

REPLACEMENT SYSTEM VARIANCE REQUEST

THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form must be attached to an application (HHE-200) for any replacement system which requires a variance to the Rules. The LPI shall review the Replacement System Variance Request and HHE-200 and may approve the Request if all of the following requirements are met.

1. The proposed design meets the definition of a Replacement System as defined in the Rules (Sec. 1906.0)
2. The replacement system is determined by the Site Evaluator to be the most practical method to treat and dispose of the wastewater.
3. The BOD5 plus S.S. content of the wastewater is no greater than that of normal domestic effluent.

| | | |
|--|--|--|
| GENERAL INFORMATION | | Town of <u> AUGUSTA </u> |
| Permit No. <u> Q519 </u> | | Date Permit Issued <u> 10/27/10 </u> |
| Property Owner's Name: <u> RODERICK, RITA EST. OF </u> | | Tel. No.: <u> 622-6501 </u> |
| System's Location: <u> 592 EASTERN AVE. </u> | | |
| Property Owner's Address: <u> C/O NANCY O'CONNOR </u> | | |
| (if different from above) <u> 592 WESTERN AVENUE, AUGUSTA, ME 04330 </u> | | |

SPECIFIC INSTRUCTIONS TO THE:

LOCAL PLUMBING INSPECTOR (LPI):

If any of the variances exceed your approval authority and/or do not meet all of the requirements listed under the Limitations Section above, then you are to send this Replacement System Variance Request, along with the Application, to the Department for review and approval consideration before issuing a Permit. (See reverse side for Comments Section and your signature.)

SITE EVALUATOR:

If after completing the Application, you find that a variance for the proposed replacement system is needed, complete the Replacement Variance Request with your signature on reverse side of form.

PROPERTY OWNER:

If has been determined by the Site Evaluator that a variance to the Rules is required for the proposed replacement system. This variance request is due to physical limitations of the site and/or soil conditions. The Site Evaluator has considered the site/soil restrictions and has concluded that a replacement system in total compliance with the Rules is not possible.

PROPERTY OWNER

I understand that the proposed system requires a variance to the Rules. Should the proposed system malfunction, I release all concerned provided they have performed their duties in a reasonable and proper manner, and I will promptly notify the Local Plumbing Inspector and make any corrections required by the Rules. By signing the variance request form, I acknowledge permission for representatives of the Department to enter onto the property to perform such duties as may be necessary to evaluate the variance request.

 Nancy O'Connor PR
SIGNATURE OF OWNER

 10/26/10
DATE

LOCAL PLUMBING INSPECTOR

 [Signature] , the undersigned, have visited the above property and have determined to the best of my knowledge that it cannot be installed in compliance with the Rules. As a result of my review of the Replacement Variance Request, the Application, and my on-site investigation, I (approve, disapprove) the variance request based on my authority to grant this variance. Note: If the LPI does not give his approval, he shall list his reasons for denial in **Comments** Section below and return to the applicant.

