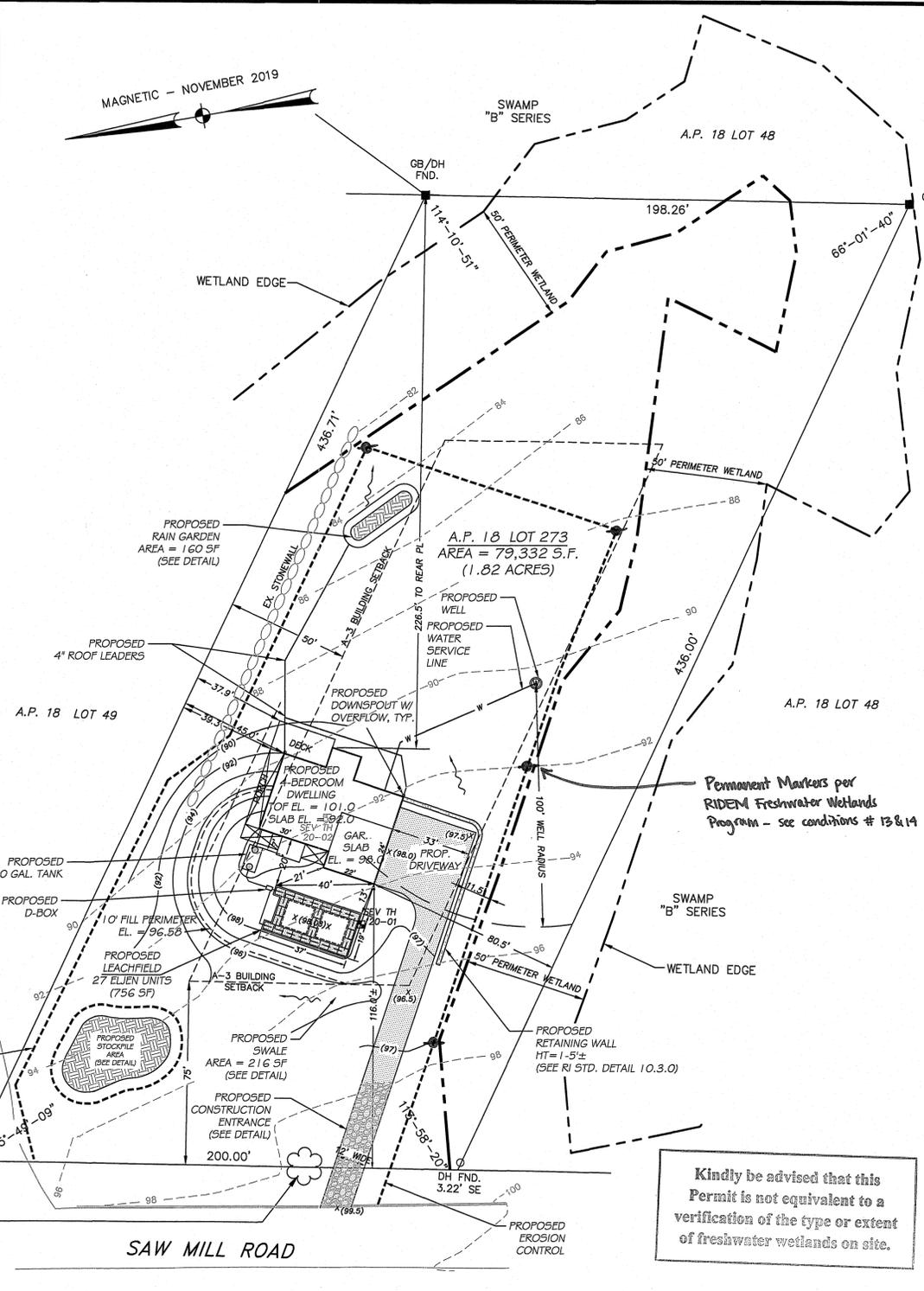
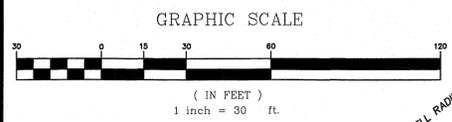


LOCUS MAP  
SCALE: 1" = 200'

**LEGEND**

—	STONE WALL	N/F	NOW OR FORMERLY
—	RETAINING WALL	---	EXISTING CONTOUR
---	PROPERTY LINE	---	PROPOSED CONTOUR
○	FOUND DRILL HOLE	88x0	SPOT GRADE
○	FOUND IRON ROD	x(148.5)	PROPOSED SPOT GRADE
○	FOUND IRON PIPE	---	EXISTING TREE
○	UTILITY POLE	---	EXISTING TREES TO BE REMOVED
○	EXISTING WELL	---	GRADE TO DRAIN
---	WATER LINE	---	PROPOSED EROSION CONTROL (FILTER SOCK, STRAW WATTLE AND/OR SILT FENCE)
---	GAS LINE	---	
---	OVERHEAD WIRE	---	
---	SOIL EVALUATION TEST HOLE	---	
SF	SQUARE FEET	---	
AC	ACRES	---	
TOP	TOP OF FOUNDATION	---	
AP	TAX ASSESSOR'S PLAT	---	



Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

**GENERAL OWTS CONSTRUCTION NOTES**

- ALL OTHER DESIGN, CONSTRUCTION AND MAINTENANCE REQUIREMENTS WHETHER NOTED HEREON, OR NOT, SHALL BE IN CONFORMANCE WITH THE RIDEM OFFICE OF WATER RESOURCES, RULES ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS, AS AMENDED.
- THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED PLAN ON-SITE AT ALL TIMES.
- THE CONTRACTOR MUST FOLLOW ALL ITEMS CIRCLED IN THE LOWER RIGHT HAND AREA OF THE OWTS APPLICATION LABEL—IMPORTANT AND NOTIFY ENGINEER DURING THE DIFFERENT STAGES OF CONSTRUCTION TO ALLOW THE ENGINEER TO OBSERVE COMPLIANCE WITH THE APPROVED PLANS, AS REQUIRED BY RIDEM.
- THE CONTRACTOR SHALL COMPLY WITH ALL ADDITIONAL TERMS OF APPROVAL AS MAY BE REQUIRED BY RIDEM.
- THE CONTRACTOR MUST NOTIFY LICENSED DESIGNER 48 HOURS PRIOR TO START OF CONSTRUCTION WITH VALID INSTALLER'S LICENSE NUMBER. DESIGNER MUST NOTIFY RIDEM 24 HOURS PRIOR TO START OF CONSTRUCTION IN ACCORDANCE WITH RIDEM RULE 6.47.
- THE LICENSED DESIGNER SHALL WITNESS AND INSPECT ALL ASPECTS OF THE INSTALLATION. KEEP RECORDS, PREPARE THE CERTIFICATE OF COMPLETION AND PROVIDE O & M INFORMATION AND RECOMMENDATIONS TO THE OWNER, IN ACCORDANCE WITH RIDEM RULE 6.47.
- PROPERTY LINE & TOPOGRAPHICAL SURVEY DEPICTED ON THIS PLAN WAS OBTAINED FROM THE EXISTING CONDITIONS PLAN PREPARED BY INTERNATIONAL MAPPING & SURVEYING CORP. THE CONTRACTOR SHALL VERIFY PROPERTY LINE LOCATION, BENCHMARK ELEVATIONS AND ALL FIELD CONDITIONS PRIOR TO ANY CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING SEWER INVERTS PRIOR TO CONSTRUCTION (BUILDING, SEPTIC TANK, GREASE TANK, D-BOX & FIELD).
- IF FIELD CONDITIONS VARY FROM PLANS OR IF CONTRACTOR ENCOUNTERS UNANTICIPATED CONDITIONS DURING CONSTRUCTION WHICH INDICATE THAT THE SYSTEM CANNOT BE INSTALLED IN ACCORDANCE WITH THE APPROVED DESIGN, INSTALLER SHALL STOP CONSTRUCTION AND NOTIFY THE LICENSED DESIGNER RESPONSIBLE FOR WITNESSING AND INSPECTING THE INSTALLATION IN ACCORDANCE WITH RIDEM RULE 6.47.
- THERE ARE NO EXISTING OR PROPOSED PRIVATE DRINKING WATER WELLS WITHIN 200' OF THE PROPOSED OWTS EXCEPT AS SHOWN.
- THERE ARE NO EXISTING OR PROPOSED PUBLIC WATER SUPPLY WELLS WITHIN 500' OF THE PROPOSED OWTS AREA EXCEPT AS SHOWN.
- ALL KNOWN OWTS'S WITHIN 100' OF EXISTING OR PROPOSED WELLS ARE SHOWN.
- ALL KNOWN OWTS'S AND WATER SUPPLIES WITHIN 100' OF ADJACENT PROPERTY LINES ARE SHOWN.
- THERE ARE NO KNOWN EXISTING OR PROPOSED SUBSURFACE DRAINS WITHIN 50 FEET OF THE PROPOSED OWTS.
- THE CONTRACTOR SHALL CALL "DIG-SAFE" AND VERIFY THE LOCATION OF ALL THE UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PRIOR TO START OF LAND DISTURBING ACTIVITIES.
- CLEAR ALL TREES, BRUSH AND STUMPS WITHIN 10' OF SYSTEM.
- ALL PVC PIPE SHALL BE 4" DIA. SDR 35 OR EQUIVALENT, UNLESS OTHERWISE NOTED.
- DISTRIBUTION LINES MUST BE INTERCONNECTED AT ALL ENDS AND AT INTERVALS NOT EXCEEDING 25'.
- MAINTAIN INVERT ELEVATION (FULL PERIMETER) FOR 10 FEET AROUND SYSTEM AS SHOWN.
- EXISTING TANK(S) SHALL BE REPLACED IF CONDITION IS FOUND TO BE INADEQUATE. PROPOSED SEPTIC TANKS SHALL CONFORM TO ALL STANDARDS SET FORTH IN THE RIDEM OWTS REGULATIONS AS STATED IN NOTE NO. 1.
- ALL MANHOLES SHALL BE SET TO GRADE, GRADE TO DIVERT SURFACE RUNOFF.
- THE DESIGNER IS NOT RESPONSIBLE FOR ANY NEGLECT ACT OR OMISSION OF A USER OF AN OWTS, INCLUDING BUT NOT LIMITED TO, FAILURE TO PROPERLY USE AND MAINTAIN THE SYSTEM, WHICH CAUSES DAMAGE TO THE OWTS.
- THIS SYSTEM IS NOT DESIGNED TO HANDLE A GARAGE DISPOSAL, OTHER HIGH WATER USE UNITS AND/OR ANY DISCHARGE FROM ANY WATER TREATMENT SYSTEMS.
- THE CONTRACTOR SHALL PROVIDE DESIGNER WITH MATERIAL RECEIPTS FOR ALL CONSTRUCTION MATERIALS PRIOR TO DESIGNER ISSUING CERTIFICATE OF CONSTRUCTION.
- ALL CURBING, PAVEMENT, LANDSCAPING AND OTHER EXISTING SITE CONDITIONS DISTURBED DURING THE CONSTRUCTION WORK SHALL BE RESTORED PER THE OWNER'S SPECIFICATION BY CONTRACTOR.
- CONTRACTOR TO COORDINATE CONSTRUCTION SCHEDULE WITH THE OWNER.
- GROUNDWATER TABLE BASED ON SOIL EVALUATION TEST HOLES, RIDEM APPLICATION NO. 1913-1341.

