Legend

- 400 — EXISTING CONTOUR
- EXISTING STONEWALL
- TP — TEST PIT / SOIL EVALUATION
- 335 — PROPOSED CONTOUR
- W — PROPOSED WELL
- EROSION CONTROL
- T.F. — TOP ELEV. OF FOUNDATION
- T.SLAB — TOP ELEV. OF CONC. SLAB

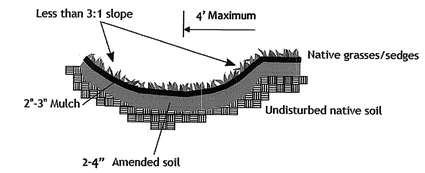
LEACHFIELD DESIGN CALCULATION

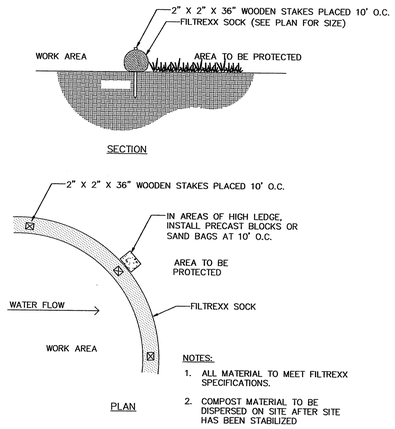
- 4 BEDROOMS X 115 GALLONS PER BEDR/DAY = 460 GALLONS PER DAY
- DESIGN LOADING RATE, SOIL CATEGORY 8m = 0.48 GAL/S.F./DAY
- 460 GPD / 0.48 GAL/S.F./DAY = 959 S.F. LEACHING AREA REQUIRED
- 959 S.F. / 10.3 S.F. PER L.F. OF GST 6206 = 93.1 LF REQUIRED; 96 LF PROVIDED
- 96 x 10.3 S.F. PER L.F. = 989 S.F. LEACHING AREA PROVIDED

MATERIAL QUANTITIES:

- 3/4" STONE VOLUME = 0.35 X 96 = 34.0 CUBIC YARDS
- ASTM C-33 CONCRETE SAND VOLUME = 0.46 X 96 = 44 CUBIC YARDS

Figure 2. Vegetated Swale, Typical Cross-Section



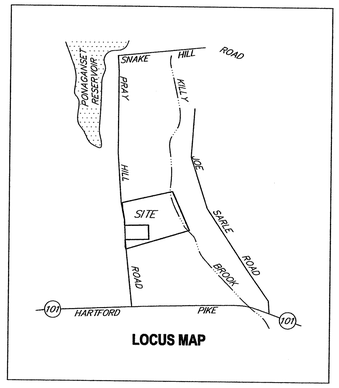


NOTES:

1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
2. COMPOST MATERIAL TO BE DISPERSED ON SITE AFTER SITE HAS BEEN STABILIZED