Comments: _____

 [Signature]
LPI SIGNATURE

 10/27/10
DATE

Replacement System Variance Request

| VARIANCE CATEGORY | | | | | | | VARIANCE REQUESTED TO: | |
|---|--------------------|--------------------|---------------|--------------------|------------------|---------------|------------------------|--------------|
| SOILS | | | | | | | | |
| Soil Profile | | Ground Water Table | | | | | 12 inches | |
| Soil Condition | | Restrictive Layer | | | | | inches | |
| from HHE-200 | | Bedrock | | | | | inches | |
| SETBACK DISTANCES (in feet) | | Disposal Fields | | | Septic Tanks | | Disposal Fields | Septic Tanks |
| From | Less than 1000 gpd | 1000 to 2000 gpd | Over 2000 gpd | Less than 1000 gpd | 1000 to 2000 gpd | Over 2000 gpd | To | To |
| Wells with water usage of 2000 or more gpd or public water system wells | 300 ft | 300 ft | 300 ft | 150 ft | 150 ft | 150 ft | | |
| Private Potable Water Supply | 100 ft [a] | 200 ft | 300 ft | 50 ft | 100 ft | 100 ft | | |
| Water supply line | 10 ft | 20 ft | 25 ft [g] | 10 ft | 10 ft | 10 ft [g] | | |
| Water course, major - | 100 ft [c] | 200 ft [c] | 300 ft [c] | 100 ft | 100 ft | 100 ft | | |
| Water course, minor | 50 ft [d] | 100 ft [d] | 150 ft [d] | 50 ft [d] | 50 ft [d] | 50 ft [d] | | |
| Drainage ditches | 25 ft | 50 ft | 75 ft | 25 ft | 25 ft | 25 ft | | |
| Edge of fill extension -- Coastal wetlands, special freshwater wetlands, great ponds, rivers, streams | 25 ft [d] | 25 ft [d] | 25 ft [d] | 25 ft [d] | 25 ft [d] | 25 ft [d] | | |
| Slopes greater than 3:1 | 10 ft [f] | 18 ft [f] | 25 ft [f] | N/A | N/A | N/A | | |
| No full basement [e.g. slab, frost wall, columns] | 15 ft | 30 ft | 40 ft | 8 ft | 14 ft | 20 ft | | |
| Full basement [below grade foundation] | 20 ft | 30 ft | 40 ft | 8.5 ft | 14 ft | 20 ft | | |
| Property lines | 10 ft [b] | 18 ft [b] | 20 ft [b] | 10 ft [b] | 15 ft [b] | 20 ft [b] | | |
| Burial sites or graveyards, measured from the down toe of the fill extension | 25 ft | 25 ft | 25 ft | 25 ft | 25 ft | 25 ft | | |
| OTHER | | | | | | | | |
| 1. Fill extension Grade - to 3:1 | | | | | | | | |
| 2. | | | | | | | | |
| 3. | | | | | | | | |

Footnotes: [a.] Private Potable water Supply setbacks may be reduced as prescribed in Chapter 7
 [b.] Additional setbacks may be needed to prevent fill material extensions from encroaching onto abutting property.
 [c.] Additional setbacks may be required by local Shoreland zoning.
 [d.] Natural Resource Protection Act requires a 25 feet setback, on slopes of less than 20%, from the edge of soil disturbance and 100 feet on slopes greater than 20%. See Chapter 15.
 [e.] May not be any closer to a private potable water supply than the existing disposal field or septic tank. This setback may be reduced for single family houses with Department approval. See Section 702.3.
 [f.] The fill extension shall reach the existing ground before the 3:1 slope or within 100 feet of the disposal field.
 [g.] See Section 1402.8 for special procedures when these minimum setbacks cannot be achieved.



 SITE EVALUATOR'S SIGNATURE

26 OCT 10

 DATE

FOR USE BY THE DEPARTMENT ONLY

The Department has reviewed the variance(s) and (does does not) give its approval. Any additional requirements, recommendations, or reasons for the Variance denial, are given in the attached letter.

 SIGNATURE OF THE DEPARTMENT

 DATE

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
 Division of Health Engineering, 10
 SHS (207) 287-5672 Fax: (207) 287-
 3165

PROPERTY LOCATION

>>CAUTION: PERMIT REQUIRED - ATTACH IN SPACE BELOW<<

or Plantation **Augusta**

Street or Road **592 Eastern Avenue**

Subdivision, Lot #

AUGUSTA PERMIT # 6519 TOWN COPY
 Date Issued: 10/27/10 \$ 10210.00 Job # 808 If Double Fee Charged
 Signature: Nancy R. Fuller L.P.I. # 1350
 Local Plumbing Inspector Signature

OWNER/APPLICANT INFORMATION

Name (last, first, MI) **Roderick, Rita, Est. of** Owner Applicant

Mailing Address of Applicant **Nancy O'Connor, 592 Eastern Avenue
 Augusta, ME 04330**

Daytime Tel.# **622-6501**

Municipal Tax Map # 11 Lot # 238

Owner or Applicant Statement

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing inspector to deny a Permit

CAUTION: INSPECTION REQUIRED

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal rules Application. 11/13/10
 (1st) date approved
 Signature: Nancy R. Fuller 11/16/10
 Local Plumbing Inspector Signature (2nd) date approved

Signature of Owner or Applicant: Nancy O'Connor PR Date: 10/26/10

PERMIT INFORMATION

| | | |
|--|--|--|
| TYPE OF APPLICATION <input type="checkbox"/> 1. First Time System <input checked="" type="checkbox"/> 2. Replacement System Type replaced: Trench Year installed: 60's <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. Minor Expansion <input type="checkbox"/> b. Major Expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion | THIS APPLICATION REQUIRES <input type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input checked="" type="checkbox"/> 3. Replacement System Variance <input checked="" type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit | DISPOSAL SYSTEM COMPONENTS <input checked="" type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered disposal field (only) <input type="checkbox"/> 11. Pre-treatment, specify: <input type="checkbox"/> 12. Miscellaneous components |
| SIZE OF PROPERTY +/- 14 <input type="checkbox"/> SQ. FT. <input checked="" type="checkbox"/> ACRES SHORELAND ZONING <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | DISPOSAL SYSTEM TO SERVE <input checked="" type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedroom: 3 <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: <input type="checkbox"/> 3. Other: _____ Current Use <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped | TYPE OF WATER SUPPLY <input type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input checked="" type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other |

