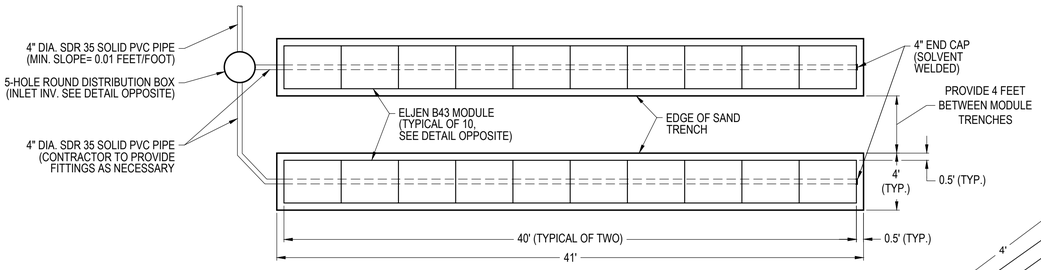
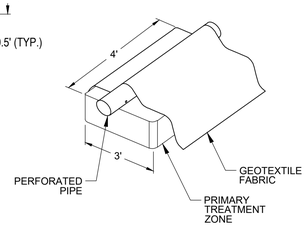


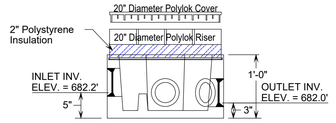
ELJEN B43 GEOTEXTILE SAND FILTER (GSF) ABSORPTION TRENCH PLAN VIEW DETAIL

SCALE: 1-INCH = 5-FEET



ELJEN B43 MODULE DETAIL

NOT TO SCALE

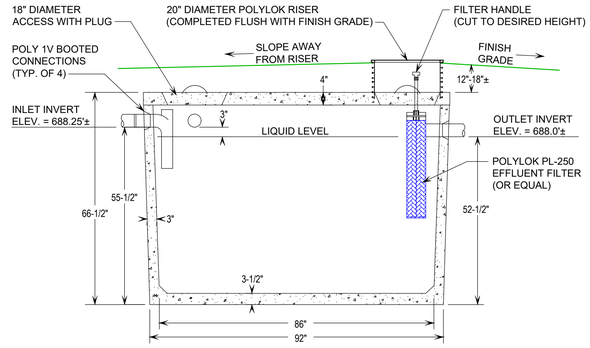


SECTION

NOTES:
1. DISTRIBUTION BOX TO BE SET ON 6" OF GRANULAR BASE.
2. FLOW EQUALIZERS ARE REQUIRED.
3. D-BOX AND FLOW EQUALIZERS SHALL BE WATER LEVELED.
4. ALL PIPE PENETRATIONS SHALL BE SEALED WITH A "WATER PLUG" NON-SHRINK HYDRAULIC CEMENT.
5. DISTRIBUTION BOX ACCESS COVER SHALL BE COMPLETED FLUSH WITH FINISH GRADE.

