SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering, Station 10
(207) 287-5672 FAX (207) 287-3165

PROPERTY LOCATION

City, Town or Plantation	Waterford
Street or Road	Norway Rd. (118)
Subdivision, Lot #	

OWNER/APPLICANT INFORMATION

Name (last, first, MI)	Thurston, Ray (Owner / Applicant)
Mailing Address of ☒ Owner ☐ Applicant	Waterford, ME. 04088
Daytime Tel. #	207

Owner Statement

I state 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.

Ray Thurston — Signature of Owner or Applicant — 6-15-01 Date

>> Cuation: Permit Required - Attach in Space Below <<

WATERFORD 802 TOWN COPY

Date Permit Issued: 6/15/01 $ 110.00 ☐ If Double Fee Chargod FEE

Prentiss X. Kimball — Local Plumbing Inspector Signature — L.P.I. # 180

Municipal Tax Map # 63 Lot # 3E

Caution: Inspection Required

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

Prentiss X. Kimball — Local Plumbing Inspector Signature — 6-26-01 (1st) Date Approved — 7-6-01 (2nd) Date Approved

PERMIT INFORMATION

THIS APPLICATION IS FOR:

1. ☒ First Time System
2. ☐ Replacement System
   Type Replaced _____
   Year Installed _____
3. ☐ Expanded System
   ☐ a. Major Expansion
   ☐ b. Minor Expansion
4. ☐ Experimental System
5. ☐ Seasonal Conversion

THIS APPLICATION REQUIRES:

1. ☒ No Rule Variance
2. ☐ First Time System Variance
   ☐ a. Local Plumbing Inspector Approval
   ☐ b. State & Local Plumbing Inspector Approval
3. ☐ Replacement System Variance
   ☐ a. Local Plumbing Inspector Approval
   ☐ b. State & Local Plumbing Inspector Approval
4. ☐ Minimum Lot Size Variance
5. ☐ Seasonal Conversion Variance

DISPOSAL SYSTEM COMPONENT(S)

1. ☒ Complete Non-Engineered System
2. ☐ Primitive System (graywater & Alt. toilet)
3. ☐ Alternative Toilet, specify_____
4. ☐ Non-Engineered Treatment Tank (only)
5. ☐ Holding Tank _____ Gallons
6. ☐ Non-Engineered Disposal Field (only)
7. ☐ Separated Laundry System
8. ☐ Complete Engineered System (>2000 gpd)
9. ☐ Engineered Treatment Tank (only)
10. ☐ Engineered Disposal Area (only)
11. ☐ Pre-treatment, specify:_____
12. ☐ Miscellaneous components

SIZE OF PROPERTY

1.5+/- ☐ sq. ft. ☒ acres

SHORELAND ZONING

☐ Yes ☒ No

DISPOSAL SYSTEM TO SERVE:

1. ☒ Single Family Dwelling Unit, No. of Bedrooms 2
2. ☐ Multiple Family Dwelling, No. of Units _____
3. ☐ Other:_____ SPECIFY

TYPE OF WATER SUPPLY

1. ☐ Drilled Well 2. ☐ Dug Well 3. ☐ Private
4. ☐ Public 5. ☐ Other FUTURE

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

1. ☒ Concrete
   ☒ Regular
   ☐ Low Profile
2. ☐ Plastic
3. ☐ Other

CAPACITY 1000 Min. gallons
(see Standard Notes on pg. 2)

DISPOSAL FIELD TYPE & SIZE

1. ☒ Stone Bed 2. ☐ Stone Trench
3. ☐ Proprietary Device
   a. ☐ Cluster array c. ☐ Linear
   b. ☐ Regular load d. ☐ H-20 load
4. ☐ Other _____

SIZE 660 ☒ sq. ft. ☐ lin. ft.

