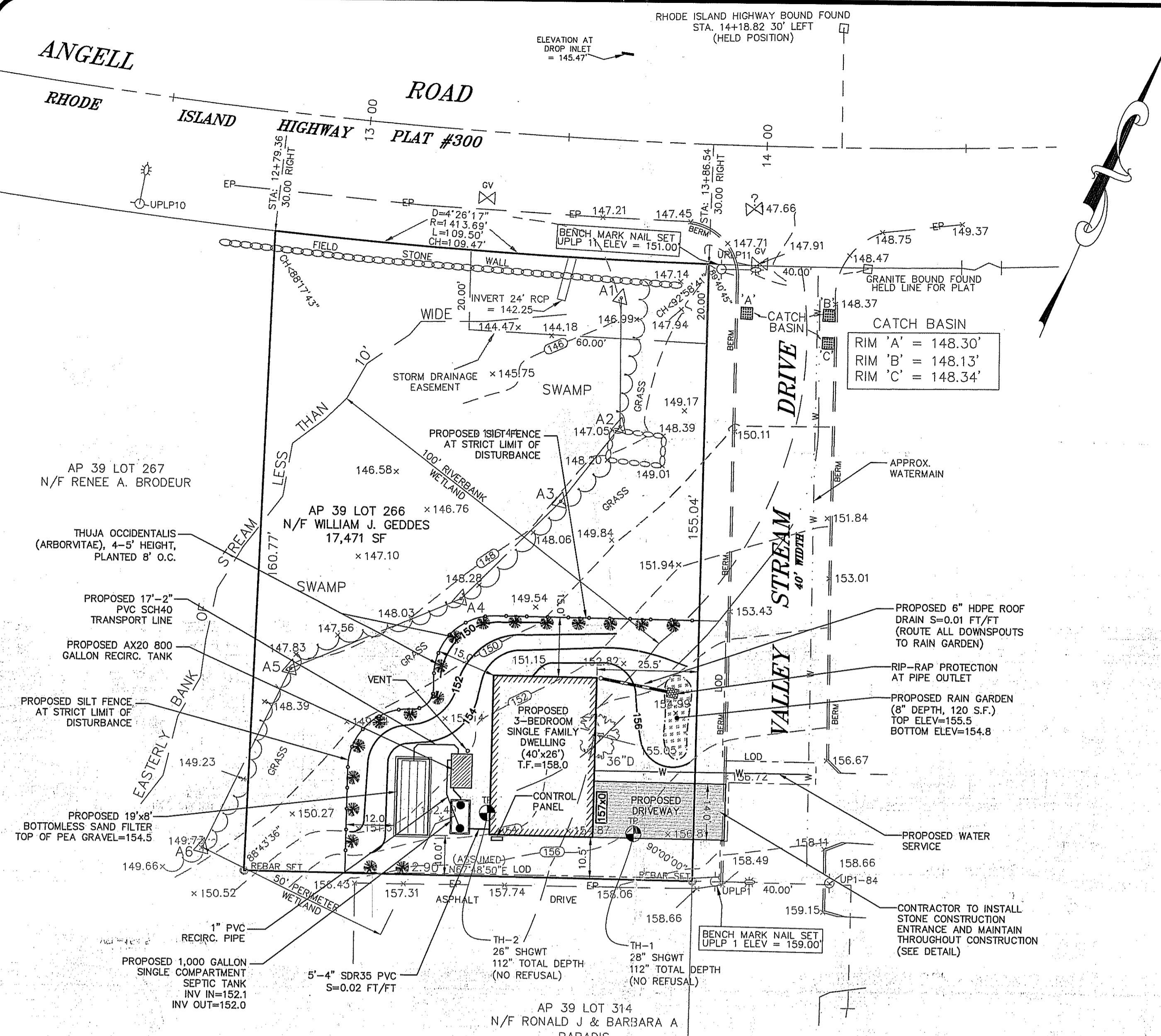


**ANGELL ROAD**  
**RHODE ISLAND HIGHWAY PLAT #300**



**LEGEND**

- XXX EXISTING CONTOUR
- x 114.06 EXISTING SPOT GRADE
- UTILITY POLE-LIGHT POLE
- UTILITY POLE
- B1 EXISTING WETLAND FLAG
- TESTPIT / SOIL EVALUATION
- 157x0 PROPOSED SPOT GRADE
- XXX PROPOSED CONTOUR
- LOD LIMIT OF DISTURBANCE (NO EROSION CONTROL)
- PROPOSED SILT FENCE EROSION CONTROL
- PROPOSED ROOF DRAIN
- W PROPOSED WATER SERVICE
- T.F. TOP OF FOUNDATION WALL

**DESIGN CRITERIA**

- PEAK FLOW = 3 BEDROOMS @ 115 GALLONS PER DAY / BEDROOM = 345 GPD
- CATEGORY 1 SYSTEM & SOIL CATEGORY 1 = 2.3 GAL/SF/DAY LOADING RATE
- SIZE BOTTOMLESS SAND FILTER (BSF): 345 GPD / 2.3 GAL/SF/DAY = 150 S.F.
- USE A 19' LONG X 8' WIDE BOTTOMLESS SAND FILTER = 152 S.F.

**INVERT SCHEDULE**

TOP OF FOUNDATION	EL. 158.00
BUILDING SEWER	EL. 152.20
TOP OF SEPTIC TANK	EL. 153.10
SEPTIC TANK IN	EL. 152.10
SEPTIC TANK OUT	EL. 152.00
AX20 RECIRC. TANK IN	EL. 151.83
AX20 RECIRC. TANK OUT	EL. 151.83
DESIGN G.W.T. AT BSF	EL. 150.50
BOTTOM OF SAND	EL. 151.75
BOTTOM OF PEA GRAVEL	EL. 153.75
FLUSHING VALVE	EL. 154.05
BSF MANIFOLD	EL. 154.15
TOP OF PEA GRAVEL	EL. 154.50

**AX20 800 GALLON RECIRCULATION TANK FLOAT SETTINGS**

RECIRC. PUMP	
HIGH LEVEL ALARM	EL. 151.54
HIGH LEVEL OVERRIDE	EL. 151.41
LOW LEVEL ALARM	EL. 151.33
DISCHARGE PUMP	
HIGH LEVEL ALARM	EL. 151.10
PUMP ON	EL. 150.94
PUMP OFF	EL. 150.81

