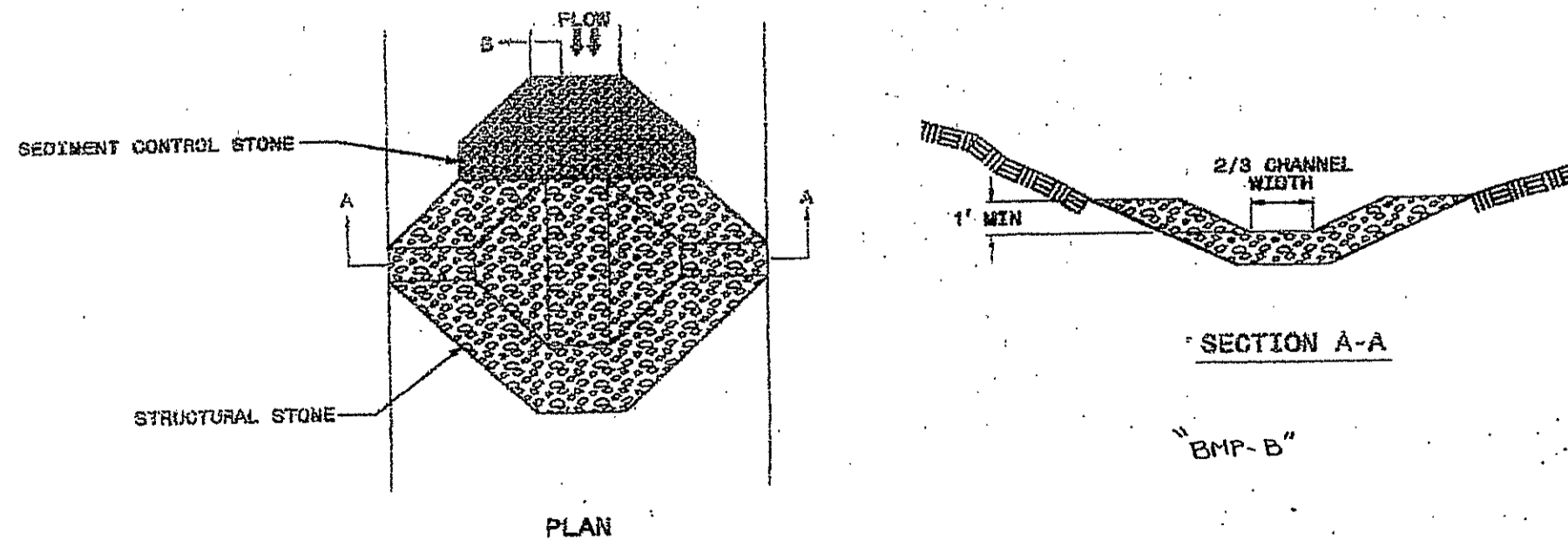
ALL EXCESS EXCAVATED MATERIALS, EXCESS FILL, EXCESS CONSTRUCTION MATERIALS, AND DEBRIS SHALL BE REMOVED FROM THE SITE AND SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS.

WASTE DISPOSAL MATERIALS WHICH COULD BE A POTENTIAL SOURCE OF STORMWATER POLLUTION SUCH AS GASOLINE, DIESEL FUEL, HYDRAULIC OIL, ETC., SHALL BE STORED AT THE END OF EACH DAY IN A STORAGE TRAILER OR COVERED LOCATION AND PROPERLY DISPOSED OF. ALL TYPES OF WASTE GENERATED AT THIS SITE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH STATE LAW AND/OR REGULATIONS.

SPILL PREVENTION AND RESPONSE PROCEDURE

- ANY INADVERTENT OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE STORMWATER DISPOSAL SYSTEM REQUIRES IMMEDIATE NOTIFICATION TO THE RIDEM DIVISION OF ENFORCEMENT AT (401) 222-3070 (THE 24-HOUR EMERGENCY RESPONSE PHONE NUMBER).
- ANY INCIDENT OF GROUNDWATER CONTAMINATION RESULTING FROM THE IMPROPER DISCHARGE OF POLLUTANTS TO THE STORMWATER DISPOSAL SYSTEM SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AS WELL AS ANY OTHER PARTIES THAT THE RIDEM DETERMINES TO BE RESPONSIBLE FOR THE CONTAMINATION. PURSUANT TO STATE LAWS AND REGULATIONS, THAT THE RIDEM MAY REQUIRE THE PROPERTY OWNER AND OTHER RESPONSIBLE PARTIES TO REMEDIATE ANY INCIDENTS THAT MAY ADVERSELY IMPACT GROUNDWATER QUALITY.
- UPON TRANSFER OF THE PROPERTY, THE NEW OWNER SHALL BE INFORMED AS TO THE LEGAL RESPONSIBILITIES ASSOCIATED WITH DISPOSAL SYSTEM, AS INDICATED ABOVE.
- THE OWNER WILL CREATE A MAINTENANCE LOG, SHOWING THE DATE, TIME, NAME OF INSPECTOR, INSPECTION COMMENTS, AND ANY ACTIONS TAKEN BASED ON THE ABOVE REFERENCE SCHEDULE.
- THE PROPERTY OWNER SHALL BE RESPONSIBLE TO REMEDIATE INCIDENTS THAT ADVERSELY IMPACT GROUNDWATER QUALITY.

Stone Check Dam Installation



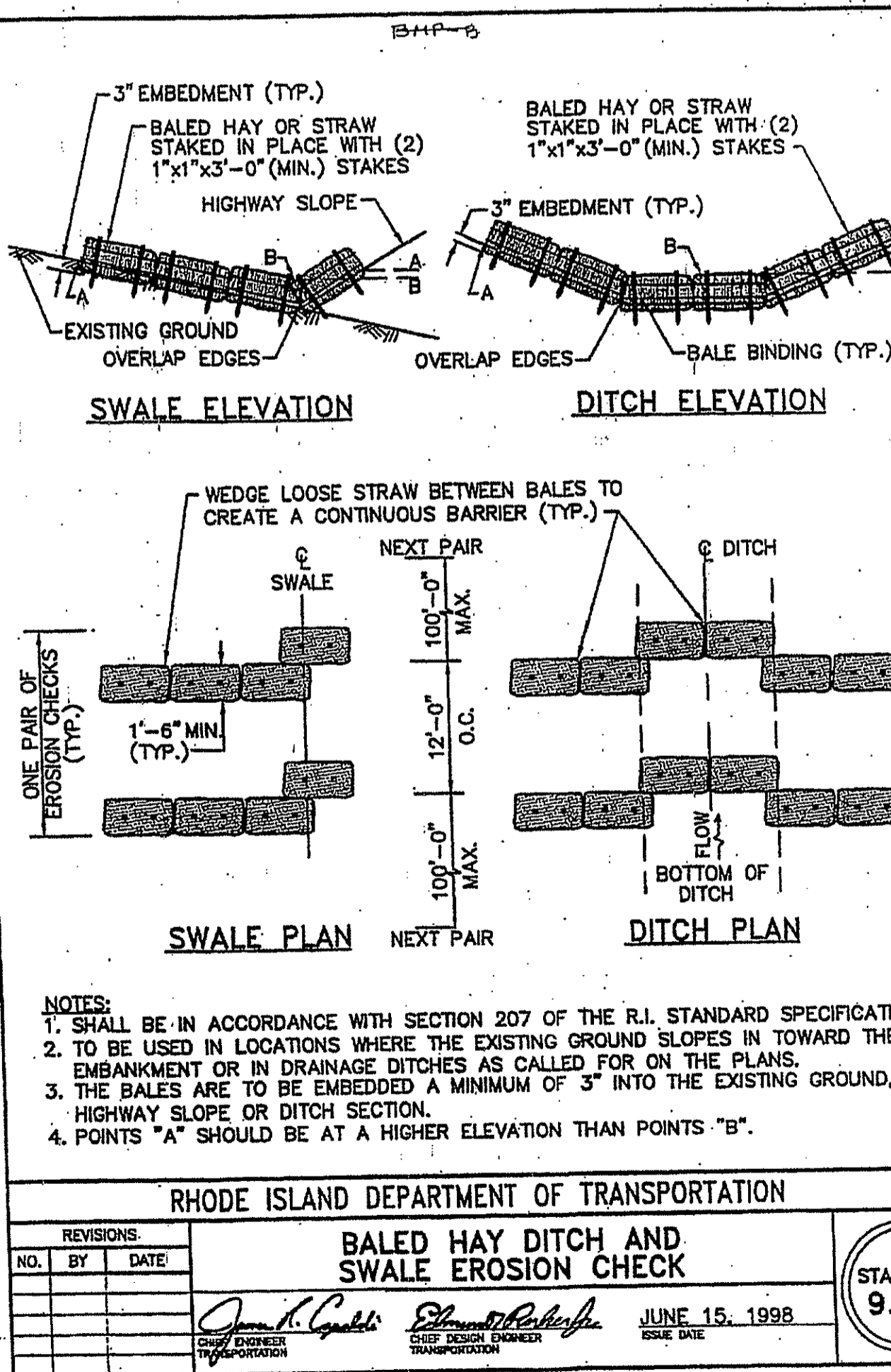
MATERIAL SIZE	
SQUARE MESH SIEVES	RIDOT 2" CRUSHED STONE
2-1/4 INCHES	100
2 INCHES	80 - 100
1-1/2 INCHES	30 - 65
1-1/4 INCHES	0 - 25
1 INCH	0 - 5