PERIMETER EROSION CONTROL

COMPOST FILTER SOCK, SILT FENCE, OR STRAW WATTLE
NOT TO SCALE

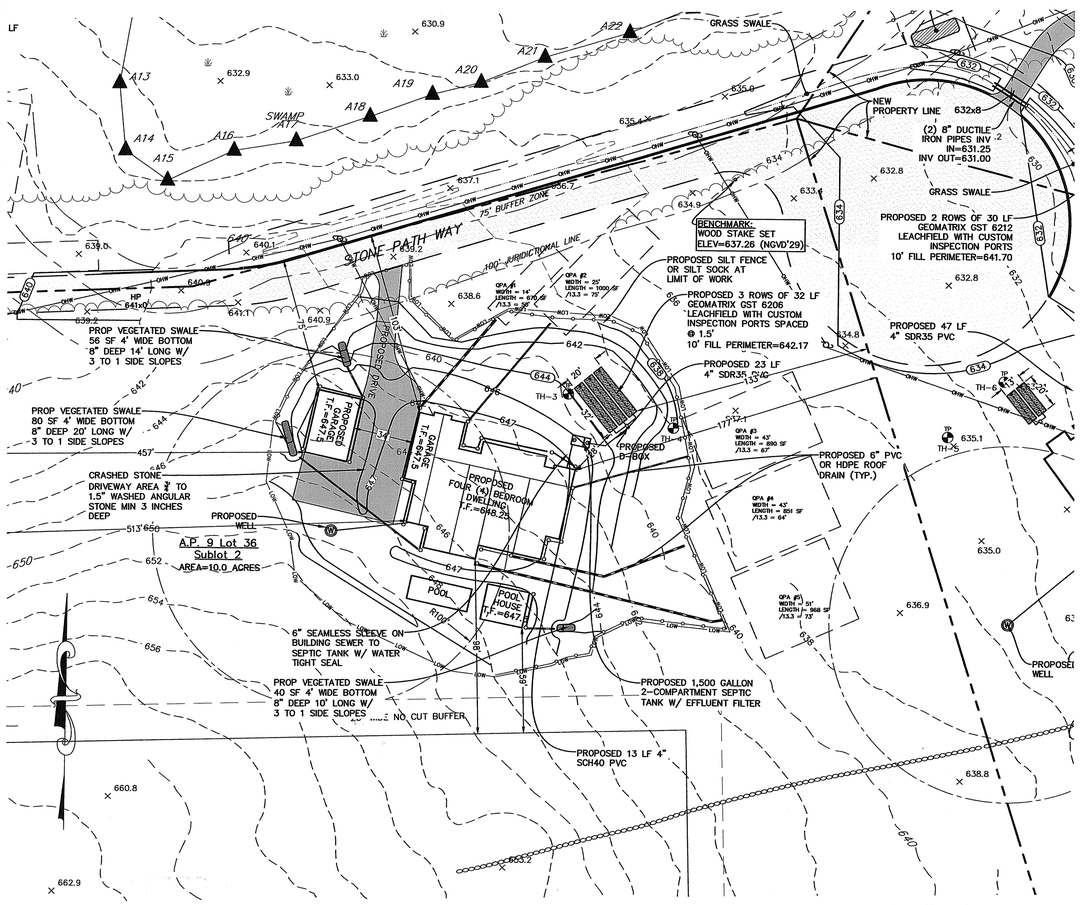


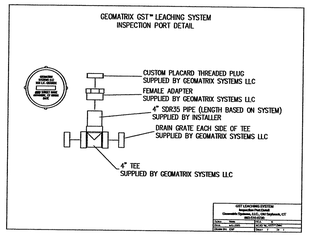
LOCUS MAP

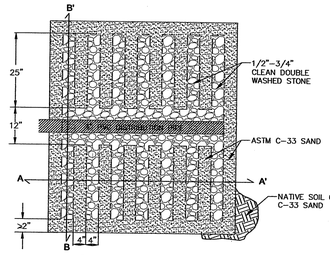
Overall Site Layout

1"=150'

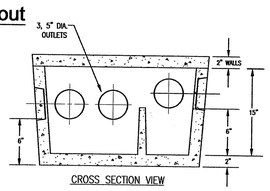
THE SUBJECT PARCEL LIES WITHIN A FLOOD ZONE X AREA AS SHOWN ON FEMA FLOOD INSURNACE RATE MAP NUMBER 44007C0255G, EFFECTIVE DATE MARCH 1 , 2009.



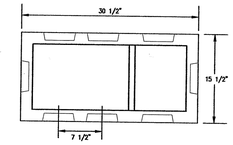




GST™ LEACHING SYSTEM
PLAN VIEW

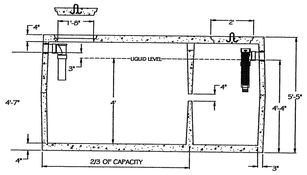


CROSS SECTION VIEW



PLAN VIEW

DISTRIBUTION BOX DB-5 W/ BAFFLE

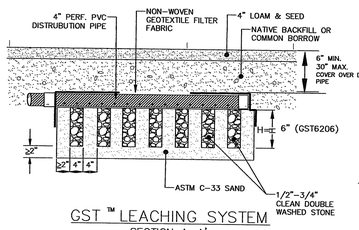


DESIGN NOTES:

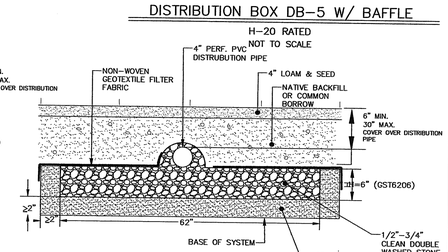
1) ALL JOINTS SEALED WITH BUTYL RUBBER SEALANT
2) ALL INLETS AND OUTLETS HAVE STATE APPROVED SEALS
3) AVAILABLE OUTLET FILTER CARTRIDGE SHOWN
4) MEETS CURRENT ASTM C 1227
5) CONCRETE STRENGTH 5000 PSI MIN. AT 28 DAYS

1,500 GALLON 2-COMPARTMENT SEPTIC TANK

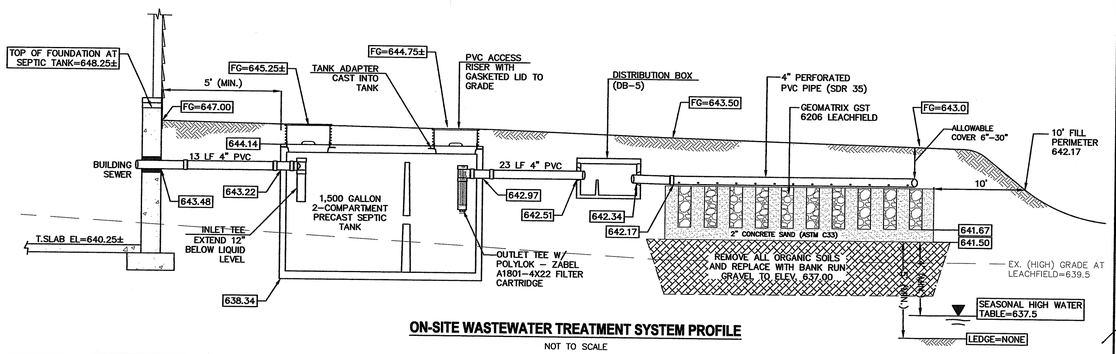
(JOLLEY PRECAST OR EQUAL)
NOT TO SCALE



GST™ LEACHING SYSTEM
SECTION A-A'