**DESIGN DATA/CALCULATIONS**

SOIL CATEGORY	6	LOADING RATE	0.61 GAL/SF/DAY
DESIGN WATER TABLE	24" (PER SOIL EVALUATION; SEE BELOW)		
DAILY SEWAGE FLOW RATE:			
4 BDRM UNITS x 115 GAL/BDRM UNIT =	460 GPD		
REQUIRED (MIN.) LEACHING AREA:	460 GPD / 0.61 GAL/SF/DAY =	754	
SYSTEM SIZING:			
754 SF REQ'D + 28SF/UNIT =	26.9 UNITS REQ'D		
27 UNITS REQ'D x 28SF/UNIT =	756 SF PROVIDED		
LENGTH OF SYSTEM	37	FT	
WIDTH OF SYSTEM	19	FT	
NUMBER ELJEN UNITS	27		
SAND SIDES/UNDER	0.5	FT	

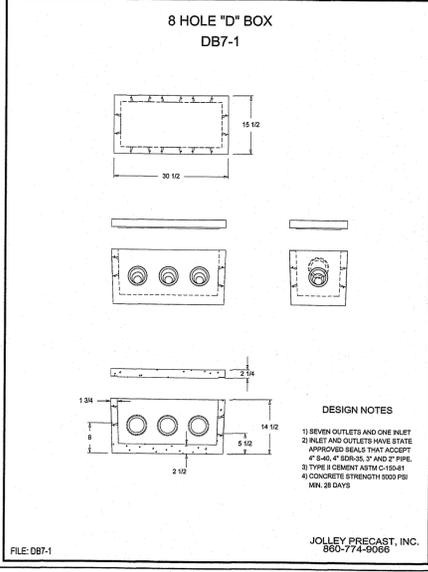
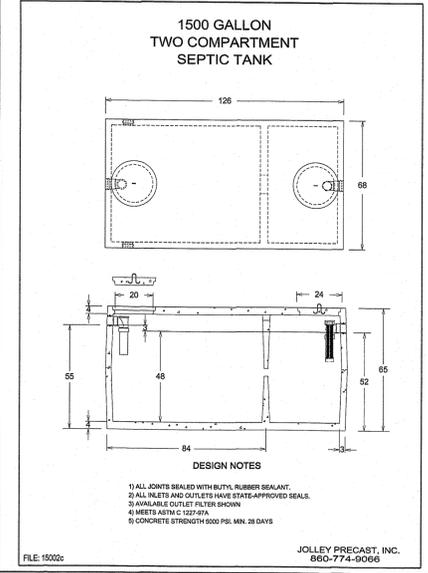
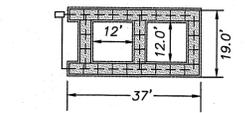
**SOIL EVALUATION\***

SEV TH20-01 ESHWT = 26"  
TOTAL DEPTH OF TH = 96"  
HORIZON DEPTH TEXTURE SOIL CATEGORY

A	0-13"	FSL	4
Bw1	13-22"	FSL	4
Bw2	22-26"	SL	3
C	26-96"	SL	6

\* SOIL EVALUATION PERFORMED ON 10/2/19 BY RIDEM SOIL EVALUATOR D-4028; SEE ATTACHED SITE EVALUATION REPORT FOR FULL PROFILE DESCRIPTION (RIDEM APPLICATION NO. 1913-1341).

**ELJEN LEACHFIELD LAYOUT**



**ZONING DATA:**

A-3 ZONE - SINGLE FAMILY (SEE NOTE 1)

	REQUIRED:	PROVIDED:
MINIMUM LOT AREA	3 ACRES	1.82 ACRES
MINIMUM FRONTAGE	300'	200.0'
FRONT YARD SETBACK	75'	116.0'
SIDE YARD SETBACK (SEE NOTE 2)	50'	45' (HOUSE) 37.9' (DECK)
REAR YARD SETBACK	100'	226.5'
MAXIMUM LOT COVERAGE	4%	0.3%
MAXIMUM BUILDING HEIGHT	35'	35'

- THE SUBJECT LOT WAS SUBDIVIDED AS AN APPROVED R-2 ZONED PARCEL. THE SUBJECT LOT HAS BEEN RE-ZONED AS AN A-3 ZONE AFTER SUBDIVISION AND IS NOW CONSIDERED A NON-CONFORMING LOT OF RECORD.
- THE SIDE YARD SETBACK CONFORMS TO R-2 ZONE MINIMUM SIDE YARD SETBACK OF 10-FEET.

**SURVEY NOTE:**

PROPERTY LINE & TOPOGRAPHY SURVEY PERFORMED BY INTERNATIONAL MAPPING & SURVEYING CORP.  
PLAN NAME: EXISTING CONDITIONS PLAN  
PREPARED FOR PATRICK FOGARTY  
ON SAW MILL ROAD, GLOCESTER, RHODE ISLAND,  
A.P. 18 LOT 273. DATE: SEPTEMBER, 2020.  
SCALE: 1" = 40'.

**WETLAND NOTE:**

FRESHWATER WETLANDS PRESENT ON THE ADJACENT LOT TO THE SOUTH (A.P. 18 LOT 48) WERE DELINEATED AND LOCATED BY NATURAL RESOURCE SERVICES, INC. ON 2/13/2019. THE ASSOCIATED 50-FOOT PERIMETER WETLAND FOR THE B-SERIES FALLS WITHIN A PORTION OF THE SUBJECT PROPERTY. SEE ATTACHED REPORT.