NOTES:

- SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.
- CRUSHED STONE SHALL CONFORM TO THE REQUIREMENTS OF M.01.09 OF THE R.I. STANDARD SPECIFICATIONS.
- LENGTH SHALL BE 50 FT MINIMUM IN SAND AND GRAVEL AREAS OR 100 FT MINIMUM IN SILT AND CLAY AREAS. LENGTH MAY BE REDUCED IF TRAVEL LENGTH IS LESS.

CONSTRUCTION ACCESS ENTRANCE

REVISIONS		
NO.	BY	DATE



- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 207 OF THE R.I. STANDARD SPECIFICATIONS.
 - TO BE USED IN LOCATIONS WHERE THE EXISTING GROUND SLOPES IN TOWARD THE EMBANKMENT OR IN DRAINAGE DITCHES AS CALLED FOR ON THE PLANS.
 - THE BALES ARE TO BE EMBEDDED A MINIMUM OF 3" INTO THE EXISTING GROUND, HIGHWAY SLOPE OR DITCH SECTION.
 - POINTS "A" SHOULD BE AT A HIGHER ELEVATION THAN POINTS "B".

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

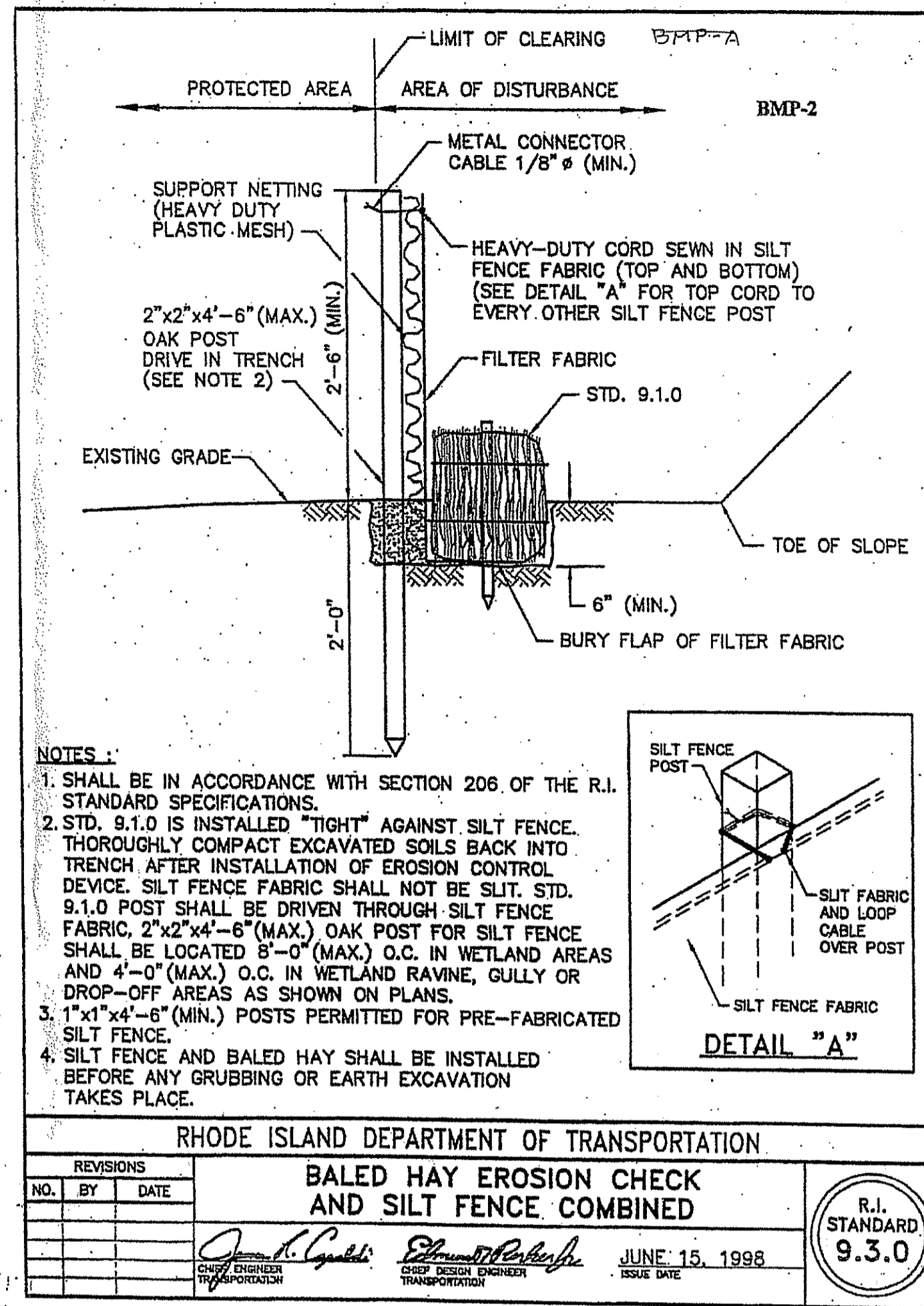
BALED HAY DITCH AND SWALE EROSION CHECK

REVISIONS table with columns NO., BY, DATE.

Signature: *James A. Gagliardi* (Site Engineer) and *Edward P. Bielecki* (Chief Design Engineer, Rhode Island Department of Transportation).

DATE: JUNE 15, 1998

R.I. STANDARD 9.4.0



NOTES:

- SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
- STD. 9.1.0 IS INSTALLED "TIGHT" AGAINST SILT FENCE. THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICE. SILT FENCE FABRIC SHALL NOT BE SILT. STD. 9.1.0 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC 2"x2"x4'-6" (MAX.) OAK POST FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
- 1"x1"x4'-6" (MIN.) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
- SILT FENCE AND BALED HAY SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

BALED HAY EROSION CHECK AND SILT FENCE COMBINED

REVISIONS table with columns NO., BY, DATE.

Signature: *James A. Gagliardi* (Site Engineer) and *Edward P. Bielecki* (Chief Design Engineer, Rhode Island Department of Transportation).

DATE: JUNE 15, 1998

R.I. STANDARD 9.3.0

SOIL EROSION CONTROL OPERATING AND MAINTENANCE PLAN

The site owner must enter into an agreement with DEM as stipulated in Appendix H of the accompanying Stormwater Management report.

SOIL EROSION CONTROL PLAN "EMERGENCY ACCESS ROAD PROJECT"

PREPARED FOR
WASHINGTON COUNTY POMONA GRANGE, INC.

ASSESSOR'S PLAT 7D, Lot 7
RICHMOND TOWNHOUSE ROAD & WILBUR HILL ROAD

RICHMOND, RHODE ISLAND
REVISED: AUGUST 30, 2015, NOVEMBER 23, 2015.