**B.S.F. DEMAND DOSING**

CALCULATE DOSE VOLUME:  
40 ORIFICES X 0.25 GALLONS PER ORIFICE = 10.0 GALLONS

CALCULATE DRAIN BACK VOLUME:  
DRAIN BACK VOLUME = 17" @ 2" DIA. = 2.8 GALLONS

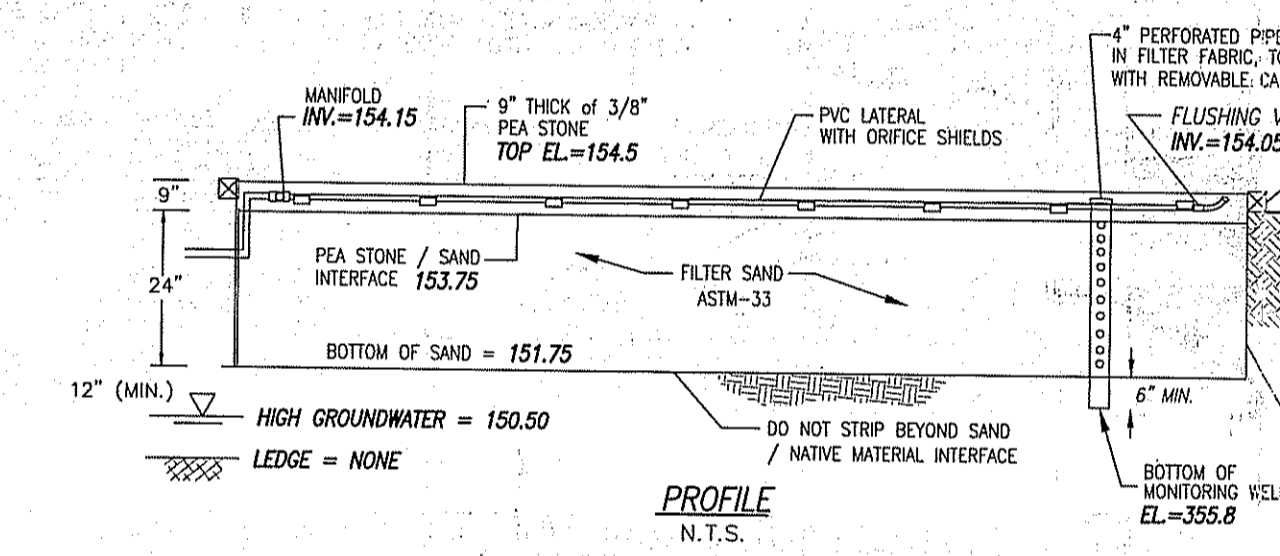
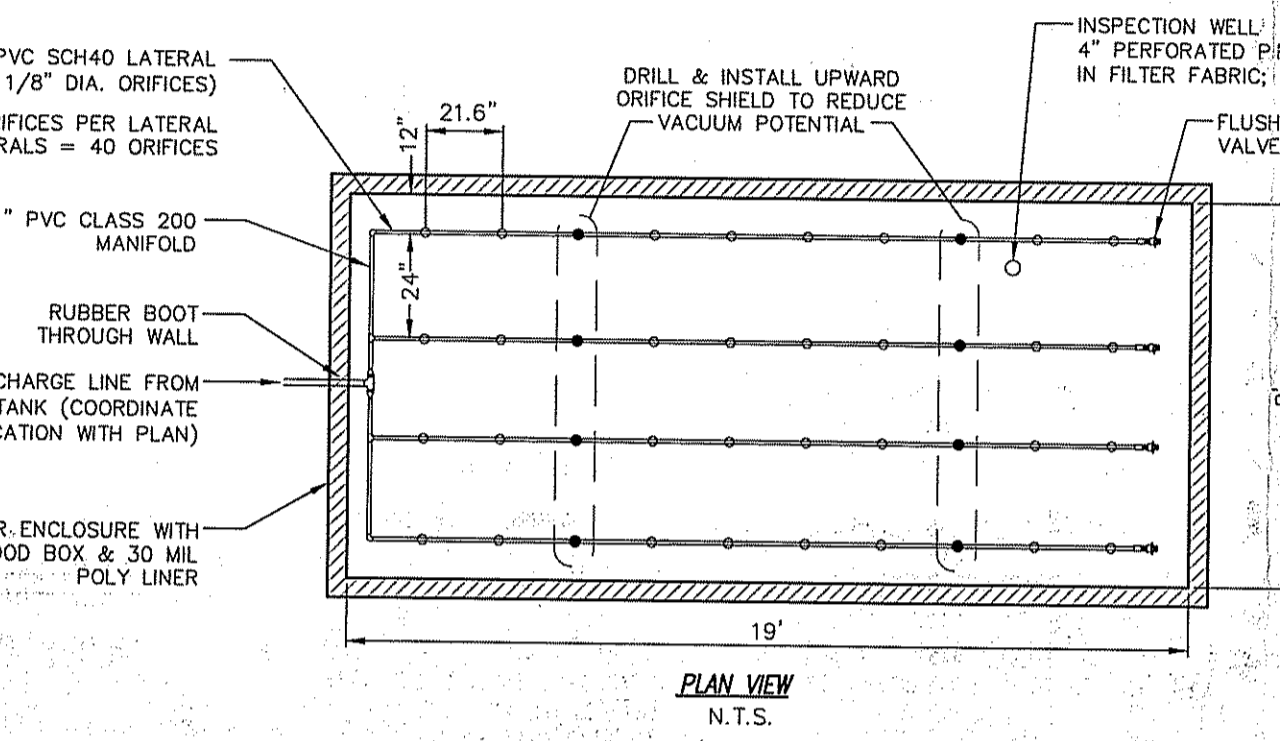
PUMP BASIN DRAINDOWN:  
TOTAL VOLUME = 10.0 + 2.8 = 12.8 GALLONS  
12.8 GAL PER DOSE / 8.0 GAL PER INCH = 1.60 INCHES (PER DESIGN MANUAL)

PUMP CYCLE:  
345 GPD / 12.8 GALLONS = 27 CYCLES PER DAY

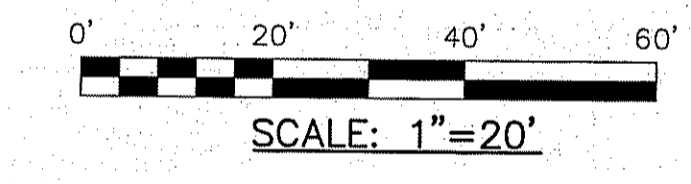
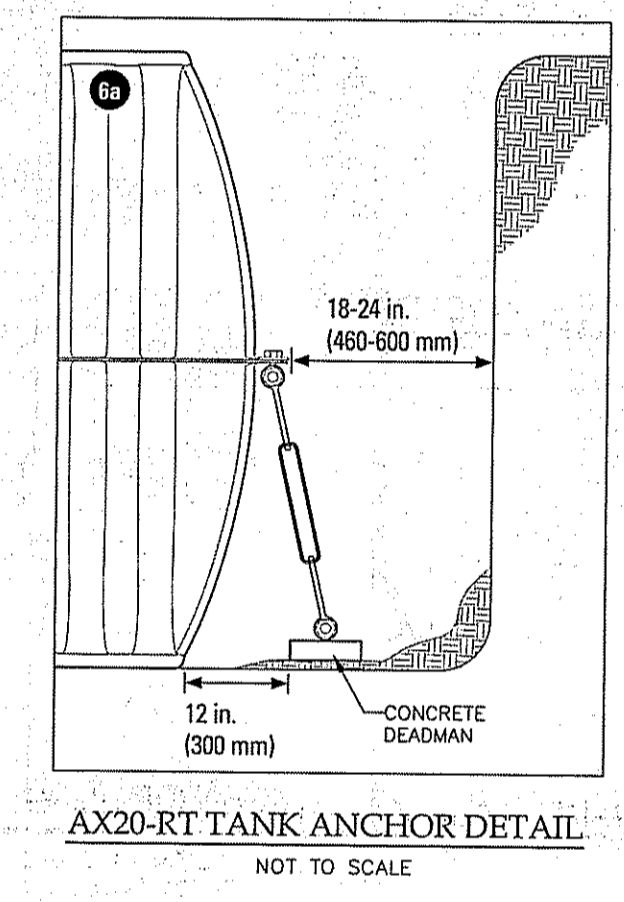
**ZONING: R-1 (W/ WATER, NO SEWER)**

MINIMUM AREA	40,000 S.F.
LOT FRONTAGE	100 FT.
FRONT YARD	25 FT.
SIDE YARD	10 FT.
REAR YARD	25 FT.

