

### LEGEND

- SOIL EVALUATION
- WATER LINE
- EXISTING CONTOUR 350
- PROPOSED CONTOUR 350
- LIMIT OF DISTURBANCE
- SOIL EROSION CONTROL
- Existing Wattles
- STORMWATER RAIN GARDEN
- STORMWATER DRIVEWAY SWALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS  
 SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: **DEC 12, 2024** FILE #: **21-0286**  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy L. Freeman*

AP 34 LOT 43  
 AREA=219,781 SF  
 5± Acres

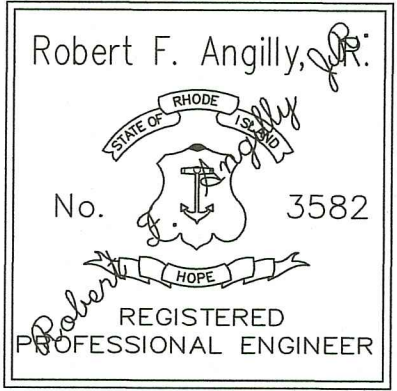
34/42

EX DWTS  
 #8903-72

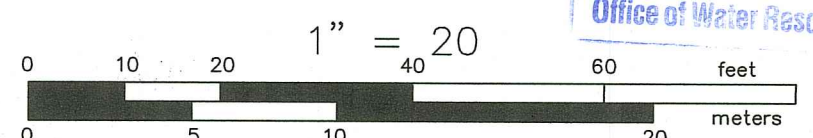
34 / 44  
 VACANT

References:  
 SURVEY BY:  
 Anthony E. Muscatelli & Associates  
 Recorded on 11-12-81  
 DWTS 2003-1595  
 Approved 10-29-2021  
 FWW 21-0286  
 Insig Alter 12-23-2021

Proposed Redesign  
 Dwelling On Slab &  
 Further From Wetland  
 DWTS Reduced To 3 BR Design



ROBERT F. ANGILLY, Jr.  
 DWTS Designer #3047



TERRY LANE COMPANY  
 LAND USE FACILITATORS - REAL ESTATE PRACTITIONERS  
 15A Terry Lane, Chepachet, R.I. 02814 (401) 568-8006

PROPOSED SITE PLAN  
 for NEIL WALLIS  
 -Wallum Lake Road  
 in BURRILLVILLE, RI  
 AP 34 LOT 43

### DESIGN DATA

Proposed 3 B/R Dwelling / 345 Gals/Day  
 Soil Cat #9 - Loading Rate .4 Gal/SF/Day  
 SHWT = 24" Design Depth  
 Minimum Required Area = 863 S/F  
 Area Provided = 924 S/F  
 SEE ATTACHED TYPICALS & DESIGN CRITERIA