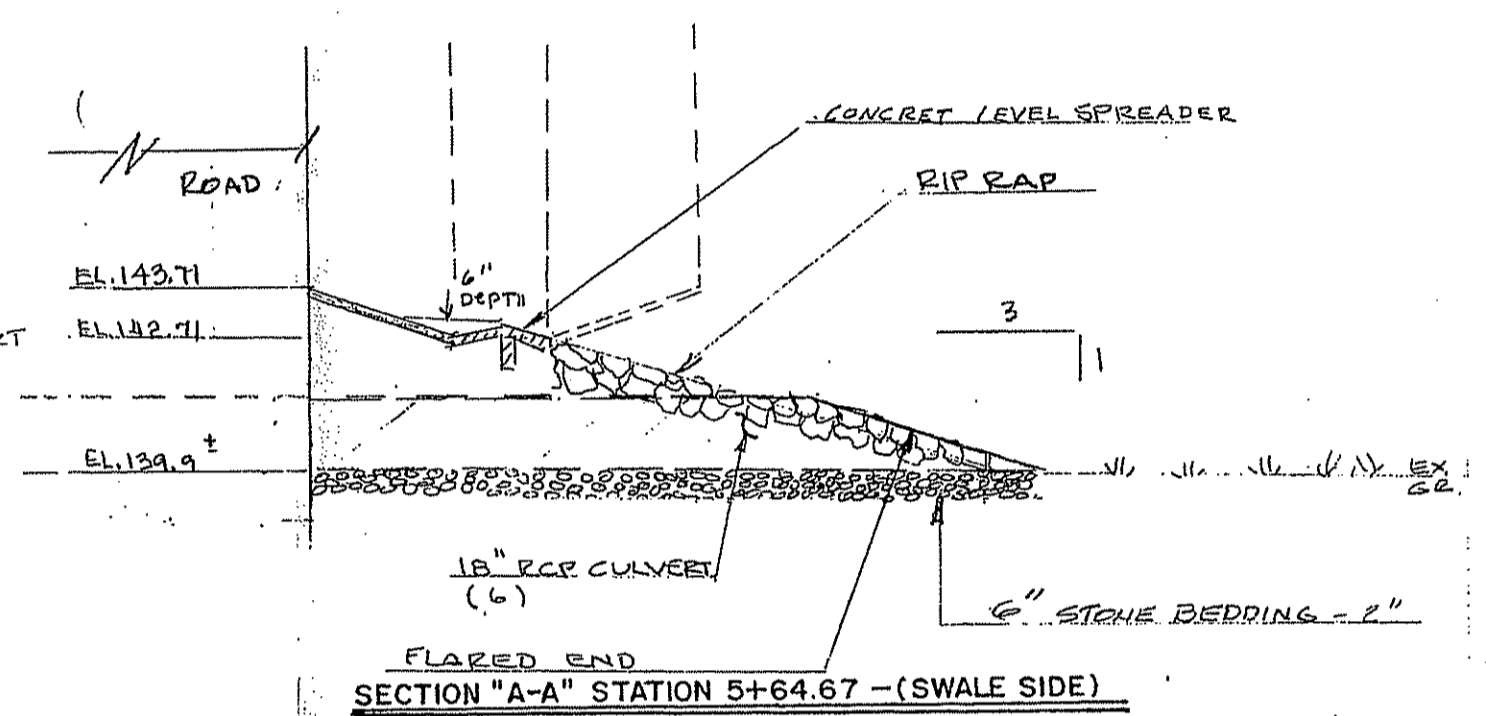
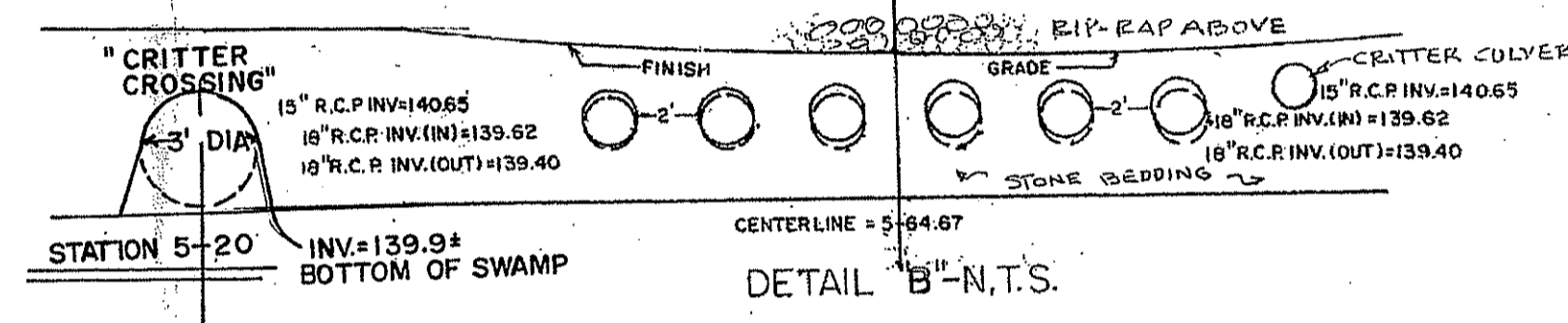
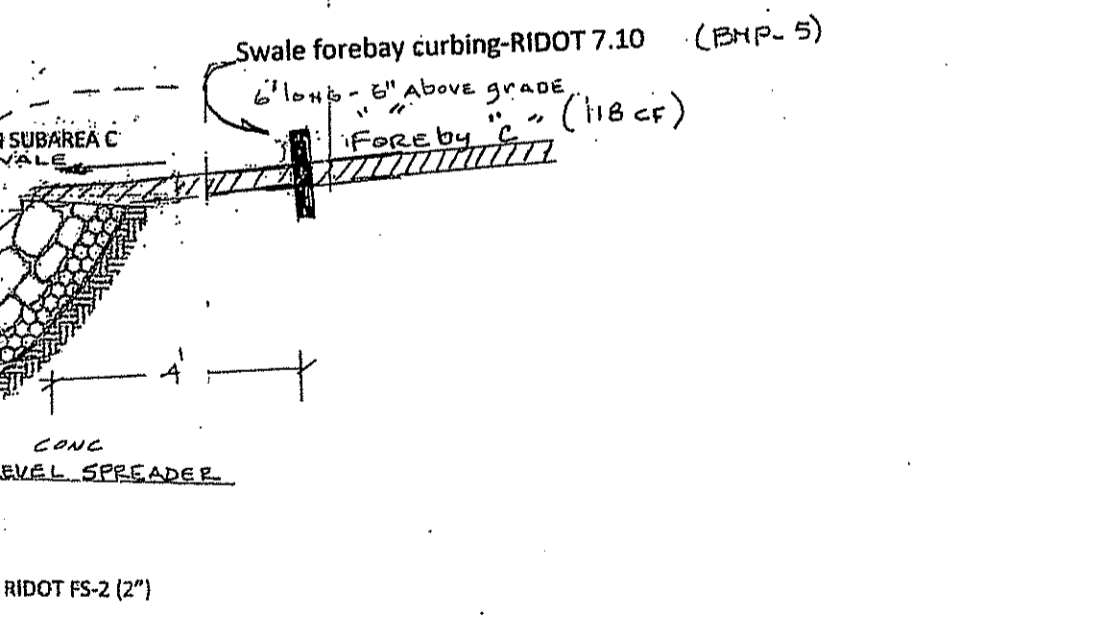