**OWNER/APPLICANT:**

PATRICK FOGARTY  
112 SAW MILL ROAD  
P.O. BOX 37  
HARMONY, RI 02829

**SUSAN B. CAPASSO**  
No. 7443  
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

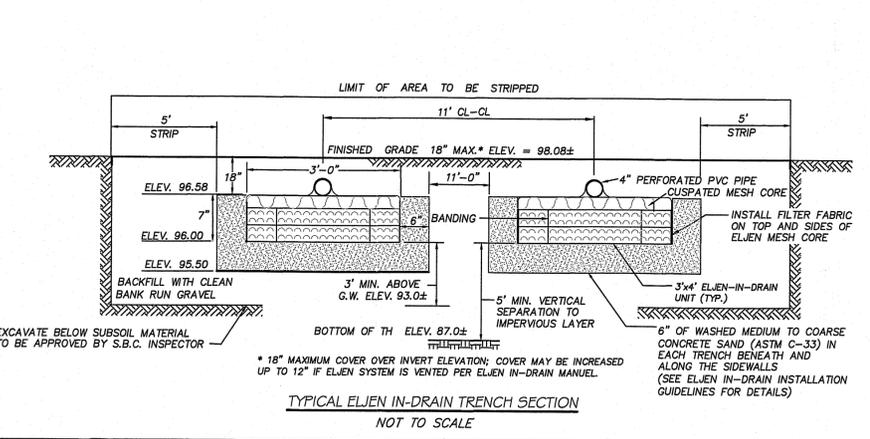
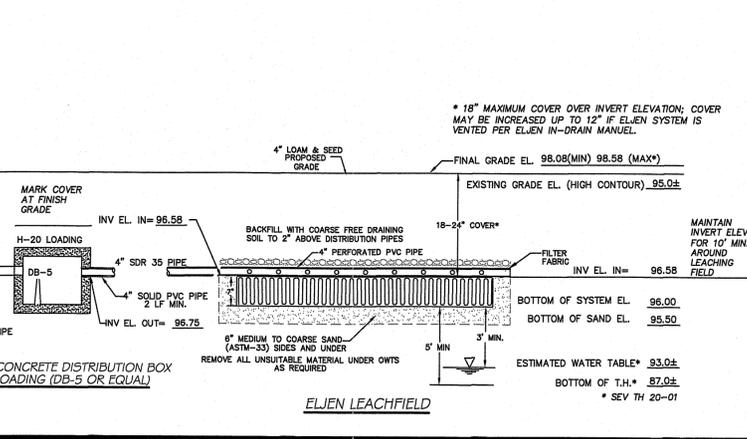
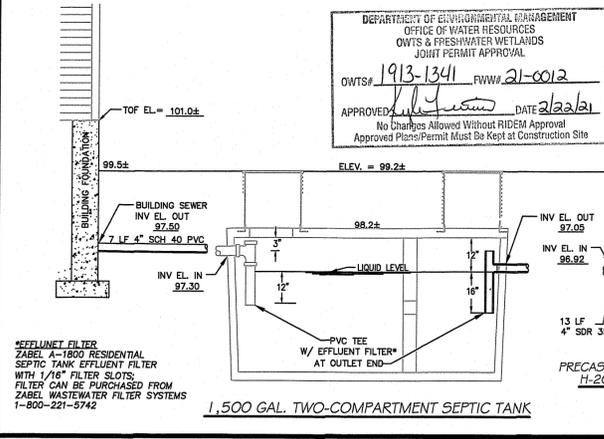
**RIDEM OWTS APPLICATION NO. 1913-1341**

**PROPOSED OWTS/SITE PLAN**

Project:  
**PATRICK FOGARTY**  
**A.P. 18 LOT 273**  
**SAW MILL ROAD**  
**GLOCESTER, RHODE ISLAND**

Prepared By:  
SUSAN B. CAPASSO, P.E.  
PO BOX 821  
NORTH SCITUATE, RHODE ISLAND 02857  
401-261-8870  
JANUARY 2021

PROJECT NO.: 19-39 SHEET 1/2



**STORMWATER MANAGEMENT DESIGN CALCULATIONS**

AREAS REQUIRED FOR WATER QUALITY VOLUME (WV):  
 HOUSE ROOF AREA = 1,918 SF  
 PAVED DRIVEWAY = 2,700 SF

**PROPOSED RAIN GARDEN (FOR ROOF AREA)\***

USING A AN 8" DEEP RAIN GARDEN:  
 80 SF SURFACE AREA/1000 SF OF IMPERVIOUS SURFACE AREA OF GARDEN AREA REQUIRED;  
 THEREFORE, 8" DEEP GARDEN AREA REQUIRED = 160 SF; 160 SF PROVIDED

**PROPOSED VEGETATED SWALE (DRIVEWAY AREA)\*\***

USING A 4"-FT WIDE 8" DEEP SWALE:  
 80 SF SURFACE AREA/1000 SF OF IMPERVIOUS SURFACE AREA OF SWALE AREA REQUIRED  
 56 SF SURFACE AREA/700 SF OF IMPERVIOUS SURFACE AREA OF SWALE AREA REQUIRED;  
 THEREFORE, 8" DEEP SWALE AREA REQUIRED = 216 SF; PROVIDE 4' WIDE SWALE X 54' LONG

\* RAIN GARDEN SIZING BASED THE STATE OF RHODE ISLAND STORMWATER MANAGEMENT GUIDANCE FOR INDIVIDUAL SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT SECTION 300.6 OF THE RI COASTAL RESOURCES MANAGEMENT PROGRAM (RICRMP) DOCUMENT; SECTION C, RAIN GARDENS AND TABLE 8; RAIN GARDEN SIZING GUIDANCE FOR SANDY SOILS. SANDY SOILS DETERMINED BY RIDEM SOIL EVALUATION APPLICATION NO.: 1913-1341.

\*\* VEGETATED SWALE SIZING BASED THE STATE OF RHODE ISLAND STORMWATER MANAGEMENT GUIDANCE FOR INDIVIDUAL SINGLE-FAMILY RESIDENTIAL LOT DEVELOPMENT SECTION 300.6 OF THE RI COASTAL RESOURCES MANAGEMENT PROGRAM (RICRMP) DOCUMENT; SECTION B, VEGETATED SWALES AND TABLE 5 SIZING GUIDANCE FOR SANDY SOILS.

THE WATER QUALITY DESIGN IS BASED ON RECOMMENDATIONS AND PROCEDURES AS DEFINED AND AS REQUIRED IN MINIMUM STANDARD 11 IN THE LATEST RHODE ISLAND STORMWATER DESIGN AND INSTALLATION MANUAL (RISDM).