GARBAGE DISPOSAL UNIT

1. ☐ No 3. ☒ Maybe
2. ☐ Yes >>Specify one below:
   a. ☐ Multi-compartment tank
   b. ☐ Tank in service
   c. ☐ Increase in tank capacity
   d. ☐ Filter on tank outlet

DESIGN FLOW

200 gallons per day

BASED ON:
1. ☒ Table 501.1 (dwelling unit(s)
2. ☐ Table 501.2 (other facilities)

SHOW CALCULATIONS
- for other facilities-

3. ☐ Section 503.0 (meter readings)
ATTACH WATER-METER DATA

SOIL DATA & DESIGN CLASS

PROFILE CONDITION DESIGN
3 / C / 1
at Observation Hole # 1
Depth 38 " Elevation -70 "
OF MOST LIMITING FACTOR

DISPOSAL AREA SIZING

1. ☐ Small 2.00
2. ☐ Medium 2.60
3. ☒ Medium-Large 3.30
4. ☐ Large 4.10
5. ☐ Extra-Large 5.20

PUMPING

1. ☒ Not required
2. ☐ May be required
3. ☐ Required >>Specify only for engineered or experimental systems

DOSE _____ Gallons

SITE EVALUATOR'S STATEMENT

I Certify that on 6 / 15 / 01 (date) I completed a site evaluation on this property and state that the data reported is accurate and that the proposed system is in compliance with the Subsurface Wastewater Disposal Rules (10-144A CMR 241).

W. Horton — Site Evaluator Signature

67 — SE #

6 / 15 / 01 — Date

W. HORTON — Site Evaluator Name Printed

647-8798 — Telephone #

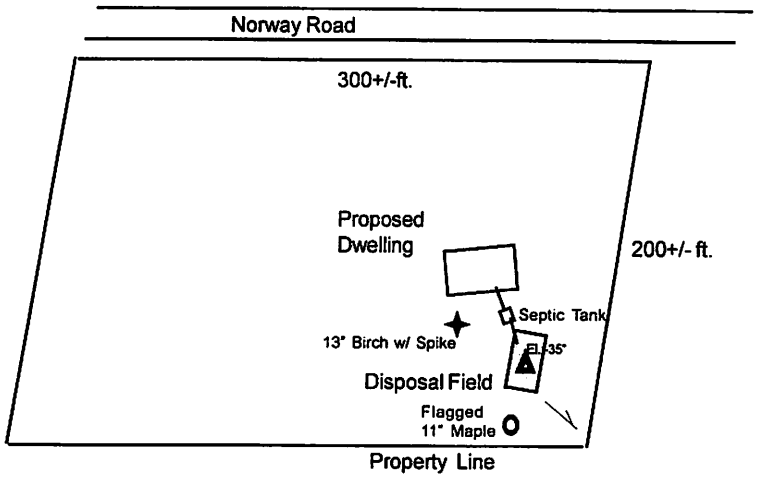
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207) 287-5672 FAX (207) 287-4172

Town, City or Plantation: Waterford | Street, Road or Subdivision: Norway Rd. | Name of Owner: R. Thurston

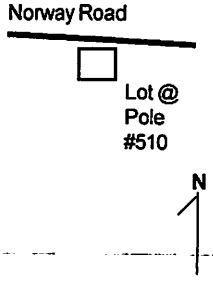
SITE PLAN

Scale: 1" = 100 or as shown Ft.



SITE LOCATION PLAN

(Map from *The Maine Atlas* recommended)



= SLOPE

= E.R.P.

= OBSERVATION PIT

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		Dk. Br.	
10		Friable	Brown	
20	Fine Sandy Loam Till		Yell. Br.	
30				
40		Somewhat Firm	Gray	
50				

Soil Classification	Slope	Limiting Factor	
3 C Profile	10 %	38 "	☐ Ground Water ☒ Restrictive Layer ☐ Bedrock ☐ Pit Depth

Observation Hole ____ ☐ Test Pit ☐ Boring

" Depth of Organic Horizon Above Mineral Soil

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

TO BE READ BY OWNER and/or INSTALLER or AGENT -

The *Owner Statement* (page 1) shall include the fact of reading these notes:

-A Septic Tank w/ an increased capacity of the next size is recommended, *whenever garbage disposal device is contemplated* for the dwelling.
-Owner/Installer shall review this Application and verify that it accurately describes the intended uses (present and future) for the system, and all setbacks and other information hereon is complete and factually correct, prior to its submission to the Town's LPI for a permit. This review by the Owner/Installer *applies especially to neighbors' wells* which can not always be located due to absence of neighbors, etc. at the time of the Site Evaluator's on-site visit.
-The four corner flags placed by the SE are indicators of the general location of the disposal field. However, Installer shall use the layout measurements on page 3 to locate the field *precisely*. If a measurement involves a property line, the Owner is responsible for locating the same prior to installation.
-SE's phone number is on page #1 for questions.
-Proper functioning of a disposal system requires Septic Tank being pumped out periodically, and the tank inspected. Non-pumping and broken baffles reduce the life expectancy of a disposal field, causing clogging and requiring a replacement. Also, a filter in the Septic Tank's Outlet Pipe, if accessible (use riser?) and cleaned every year (minimum), will prolong the life of the field.
-Because the method of installation and the usage & maintenance practices have a significant effect on the working order of a private septic system, it is not possible to adequately predict the efficiency and/or longevity of any particular septic system design.
- Additives posited into the Septic Tank may prove harmful to the leaching field.

Soil Classification	Slope	Limiting Factor	
Profile	%	"	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

Site Evaluator Signature | 67 SE # | 6 / 15 / 01 Date

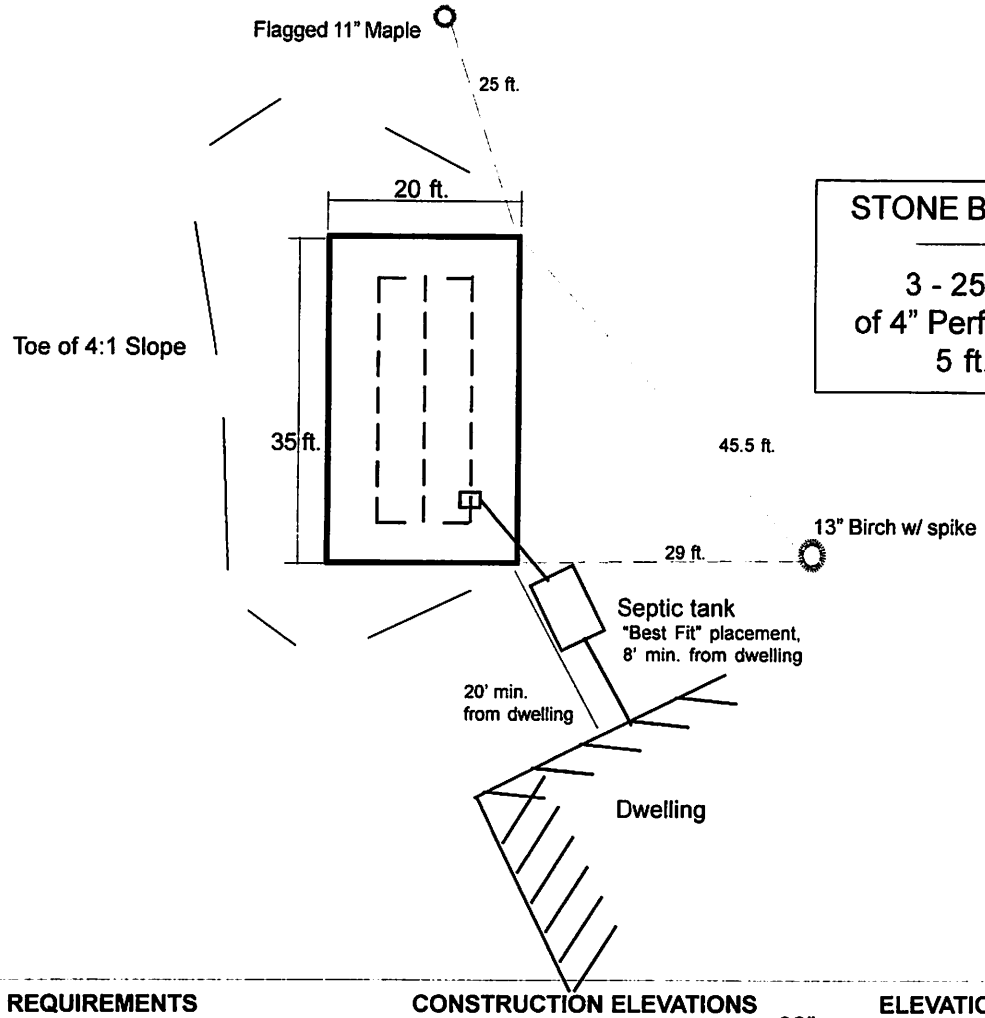
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207) 287-5672 FAX (207) 287-4172