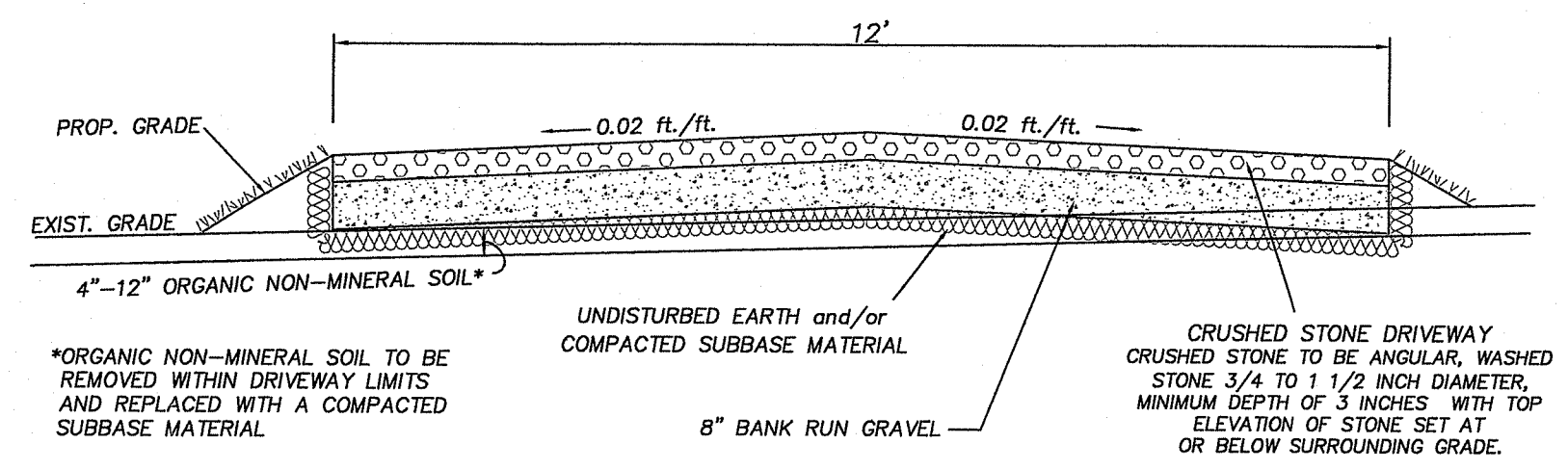
EXISTING ACCESS  
 12" ADS CULVERT  
 FWW #21-0286  
 Start Construction 7/14/2022



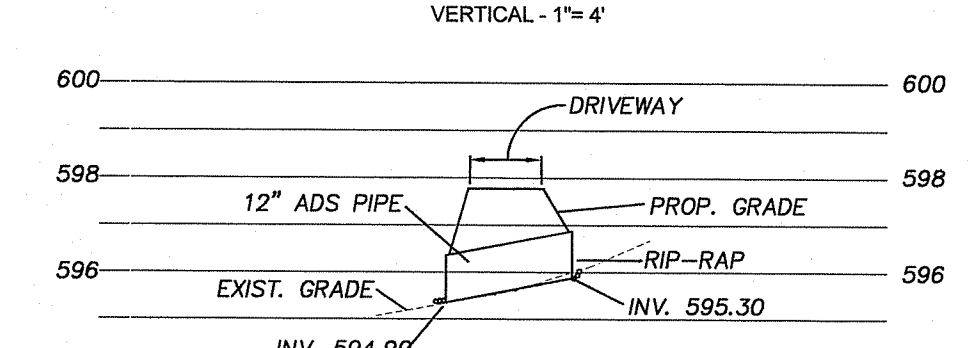
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Marcy N. Nyberg*

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

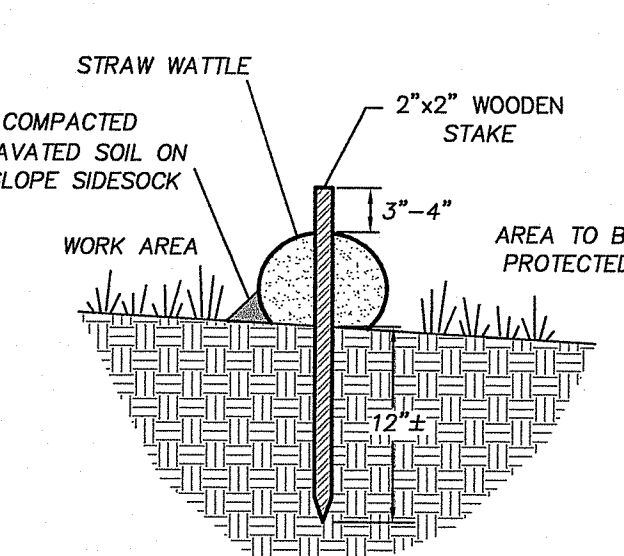
**DRIVEWAY CROSS-SECTION**  
NOT TO SCALE



