

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
 Division of Environmental Health
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

ALNA

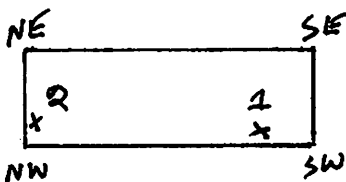
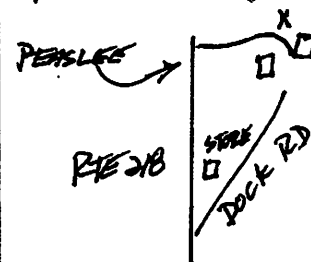
1 PEARLEE LANE

SHAESBY SCOTT

SITE PLAN

Scale 1" = 30 ft. or as shown

↑ SITE LOCATION PLAN
 (map from Maine Atlas recommended)
 N



15'x46' Disposal Field

A(ERP) = SW CORNER GARAGE Pink Flagging
 B = SE GARAGE POST Orange Flagging
 NE Corner to A 6' 1/2'
 NE Corner to B 8'
 SE Corner to A 11' 1/2'
 SE Corner to B 12' 9"
 UP hill Corners

Original Grade At Corners

NW - 68"
 NE - 53"
 SW - 78"
 SE - 53"

High Point NE TO SE



↓ 2' 10"
 ↓ 2' 93"

POSSIBLE MINOR WATER COURSE

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 1 Test Pit Boring
 (SOD) " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0	L	FR	BROWN	NONE TO >17"
10	VFSL		YELLOW BROWN	
20		FIRM	OLIVE BROWN	
30			BED ROCK	
40			FREE TO 30"	
50				

Observation Hole 2 Test Pit Boring
 (SOD) " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0	L	FR	BROWN	NONE TO >19"
10			DARK YELLOW BROWN	
20	FSL			
30		FIRM	OLIVE BROWN	
40			BED ROCK	
50			FREE TO 32"	