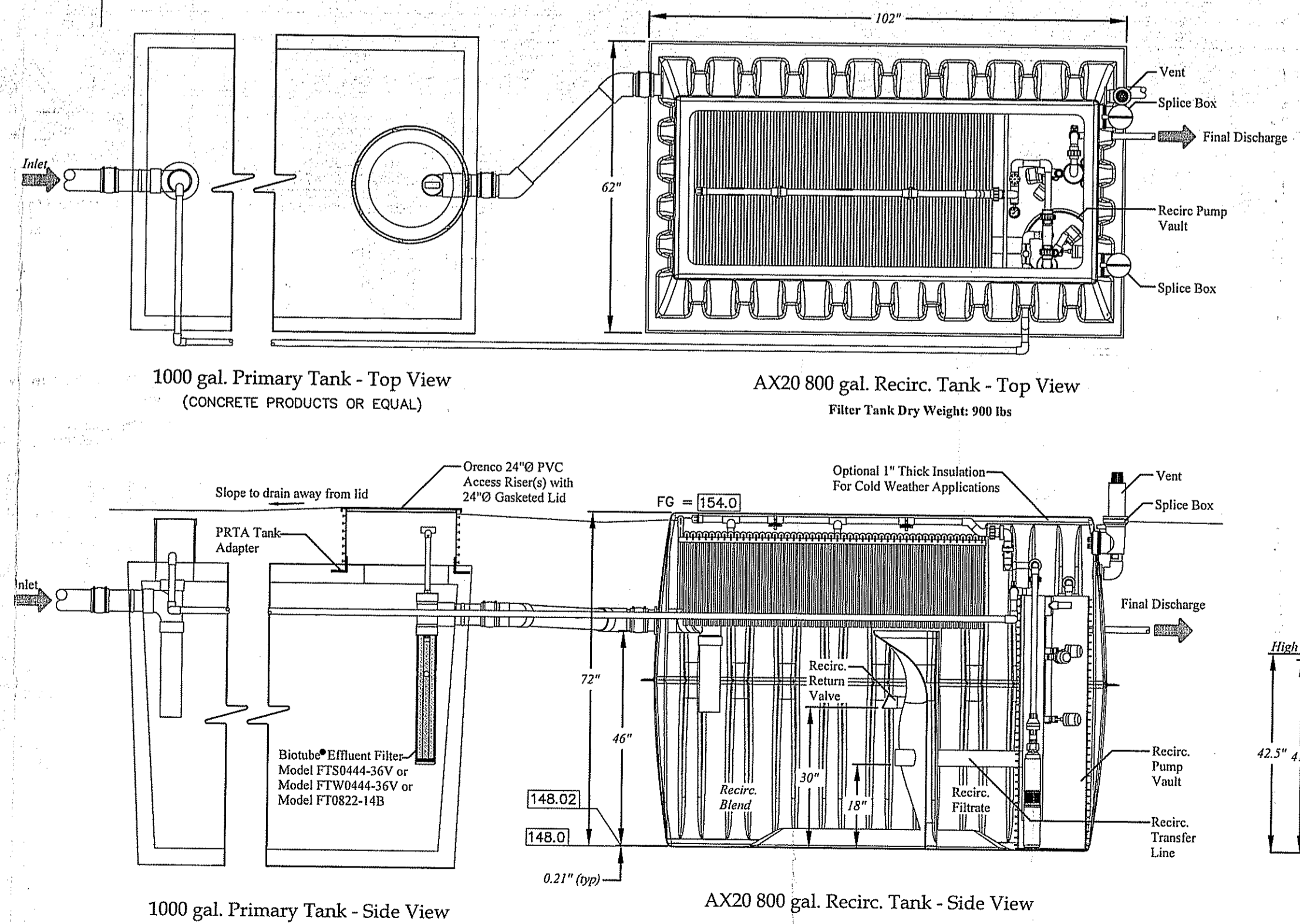
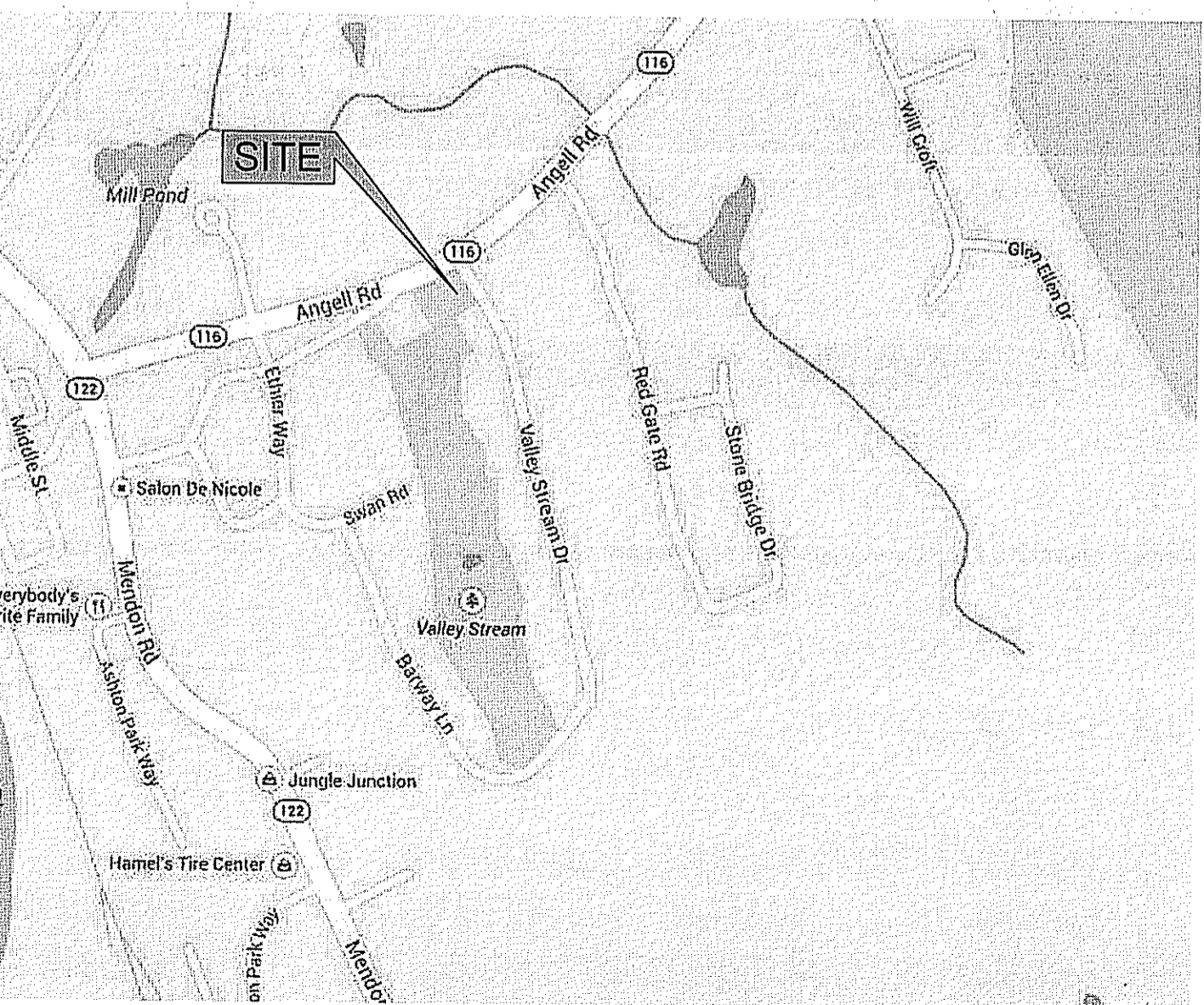
- INSTALLATION NOTES**
- THE PROPOSED BOTTOMLESS SAND FILTER (BSF) SHALL BE STAKED OUT AND PROTECTED PRIOR TO ANY SITE PREPARATION ACTIVITIES. OVER DIGGING THE SAND FILTER SHOULD BE AVOIDED; MINIMAL BACKFILLING ON BOTTOM AND SIDES PROVIDED; A MORE STABLE ENCLOSURE.
  - SOD, VEGETATION AND DEAD OR DECAYING ORGANIC LITTER SHALL BE REMOVED FROM THE AREA PLANNED FOR THE BSF INSTALLATION. THREE (3) INCHES OF THE NATIVE SOIL SHALL BE SCARIFIED AND MIXED WITH 3 INCHES OF SAND MEDIA. PERIMETER STRIPPING AND EXCAVATION OF SOIL BENEATH THE NATIVE SOIL/FILTER SAND INTERFACE IS PROHIBITED.
  - A PERIMETER SUPPORT FRAME OF PLYWOOD AND 2x4 CONSTRUCTION IS USED TO HOLD THE LINER IN PLACE DURING INSTALLATION. TREATED WOOD IS NOT NECESSARY. DURING CONSTRUCTION OF THE SAND FILTER, IT IS IMPORTANT THAT SAND BE PLACED BETWEEN THE EXCAVATED SOIL AND THE SUPPORT FRAME. ALL NAILS OR STAPLES USED MUST HAVE THEIR SHARP ENDS POINTED AWAY FROM THE LINER.
  - A PERMANENT TOP FRAME STRUCTURE (SUCH AS DECAY RESISTANT LANDSCAPE TIMBERS) MUST BE PROVIDED ON ANY PORTION OF A BSF THAT IS INSTALLED ABOVE GRADE. BELOW GRADE USE OF TIMBERS IS PROHIBITED TO PREVENT SOIL SLUMPING AFTER TIMBERS HAVE ROTTED.
  - MAINTAIN 5 FOOT LEVEL PERIMETER AROUND BSF.
  - THE 30 MIL PVC LINER IS UNFOLDED FROM THE CENTER OF THE EXCAVATION AND DRAPED OVER THE TOP EDGES OF THE PERIMETER SUPPORT FRAME. CARE MUST BE TAKEN TO ENSURE THAT THE LINER IS IN FULL CONTACT WITH SIDES AND THAT NO BRIDGING OCCURS.
  - FILTER SAND IS PLACED AND COMPACTED WHILE IT IS DAMP. IF THE SAND IS NOT DAMP, IT WILL NOT COMPACT WELL AND SETTLEMENT MAY CAUSE DISLOCATION AND BREAKAGE OF THE DISTRIBUTION LATERALS. THE SAND SURFACE MUST BE FLAT. SEE THE APPROPRIATE SAND GRADATION GRAPH FOR SPECIFICATIONS.
  - THREE INCHES OF 3/8" INCH PEA STONE IS PLACED ON TOP OF THE COMPACTED SAND, DISTURBING THE SAND AS LITTLE AS POSSIBLE. SEE PEA STONE SPECS. AFTER THE LATERALS ARE INSTALLED AND PRESSURE TEST IS PERFORMED, PLACE PEA STONE OVER THE DISTRIBUTION LATERALS TO PROVIDE 3 INCHES DEPTH OF PEA STONE OVER ANY UPPER ORIFICE SHIELDS. NO FILTER FABRIC OF ANY KIND SHOULD BE PLACED BETWEEN THE SAND AND OVERLYING PEA STONE.
  - THE LINER'S PVC BOOT PERMITS A WATERIGHT PENETRATION OF THE LINER FOR THE TRANSPORT PIPE DELIVERING EFFLUENT TO THE SAND FILTER'S DISTRIBUTION SYSTEM. IN THE EVENT THE GROUND WATER REACHES THAT ELEVATION, THE BOOT WILL PREVENT INFILTRATION. THE MANUFACTURER'S GUIDE MUST BE FOLLOWED EXACTLY WHEN INSTALLING THE PVC BOOTS.
  - THE 1/8" INCH DIAMETER ORIFICES SHOULD BE DRILLED WITH A DRILL PRESS OR DRILL GUIDE USING A NEW 1/8" INCH DRILL BIT AND SHOULD NOT HAVE ANY VISIBLE BURRS. ALL PVC JOINTS SHOULD BE GLUED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
  - ORIFICE SHIELDS ARE PLACED ON THE LATERALS TO PREVENT THE PEA GRAVEL FROM BLOCKING THE FLOW OUT OF THE ORIFICES AND TO OBTAIN BETTER EFFLUENT DISTRIBUTION OVER THE SAND. COLD WEATHER ORIFICE SHIELDS SHOULD BE USED IN COLD WEATHER CLIMATES TO PREVENT THE FREEZING OF THE LATERALS.
  - AS PART OF THE COLD WEATHER REQUIREMENT, TWO (2) OF THE ORIFICES IN EACH DISTRIBUTION LATERAL MUST BE DRILLED POINTING UPWARD AND THE REST ARE DRILLED POINTING DOWNWARD. UP-POINTING ORIFICES SHALL BE LOCATED AT POINTS APPROXIMATELY 1/3 AND 2/3 ALONG THE LENGTH OF EACH DISTRIBUTION LATERAL. INSTALL COLD WEATHER ORIFICE SHIELDS AT LATERALS (UPWARD AND DOWNWARD POINTING).
  - THE ELECTRICAL SPICE BOX MUST BE UL OR CSA LISTED AND CORROSION-PROOF WITH THE PROPER NUMBER OF CORD GRIPS INSTALLED. HEAT SHRINK AND OR WATERIGHT WIRE NUTS MUST BE USED ON THE INDIVIDUAL WIRE SPLICES. THE BOX TO ENSURE THE INTEGRITY OF THE SPLICES IF THE BOX BECOMES FLOODED. SUFFICIENT LENGTH OF WIRES MUST BE PROVIDED IN THE BOX TO ALLOW FOR FUTURE REPAIRS.
  - THE CONDUIT SEAL MUST BE UL OR CSA LISTED AND MUST BE INSTALLED USING PROPER CONDUIT SEALANT AS RECOMMENDED BY THE MANUFACTURER. SILICONE IS NOT ALLOWED. THE SEAL PREVENTS WATER FROM DRAINING INTO THE SPICE BOX AND GASES FROM ESCAPING THE TANK.
  - THE ELECTRICAL CONDUIT MUST BE UL OR CSA LISTED. THERE ARE ELECTRICAL CODE RULES RESTRICTING THE NUMBER OF BENDS BETWEEN PANELS AND JUNCTION BOXES. REFER TO NEC 1993 SECTION 347-14.
  - INSTALL LID INSULATION ON ALL LIDS TO PREVENT FREEZING.
  - THE CLASS 200 TRANSPORT PIPE SHALL BE ALLOWED TO DRAIN BACK COMPLETELY, TO PUMP CHAMBER. MAXIMIZE PITCH OF TRANSPORT PIPE TO ACHIEVE DRAINBACK AND PROVIDE FURTHER FREEZE PROTECTION AS CONDITIONS WARRANT.
  - IN AREAS WHERE THE BSF MAY BE ACCESSIBLE TO CHILDREN, THE PEA STONE SURFACE MAY BE COVERED WITH A BROAD WEAVE FILTER FABRIC AND AN ADDITIONAL LAYER OF PEA STONE OR LARGER WASHED STONE, NO GREATER THAN 2" IN THICKNESS, TO DISCOURAGE PHYSICAL DISTURBANCE TO OR CONTACT WITH THE TREATMENT ZONE.
  - PROVIDE A PERMANENT 10' MINIMUM BUFFER BETWEEN BSF AND ANY TREES OR SHRUBS.