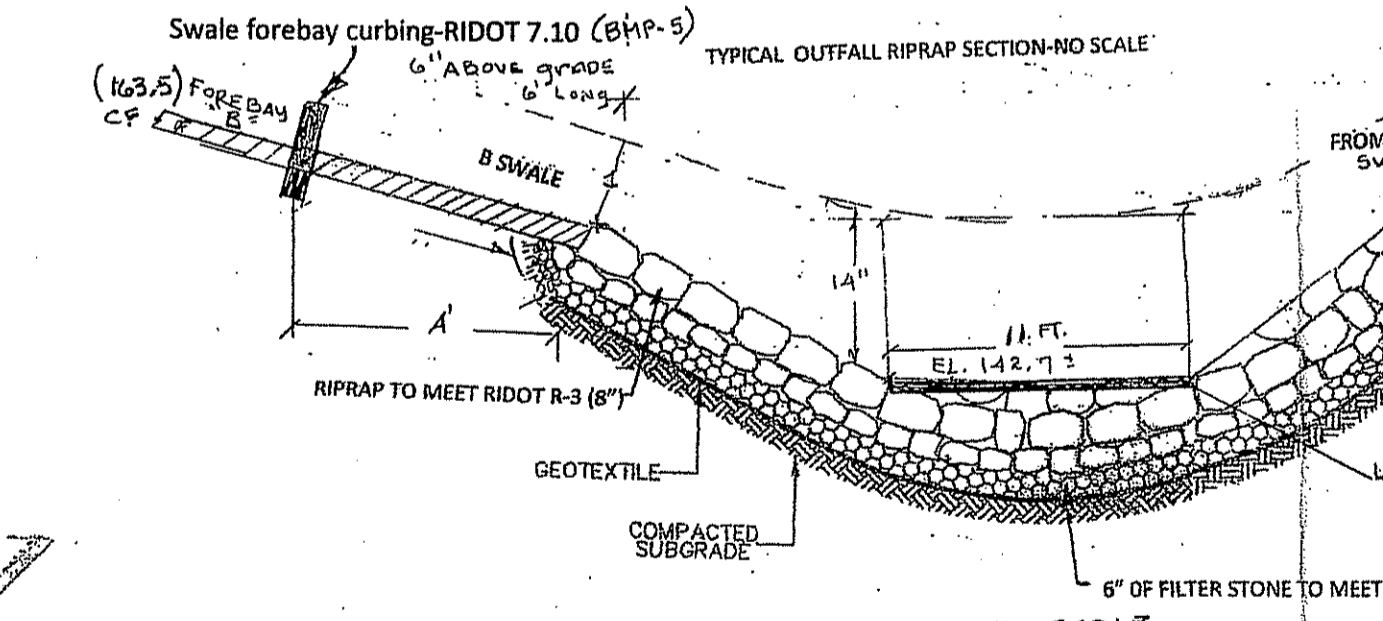
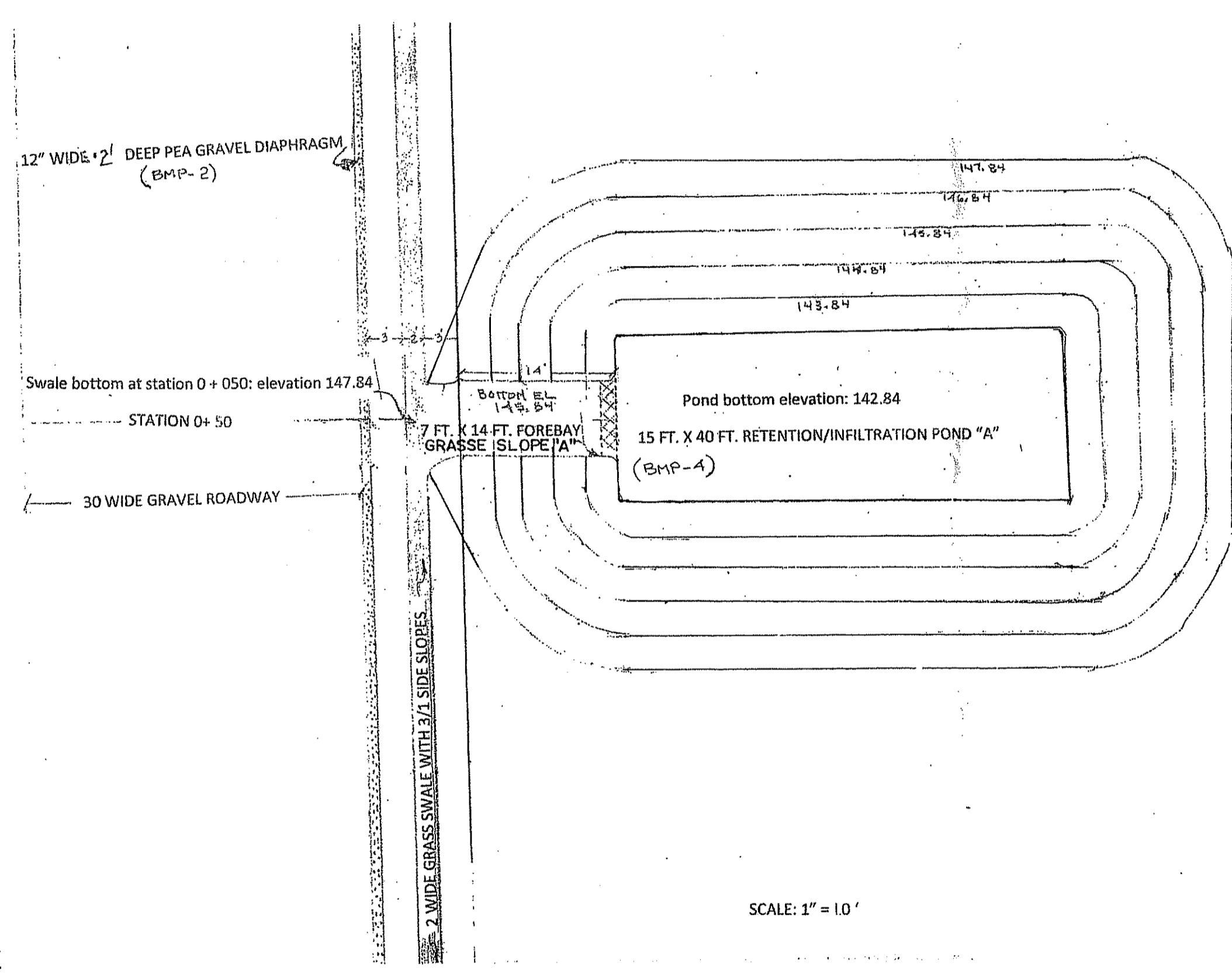
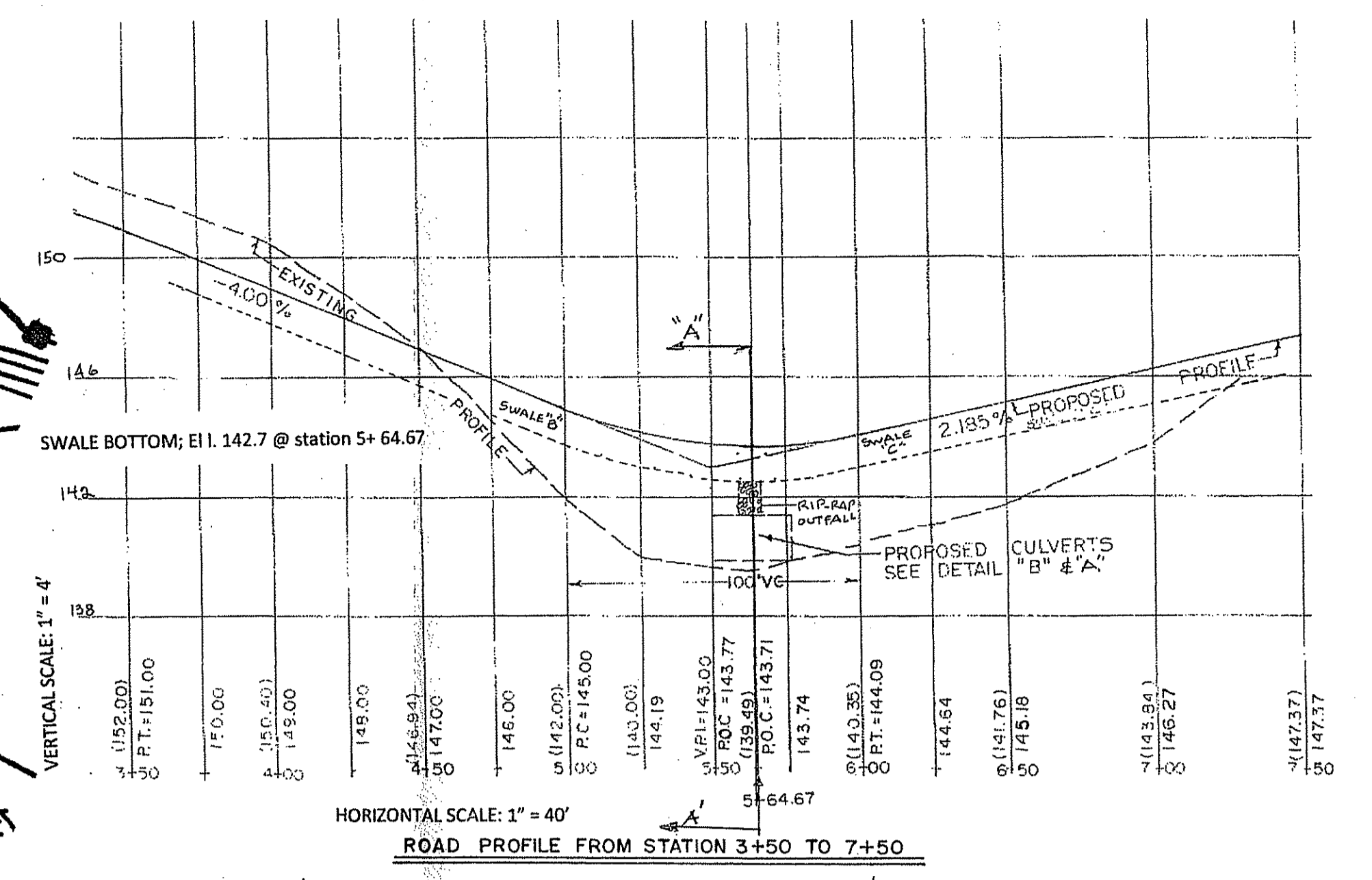
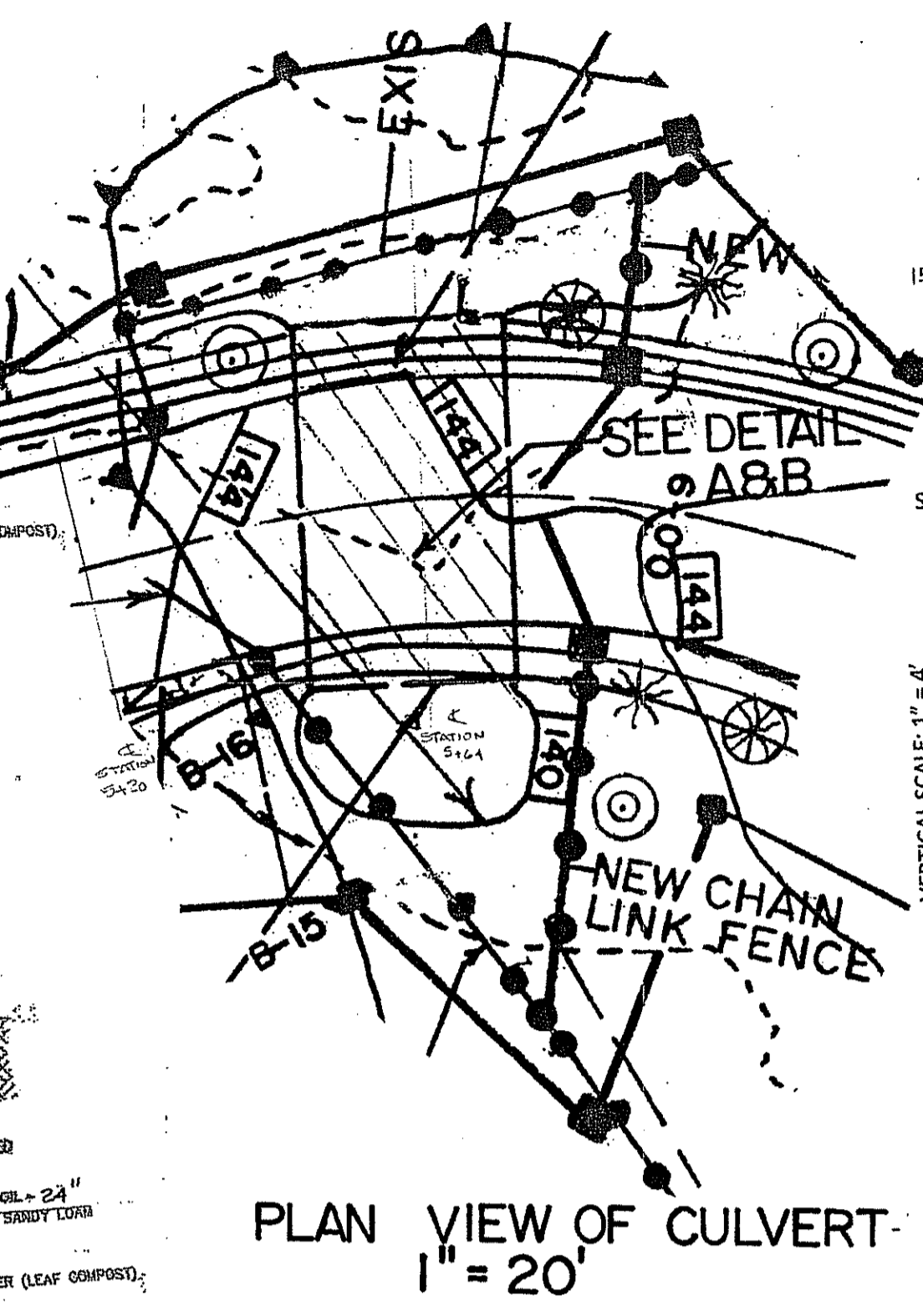