Soil Classification <u>3</u> <u>C</u> Profile Condition	Slope <u>8</u> %	Limiting Factor <u>17</u>	<input type="checkbox"/> Ground Water <input checked="" type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
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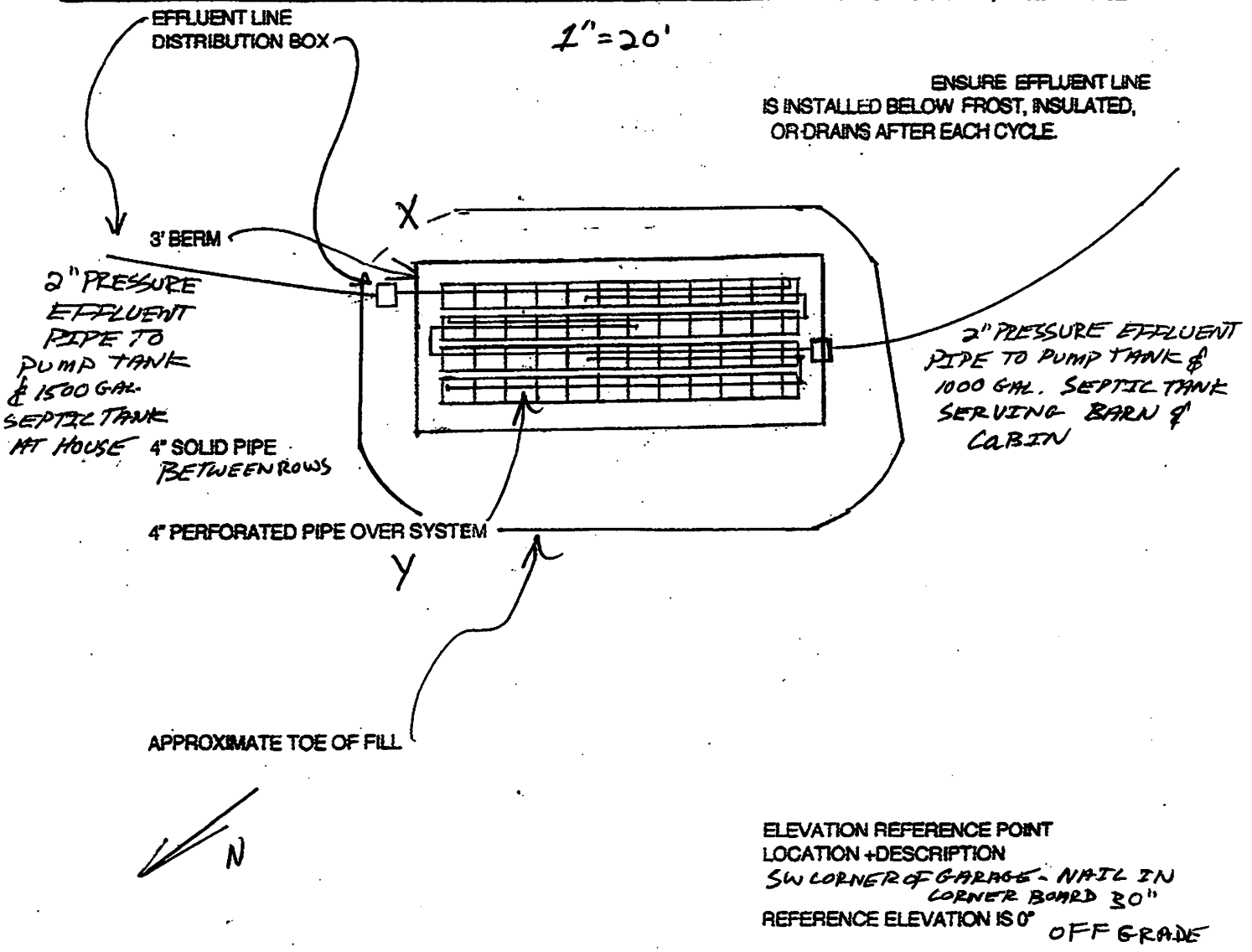
Soil Classification <u>3</u> <u>C</u> Profile Condition	Slope <u>11</u> %	Limiting Factor <u>19</u>	<input type="checkbox"/> Ground Water <input checked="" type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
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Peter McCreedy 357 9/1/2022

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
 Division of Health Engineering
 (207) 287-3872 FAX (207) 287-4072

Town, City, Plantation: **ALNA** Street, Road, Subdivision: **1 PEASLEE LANE** Owner's Name: **SHAESBY SCOTT**



1500 & 1000 GALLON SEPTIC TANK TO BE EQUIPPED WITH ZABEL A-1800 FILTER OR EQUIVALENT.

REMOVE ORGANIC MATTER FROM AREA UNDER SYSTEM AND FILL EXTENSIONS. SCARIFY SOIL TO A DEPTH OF 6-8". A MINIMUM OF 4" BACK FILL MATERIAL TO BE MIXED WITH THE ORIGINAL SOIL TO FORM A TRANSITIONAL HORIZON. GRADING TO BE DONE TO DIVERT SURFACE WATER AWAY FROM SYSTEM. INSTALLATION TO BE DONE PER MAINE SUBSURFACE WASTEWATER DISPOSAL RULES. WORK DONE WITHIN THE SHORE LAND ZONE OR NEAR WETLANDS MAY REQUIRE ADDITIONAL LOCAL, STATE, OR FEDERAL PERMITS; CHECK WITH LOCAL CODE ENFORCEMENT OFFICER IF IN DOUBT.