Town, City or Plantation	Street, Road or Subdivision	Name of Owner
Waterford	Norway Rd.	R. Thurston

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale: 1" = 20 Ft. or as shown



FILL REQUIREMENTS

Depth of Fill (Upslope)	0 "
Depth of Fill (Downslope)	18 - 24 "

CONSTRUCTION ELEVATIONS

Finished Grade Elevation	-32"
Top of Distribution Pipe or Proprietary Devices	-45"
Bottom of Disposal Area	-56"

ELEVATION REFERENCE POINT

Location & Description	Spike in 13" Birch
Reference Elevation	0" @ 24" high

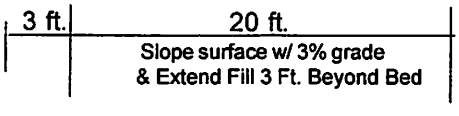
Construction Notes:

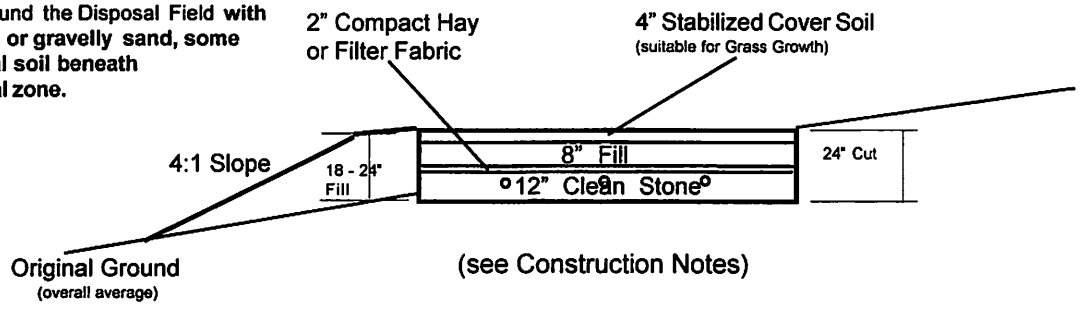
- The completed Disposal Field must comform to the above Fill Requirements. If the ERP and/or the field's layout is found not to correspond to Requirements on this page, notify the SE.
- Installer shall follow the construction techniques of the CODE (Section 800).

Backfill under & around the Disposal Field with 8" min. of coarse or gravelly sand, some mixed into original soil beneath bed for transitional zone.

DISPOSAL AREA CROSS SECTION

Scale: Vertical: 1" = 5 Ft. Horizontal: 1" = 10 Ft.





Site Evaluator Signature	SE #	Date
	67	6 / 15 / 01

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering, 10 SHS
(207) 287-5672 FAX (207) 287-3165

PROPERTY LOCATION

City, Town or Plantation	Waterford
Street or Road	Waterford Rd. 118
Subdivision, Lot #	

>> Caution: Permit Required - Attach in Space Below <<

WATERFORD PERMIT # 1305 TOWN COPY

Date Permit Issued: 5/3/10 $ 175.00 ☐ If Double Fee Charged FEE

Frantis T. Kimball L.P.I. # 180

Local Plumbing Inspector Signature

OWNER/APPLICANT INFORMATION

Name (last, first, MI): Thurston, Ray ☒ Owner ☐ Applicant

Mailing Address of Owner / Applicant: 459 Waterford Rd. Waterford, ME. 04088

Daytime Tel. #: 207 583 2102

Municipal Tax Map #63 Lot # 3E

Owner Statement

I state 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.

