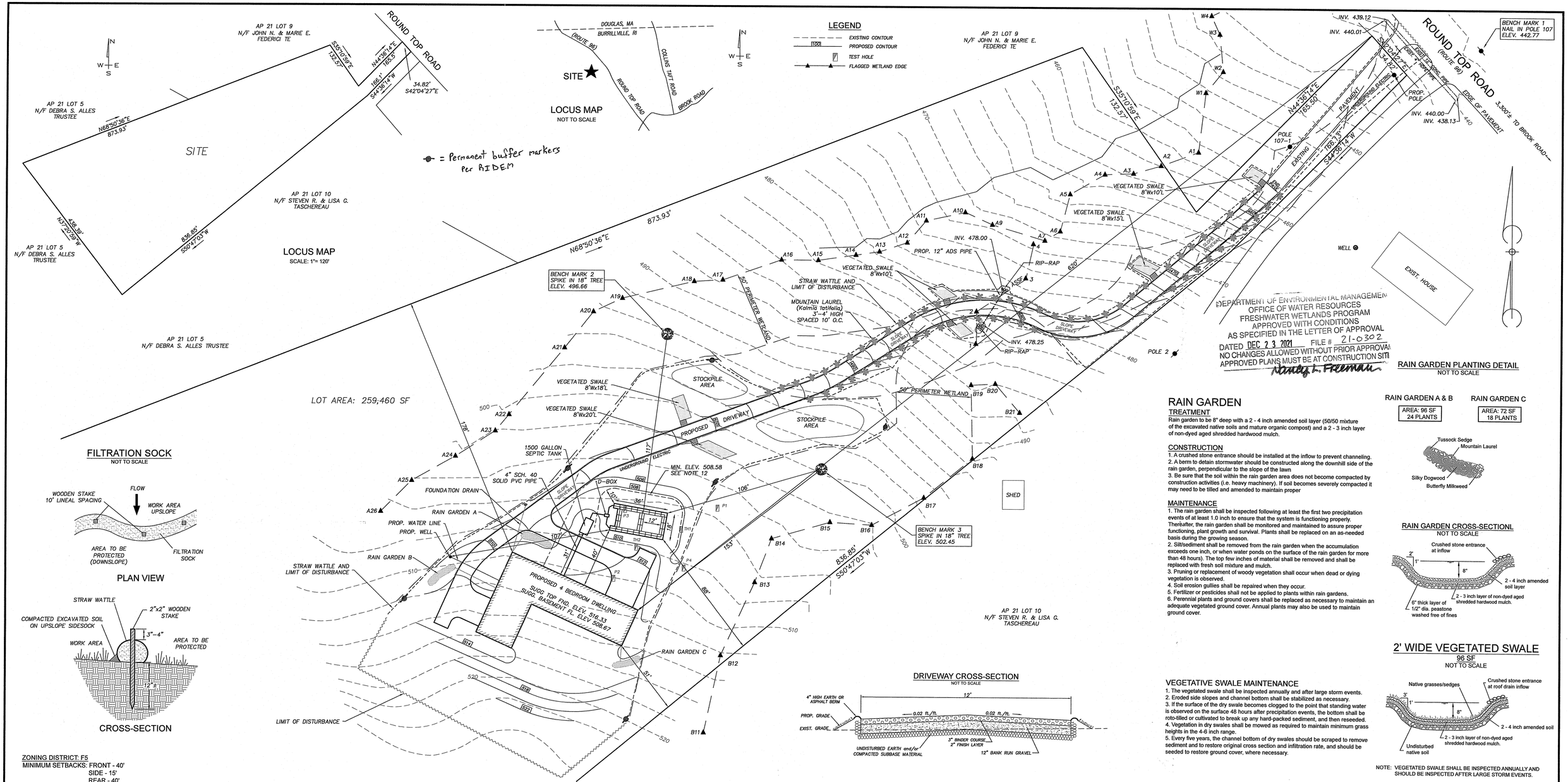


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED DEC 23 2021 FILE # 21-0302
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

RAIN GARDEN PLANTING DETAIL
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.

RAIN GARDEN A & B
AREA: 96 SF
24 PLANTS

RAIN GARDEN C
AREA: 72 SF
18 PLANTS

RAIN GARDEN CROSS-SECTIONL
NOT TO SCALE

2' WIDE VEGETATED SWALE
96 SF
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 roto-tilled or cultivated to break up any hard-packed sediment, and then reseeded.
4. Vegetation in dry swales shall be mowed as required to maintain minimum grass heights in the 4-8 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.