5-OUTLET ROUND CONCRETE DISTRIBUTION BOX

NOT TO SCALE

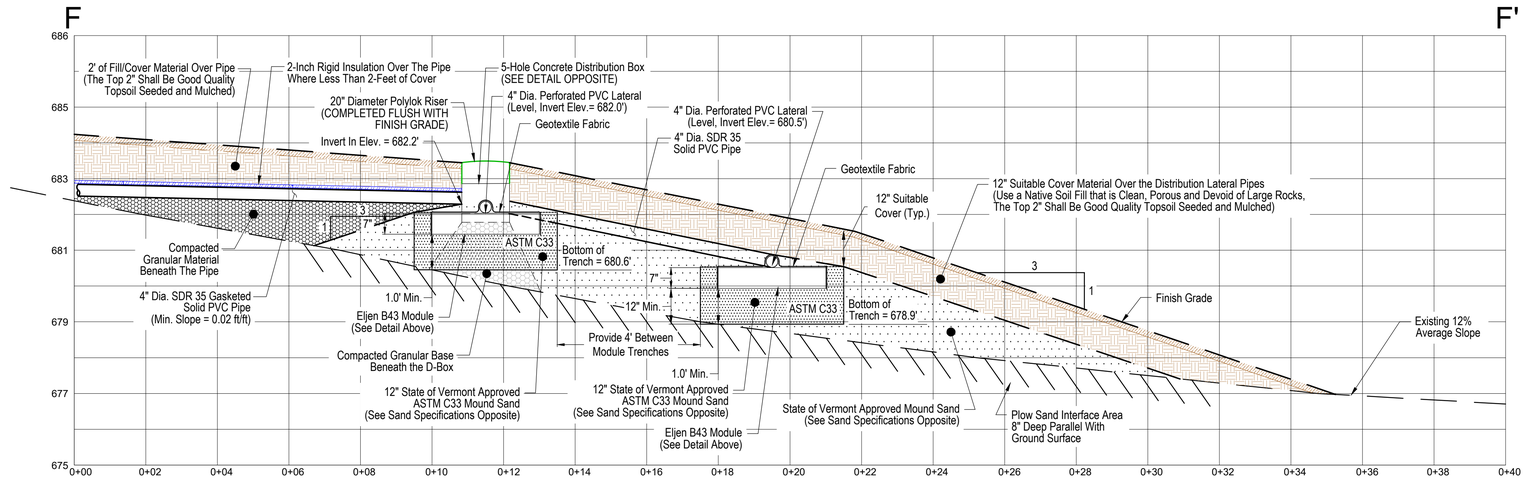


SECTION

NOTES:
1. SEPTIC TANK SHALL BE SET LEVEL ON A MINIMUM OF SIX INCHES OF COMPACTED GRANULAR BASE.
2. AN INLET TEE BAFFLE IS REQUIRED.
3. IF WATER-PROOF BOOTED CONNECTIONS ARE NOT USED, ALL PIPE PENETRATIONS SHALL BE SEALED WITH A "WATER PLUG" NON-SHRINK HYDRAULIC CEMENT.
4. EFFLUENT FILTER ACCESS SHALL BE COMPLETED FLUSH WITH FINISH GRADE.

1,000 GALLON TOP-SEAM CONCRETE SEPTIC TANK

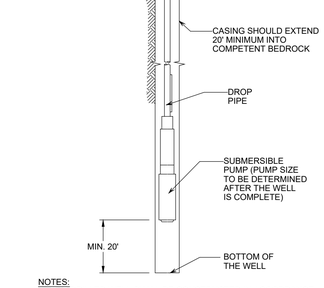
NOT TO SCALE



NOTE:
1. DISTRIBUTION LATERAL PIPE PERFORATIONS SHALL BE ORIENTED SO THAT THE HOLES ARE AT 5 O'CLOCK AND 7 O'CLOCK WITH THE PIPE INVERT AT 6 O'CLOCK.

ELJEN B43 GEOTEXTILE SAND FILTER (GSF) ABSORPTION TRENCH SECTION

SCALE: 1-INCH = 2-FEET



NOTES:
1. THE DRILLED WELL SHALL BE CONSTRUCTED IN ACCORDANCE WITH §1-1206 OF THE STATE OF VERMONT ENVIRONMENTAL PROTECTION RULES, CHAPTER 1, EFFECTIVE APRIL 12, 2019.
2. THE DRILLED WELL LOCATION SHALL ADHERE TO THE ISOLATION DISTANCES SHOWN ON THE DRILLED WELL ISOLATION TABLE ON THIS DRAWING.

DRILLED WELL CONSTRUCTION DETAIL

NOT TO SCALE

DRILLED WELL REQUIRED MINIMUM ISOLATION DISTANCES

1. THESE DISTANCES APPLY TO DRILLED WELLS SERVING A SINGLE-FAMILY RESIDENCE, WITH A MAXIMUM DAILY DEMAND OF LESS THAN 1.9 GPM.

2. THE DRILLED WELL SHALL BE CONSTRUCTED IN ACCORDANCE WITH §1-1206 OF THE STATE OF VERMONT ENVIRONMENTAL PROTECTION RULES, CHAPTER 1, EFFECTIVE APRIL 12, 2019.

POTENTIAL SOURCE OF CONTAMINATION DISTANCE	SEPARATION
SEWAGE DISPOSAL FIELD DOWNSLOPE	200 FEET IF WELL IS
WITH FLOWS <2000 GPD UPSLOPE	100 FEET IF WELL IS
SUBSURFACE WASTEWATER PIPING	50 FEET
EDGE OF RESIDENTIAL DRIVE SERVING 3 RESIDENCES OR LESS	5 FEET
EDGE OF DRIVEWAY, ROADWAY OR PARKING LOT SERVING 3 OR MORE RESIDENCES	25 FEET
PROPERTY LINE	10 FEET
BUILDINGS	5 FEET
LIMIT OF HERBICIDE APPLICATION ON UTILITY RIGHT-OF-WAY	100 FEET
SURFACE WATER	10 FEET
CONCENTRATED LIVESTOCK HOLDING AREAS AND MANURE STORAGE:	200 FEET
ABOVE GROUND	50 FEET
IN-GROUND CONCRETE/GEOSYNTHETIC LINED	100 FEET
EARTHEN LINED	200 FEET
HAZARDOUS OR SOLID WASTE DISPOSAL SITE	CONTACT DESIGNER
NON-SEWAGE WASTEWATER DISPOSAL FIELDS	CONTACT DESIGNER