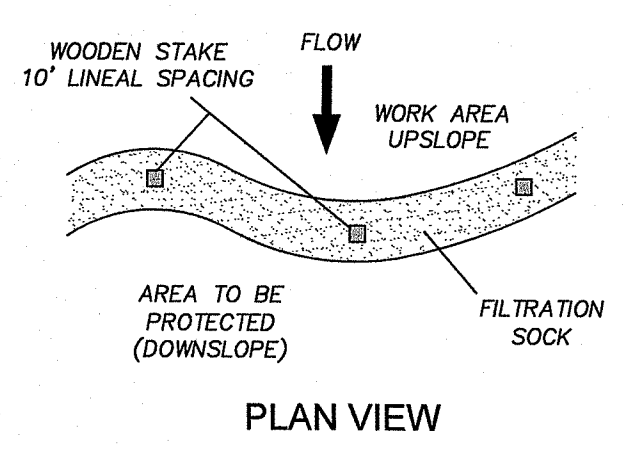
**CULVERT CROSS-SECTION**  
SCALE: HORIZONTAL - 1"=30'  
VERTICAL - 1"=4'



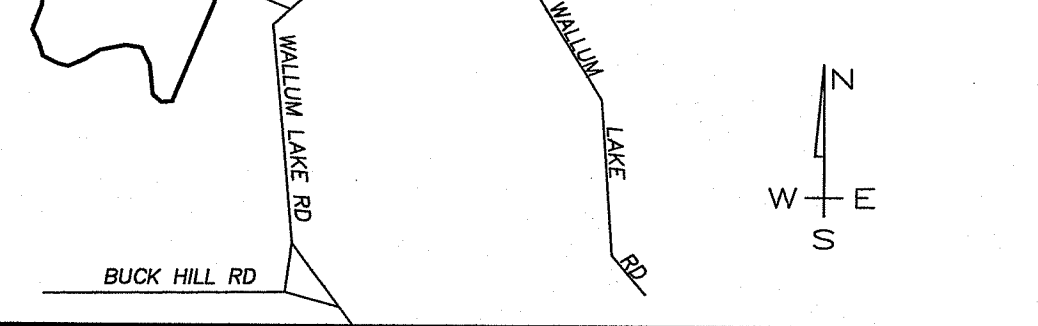
**STRAW WATTLE DETAIL**  
NOT TO SCALE



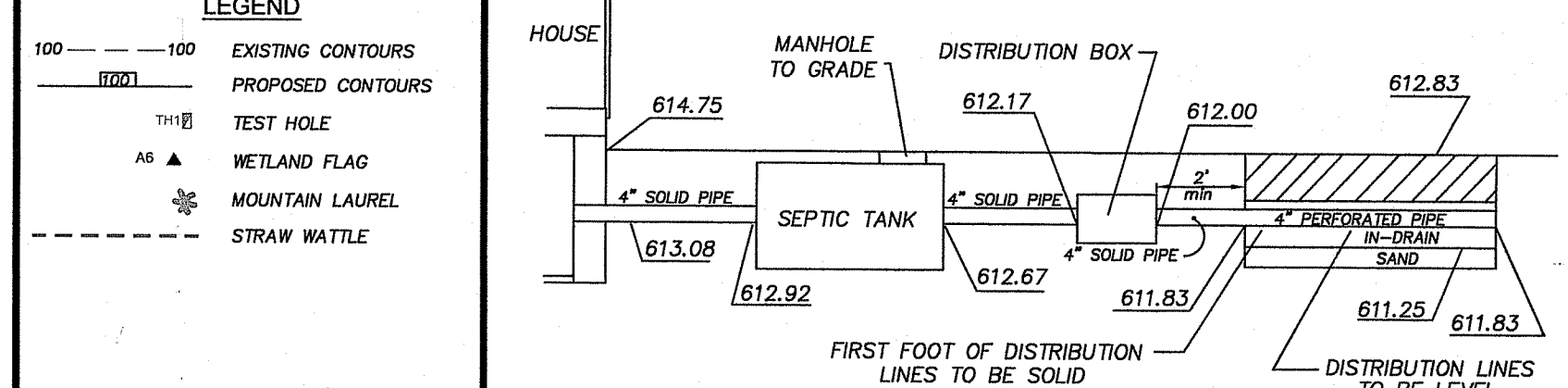
**CROSS-SECTION**



**LOCUS MAP**  
NOT TO SCALE



**SYSTEM PROFILE**  
NOT TO SCALE



**LEGEND**  
100 --- 100 EXISTING CONTOURS  
100 --- 100 PROPOSED CONTOURS  
TH1 TEST HOLE  
AS WETLAND FLAG  
MOUNTAIN LAUREL  
STRAW WATTLE