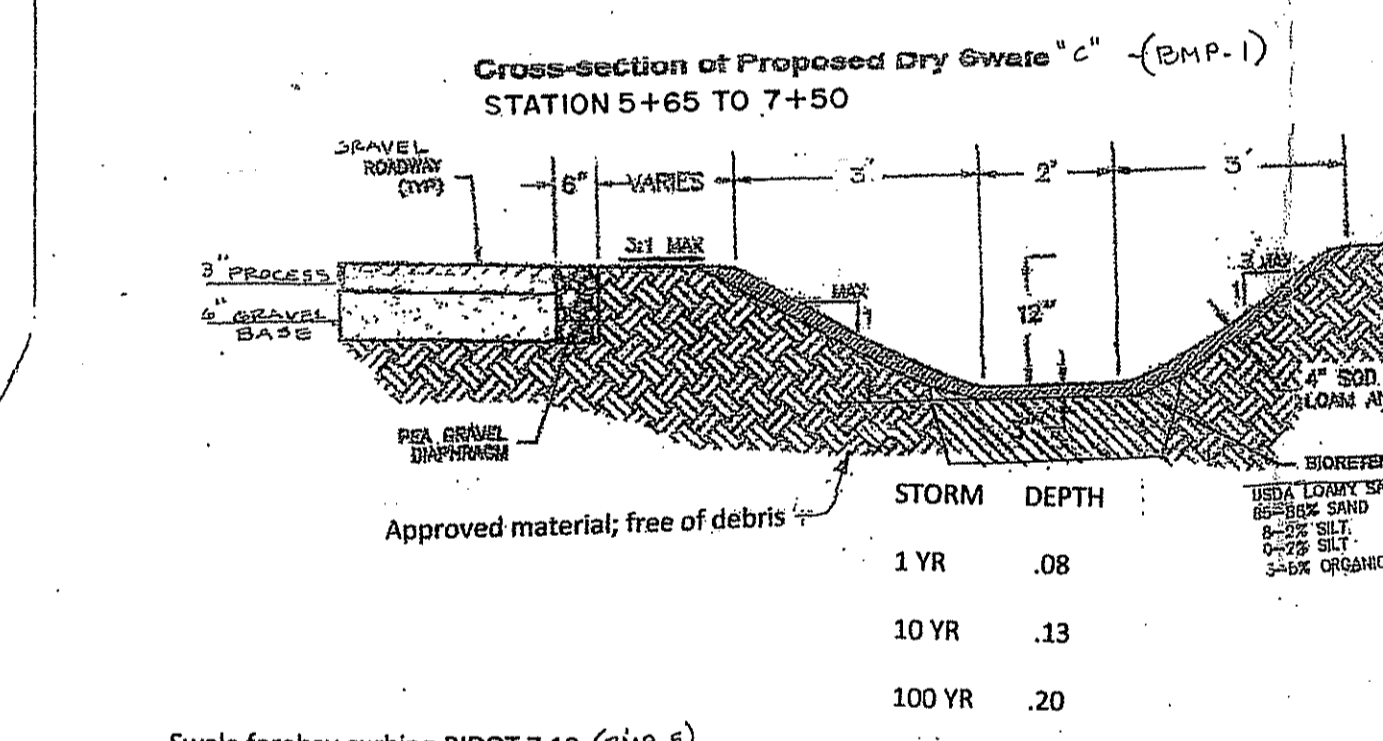
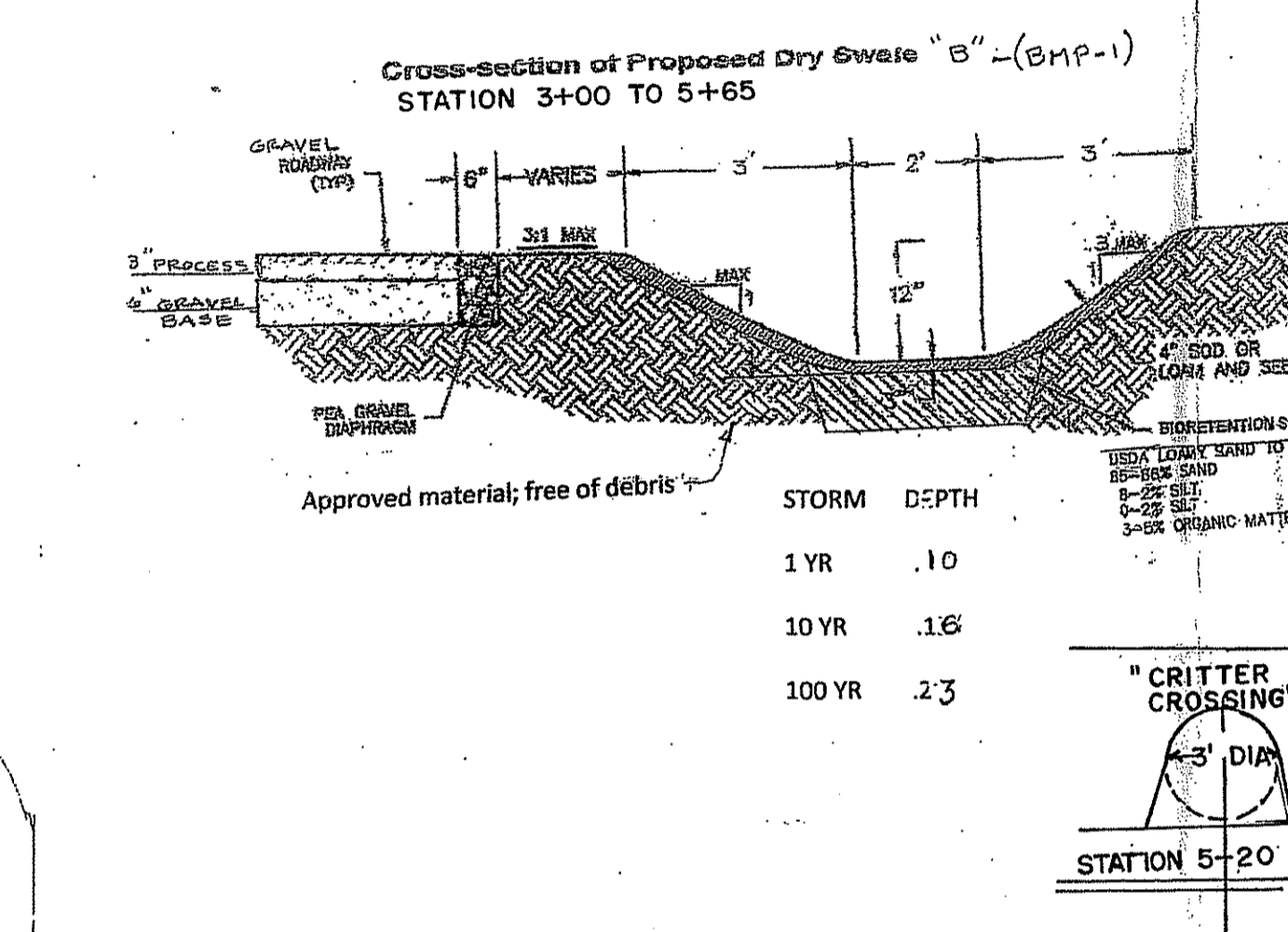
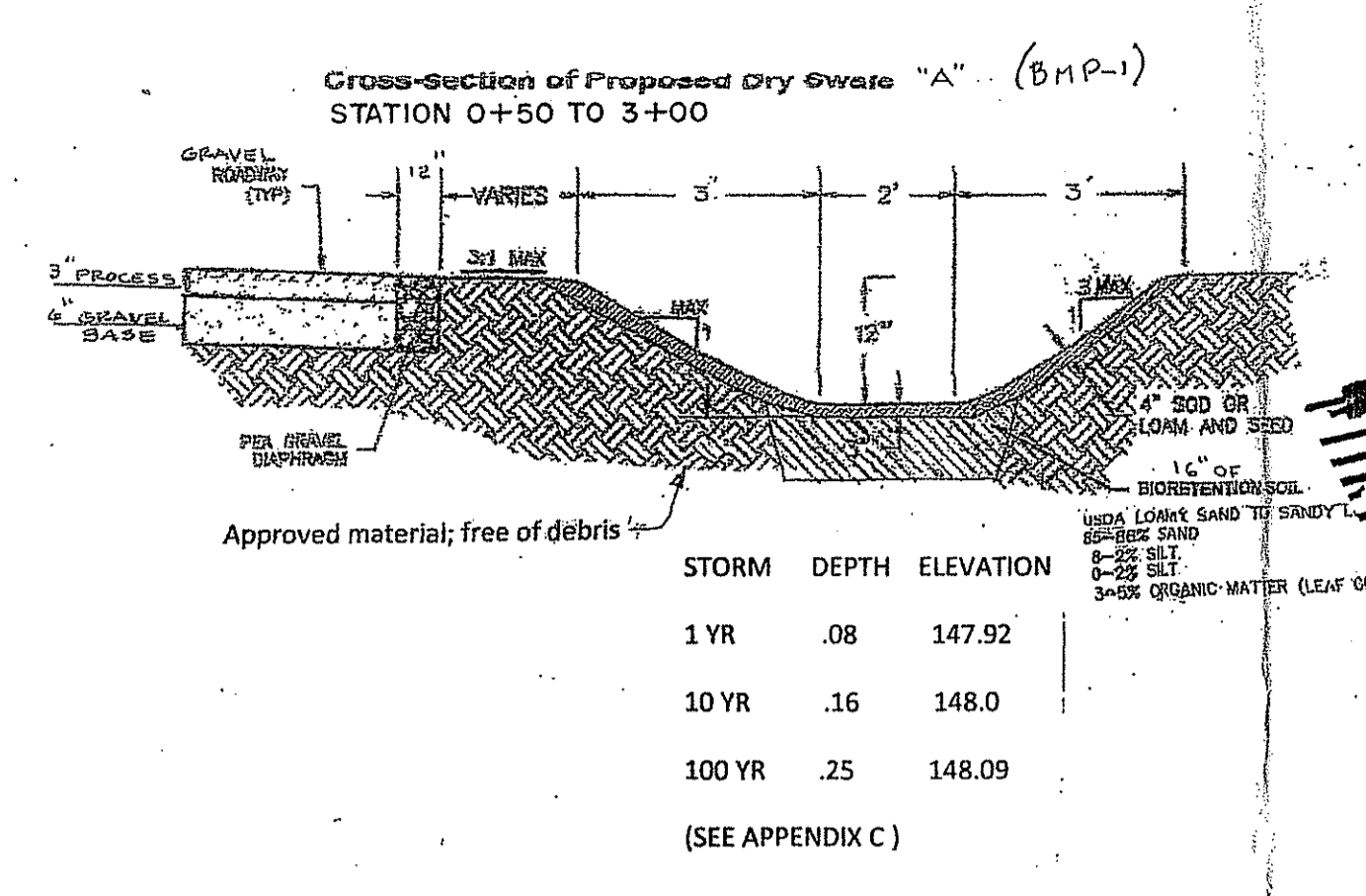