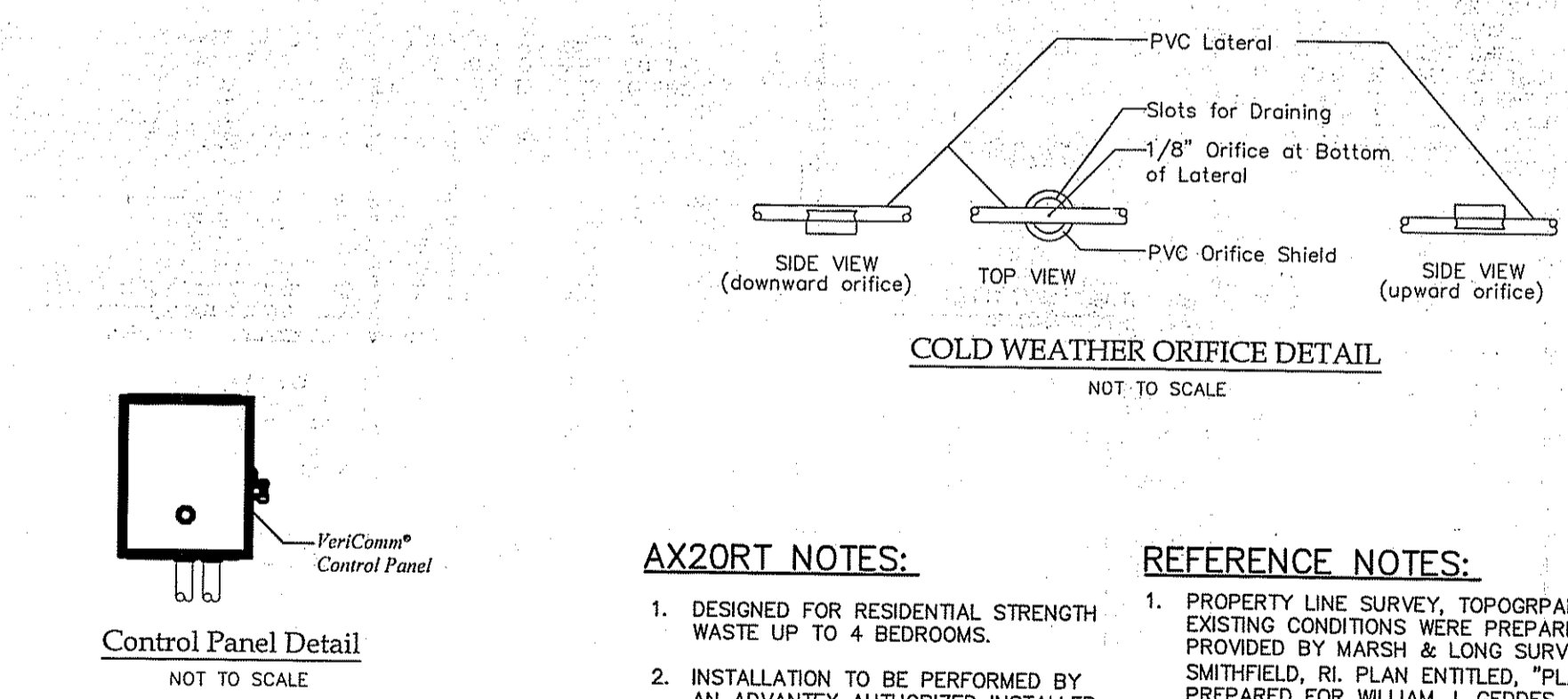
**19'x8' BOTTOMLESS SAND FILTER**  
SCALE AS NOTED