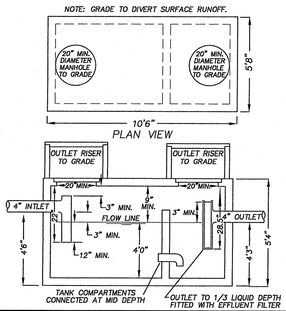
FILTRATION SOCK
NOT TO SCALE

ZONING DISTRICT: F5
MINIMUM SETBACKS: FRONT - 40'
SIDE - 15'
REAR - 40'

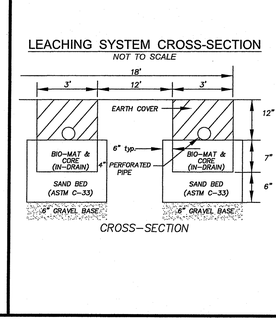
DRIVEWAY CROSS-SECTION
NOT TO SCALE

1,500 GALLON TWO COMPARTMENT SEPTIC TANK
NOT TO SCALE

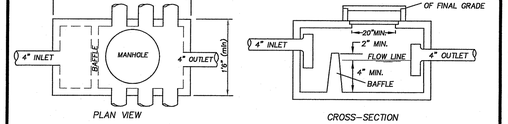
NOTE: GRADE TO DIVERT SURFACE RUNOFF.



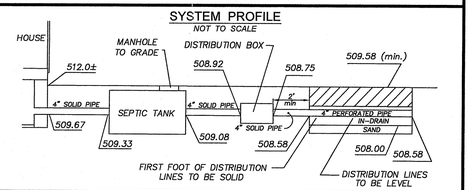
LEACHING SYSTEM CROSS-SECTION
NOT TO SCALE



DISTRIBUTION BOX (D-BOX)
NOT TO SCALE



SYSTEM PROFILE
NOT TO SCALE



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' AROUND TRENCHES AND INCLUDING TRENCHES TO BE STRIPPED.
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.: 508.58.
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 ELJEN SYSTEM.
16) D-BOX TO HAVE TEES OR BAFFLE.

TEST HOLE DATA
DATE: 5-18-21

TH1
0"-9" Ap, SL, 10YR 2/2
9"-48" Bw, G, SL, 10YR 5/6
48"-84" C, CB, G, R&B, FSL, 5YR 5/3
SHWT 30"
LEDGE AT 84"

TH2
0"-7" Ap, SL, 10YR 2/2
7"-46" Bw, G, SL, 10YR 5/6
46"-86" C, CB, G, R&B, LCOS, 5YR 5/4
SHWT 30"
LEDGE AT 86"

LEDGE PROBES
P1: 54" P3: 72"
P2: 66" P4: 82"

DESIGN DATA
SOIL CATEGORY: 6
LOADING RATE: 0.61
FIELD SIZE: ELJENS
2 LINES
27 ELJENS
756 SF

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 IVTOPOGRAPHIC ACCURACY T-4

STATEMENT OF PURPOSE

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND THE PREPARATION OF THE PLAN IS AS FOLLOWS: PROPOSED HOUSE

BY: Marc N. Nyberg
MARC N. NYBERG
License No. 1797
COA No.: A52

MARC N. NYBERG
No. 1797
PROFESSIONAL LAND SURVEYOR

PLAN REFERENCE:
"ADMINISTRATIVE SUBDIVISION; ROUND TOP ROAD; BURRILLVILLE, RHODE ISLAND; FOR DEBORAH L. ALLES AND STEVEN R. & LISA G. TASCHEREAU; SCALE: 1"= 200'; JANUARY 27, 2005" BY ANDREWS SURVEY & ENGINEERING.

THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE FINDINGS SUCH A REPORT MIGHT DISCLOSE.

PROPOSED ONSITE WASTEWATER TREATMENT SYSTEM & WETLANDS PLAN
for
PLAT 21, LOT 12
ROUND TOP ROAD
BURRILLVILLE, RHODE ISLAND
OCTOBER, 2021
SCALE 1"= 30'
SHEET 1 OF 1

GRAPHIC SCALE
0' 30' 60' 90'

RECEIVED NOV 19 2021

InSite Engineering Services, LLC
PROFESSIONAL ENGINEERS | LAND SURVEYORS
Precision. Clarity. Certainty.
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North Smithfield, Rhode Island 02896
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21-050