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

| | | | |
|--|---|---|---|
| TREATMENT TANK <input checked="" type="checkbox"/> 1. Concrete <input checked="" type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: CAPACITY: 1,000 | DISPOSAL FIELD TYPE & SIZE <input checked="" type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device <input type="checkbox"/> a. cluster array <input type="checkbox"/> c. Linear <input type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: Size: 1,400 <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft. | GARBAGE DISPOSAL UNIT <input checked="" type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. Multi-compartment tank <input type="checkbox"/> b. _____ tanks in series <input type="checkbox"/> c. Increase in tank capacity <input type="checkbox"/> d. Filter on Tank Outlet | DESIGN FLOW 270 gallons per day BASED ON: <input checked="" type="checkbox"/> 1. Table 501.1 (dwelling unit(s)) <input type="checkbox"/> 2. Table 501.2 (other facilities) SHOW CALCULATIONS for other facilities |
| SOIL DATA & DESIGN CLASS PROFILE 9 CONDITION DII DESIGN 3 at Observation Hole # 1 Depth 12" of Most Limiting Soil Factor | DISPOSAL FIELD SIZING <input type="checkbox"/> 1. Small--2.0 sq. ft./gpd <input type="checkbox"/> 2. Medium--2.6 sq. ft./gpd <input type="checkbox"/> 3. Medium--Large 3.3 sq. ft./gpd <input checked="" type="checkbox"/> 4. Large--4.1 sq. ft./gpd <input checked="" type="checkbox"/> 5. Extra Large--5.0 sq. ft./gpd | EFFLUENT/EJECTOR PUMP <input type="checkbox"/> 1. Not Required <input type="checkbox"/> 2. May Be Required <input checked="" type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons | <input type="checkbox"/> 3. Section 503.0 (meter readings) ATTACH WATER METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. 44 d 17 m 724 s Lon. 69 d 43 m 147 s if g.p.s., state margin or error: |

SITE EVALUATOR STATEMENT

I certify that on 22 October 10 (date) I completed a plan review on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal rules (10-144A CMR 241).

Signature: Stephen P. Robbins
 Site Evaluator Signature
 Stephen P. Robbins

S.E. # **301** **10/26/2010**

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
 Division of Health Engineering, 10 SHS
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road Subdivision

Owner's Name

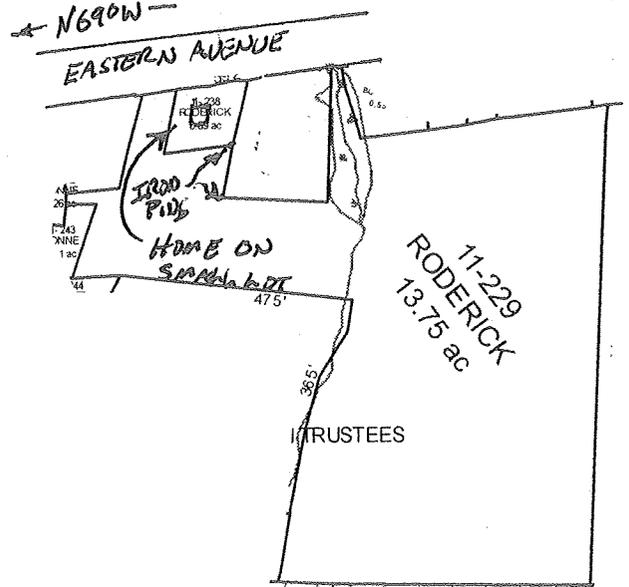
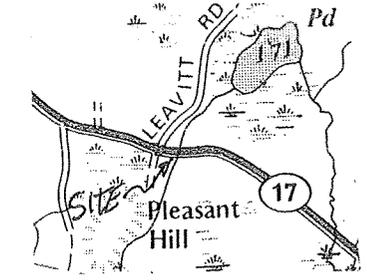
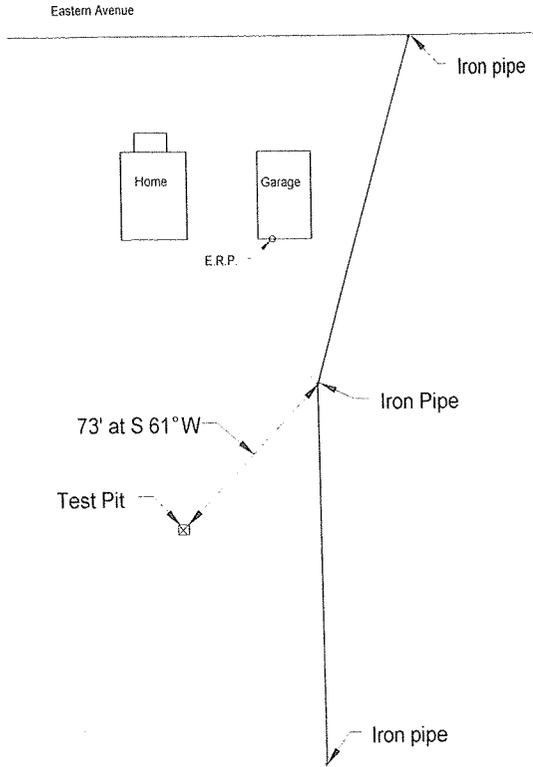
Augusta