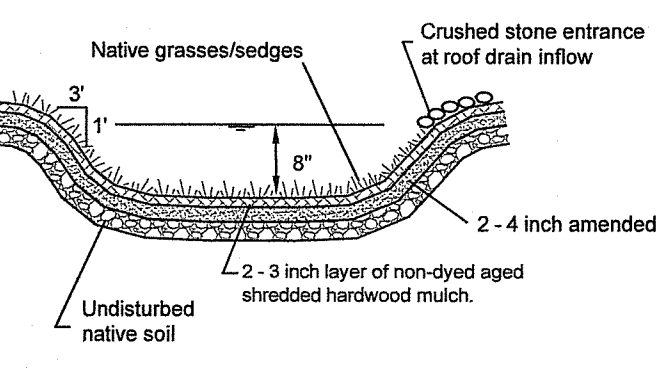
**GENERAL NOTES**

- 1) LEACHING TRENCHES TO BE EXCAVATED IN ACCORDANCE WITH RIDEM REGULATION 6.33(J). TREES, BRUSH AND STUMPS WITHIN AND EXTENDING 10 FEET BEYOND LEACHFIELD TO BE REMOVED. 5' STRIP APPLIES.
- 2) USE SDR #35 PVC PIPING OR EQUIVALENT THROUGHOUT SYSTEM.
- 3) NO WELL EXISTS WITHIN 100' OF THE PROPOSED LEACHING SYSTEM.
- 4) ZABEL EFFLUENT FILTER TO BE INSTALLED AT SEPTIC TANK OUTLET.
- 5) NO WELLS, EXISTING OR PROPOSED, ARE WITHIN 200' FEET OF OWTS. NO PUBLIC WELLS, EXISTING OR PROPOSED, ARE WITHIN 500' OF THE OWTS UNLESS SHOWN.
- 6) BRING SEPTIC TANK MANHOLE TO GRADE AND D-BOX MANHOLE TO WITHIN 12" OF GRADE.
- 7) SEPTIC TANK TO BE A MINIMUM OF 75' FROM ALL WELLS.
- 8) ENDS OF LINES IN TRENCH TO BE INTERCONNECTED.
- 9) D-BOX TO HAVE A MINIMUM BOTTOM AREA OF 3 SQUARE FEET AND MEET H-20 WHEEL LOADS WITH MARKER SET TO GRADE.
- 10) SANITARY TEES TO BE INSTALLED IN SEPTIC TANK.
- 11) NO DRAINS OF ANY KIND SHALL BE WITHIN 25' UP OR SIDE GRADIENT OR 50' DOWN GRADIENT OF THE LEACHING SYSTEM.
- 12) 10' FROM LEACHING AREA NOT TO BE LOWER THAN ELEV.: 611.83.
- 13) COVER OVER SEPTIC TANK TO BE GRADED TO DIVERT SURFACE RUNOFF.
- 14) SYSTEM INSTALLATION TO BE SUPERVISED BY THE DESIGNER.
- 15) WASHING MACHINE LINT FILTER IS STRONGLY RECOMMENDED TO PREVENT PREMATURE FAILURE OF ELVEN SYSTEM.
- 16) D-BOX TO HAVE TEES OR BAFFLE.
- 17) NO STRUCTURES, EXISTING OWTS'S, OR WATER LINES EXIST WITHIN 100' OF PROPERTY LINE UNLESS SHOWN.