Ray Thurston

Signature of Owner or Applicant — Date

Caution: Inspection Required

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

Frantis T. Kimball — Local Plumbing Inspector Signature

5-14-10 (1st) Date Approved

5-14-10 (2nd) Date Approved

PERMIT INFORMATION

TYPE OF APPLICATION

- ☒ 1. First Time System
- ☐ 2. Replacement System
  - Type Replaced _____
  - Year Installed _____
- ☐ 3. Expanded System
  - ☐ a. Minor Expansion
  - ☐ b. Major Expansion
- ☐ 4. Experimental System
- ☐ 5. Seasonal Conversion

THIS APPLICATION REQUIRES:

- ☒ 1. No Rule Variance
- ☐ 2. First Time System Variance
  - ☐ a. Local Plumbing Inspector Approval
  - ☐ b. State & Local Plumbing Inspector Approval
- ☐ 3. Replacement System Variance
  - ☐ a. Local Plumbing Inspector Approval
  - ☐ b. State & Local Plumbing Inspector Approval
- ☐ 4. Minimum Lot Size Variance
- ☐ 5. Seasonal Conversion Variance

DISPOSAL SYSTEM COMPONENT(S)

- ☒ 1. Complete Non-Engineered System
- ☐ 2. Primitive System (graywater & Alt. toilet)
- ☐ 3. Alternitive Toilet, specify_____
- ☐ 4. Non-Engineered Treatment Tank (only)
- ☐ 5. Holding Tank _____ Gallons
- ☐ 6. Non-Engineered Disposal Field (only)
- ☐ 7. Separated Laundry System
- ☐ 8. Complete Engineered System (>2000 gpd)
- ☐ 9. Engineered Treatment Tank (only)
- ☐ 10. Engineered Disposal Field (only)
- ☐ 11. Pre-treatment, specify:_____
- ☐ 12. Miscellaneous Components

SIZE OF PROPERTY

1.5+/- ☐ sq. ft. ☒ acres

SHORELAND ZONING

☐ Yes ☒ No

DISPOSAL SYSTEM TO SERVE:

- ☐ 1.Single Family Dwelling Unit, No. of Bedrooms_____
- ☐ 2. Multiple Family Dwelling, No. of Units _____
- ☒ 3. Other: 1 bed apartment (SPECIFY)

Current Use: ☐ Seasonal ☐ Year Round ☒ Undeveloped

TYPE OF WATER SUPPLY

1. ☐ Drilled Well 2. ☐ Dug Well 3. ☐ Private
4. ☐ Public 5. ☒ Other (relocated well)

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

- ☒ 1. Concrete
  - ☒ a. Regular
  - ☐ b. Low Profile
- ☐ 2. Plastic
- ☐ 3. Other

CAPACITY 1000 Min. gallons

(see Standard Notes on pg. 2)

DISPOSAL FIELD TYPE & SIZE

- ☒ 1. Stone Bed ☐ 2. Stone Trench
- ☐ 3. Proprietary Device
  - ☐ a. cluster array ☐ c. linear
  - ☐ b. regular load ☐ d. H-20 load
- ☐ 4. Other: _____

SIZE 500 ☒ sq. ft. ☐ lin. ft.

GARBAGE DISPOSAL UNIT

☒ 1. No* ☐ 2. Yes ☐ 3. Maybe

If yes or maybe, specify one below:

- ☐ a. Multi-compartment Tank
- ☐ b. Tanks in Series
- ☐ c. Increase in Tank Capacity
- ☐ d. Filter on Tank Outlet

*see "must read" note on pg 2

DESIGN FLOW

180 gallons per day

BASED ON:

- ☒ 1.Table 501.1 (dwelling unit(s))
- ☐ 2.Table 501.2 (other facilities)

SHOW CALCULATIONS - for other facilities-

SOIL DATA & DESIGN CLASS

PROFILE CONDITION DESIGN

4 / B / 1

of Observation Hole, to Depth 48 "

or of Most Limiting Factor.