Site Evaluator Signature: Pat Mallory SE • 357 Date: 9/1/2022 3

TOWN, CITY PLANTATION

ALVA

STREET, ROAD, SUBDIVISION

1 PEASLEE LANE

OWNERS NAME

SHAESBY SCOTT

SCALE:

VERT.: 1" = 5'

HORIZ.: 1" = 5'

NOTES:

1. FILL REQUIREMENTS VARY GREATLY BECAUSE OF BED LOCATION. CONTRACTOR SHALL FIELD CHECK ALL SLOPES BEFORE DETERMINING ACTUAL FILL REQUIREMENTS.
2. NOTES ON PAGE OF ARE HEREBY MADE PART OF THIS H-E-200 FORM.
3. THE FIRST 6" DIRECTLY BENEATH THE IN-DRAINS SHALL BE MEDIUM TO COARSE TEXTURED SAND, WITH AN EFFECTIVE SIZE OF 0.25 TO 2.0 MM, NO GREATER THAN 5% PASSING A #200 SIEVE, AND NO PARTICLES LARGER THAN 3/4 INCH OR MATERIALS MEETING THE ASTM C-33 SPECIFICATION. CONCRETE OR WASHED SAND IS A RELIABLE CHOICE. SUITABILITY OF BANK RUN SAND OR SITE DISPOSAL AREA SOIL MUST BE VERIFIED.
4. ROTO-TILL ORIGINAL SURFACE THOROUGHLY IN ALL AREAS OF THE SYSTEM INCLUDING FILL EXTENSIONS BEFORE PLACING FILL. REMOVE ALL ORGANIC LAYER IN AREA OF SYSTEM.
5. ROWS SHOULD BE LEVEL WITH A TOLERANCE OF 1/100FT.
6. SECTION SHOWN IS BASED ON AN AVERAGE EXISTING GROUND SLOPE OF %.

FILL REQUIREMENTS AT SECTION:

DEPTH OF FILL (UPSLOPE) 20"

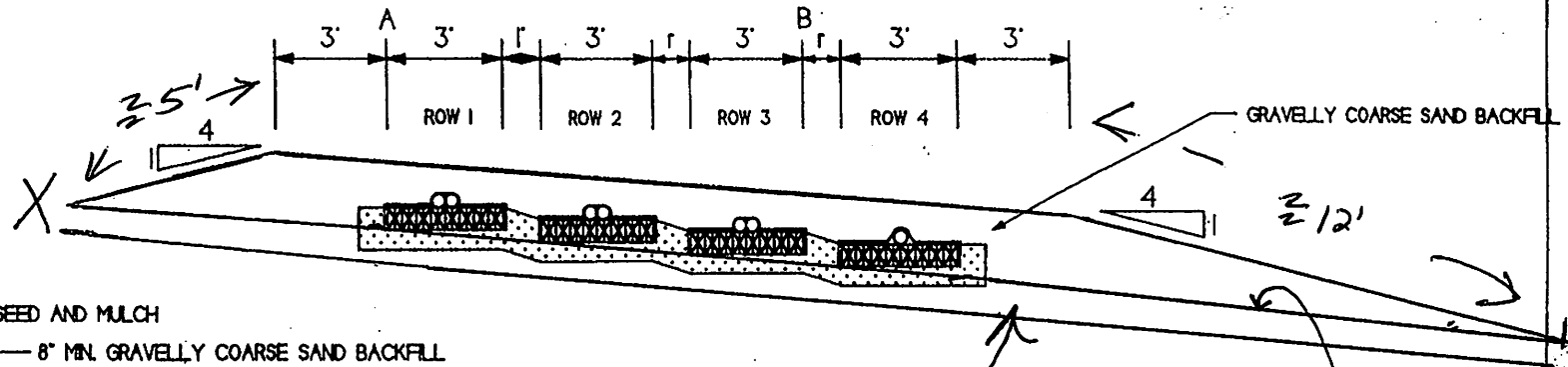
DEPTH OF FILL (DOWNSLOPE) 23"/28"

CONSTRUCTION ELEVATIONS:

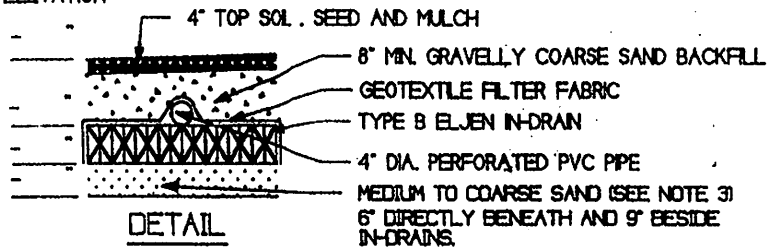
E.R.P. REFERENCE ELEVATION IS 0"

ROW	1	2	3	4
FINISH GRADE	-33"	-37"	-41"	-45"
TOP OF DISTRIBUTION PIPE	-41"	-45"	-49"	-53"
BOTTOM OF IN-DRAINS	-52"	-56"	-60"	-64"

44 1/2' - TYPE B IN-DRAINS (4 ROWS OF 11 1/2' EACH ROW)



ELEVATION



DETAIL
NTS

Peter Macready
SITE EVALUATOR SIGNATURE

357'
SE

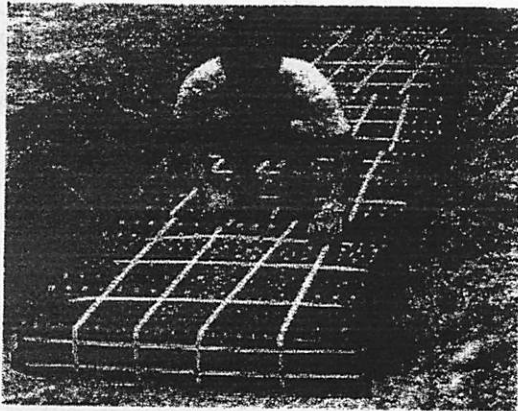
9/1/2022
DATE

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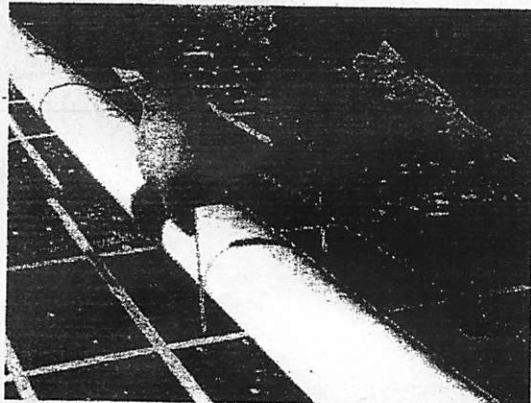
Eljen GSF Geotextile Sand Filter GSF

Trench and In-Ground Cluster Installation

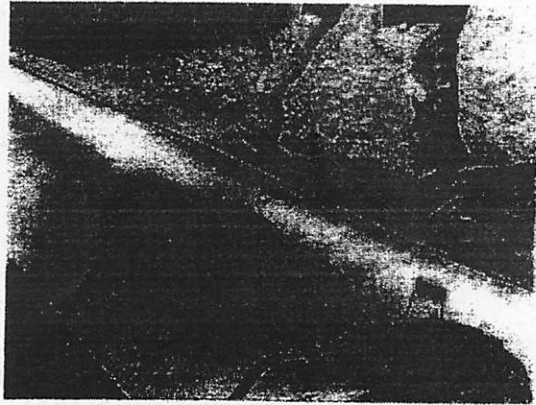
1. Prepare site according to local and state regulations. **Do not install system on frozen or saturated ground.**
2. Remove all organic soil and roots at disposal and fill extension areas.
3. Scarify receiving layer to eliminate smearing.
4. Place 6" of D.O.T. or state highway specification **washed concrete sand** or sand known to be "medium to coarse with an effective size of .25 to 2.0 mm and no more than 5% passing a #200 sieve."
5. Avoiding footprints, place In-Drains with **painted stripe facing up**, end to end on sand in trench or bed. **Caution: Spacer cores can have sharp edges.**