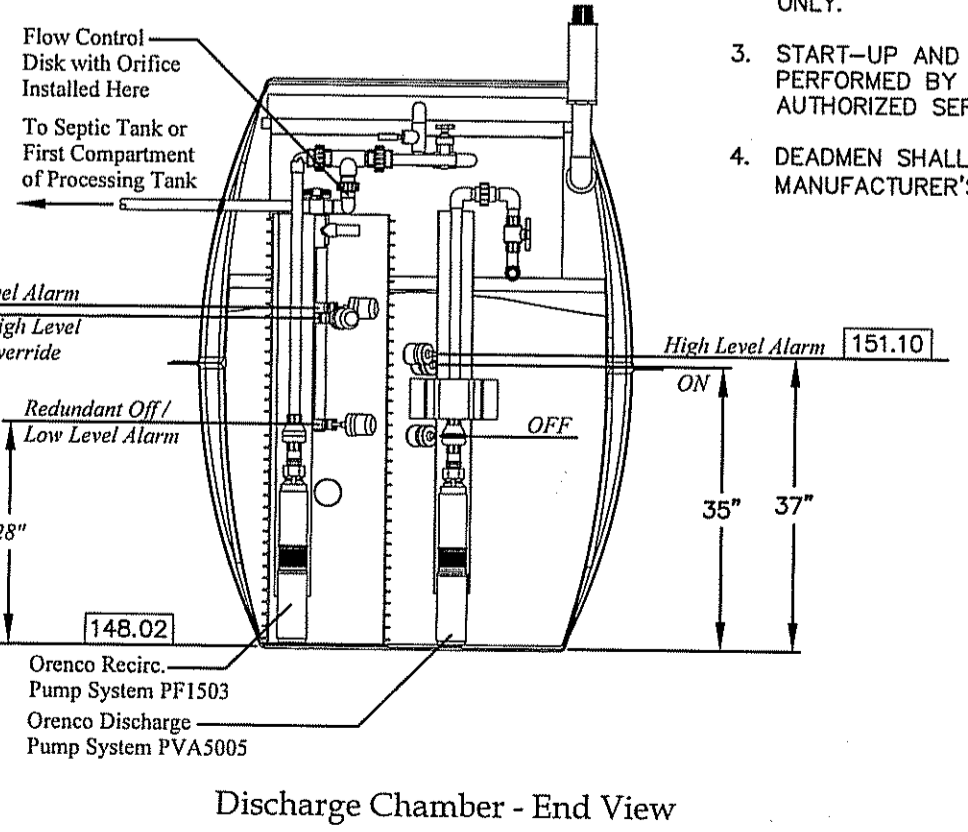
THE CONTRACTOR SHALL NOTIFY DIG-SAFE 72 HOURS PRIOR TO START OF CONSTRUCTION AND MAINTAIN ALL MARKINGS FOR THE DURATION OF THE PROJECT.