DISPOSAL AREA SIZING

- ☐ 1. Small - 2.0 sq. ft./gpd
- ☒ 2. Medium - 2.6 sq. ft./gpd
- ☐ 3. Medium-Large - 3.3 sq. ft./gpd
- ☐ 4. Large - 4.1 sq. ft./gpd
- ☐ 5. Extra-Large - 5.0 sq. ft./gpd

EFFLUENT/EJECTOR PUMP

- ☐ 1. Not required
- ☒ 2. May be required
- ☐ 3. Required

Specify only for engineered systems

DOSE _____ Gallons

☐ 3. Section 503.0 (meter readings)

ATTACH WATER-METER DATA

LATITUDE AND LONGITUDE

at center of disposal area

Lat. 44 d 13 m 52.38 s N

Lon. 70 d 43 m 49.74 s W

of gps, state margin of error: 30+/- ft.

SITE EVALUATOR'S STATEMENT

I Certify that on 4 / 5 / 10 (date) I completed a site evaluation on this property and state that the data reported is accurate and that the proposed system is in compliance with the Subsurface Wastewater Disposal Rules (10-144A CMR 241).

W. Horton — Site Evaluator Signature

67 — SE #

4/7/10 — Date

W. HORTON — Site Evaluator Name Printed

647- 8798 — Telephone #

meldrum@megalink.net — E-mail Address

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Service
Division of Health Engineering, Station 10
(207) 287-5672 FAX (207) 287-3165

Town, City or Plantation	Street, Road, Subdivision	Owner or Applicant Name
Waterford	Waterford Rd.	R. Thurston

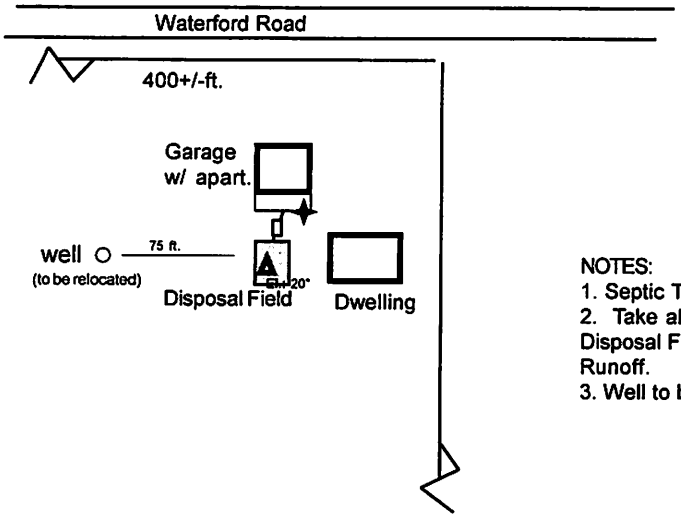
SITE PLAN

Scale: 1" = 100 Ft.

____\ = SLOPE

✦ = E.R.P.

▲ = OBSERVATION PIT



SITE LOCATION PLAN

(Attach map from Maine Atlas for First Time System Variance)