592 Eastern Avenue,

Roderick, Rita, Est. of

SITE PLAN

Scale 1" = 70 Ft.
 or as shown



SOIL DESCRIPTION AND CLASSIFICATION (LOCATION OF OBSERVATION HOLES SHOWN ABOVE)

Observation Hole #1 Test Pit Boring

1 " Depth of Organic Horizon Above Mineral Soil

| DEPTH BELOW MINERAL SOIL SURFACE (inches) | Texture | Consistency | Color | Mottling |
|---|------------|-------------|--------------|------------|
| 0 | Loam | Friable | Brown | |
| 5 | Silt loam | | Yellow brown | |
| 10 | | | | |
| 15 | Silty clay | Firm | Olive | Few Common |
| 20 | | | | |
| 25 | | | | |
| 30 | | | | |
| 35 | | | | |
| 40 | | | | |
| 45 | | | | |
| 50 | | | | |

Soil Classification **9 DII** Slope **1-3%** Limiting Factor **12"** Ground Water
 Profile Condition **1-3%** **12"** Restrictive Layer
 Bedrock
 Pit Depth

Observation Hole Test Pit Probes

" Depth of Organic Horizon Above Mineral Soil

| DEPTH BELOW MINERAL SOIL SURFACE (inches) | Texture | Consistency | Color | Mottling |
|---|---------|-------------|-------|----------|
| 0 | | | | |
| 10 | | | | |
| 20 | | | | |
| 30 | | | | |
| 40 | | | | |
| 50 | | | | |

Soil Classification Slope Limiting Factor Ground Water
 Profile Condition Restrictive Layer
 Bedrock
 Pit Depth