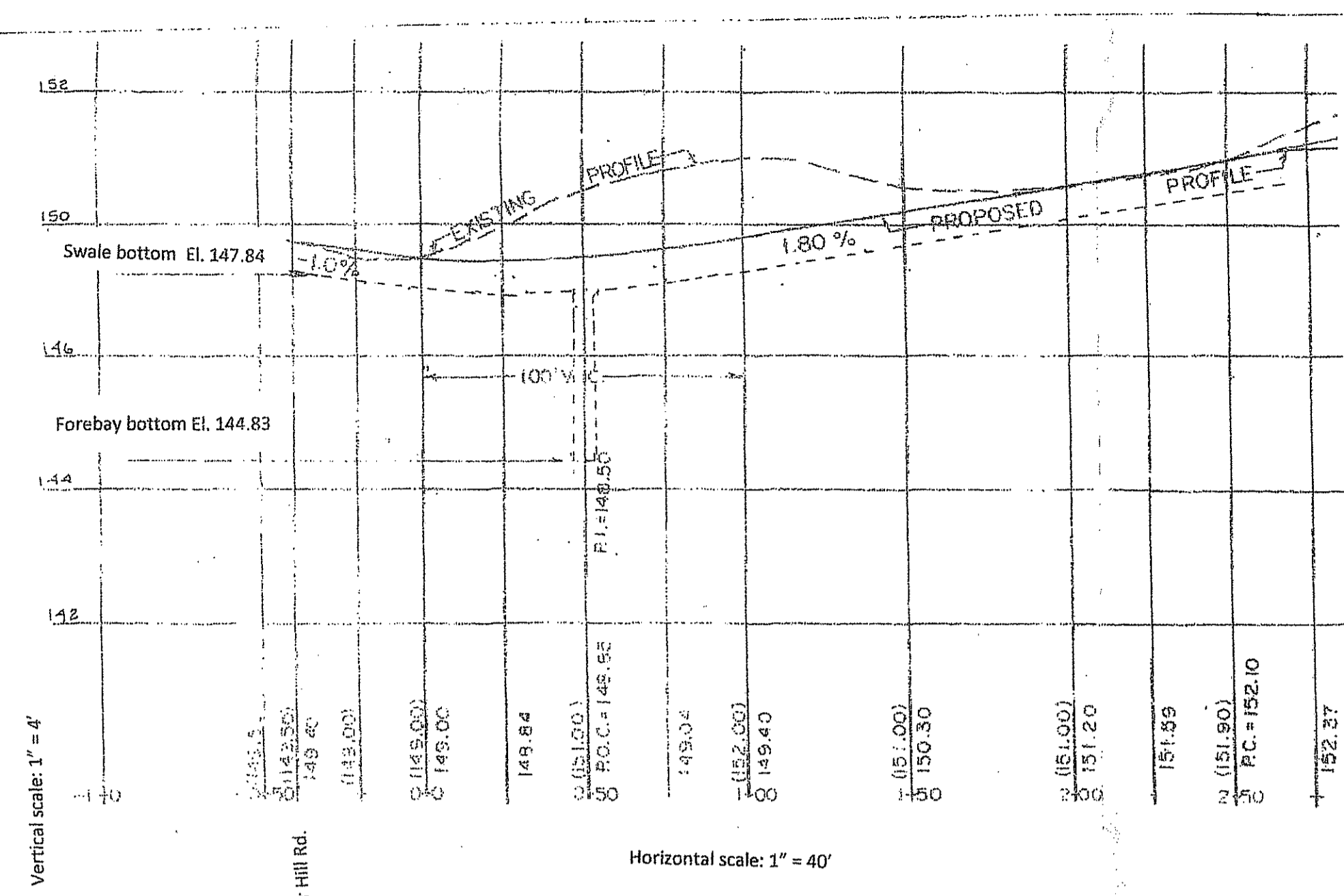
Richard A. Greene, Inc
220 Richmond Townhouse Road
Carroll, RI 02812
Tel. (401) 264-9405
Fax. (401) 264-9403