THE RECOMMENDATIONS AND GUIDELINES OF THE RISDM AND THE LATEST RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK SHALL BE INCORPORATED INTO THE CONSTRUCTION PRACTICES ON SITE.

**BIORETENTION AREA PLANTING NOTES:**

THE FOLLOWING IS A LIST OF POTENTIAL BIORETENTION AREA PLANTING. A FULL PLANTING DETAIL WILL BE PROVIDED FOR FINAL DEVELOPMENT PLAN REVIEW.

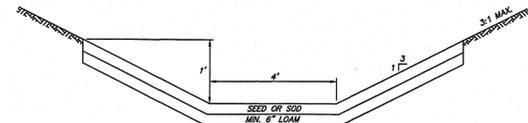
PLANT SPECIES WERE SELECTED FROM THE RHODE ISLAND COASTAL PLANT GUIDE PREPARED BY THE URI CELS AND RI CRMC. ONLY THOSE NATIVE PLANTS THAT ARE SUITABLE FOR RAIN GARDENS AND ARE TOLERANT OF WET SITES AND SHADE ARE SHOWN HERE.

SPECIES	COMMON NAME	PLANT TYPE
<i>Ilex opaca</i>	AMERICAN HOLLY	TREE
<i>Iris versicolor</i>	BLUE FLAG	PERENNIAL
<i>Carex stricta</i>	TUSSOCK SEDGE	GRASS
<i>Cephalanthus occidentalis</i>	COMMON BUTTONBUSH	SHRUB
<i>Comptonia peregrina</i>	SWEET FERN	SHRUB
<i>Cornus racemosa</i>	GRAY DOGWOOD	SHRUB
<i>Ilex glabra</i>	INKBERRY HOLLY	SHRUB
<i>Ilex verticillata</i>	WINTERBERRY HOLLY	SHRUB
<i>Lindera benzoin</i>	SPICEBUSH	SHRUB
<i>Photinia melanocarpa</i>	BLACK CHOKEBERRY	SHRUB
<i>Photinia pyrifolia</i>	RED CHOKEBERRY	SHRUB
<i>Rhododendron viscosum</i>	SWAMP AZALEA	SHRUB
<i>Vaccinium corymbosum</i>	HIGHBUSH BLUEBERRY	SHRUB
<i>Viburnum dentatum</i>	ARROWWOOD	SHRUB

TREES SHALL BE PLANTED WITH A DENSITY OF NO MORE THAN ONE PER 250 SF, SPACED 15 FT ON CENTER. SHRUBS SHALL BE PLANTED 5-10 FT ON CENTER AND HERBACEOUS VEGETATION PLANTED 2.5 FT ON-CENTER.

BIORETENTION AREA LOCATED AT LEAST 10 FT FROM BUILDING FOUNDATION, 15 FT FROM EXIST. OWTS AND 25 FT FROM ANY WELL OR WATER SUPPLY.

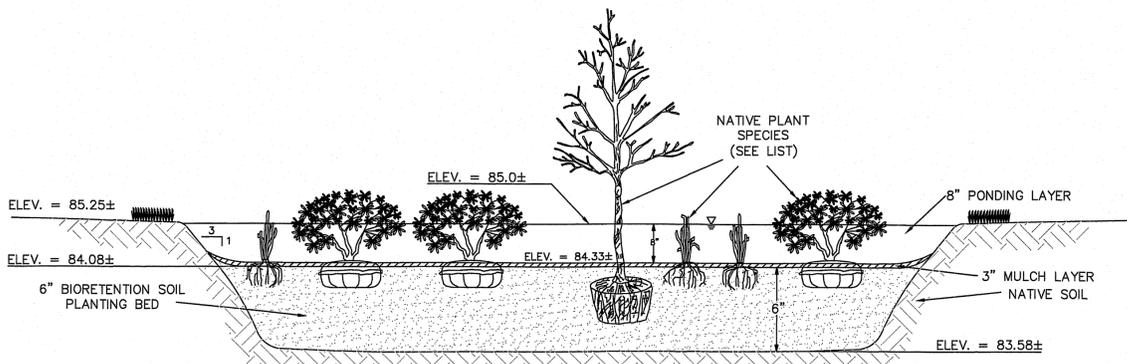
ROOF GUTTER DOWNSPOUTS SHALL DIRECT WATER TO BIORETENTION AREA VIA UNDERGROUND PIPING OR OVERLAND WHERE UNDERGROUND PIPING IS UNFEASIBLE OR NOT PERMISSIBLE.



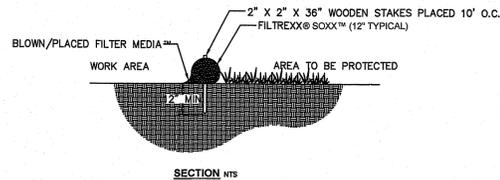
**NOTES:**

- SWALE SEEDING SHALL BE AN EQUAL MIXTURE OF CREEPING RED FESCUE & TALL FESCUE.
- SLOPES AND OTHER AREAS SHALL BE LOAMED AND SEEDING AS PER THE SOIL STABILIZATION AND PLANTING PROGRAM LISTED ON THIS SHEET.
- SWALE AREA TO BE PROTECTED WITH TEMPORARY EROSION CONTROL MATTING TO BE INSTALLED AS PER THE MANUFACTURER'S INSTRUCTIONS.