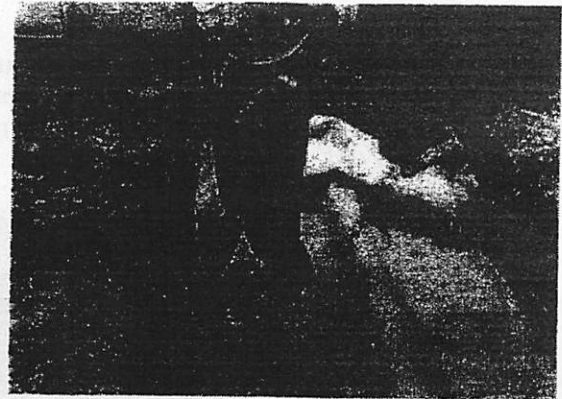
6. Center 4" **perforated** distribution pipe over In-Drains. Use **solid pipe** over compacted sand from D-Box to In-Drains and to connect distribution lines at far end. Connect mid-points on rows over 40' long.
7. Secure pipe with one Eljen clamp per In-Drain. Slide clamp into upfacing core. Force through fabric into sand.



8. Install Eljen cover fabric over rows of In-Drains. **Drape fabric straight down over pipe.** Secure with hand shoveled sand. **Don't block holes in perforated pipe.**



9. Place 12" medium to coarse sand (see step #4) between rows and 6" min at the sides in trench or bed.
10. Complete backfill and loam to 12" min. over In-Drains. Fill should be clean, porous and devoid of large rocks. Use well graded sandy fill with a maximum 10% passing a #200 sieve. **Do not use wheeled equipment over a system.** A light track machine may be used with caution, **avoid crushing or shifting pipe assembly.** Backfill in direction of perforated pipe.



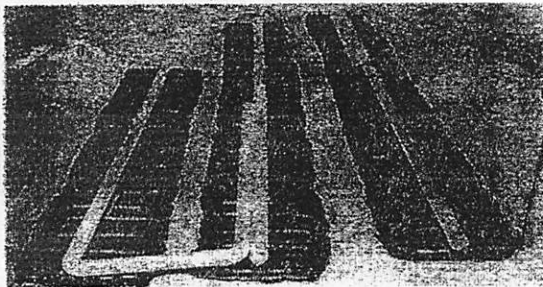
11. Divert surface runoff. Finish grade to prevent surface ponding. Seed loam and protect from erosion.

Raised or Fill Systems

1. Follow steps 1-3 for trench installation.
2. Compact fill, in max. 6" lifts, with a light tracked machine. Use clean soil free of organic material, clay, construction debris, stones larger than 6" and no more than 10% passing a #200 sieve.
3. Provide 6" sand bed, per trench step #4, directly under the In-Drains.
4. Complete system per trench steps 5-12.

Serial Distribution on Slopes

1. Site preparation is the same as for trench and fill systems. Groove receiving layer by raking or contour plowing at right angle to slope before placing fill or sand.
2. Install rows in In-Drains at design elevations.
3. Provide a well anchored D-Box with velocity reduction tee or baffle. D-Box serves as an inspection port.
4. Install a line of 4" **perforated** pipe on first row of In-Drains. Cap pipe at far end.
5. Place at least 10' of capped **perforated** overflow pipe at the far end and downhill side of the above pipe.
6. Connect overflow pipe to a line of **perforated** pipe on the new row of In-Drains with 2 elbows and a short length of **solid** pipe. Cap perforated pipe on opposite end.



7. Continue this procedure until the last row of In-Drains has an end capped line of **perforated** pipe.
8. Complete system per trench steps 8-12.

Pumped System

1. Prepare disposal site as described in the appropriate system configurations listed.
2. Provide as well anchored D-Box with a velocity reduction tee or baffle.
3. System assembly is the same as for gravity designs.
4. Pressure distribution does not result in reduced system size and is therefore not generally used for In-Drain disposal systems.

Design Manual Available

Effluent pretreatment offered by In-Drain technology generally allows **substantial reductions** in leach field size **compared to conventional stone or chamber systems**. Sizing formula conforms with code variations from state to state. Consult your area distributor for a state specific Design and Installation Manual.

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