**Advantex AX20RT Treatment System**  
Pump Discharge - Mode 3b  
NOT TO SCALE



**COLD WEATHER ORIFICE DETAIL**  
NOT TO SCALE



**Control Panel Detail**  
NOT TO SCALE

- AX20RT NOTES:**
- DESIGNED FOR RESIDENTIAL STRENGTH WASTE UP TO 4 BEDROOMS.
  - INSTALLATION TO BE PERFORMED BY AN ADVANTEX AUTHORIZED INSTALLER ONLY.
  - START-UP AND SERVICE TO BE PERFORMED BY AN ADVANTEX AUTHORIZED SERVICE PROVIDER ONLY.
  - DEADMEN SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

- REFERENCE NOTES:**
- PROPERTY LINE SURVEY, TOPOGRAPHY, AND EXISTING CONDITIONS WERE PREPARED AND PROVIDED BY MARSH & LONG SURVEYING, INC. OF SMITHFIELD, RI. PLAN ENTITLED, "PLAN OF LAND, PREPARED FOR WILLIAM J. GEDDES, CLASS 1 SURVEY OF AP 35 LOT 266, ANGELL ROAD & VALLEY STREAM DRIVE, JULY 16, 2014."
  - WETLANDS WERE FLAGGED AND A REPORT OF FINDINGS DATED AUGUST 29, 2014 WAS PREPARED BY NATURAL RESOURCE SERVICES, INC. OF HARRISVILLE, RI.
  - SOIL EVALUATIONS WERE PERFORMED BY EDWARD J. AVZINS, D-4083, OF NATURAL RESOURCE SERVICES, INC. ON AUGUST 26, 2014.

ON-SITE WASTEWATER TREATMENT SYSTEM & LOW IMPACT DEVELOPMENT PLAN  
**NEW SINGLE FAMILY DWELLING**  
VALLEY STREAM DRIVE, CUMBERLAND, RI  
A.P. 39 LOT 266

PREPARED FOR:  
WILLIAM & ELISE GEDDES

NO.	DATE	DESCRIPTION

DATE: NOVEMBER 19, 2014  
SCALE: AS NOTED  
DESIGN/CHECK BY: C.S.R.  
SHEET NO.

**ADVANCED CIVIL DESIGN, INC.**  
CIVIL ENGINEERS

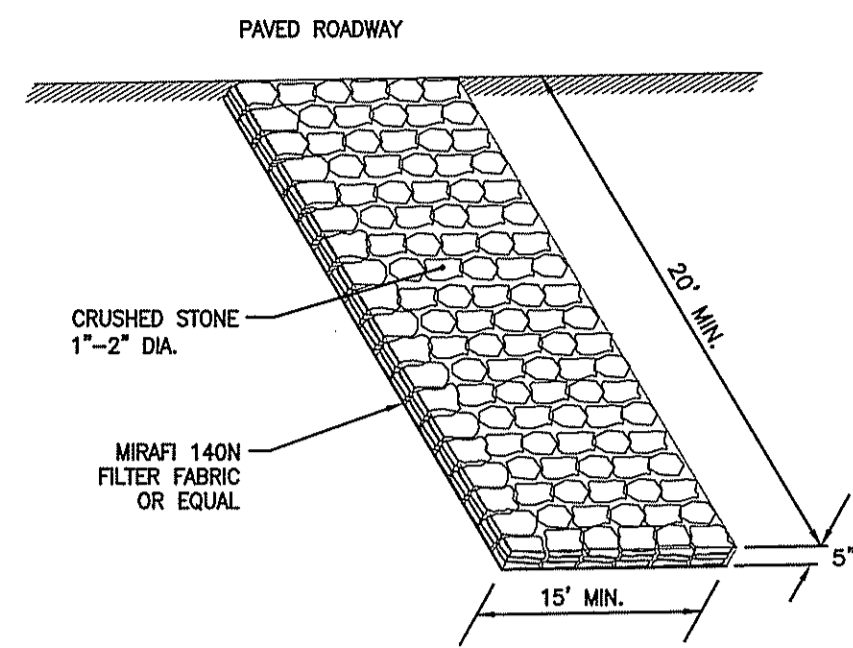
7 COUNTRYSIDE LANE  
SCITUATE, RI 02857

PH: (401) 473-4404

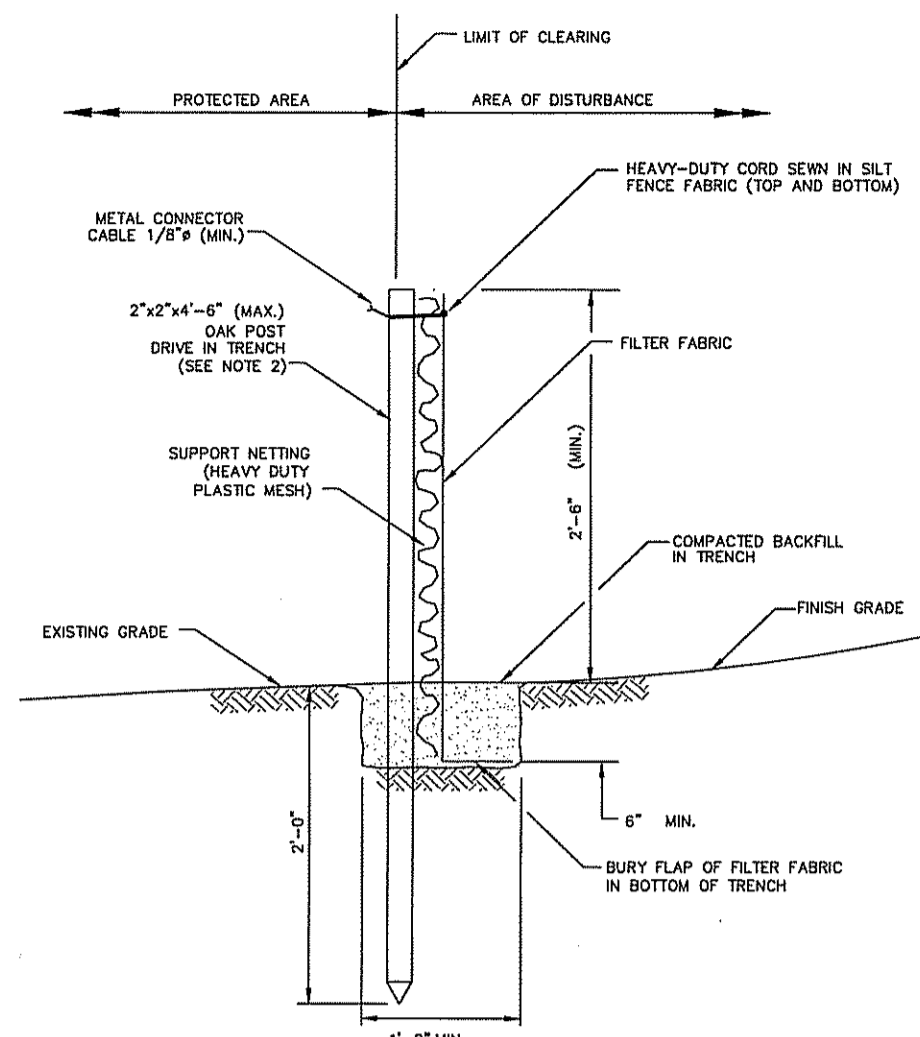
CURTIS S. RUOTOLO  
No. 8756  
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