GST™ LEACHING SYSTEM
SECTION B-B'



ON-SITE WASTEWATER TREATMENT SYSTEM PROFILE

NOT TO SCALE

General Notes:

1. PLAN REFERENCE RURAL RESIDENTIAL COMPOUND PRELIMINARY SUBDIVISION PLAN "PRAY HILL PINES" BY SCITUATE SURVEYS DATED 8/23/22.
2. WETLAND EDGES BY NATURAL RESOURCE SERVICES, INC.
3. THE SITE IS LOCATED IN THE SCITUATE RESERVOIR WATERSHED.
4. THE SITE IS NOT LOCATED IN A NATURAL HERITAGE AREA.
5. THERE ARE NO GREENWAYS LOCATED ON THE PROPERTY STATE OR LOCAL.
6. THE SITE IS NOT LOCATED IN A WELLHEAD PROTECTION AREA.

Zoning Information

ZONE: A-4

MINIMUM AREA	4 ACRES
LOT FRONTAGE	350 FT.
FRONT SETBACK	75 FT.
SIDE SETBACK	50 FT.
REAR SETBACK	100 FT.
COVERAGE	4%
BUILDING HEIGHT	35 FT.

OnSite Wastewater Treatment System Notes

1. ALL DESIGN, CONSTRUCTION, AND MAINTENANCE REQUIREMENTS, WHETHER NOTED HEREON OR NOT, SHALL BE IN CONFORMANCE WITH RULES AND REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS", JANUARY 1, 2008 AND ALL AMENDMENTS, BY THE RHODE ISLAND DEPT. OF ENVIRONMENTAL MANAGEMENT.
2. STRIP LEACHING AREA AND 5'-0" AROUND AND EXCAVATE DOWN TO ELEVATION 637.00 (OR AS REQUIRED IN FIELD) AND REPLACE WITH GRAVEL AS SPECIFIED IN RIDEM REGULATIONS.
3. INSTALLER MUST ASSURE THAT BOTTOM AND SIDES OF EXCAVATION FOR THE LEACHFIELD ARE NOT COMPACTED OR SMEARED.
4. ALL TREES, STUMPS, AND BRUSH SHALL BE REMOVED WITHIN 10 FEET OF THE SYSTEM.
5. MAINTAIN INVERT ELEVATION OF 642.17 FOR 10 FEET AROUND SYSTEM.
6. THERE ARE NO KNOWN PRIVATE WELLS OR DRAINS EXIST. OR PROPOSED LOCATED WITHIN 200 FEET OF THE OWTS EXCEPT AS SHOWN AND NO KNOWN PUBLIC WELLS (EXIST. & PROP.) LOCATED WITHIN 500 FEET OF THE PROPOSED OWTS.
7. THERE ARE NO KNOWN SUBSURFACE DRAINS, EXISTING OR PROPOSED, WITHIN 50 FEET OF THE PROPOSED OWTS.
8. ALL PVC PIPE SHALL BE 4" DIA. SDR 35 OR EQUIVALENT, UNLESS NOTED OTHERWISE.
9. THE SEPTIC TANK SHALL HAVE TEES ON BOTH THE INLET AND OUTLET AND SHALL BE A TWO (2) COMPARTMENT TANK WITH THE 1ST COMPARTMENT CONSISTING OF ⅔ TANK CAPACITY.
10. THE DISTRIBUTION BOX SHALL HAVE A MINIMUM BOTTOM AREA OF 3 SQUARE FEET.
11. NO VEHICULAR TRAFFIC IS ALLOWED OVER THE LEACHFIELD.
12. THE INSTALLER SHALL CONTACT THE DESIGN OF RECORD AT LEAST 24 HOURS PRIOR TO START OF CONSTRUCTION.

RIDEM Freshwater Wetlands Insignificant Alteration Permit #21-0260

Advanced Civil Design, Inc.
CIVIL ENGINEERS
88 PEEPTOAD ROAD
SCITUATE, RI 02857
PH: (401) 644-8656

NO.	DATE	REVISION
1	6/10/24	PER RIDEM

PROJECT:

LOT 2 SITE PLANS

A.P. 9 LOT 36 SUBLOT 2
2 STONE PATH WAY
GLOCESTER, RI

APPLICANT:

MARK PIETROS
15 DAYTON AVE
JOHNSTON RI 02919

JUN 28 2024

DRAWING TITLE:

SUBLOT 2: OWTS REDESIGN

DATE: JUNE 2024	DESIGNED BY: N.J.P.
SCALE: 1"=40'	CHECKED BY: C.S.R.

NICHOLAS J. PIAMPIANO
No. 6512
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

DRAWING NO.

C-1

Sheet 1 of 1