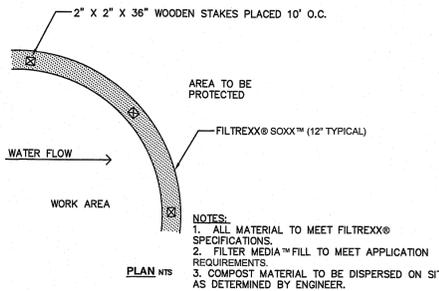
GRASSED SWALE  
NOT TO SCALE



BIORETENTION AREA (RAIN GARDEN) - TYPICAL CROSS-SECTION  
NOT TO SCALE



SECTION NTS



PLAN NTS

**FILTREXX® SEDIMENT CONTROL NTS**

**FILTER SOCK NOTES**

- Soxx™ shall meet Filtrex Soxx™ Specifications and use Filtrex GrowingMedia™.
- Contractor is required to be a Filtrex Certified™ Installer.
- Soxx™ must be installed and stabilized before flow is allowed from culverts and storm outlets.
- Land surface shall be cleared of debris, including rocks, roots, large clods, and sticks prior to Soxx™ installation.
- Channel bed shall be made smooth prior to installation of Soxx™.
- Soil bed may be compacted and graded prior to installation.
- The upslope end of the Soxx™ shall be installed under the lip of the culvert or outlet drain to ensure initial storm flow contact is on top of the Soxx™, not under in front of the system.
- Soxx™ shall be placed parallel to water flow, where socks are tightly abutted to prevent water seepage between and underneath the Soxx™.
- Once in place, Soxx™ shall be lightly compacted and abutting edges leveled to tighten seal between socks and encourage even water flow over Soxx™ system.
- Stakes shall be installed through the middle of the Soxx™ on 10 ft (3m) centers, using 2 in (50mm) by 2 in (50mm) by 3 ft (1m) wooden stakes. Top of stakes should be cut off, leaving 3 in (75mm) above the top of the Soxx™.
- Soxx™ may be seeded at the time of application, seed selection will be determined by the Engineer.

**CONSTRUCTION ENTRANCE DETAIL NOTES:**

- CONSTRUCTION ENTRANCE DEPTH SHALL BE A MINIMUM OF 5" THICK.
- CONSTRUCTION ENTRANCE WIDTH SHALL BE THE AT LEAST THE FULL WIDTH OF THE INGRESS/EGRESS ACCESS POINT.
- CONSTRUCTION ENTRANCE LENGTH SHALL BE A MINIMUM OF 50'.
- AGGREGATE SIZE SHALL BE RIDOT 2" CRUSHED STONE OR GRAVEL.
- DETAIL BASED ON RHODE DEPARTMENT OF TRANSPORTATION DETAIL, R.I. STANDARD 9.9.0 CONSTRUCTION ACCESS AND RIDOT STANDARD STANDARD SPECIFICATIONS, SECTION 211, CONSTRUCTION ACCESSSES.

**EROSION AND SEDIMENTATION CONTROL CONSTRUCTION NOTES:**

1. EROSION AND SEDIMENTATION (E&S) CONTROLS WILL BE INSTALLED PRIOR TO THE COMMENCEMENT OF WORK ALONG THE LIMITS OF DISTURBANCE (LOD) AS SHOWN ON THE SITE PLAN AND DETAILS.

CRITICAL AREAS SUCH AS WETLAND AREAS, SLOPED AREAS AND STREAMS SHALL BE PROTECTED AS PER PLAN AND, IN THE PRESENCE OF WETLANDS, PER THE MUNICIPALITY IN WHICH WORK IS BEING PERFORMED PRIOR TO START OF ANY WORK.

ALL E&S CONTROLS SHALL BE FULLY MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL VEGETATIVE STABILIZATION HAS BEEN ACHIEVED. E&S CONTROLS ARE TO BE INSPECTED WEEKLY AND IMMEDIATELY FOLLOWING ALL PRECIPITATION EVENTS THAT INCLUDE RAINFALL OF 1.0" OR MORE OR WHICH PRODUCES STORMWATER RUNOFF. UNDER NO CIRCUMSTANCE SHALL THE E&S CONTROLS BE COVERED WITH FILL MATERIAL. ANY FILL MATERIAL THAT IS PLACED ON OR AGAINST E&S CONTROLS SHALL BE IMMEDIATELY REMOVED.

ALL FILTER SOCK (OR SILT FENCE AND/OR STRAW WATTLES) SHALL BE INSTALLED IN ACCORDANCE WITH THE RIDOT STANDARD DETAILS. ALL REFERENCED SOIL EROSION AND SEDIMENTATION CONTROLS, INCLUDING MATERIALS USED, APPLICATION RATES AND THE INSTALLATION PROCEDURES SHALL BE PERFORMED PER THE MOST CURRENT VERSION OF THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL HANDBOOK AND THE RHODE ISLAND STORMWATER INSTALLATION & DESIGN MANUAL, AS APPROPRIATE.

- ALL EXPOSED SLOPES, INCLUDING STOCKPILES OF MATERIAL, SHALL RECEIVE TEMPORARY SEDIMENTATION AND EROSION CONTROLS. THIS WILL INCLUDE LOAMING AND SEEDING, MULCHING, HAYMATS, ETC., TO STABILIZE THE AREA.
- ALL DRAINAGE STRUCTURES SHALL BE SURROUNDED BY HAYBALES TO PREVENT INFILTRATION OF SEDIMENTS.
- SHOULD SEDIMENTS ENTER A CRITICAL AREA (WETLAND, BUFFER AREA OR ABUTTING PROPERTY), THE CONTRACTOR SHALL IMMEDIATELY CLEAN AND RESTORE THE AFFECTED AREA.
- ALL DISTURBED SOILS, EITHER NEWLY CREATED, OR EXPOSED, PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEEDING OR PROTECTED BY THAT DATE. ANY AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION BY NOVEMBER 15 OF THE SAME YEAR MUST BE STABILIZED BY INSTALLING EROSION CONTROL MATTING, HAY MULCH OR EQUIVALENT.
- THE CONTRACTOR IS RESPONSIBLE FOR PROPER EROSION CONTROL BOTH ON AND OFF-SITE AND SHALL UTILIZE EROSION CONTROL MEASURES WHERE NEEDED, REGARDLESS OF WHETHER THE CONTROLS ARE SPECIFIED ON THE SITE PLAN.
- TEMPORARY CONSTRUCTION ACCESS, CHECK DAMS AND STAGING AREAS WILL BE INSTALLED THEN DEWATERING BASIN WILL BE EXCAVATED.
- PONDS SHALL BE EXCAVATED AND BANK STABILIZATION INSTALLED ONCE EXCAVATED MATERIALS HAVE BEEN REMOVED.
- TEMPORARY CONSTRUCTION ACCESS, CHECK DAMS AND STAGING AREAS WILL BE REMOVED, THE AREAS OF DISTURBANCE WILL BE RESTORED IF NECESSARY. ONCE VEGETATION IS ESTABLISHED, EROSION CONTROL MATERIALS SHALL BE REMOVED FOR OFF-SITE DISPOSAL.