PLAT 17, LOT 65  
N/F BENOIT J. DUBE  
(VACANT)

AREA: 219,781 SF

**2' WIDE VEGETATED SWALE**  
NOT TO SCALE

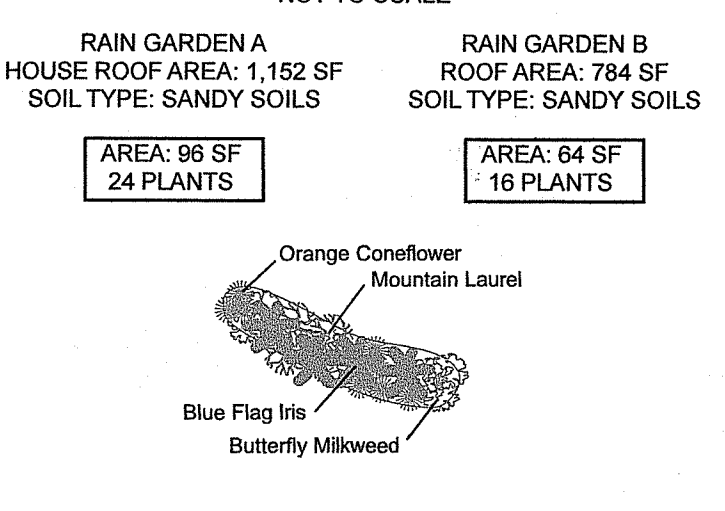


NOTE: VEGETATED SWALE SHALL BE INSPECTED ANNUALLY AND SHOULD BE INSPECTED AFTER LARGE STORM EVENTS.

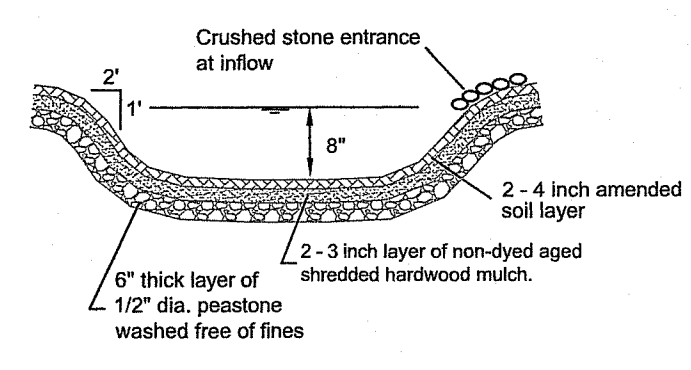
**VEGETATIVE SWALE MAINTENANCE**

1. The vegetated swale shall be inspected annually and after large storm events.
2. Eroded side slopes and channel bottom shall be stabilized as necessary.
3. If the surface of the dry swale becomes clogged to the point that standing water is observed on the surface 48 hours after precipitation events, the bottom shall be re-tilled or cultivated to break up any hard-packed sediment, and then reseeded.
4. Vegetation in dry swales shall be moved as required to maintain minimum grass heights in the 4-6 inch range.
5. Every five years, the channel bottom of dry swales should be scraped to remove sediment and to restore original cross section and infiltration rate, and should be seeded to restore ground cover, where necessary.

**RAIN GARDEN PLANTING DETAIL**  
NOT TO SCALE



**RAIN GARDEN CROSS-SECTION**  
NOT TO SCALE



**RAIN GARDEN TREATMENT**

Rain garden to be 8" deep with a 2-4 inch amended soil layer (50/50 mixture of the excavated native soils and mature organic compost) and a 2-3 inch layer of non-dyed aged shredded hardwood mulch.