Stephen P. Robbins

301

10/26/2010

Page 2 of 4

Site Evaluator Signature

SE #

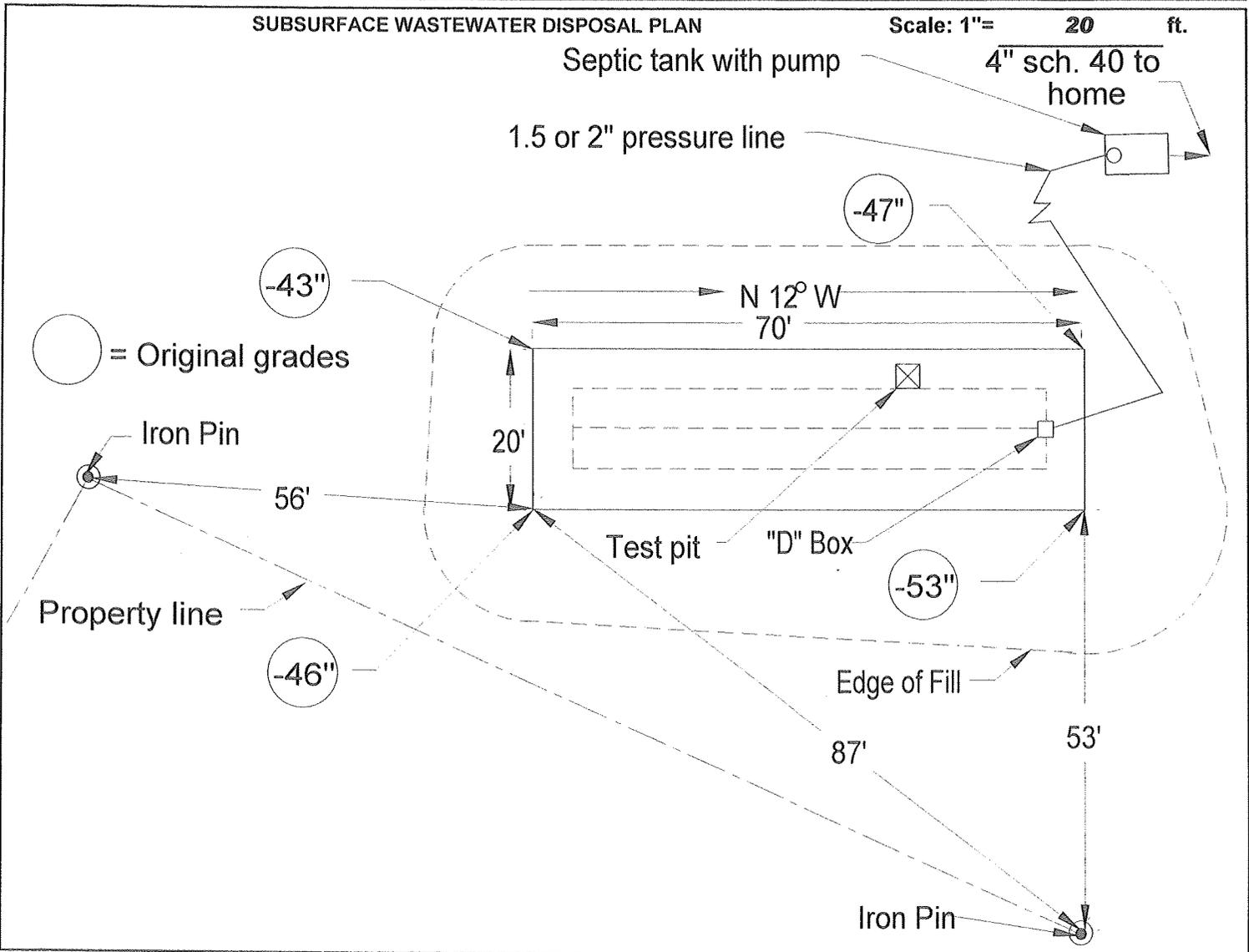
Date

HHE-200 Rev 7/97

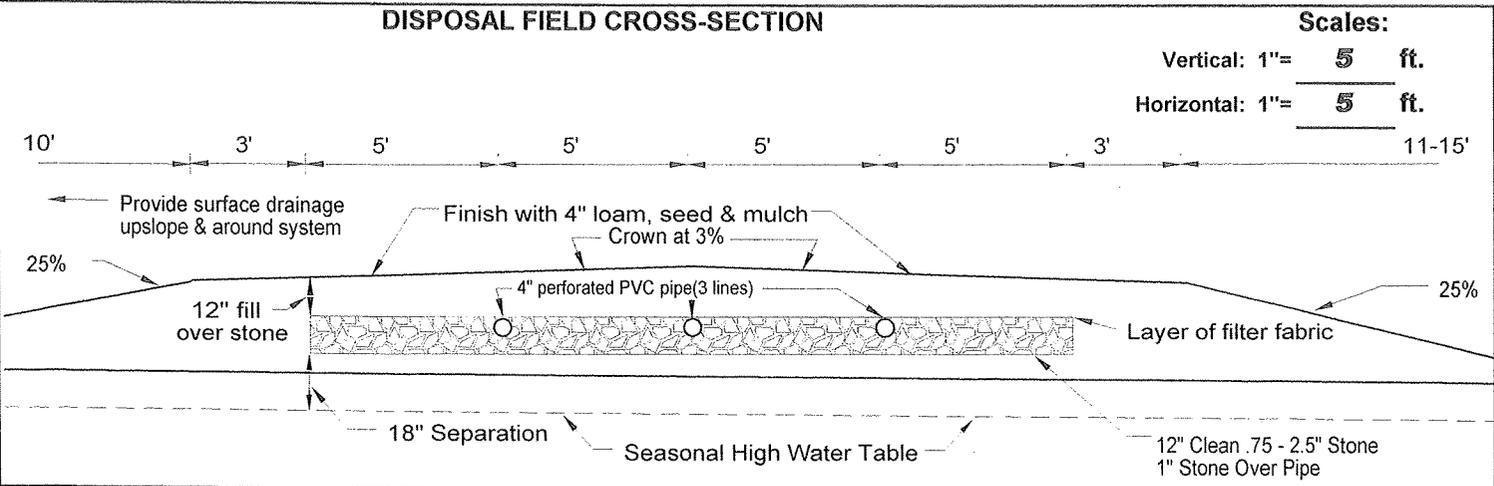
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
 Division of Health Engineering, 10 SHS
 (207) 287-5672 Fax: (207) 287-3165