**SOIL STABILIZATION & PLANTING PROGRAM**

ACCEPTABLE PLANTING MATERIALS: LOAM - THE MATERIAL TO BE FURNISHED SHALL CONSIST OF LOOSE, FINE, SANDY LOAM OR BROWN TOPSOIL FREE OF A MIXTURE OF SUBSOIL, REFUSE, STUMPS, ROOTS, ROCKS, BRUSH, WEEDS AND OTHER MATERIAL WHICH WILL PREVENT THE FORMATION OF A SUITABLE SEED BED.

SEED MIXTURES - ALL LEGUME SEED SHALL BE INOCULATED WITHIN 24 HOURS BEFORE MIXING AND PLANTING WITH THE APPROPRIATE INOCULUM FOR EACH VARIETY. ALL INOCULA SHALL BE FRESH AND SHALL BE USED WITHIN THE DATE LIMIT PRESCRIBED BY THE MANUFACTURER.

**FOR RELATIVELY FLAT SLOPES:**

MIX	% BY WEIGHT
RED FESCUE - CHEWING'S PENNLAWN	70
OR CREEPING KENTUCKY BLUEGRASS	15
COLONIAL BENTGRASS - ASTORIA OR EXETER	5
PERENNIAL RYEGRASS	10
- SEEDING RATE = 100 LBS. PER ACRE	

**FOR STEEP SLOPES 3:1 OR GREATER:**

MIX	% BY WEIGHT
RED FESCUE - PENNLAWN OR CREEPING	75
PERENNIAL RYEGRASS	5
COLONIAL BENTGRASS - ASTORIA OR EXETER	5
BIRDSFOOT TREFOLI - EMPIRE	15
- SEEDING RATE: 100 LBS. PER ACRE	

**FOR SOIL WATERWAYS, DRAINAGE DITCHES, DRAINAGE BASINS:**

MIX	% BY WEIGHT
CREEPING RED FESCUE	50
TALL FESCUE OR REED CANARY GRASS*	50

\* USE REED CANARY GRASS WHERE MOWING IS NOT REQUIRED.

THE ACCEPTED PLANTING SEASON SHALL BE BETWEEN APRIL 1ST AND OCTOBER 15TH. CONTRACTOR SHOULD COORDINATE ON ALL DISTURBED AREAS. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF FOUR (4) INCHES OF LOAM ON AREAS UP TO 10% IN GRADE. ALL AREAS OVER 10% SHALL RECEIVE A MINIMUM OF SIX (6) INCHES.

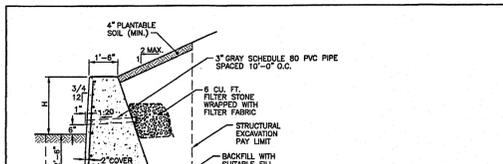
REFERENCE IS HEREBY MADE TO THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, REVISED AUGUST 2014, PUBLISHED BY THE SOIL CONSERVATION SERVICE. THE GUIDELINES SHOWN THEREIN SHOULD BE INCORPORATED INTO THE CONSTRUCTION PRACTICES ON SITE.

**GENERAL CONSTRUCTION NOTES:**

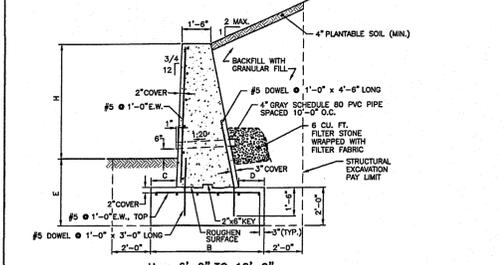
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBTAIN ANY AND ALL PERMITS REQUIRED BY THE STATE AND THE MUNICIPALITY IN WHICH WORK IS BEING PERFORMED PRIOR TO START OF ANY WORK.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DOCUMENT EXISTING CONDITIONS OF SURROUNDING PROPERTIES AND TO 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 (48) HOURS PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN REQUIRED INSPECTION SCHEDULE OF THE MUNICIPALITY. UTILITY COMPANIES AND ALL OTHER REQUIRED PARTIES SHALL STRICTLY ADHERE TO THOSE REQUIREMENTS.
- ALL CONTRACTORS 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.
- OIL ABSORBING PILLOWS OR OTHER MEANS SHALL BE USED TO REMOVE ACCUMULATION OF HYDROCARBONS (OIL, GREASE) THAT ARE REGULARLY OBSERVED TO CONTAIN HYDROCARBONS. THAT DO NOT EVAPORATE BETWEEN INSPECTIONS.
- ANY REFUELING, GREASING OR ADJUSTMENTS OF CONSTRUCTION VEHICLES OR EQUIPMENT SHALL TAKE PLACE AT LEAST 100 FEET FROM WETLAND AREAS.
- ANY ON-SITE DISPOSAL OF SOLID WASTE, INCLUDING EARTH MATERIALS, SHALL OCCUR OUTSIDE RIDEM/CRMC JURISDICTIONAL WETLANDS AND OUTSIDE OF THE CONSTRUCTION AREAS (UNLESS OTHERWISE DESIGNATED). ANY MATERIAL NOT RE-USED ON-SITE SHALL BE HAULED OFF-SITE TO AN AUTHORIZED, LEGAL LOCATION.
- ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE INFORMED THAT THE CLEANING OF EQUIPMENT IS PROHIBITED IN AREAS WHERE THE WASH-WATER WILL DRAIN DIRECTLY TO WETLANDS.
- THE LOCATION AND DEPTH OF EXISTING UTILITIES HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) ALL MATERIALS TO INCLUDE, BUT NOT BE LIMITED TO, TREES, STUMPS, UNSUITABLE MATERIAL, BITUMINOUS PAVEMENT, ETC.
- MATTING AS SPECIFIED BY ENGINEER OR ENVIRONMENTAL CONSULTANT IS TO BE PLACED ALONG ACCESS ROUTE FROM PAVED DRIVEWAY TO STAGING AREA FOR ANY EQUIPMENT MOVEMENT.
- ALL STORMWATER FACILITIES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MOST CURRENT VERSION OF RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL.