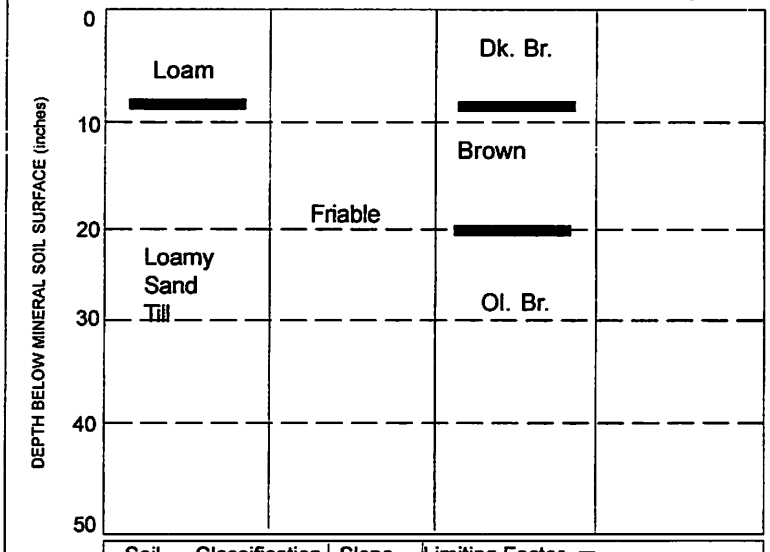
459 Waterford Road

NOTES:
1. Septic Tank shall be watertight or of monolithic construction.
2. Take all necessary measures to protect against surface erosion of Disposal Field, including grading around Disposal Field to Divert Surface Runoff.
3. Well to be relocated at 100 ft. from disposal field.

SOIL PROFILE DESCRIPTION AND CLASSIFICATION

Observation Hole 1 ☒ Test Pit ☐ Boring

1 " Depth of Organic Horizon Above Mineral Soil



Soil Profile	Classification Condition	Slope Percent	Limiting Factor Depth	
4	B	3 %	48 "	☐ Ground Water ☐ Restrictive Layer ☐ Bedrock

MUST BE READ BY OWNER and INSTALLER -
The signature for *Owner Statement* (page 1) shall include the fact of reading and understanding:
1. This Application requires a Permit from the Town before a Building Permit for the lot is obtainable. This Application satisfies only the State Code for external plumbing. The CODE (or "Rules") is incorporated herein by reference and made part of this Application. Compliance of same is the sole responsibility of the Installer.
2. A septic tank filter or additional tank capacity is required *whenever garbage disposal device is contemplated* for the dwelling. NB: Filters demand maintenance and a cleaning out prior to onset of frozen ground on a yearly basis is highly recommended.
3. Owner & Installer shall review this Application and verify that it accurately describes the intended uses (present and future) for the system, and that all setbacks and other information hereon is complete and factually correct, prior to its submission to the Town's LPI for a permit. This review especially applies *to neighbors' wells* (within 100 ft. of proposed disposal field), if not identified on this plan, and to any more restricted local ordinance. Report all differences to the Site Evaluator.
4. The four corner flags placed by the SE are indicators of the general location of the disposal field. However, Installer shall use the layout measurements on page 3 to locate the field precisely, as flags can be moved. If a measurement involves a property line, the Owner is responsible for locating the same prior to installation.
5. Site Evaluator's phone number is on page #1 for questions.
6. Proper functioning of a disposal system requires Septic Tank being pumped out periodically, and the tank inspected. Non-pumping and broken baffles reduce the life expectancy of a disposal field, causing clogging and requiring a replacement. Provide easy access to the Septic Tank and use a riser over the cleanout, if needed.
7. Because the method of installation and its usage have a significant effect on the proper functioning of a septic system, it is not possible to adequately predict the efficiency and/or longevity of any particular septic system design.
*Certain products (fatty foods, some liquid soaps, septic tank additives, etc.) and appliances (garbage disposals, water softeners, & dishwashers, especially) are to be used with caution as they can be harmful to the biochemical process of a Septic System.
8. Suggestions: Photo open installation showing pipes or chambers for future reference.
9. For future reference, measure and note on page 3 of this HHE 200 the location of the newly installed septic tank w/ distances to the dwelling.