**1**

Sheet 1 of 2

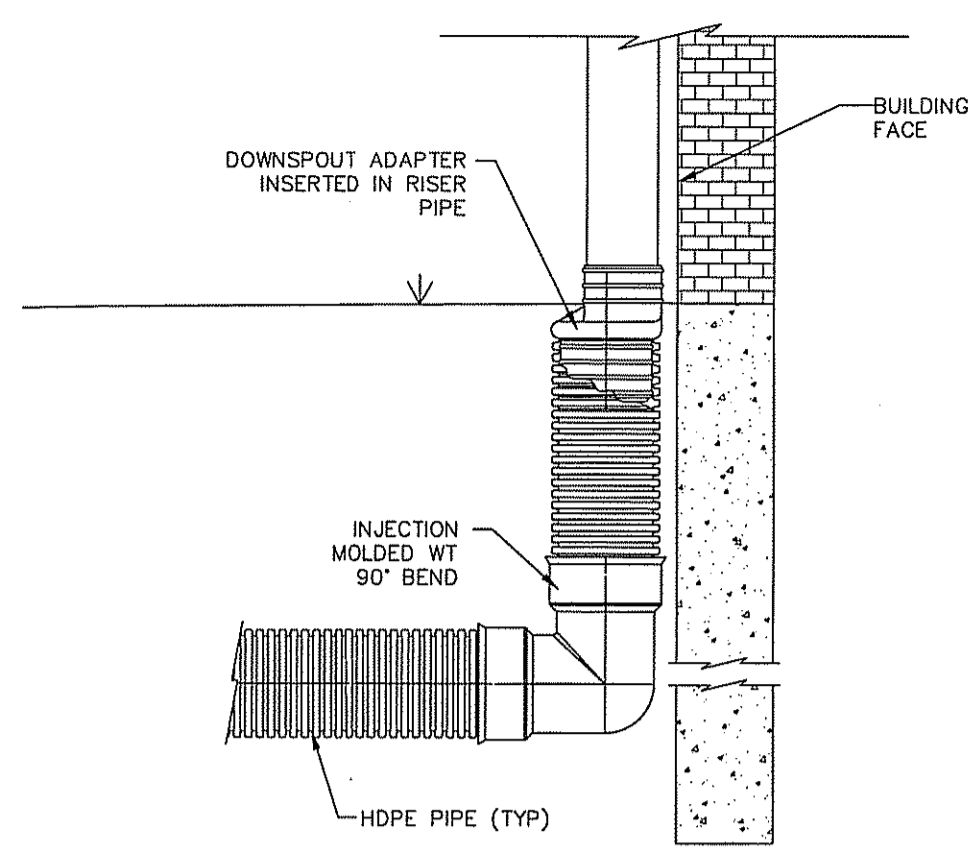


**CONSTRUCTION ENTRANCE**  
NOT TO SCALE

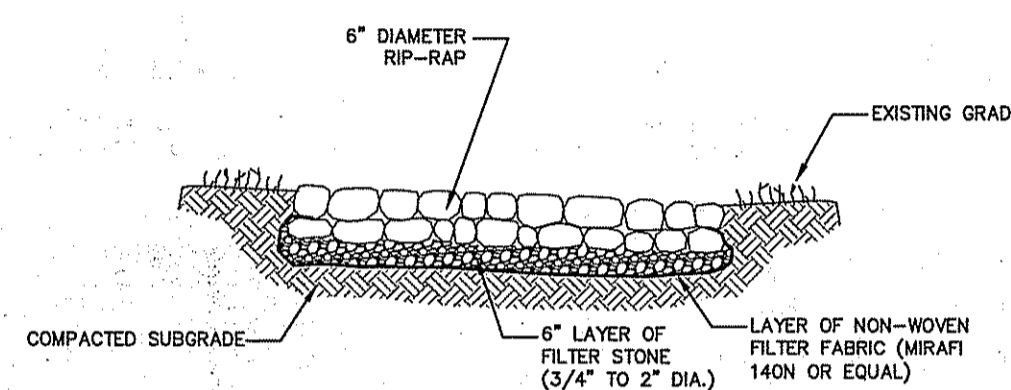


- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
  2. 2"x2"x4" (MAX.) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 6'-0" (MAX.) O.C. IN WETLAND AREAS AND 4'-0" (MAX.) O.C. IN WETLAND RAVINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
  3. 1"x1"x4" (MIN.) POSTS PERMITTED FOR RE-FABRICATED SILT FENCE.
  4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

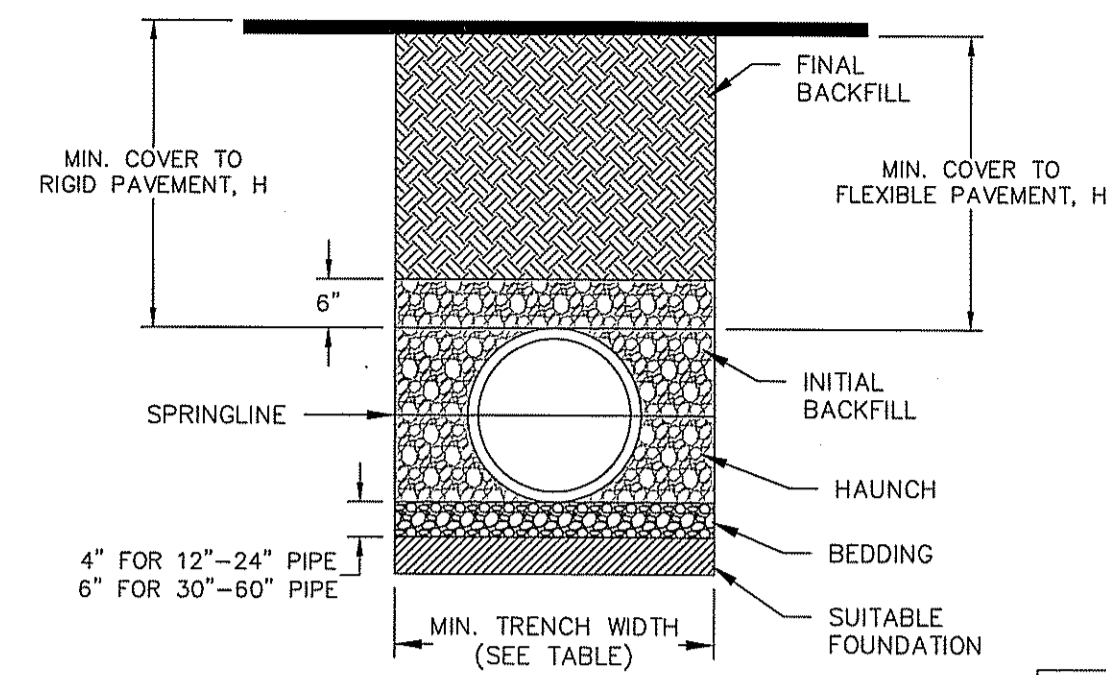
**SILT FENCE DETAIL**  
NOT TO SCALE



**ROOF DRAIN DOWNSPOUT CONNECTION**  
NOT TO SCALE



**RIP-RAP OUTFALL PROTECTION**  
NOT TO SCALE



- NOTES:**
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
  2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
  3. WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
  4. SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).
  5. SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
  6. MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE. MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"

PIPE DIAM.	SURFACE LIVE LOADING CONDITION	
	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD)**
12" - 48"	12"	48"
54" - 60"	24"	60"

PIPE DIAM.	COOPER E-80**	
	UP TO 24"	24"
30" - 36"	36"	48"
42" - 60"	48"	60"