**GENERAL LANDSCAPING NOTES:**

- ALL DISTURBED AREAS ARE TO BE REVEGETATED AS SOON AS POSSIBLE. ALL BANKS AND SLOPING AREAS ARE TO RECEIVE A MINIMUM OF 6" OF CLEAN TOPSOIL, THEN SEED AND FERTILIZE. LEVEL AREAS TO RECEIVE 4" MIN. OF CLEAN TOPSOIL, SEED AND FERTILIZE.
- SEED AND SOD SHALL CONSIST OF A BLEND OF KENTUCKY BLUE GRASSES. PLANT BY SUPPLIER'S SPECIFICATIONS.
- LIME SHALL BE APPLIED AS NECESSARY.
- USE OF HAY OR STRAW MULCH DURING SLOPE STABILIZATION IN CONJUNCTION WITH TEMPORARY SEEDING. APPLY MULCH AT A RATE OF 75 TO 100 LBS. PER 1000 SQUARE FEET.
- CONTRACTOR TO MAINTAIN TREE REMOVAL AT A MINIMUM.
- STOCKPILE ALL STRIPPED TOPSOIL FOR LATTER USE. THE LOCATION IS TO BE APPROVED BY THIS ENGINEER. MULCH AND TEMPORARY SEED THE STOCKPILE.
- REMOVE ALL ROCKS 3" OR LARGER IN PLANTING AREA.
- ALL CLEARING SHALL CONFORM TO THE LIMITS AS SHOWN ON PLANS. CLEARING LIMITS ARE TO BE MARKED IN THE FIELD BY THE ENGINEER.

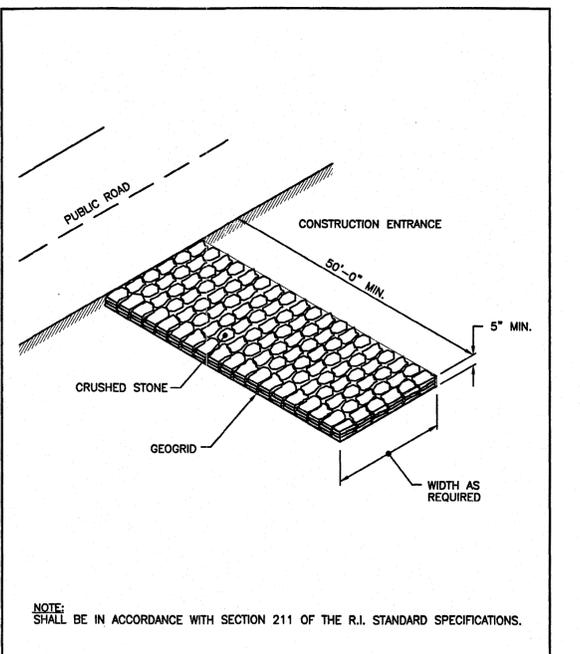


H	A	B	C	D	E	C.F./L.F. OF WALL
2'-0"	3'-3"	-	-	2'-6"	-	10.69
3'-0"	3'-8"	-	-	2'-6"	-	14.21
4'-0"	4'-1"	-	-	2'-6"	-	18.14
5'-0"	4'-6"	-	-	2'-6"	-	22.50
6'-0"	5'-1"	1'-0"	1'-0"	2'-6"	-	27.84
7'-0"	5'-6"	1'-0"	1'-0"	2'-6"	-	33.99
8'-0"	6'-1"	1'-0"	1'-0"	2'-6"	-	36.98
9'-0"	6'-6"	1'-0"	1'-0"	2'-6"	-	42.66
10'-0"	7'-1"	1'-0"	1'-0"	2'-6"	-	47.76
11'-0"	7'-6"	1'-0"	1'-0"	2'-6"	-	53.30
12'-0"	8'-1"	1'-0"	1'-0"	2'-6"	-	59.63



- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 808 OF THE R.I. STANDARD SPECIFICATIONS.
  - USE 1/2" PREFORMED JOINT FILLER AND SEAL. EXPOSED EDGES WITH 3/4" CHAMFER.
  - SEAL BACKFACE WITH 1/2" x 1/2" JOINT SEALANT.
  - SURFACE RUB EXPOSED TO TOP.
  - ALL REINFORCING TO BE EPOXY COATED.
  - PROVIDE EXPANSION JOINTS EVERY 25'-0" IN STEMS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION		
CONCRETE RETAINING WALL		
NO.	REV.	DATE



RHODE ISLAND DEPARTMENT OF TRANSPORTATION		
CONSTRUCTION ACCESS		
NO.	REV.	DATE

R.I. STANDARD 9.9.0

**RIDEM OWTS APPLICATION NO. 1913-1341**

**PROPOSED DETAILS**

Project:  
**PATRICK FOGARTY**  
**A.P. 18 LOT 273**  
**SAW MILL ROAD**  
**GLOCESTER, RHODE ISLAND**

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 JANUARY 2021

PROJECT NO.: 19-39 SHEET 2/2