SHEET 3 OF 4

EUGENE F SPRING
No. 3166
REGISTERED PROFESSIONAL ENGINEER

RICHARD A. GREENE
1731
PROFESSIONAL LAND SURVEYOR

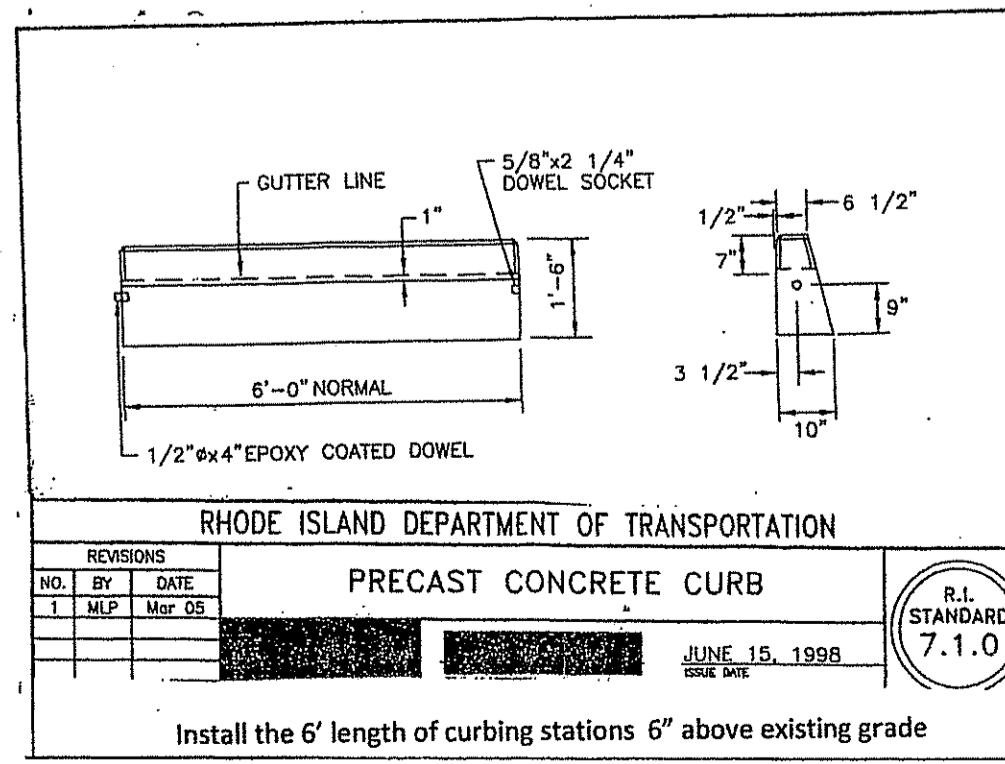
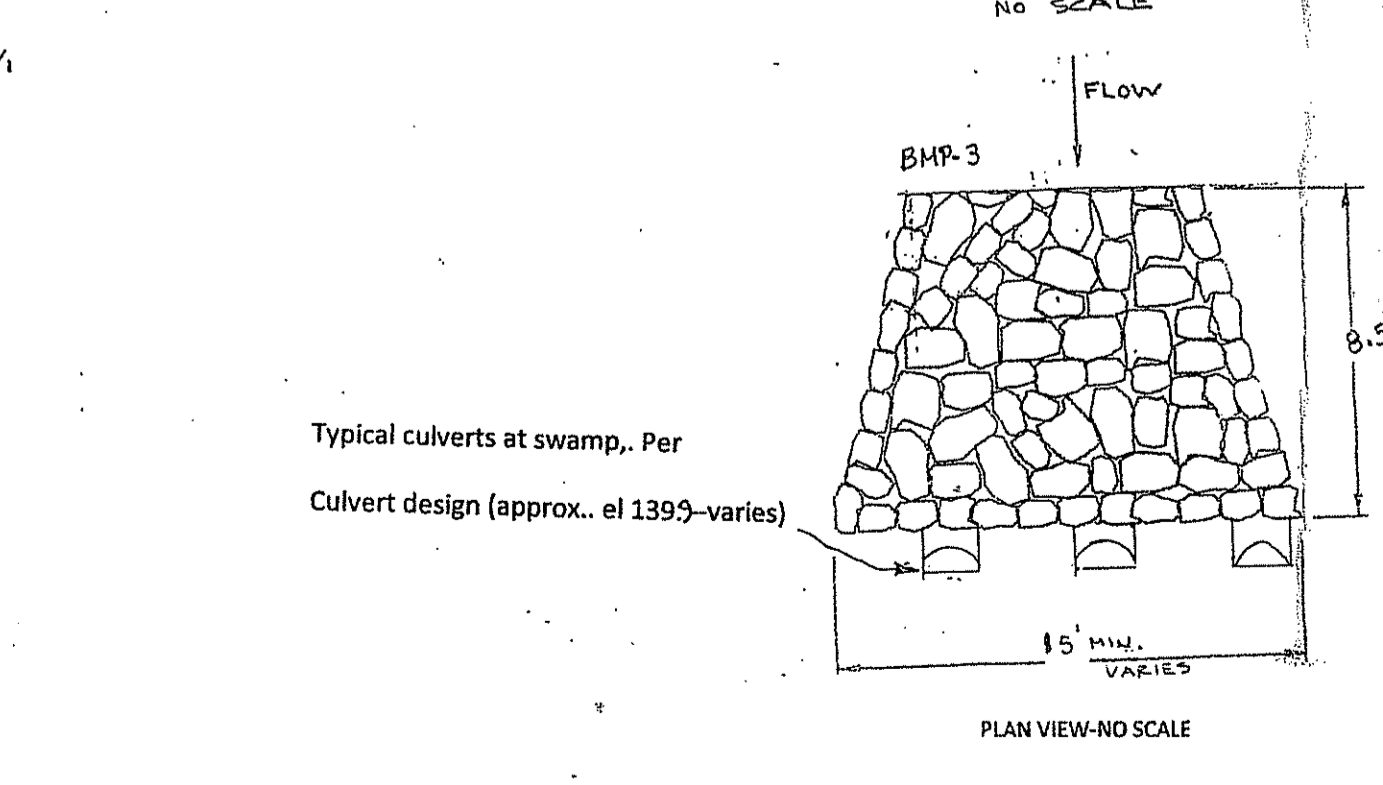
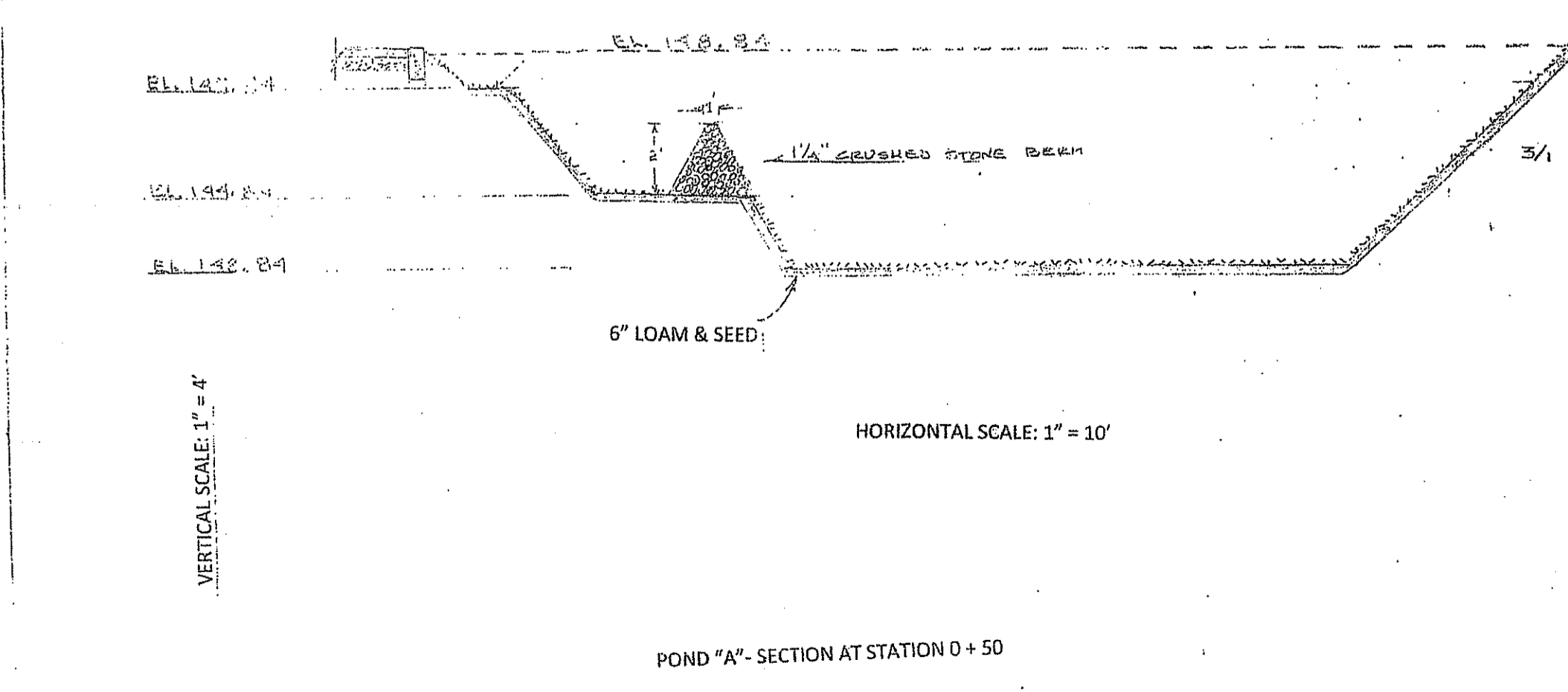
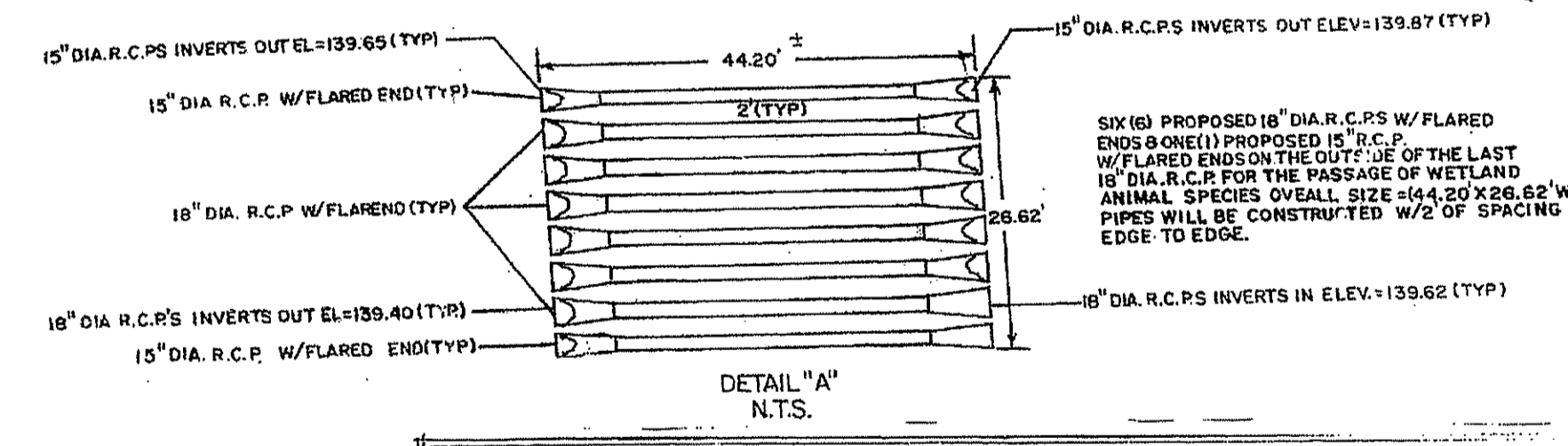
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 06 2016 FILE # 14-0107
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE FLARED SECTION
SER. 1, STANDARD 2.3.0

DIMENSIONS	REINFORCEMENT
DIA. A B C D E F T	ONE LAYER REINFORCEMENT IN CENTER WALL WITH BARSPAC EACH WAY 50 IN/FT.
1'-3" 6" 2'-3" 3'-0" 6'-4" 2'-0" 1" 2 1/4"	

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 06 2016 FILE # W-0607
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



- NOTES:
- SEE ROAD PROFILE AT OUTLET ROAD LOW POINT (STATION 5+64.67)
 - SEE ROADWAY CROSS SECTION WHERE THE 6 CULVERTS CROSS UNDER THE ROAD

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE CURB
JUNE 15, 1998
R.I. STANDARD 7.1.0

DRAINAGE DETAILS

Prepared for
WASHINGTON COUNTY POMONA GRANGE, INC.
RICHMOND TOWNHOUSE ROAD
& WILBUR HILL ROAD
ASSESSOR'S PLAT 7D, LOT 7
RICHMOND, RHODE ISLAND

SCALE: AS SHOWN ON PLAN
DATE: FEBRUARY 10, 2015
REVISED: AUGUST 30, 2015
NOVEMBER 23, 2015.

RICHARD GREENE & ASSOCIATES, INC.
220 RICHMOND TOWNHOUSE ROAD
CAROLINA, RHODE ISLAND, 02891

RICHARD A. GREENE
REGISTERED LAND SURVEYOR

EUGENE F. SPRING
REGISTERED PROFESSIONAL ENGINEER

SHEET D-1
SHEET 4 OF 4