Site Evaluator Signature

67
SE #

4/7/10
Date

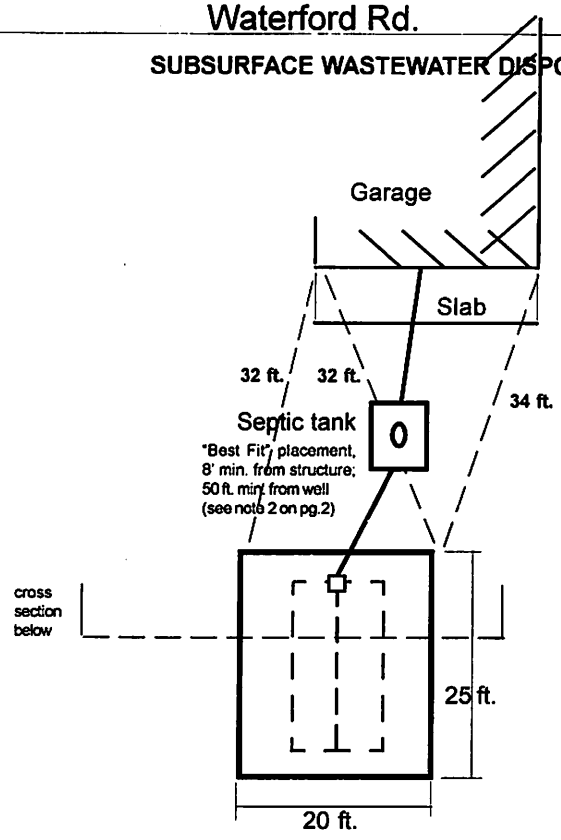
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207) 287-4672 FAX (207) 287-3165

Town, City or Plantation: Waterford | Street, Road, Subdivision: Waterford Rd. | Owner or Applicant Name: R. Thurston

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale: 1" = 20 Ft.



STONE BED: 20' x 25'

3 - 15 ft. Lines of 4" Perforated Pipe, 5 ft. Apart.

Distribution Box is optional, but recommended

FILL REQUIREMENTS

Depth of Backfill (Upslope) 0 "
Depth of Backfill (Downslope) 4+/- "
DEPTH AT CROSS-SECTION (shown below)

CONSTRUCTION ELEVATIONS

Finished Grade Elevation -04 "
Top of Distribution Pipe or Proprietary Devices -17 "
Bottom of Disposal Area -28 "

ELEVATION REFERENCE POINT

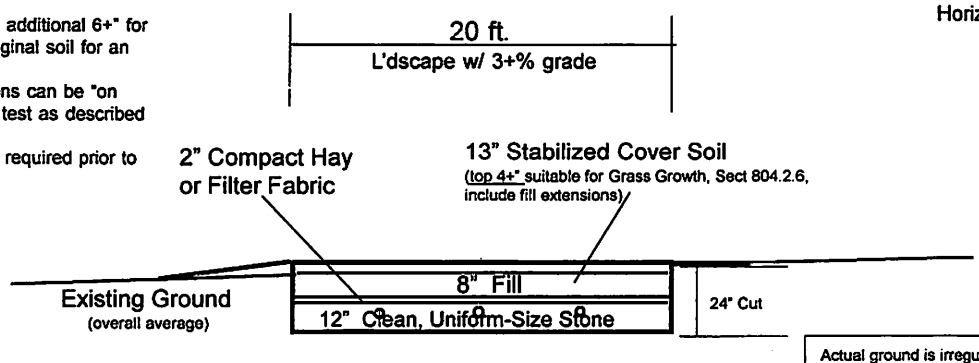
Location & Description top of slab at garage
Reference Elevation is 0.0" or:

Construction Notes:

1. General Installation procedure shall follow CODE Section 800.
2. Beneath disposal field, excavate an additional 6+" for gravelly or coarse sand, mixed into original soil for an interface transitional zone.
3. Fill above stone and for fill extensions can be "on site" soils or use fill that passes field test as described in CODE Section 804.2.3.
4. Site Preparation Inspection may be required prior to Disposal Field construction.

DISPOSAL AREA CROSS SECTION

Scales:
Vertical: 1" = 5 Ft.
Horizontal: 1" = 10 Ft.



Actual ground is irregular and the fill requirements, as shown, are approximate.
Installer shall review site for his estimate.

Site Evaluator Signature | 67 SE # | 4/7/10 Date