WASTEWATER DISPOSAL SYSTEM CONSTRUCTION AND MAINTENANCE NOTES

1. THE WASTEWATER DISPOSAL SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STATE OF VERMONT, AGENCY OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION RULES, CHAPTER 1, WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES.
2. WASTEWATER DISPOSAL SYSTEM LOCATION SHALL BE STAKED OUT BY THE DESIGNER PRIOR TO START OF CONSTRUCTION.
3. ATTACHED MOUND SYSTEM CONSTRUCTION INSTRUCTIONS SHALL BE FOLLOWED DURING THE INSTALLATION OF THE REPLACEMENT MOUND-TYPE WASTEWATER SYSTEM.
4. THE DESIGNER SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE FOR INSPECTIONS OF THE SEPTIC TANK, PUMP STATION, PLOWED LAYER, AND PLACEMENT OF THE MOUND SAND.
5. THE DESIGNER SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE FOR A PRESSURE TEST OF THE MOUND SYSTEM PRESSURE DISTRIBUTION NETWORK.
6. WASTEWATER SYSTEM FINISH GRADES WILL VARY WITH NATURAL TOPOGRAPHY PRIORITY IS TO MAINTAIN 3 ON 1 MOUND TOE SLOPES.
7. SEPTIC TANK EFFLUENT FILTER SHOULD BE REMOVED AND RINSED BACK INTO THE SEPTIC TANK ANNUALLY.
8. THE SEPTIC TANK AND PUMP STATION SHOULD BE INSPECTED ANNUALLY AND PUMPED OUT AT LEAST EVERY THREE (3) YEARS OR AS NECESSARY TO PREVENT SOLIDS FROM CARRYING OVER TO THE DISPOSAL SYSTEM.
9. FOLLOWING THE MOUND WASTEWATER SYSTEM INSTALLATION, FINISH GRADE SHALL BE SEEDED AND MULCHED WITH A CONSERVATION GRASS SEED MIX.
10. WATER SOFTENER BACKWASH, SEPTIC TANK ADDITIVES, GREASE OR SANITIZERS SHALL NOT BE INTRODUCED INTO THE WASTEWATER DISPOSAL SYSTEM.

STATE OF VERMONT MOUND SAND SPECIFICATIONS

(c) Fill Material: The fill material from the natural soil plowed surface to the top of the trench or bed shall be clean washed silica sand meeting one of the following sieve requirements:

(1).

Sieve Number	Opening (mm)	Percent Passing, by Weight
3/8	9.500	85-100
40	0.420	25-75
60	0.240	0-30
100	0.149	0-10
200	0.074	0-5

(2).

Sieve Number	Opening (mm)	Percent Passing, by Weight
4	4.750	95-100
8	2.380	80-100
16	1.190	50-85
30	0.590	25-60
50	0.297	10-30
100	0.149	2-10
200	0.074	0-3

(3).

Sieve Number	Opening (mm)	Percent Passing, by Weight
3/8	9.500	85-100
40	0.420	30-50
200	0.074	0-5

The material must meet the specifications 1, 2, or 3 above. Interpolation of analyses is not permitted. Fill material 2 is ASTM Specification C-33 and is intended for manufactured material.

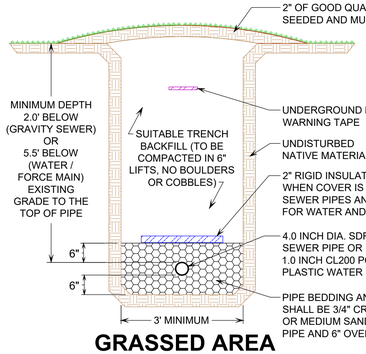
ELJEN GEOTEXTILE SAND FILTER (GSF) SAND SPECIFICATIONS

(c) Fill Material: The fill material with the Eljen GSF Wastewater Leaching System shall be clean washed silica sand meeting one of the following sieve requirements:

(2).

Sieve Number	Opening (mm)	Percent Passing, by Weight
3/8	9.520	100
4	4.760	95-100
8	2.380	80-100
16	1.190	50-85
30	0.590	25-60
50	0.297	5-30
100	0.149	<10
200	0.075	<3

The material must meet the specifications 2 above. Interpolation of analyses is not permitted. Fill material 2 or Mound Sand 2 is ASTM Specification C33 and is intended for manufactured material.



GRASSED AREA PIPE IN TRENCH DETAIL

NOT TO SCALE

SIGNATURE:

JASON S. BARNARD
LICENSED DESIGNER #126179

DATE	DESCRIPTION	BY
	REVISIONS	

BARNARD & GERVAIS, LLC
Land Surveying
Water & Wastewater
Environmental Consulting
167 Main Street, P.O.Box 820
Enosburg Falls, VT 05450
Telephone: (802) 933-5168
10523 VT Route 116, P.O.Box 133
Hinesburg, VT 05461
Telephone: (802) 482-2597

EIGHT-LOT SUBDIVISION AND PLANNED UNIT DEVELOPMENT

PR & R DEVELOPMENT, LLC

OBSERVATORY ROAD, HINESBURG, VERMONT

LOT 7 WATER & WASTEWATER SYSTEM DETAILS AND NOTES

THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:

☐ PRELIMINARY DRAFT ■ FINAL STATE REVIEW

PROJECT NO. 21375
DATE: 02-27-2023
SCALE: AS NOTED
SURVEY: MCG, AW, OL
DRAWN: DW
CHECKED: JSB
DRAWING NO. D-6