**CONSTRUCTION**

1. A crushed stone entrance should be installed at the inflow to prevent channeling.
2. A berm to detain stormwater should be constructed along the downhill side of the rain garden, perpendicular to the slope of the lawn.
3. Be sure that the soil within the rain garden area does not become compacted by construction activities (i.e. heavy machinery). If soil becomes severely compacted it may need to be tilled and amended to maintain proper

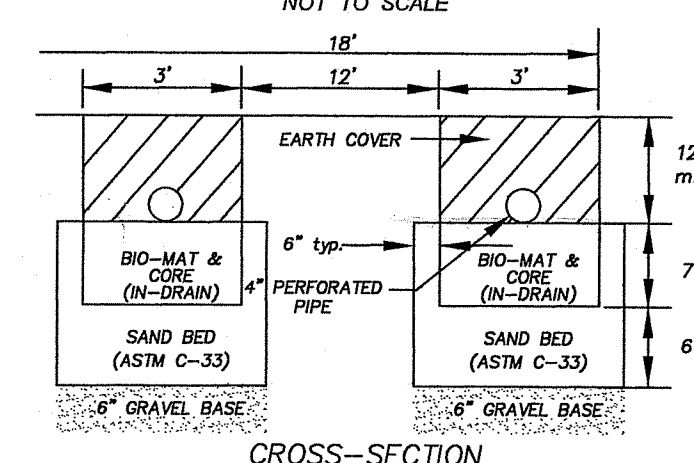
**MAINTENANCE**

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 woody vegetation shall occur when dead or dying vegetation is observed.
4. Soil erosion gullies shall be repaired when they occur.
5. Fertilizer or pesticides shall not be applied to plants within rain gardens.
6. Perennial plants and ground covers shall be replaced as necessary to maintain an adequate vegetated ground cover. Annual plants may also be used to maintain ground cover.

MOUNTAIN LAUREL (*Kalmia latifolia*) planted 10-feet on center. Plantings shall be 24"-36" in height after planting.

CRUSHED STONE DRIVEWAY  
CRUSHED STONE TO BE ANGULAR, WASHED STONE 3/4 TO 1 1/2 INCH DIAMETER. MINIMUM DEPTH OF 3 INCHES. WITH TOP ELEVATION OF STONE SET AT OR BELOW SURROUNDING GRADE.

**LEACHING SYSTEM CROSS-SECTION**  
NOT TO SCALE



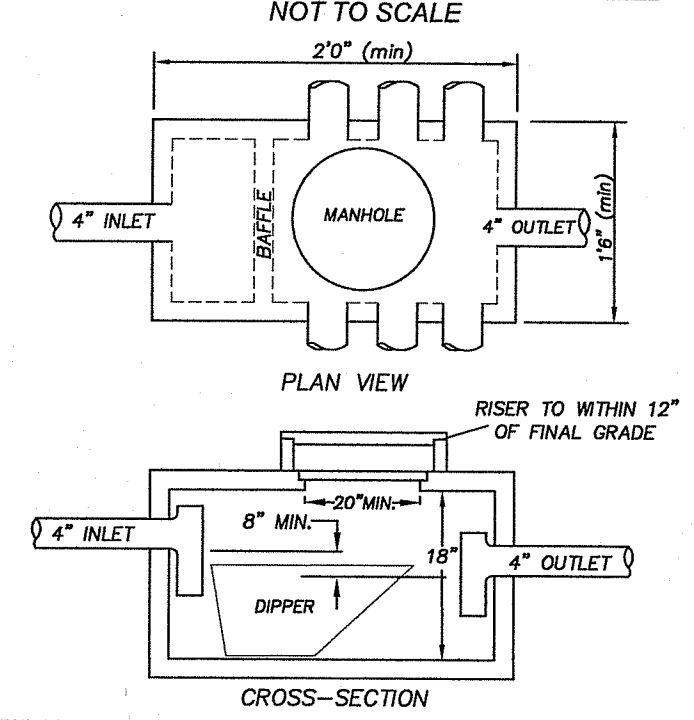
**TEST HOLE DATA**

TEST HOLE	DATE	SOIL CATEGORY	LOADING RATE
TH1	12-11-20	9	0.40
0'-4" A, SL, 10YR 3/3			
4'-22" Bw, SL, 10YR 5/6			
22'-98" C, CB, SL, 10YR 6/2			
ESHW 24"			42 ELVENS
NO LEDGE AT 98"			1176 SF
TH2			
0'-4" A, SL, 10YR 3/3			
4'-24" Bw, SL, 10YR 5/6			
24'-100" C, CB, SL, 10YR 6/2			
ESHW 24"			
NO LEDGE AT 100"			