| | | |
|--|---|---|
| Town, City, Plantation Augusta | Street, Road, Subdivision 592 Eastern Avenue, | Owner or Applicant Name Roderick, Rita, Est. of |
|--|---|---|



| BACKFILL REQUIREMENTS | CONSTRUCTION ELEVATIONS | ELEVATION REFERENCE POINT |
|--|---|--|
| Depth of Backfill (upslope) 30-34 " | Finished Grade Elevation -13 " | Location & Description: Flat of |
| Depth of Backfill (downslope) 33-40 " | Top of Distribution Pipe or Proprietary Device -26 " | window trim on garage |
| DEPTHS AT CROSS-SECTION (shown below) | Bottom of Disposal Field -37 " | Reference Elevation is : 0.0" or: |



ATTACHMENT TO HHE-200

Caution: Before starting, contractor must insure fill depth amounts match with elevations given. Contact designer immediately with any discrepancies.

Notes:

1. Construction to conform to "State of Maine Subsurface Wastewater Disposal Rules".
2. Property lines shown are as provided by owner, agent, or municipality. No guarantee of accuracy is implied. Actual property lines must be confirmed by survey.
3. Remove organic material and **roto-till** area under drain-field and fill extensions.
4. Unless otherwise specified, all fill will be coarse sand to a gravelly coarse sand. See Sec. 804.0 in the State of Maine Subsurface Waste-water Disposal Rules for further clarification of fill requirements. In 8" lifts, compacted as placed. First lift to be thoroughly mixed with original soil, to form a transition horizon.
5. Septic tanks and pump stations shall be installed water-tight to prevent infiltration of ground and surface water.
6. Force mains, pump stations, and or gravity piping subject to freezing shall be adequately insulated.
7. Unless otherwise specified, septic tank to be located by contractor; at minimum; 8' to proposed or existing home and or buildings, 10' to property line & water supply line, 100' to all wells and shoreline. Owner's well & shoreline setback can be reduced to 50' if a 1 piece water-tight tank is used.
8. A septic tank outlet filter is recommended.
9. If replacement system with new tank, existing tank or cesspool to be filled with soil or removed. If existing tank is to be utilized, thoroughly inspect & replace outlet baffle with plastic filter.
10. Unless otherwise specified, this plan does not allow the placement of pumps between the waste-water source and the septic tank.
11. Unless otherwise specified, disposal area to existing or proposed buildings setback is 20'.
12. Water from gutters, driveways, walks, and other surface water to be diverted away from system.
13. Loam, seed and mulch all disturbed areas to prevent erosion and facilitate runoff.
14. Unless otherwise specified, keep traffic heavier than lawn tractor away from all components of system.
15. Keep sanitary napkins, cigarette butts, coffee grounds, paper towels, grease, and nonbiodegradables out of system.
16. Many times it is impossible to locate water supplies. Property owner assumes responsibility of proper setback to any unknown water supplies.
17. Discharge from water treatment equipment and residential foundation/floor drains is not considered waste-water and must not be plumbed into septic system. This flow should be diverted into a separate drywell (disposal area that does not require design or permit). A floor drain used for anything other than fresh-water disposal does require design and permit.
18. Plumbing fixtures must be strictly maintained to insure excess water does not enter septic system. Excess water can lead to premature clogging and total failure of disposal area.
19. Venting of disposal area is not required, but can facilitate biological action in disposal area.
20. Pumped systems will be equipped with audible high water alarm, wired to separate circuit as pump.
21. If a BK2000 Waste-Water Management system or any other Norweco products are included in this design, the designer has a financial interest in the sale of these products. Owner is encouraged to research comparable products and make final choice. If owner chooses a competitors product, design will be revised to note said change at no charge.
22. Take 3 copies of the plan to your local plumbing inspector for required permit.