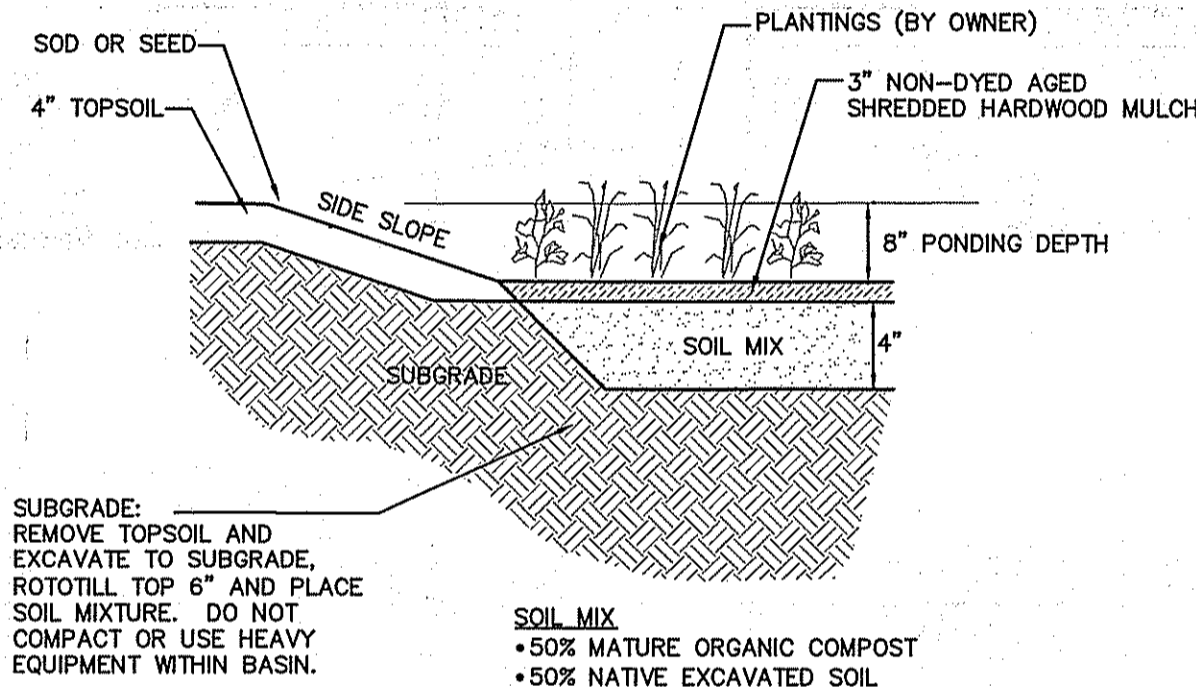
\*\* COVER IS MEASURED FROM TOP OF PIPE TO BOTTOM OF RAILWAY TIE.  
\*\*\* E-80 COVER REQUIREMENTS, ARE ONLY APPLICABLE TO ASTM F 2306 PIPE.

**HDPE PIPE INSTALLATION DETAIL**  
NOT TO SCALE

**Soil Erosion & Sediment Control Notes**

1. SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
2. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED OR PROTECTED.
3. PLANTABLE SOIL 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 RHODE ISLAND'S STANDARD SPECIFICATIONS, AS AMENDED.
4. THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:
 

TYPE	LBS/ACRE
CREeping RED FESCUE	75
KENTUCKY BLUE GRASS	15
COLONIAL BENT GRASS	5
PERENNIAL RUE GRASS	5
5. EARLY SPRING OR LATE SUMMER SEEDING IS RECOMMENDED. LIME AND FERTILIZER AS REQUIRED BY SOIL TESTING TO COMPLEMENT OR UPGRADE EXISTING CONDITIONS. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS BEFORE MIXING AND PLANTING WITH APPROPRIATE INOCULUM FOR EACH VARIETY. THE RECOMMENDED SEEDING DATES ARE APRIL 1ST THROUGH JUNE 15TH AND AUGUST 15TH THROUGH SEPTEMBER 30TH.
6. SLOPES GREATER THAN 3:1 SHALL RECEIVE A TREATMENT OF NORTH AMERICAN GREEN S150 EROSION CONTROL BLANKET OR EQUAL. THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
7. ALL TEMPORARY EROSION PROTECTION SHALL REMAIN IN PLACE UNTIL AS ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
8. ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE RHODE ISLAND STANDARD SPECIFICATION'S FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
9. STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR ANY WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDDED OR COVERED.
10. THE CONSTRUCTION SUPERINTENDENT SHALL HAVE THE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN.



**RAIN GARDEN**  
NOT TO SCALE

**Rain Garden Plantings (Example Only):**

LATIN NAME	COMMON NAME	SIZE	SPACING
<b>GRASSES / PERENNIALS</b>			
FESTUCA OVINE GLAUCA	BLUE FESCUE	1 GAL.	18" O.C.
PANICUM VIRGATUM	SWITCHGRASS	1 GAL.	18" O.C.
PENNISETUM ALOPUROIDES	FOUNTAIN GRASS	1 GAL.	18" O.C.
RUDBECKIA HIRTA	BLACK EYED SUSAN	1 GAL.	18" O.C.
<b>SHRUBS</b>			
CEPHALANTHUS OCCIDENTALIS	COMMON BUTTONBUSH		
COMPTONIA PEREGRINA	SWEET FERN		
LEDUM GROENLANDICUM	LABRADOR TEA		
PHOTINIA MELANOCARPA	BLACK CHOKEBERRY		

\* FINAL PLANTINGS TO BE CHOSEN AND INSTALLED BY OWNER OR OWNER REPRESENTATIVE. REFERENCE THE RHODE ISLAND COASTAL PLANT GUIDE AT [www.uri.edu/ceis/ceoc/coastalPlants/CoastalPlantGuide](http://www.uri.edu/ceis/ceoc/coastalPlants/CoastalPlantGuide).

**Rain Garden Maintenance Notes:**

1. THE RAIN GARDEN SHALL BE INSPECTED FOLLOWING AT LEAST THE FIRST TWO PRECIPITATION EVENTS OF AT LEAST 1.0 INCH TO ENSURE THAT THE SYSTEM IS FUNCTIONING PROPERLY. THEREAFTER, THE RAIN GARDEN SHALL BE MONITORED AND MAINTAINED TO ASSURE PROPER FUNCTIONING, PLANT GROWTH AND SURVIVAL. PLANTS SHALL BE REPLACED ON AN AS-NEEDED BASIS DURING THE GROWING SEASON.
2. SILT/SEDIMENT SHALL BE REMOVED FROM THE RAIN GARDEN WHEN THE ACCUMULATION EXCEEDS ONE INCH, OR WHEN WATER PONDS ON THE SURFACE OF THE RAIN GARDEN FOR MORE THAN 48 HOURS. THE TOP FEW INCHES OF MATERIAL SHALL BE REMOVED AND SHALL BE REPLACED WITH FRESH SOIL MIXTURE AND MULCH.
3. PRUNING OR REPLACEMENT OF VEGETATION SHALL OCCUR WHEN DEAD OR DYING VEGETATION IS OBSERVED.
4. GULLIES SHALL BE REPAIRED WHEN THEY OCCUR.
5. FERTILIZER OR PESTICIDES SHALL NOT BE APPLIED TO PLANTS WITHIN RAIN GARDENS.
6. VEGETATED SWALES SHALL BE INSPECTED ANNUALLY AND SHOULD BE INSPECTED AFTER LARGE STORM EVENTS.
7. ERODED SIDE SLOPES AND CHANNEL BOTTOMS SHALL BE STABILIZED AS NECESSARY.

SOIL EROSION CONTROL AND LOW IMPACT DEVELOPMENT (LID) DETAILS <b>NEW SINGLE FAMILY DWELLING</b> VALLEY STREAM DRIVE, CUMBERLAND, RI A.P. 39 LOT 266 PREPARED FOR: WILLIAM & ELISE GEDDES			NO. DATE DESCRIPTION   
<b>ADVANCED CIVIL DESIGN, INC.</b> CIVIL ENGINEERS 7 COUNTRYSIDE LANE SCITUATE, RI 02857 PH: (401) 473-4404			DATE: NOVEMBER 19, 2014 SCALE: AS NOTED DESIGN/CHECK BY: C.S.R. SHEET NO. <h1 style="text-align: center;">2</h1> Sheet 2 of 2