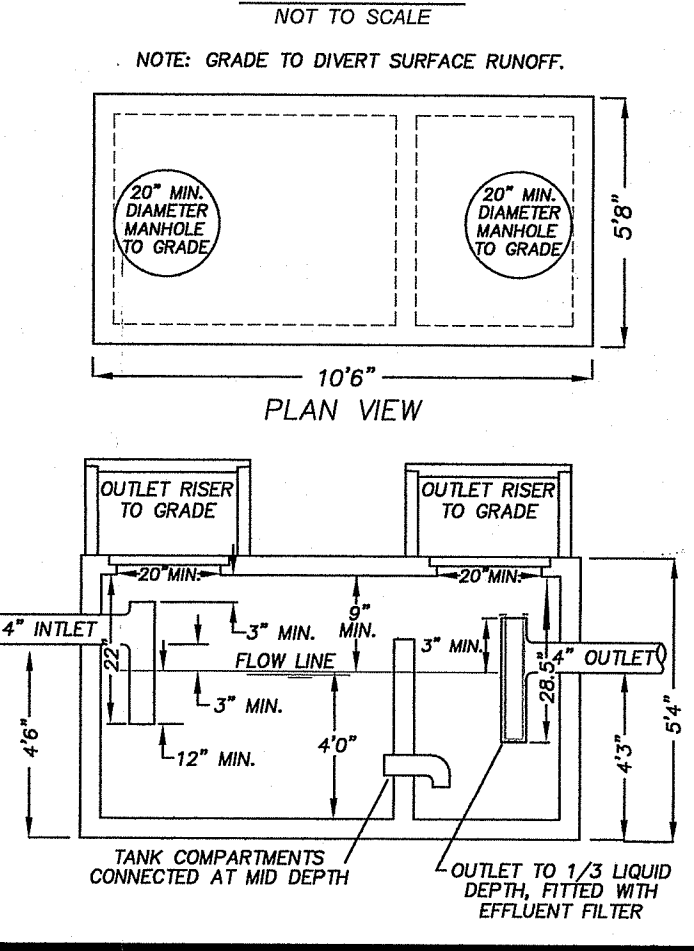
**DESIGN DATA**

SOIL CATEGORY: 9  
LOADING RATE: 0.40  
FIELD SIZE: ELVENS  
2 LINES  
42 ELVENS  
1176 SF

**TIPPING DISTRIBUTION BOX (D-BOX)**  
NOT TO SCALE



**1,500 GALLON TWO COMPARTMENT SEPTIC TANK**  
NOT TO SCALE



**PROPOSED ONSITE WASTEWATER TREATMENT SYSTEM & WETLANDS PLAN**

for  
**PLAT 34, LOT 43**  
WALLUM LAKE ROAD  
BURRELLVILLE, RHODE ISLAND  
SEPTEMBER, 2021  
REVISED: 12-7-21  
SCALE 1"= 20'  
GRAPHIC SCALE

**INSITE** Engineering Services, LLC  
PROFESSIONAL ENGINEERS | LAND SURVEYORS  
Precision. Clarity. Certainty.

501 Great Road, Unit 104  
North Smithfield, Rhode Island 02886  
Phone: (401) 762-2870 Fax: (401) 401-762-2871  
Web Address: insiteengineers.com

**CERTIFICATION**  
THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:  
LIMITED CONTENT BOUNDARY SURVEY: CLASS IV  
TOPOGRAPHIC T-4  
STATEMENT OF PURPOSE  
THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND THE PREPARATION OF THE PLAN IS AS FOLLOWS: PROPOSED OWTS  
BY: *Marcy Nyberg*  
MARC N. NYBERG License No. 1797 COA No.: A52

MARC N. NYBERG  
No. 1797  
PROFESSIONAL LAND SURVEYOR  
JOB NUMBER 20-123