

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Division of Health Engineering, 10-01  
(207) 287-5672 Fax: (207) 287-316

PROPERTY LOCATION		>> CAUTION: PERMIT REQUIRED - ATTACH IN SPACE BELOW <<	
City, Town, or Plantation	AUGUSTA	AUGUSTA PERMIT # 6205 TOWN COPY Date Permit Issued: <u>8/15/2108</u> \$ <u>1200</u> <input type="checkbox"/> Double Fee Charged Signature: <u>[Signature]</u> L.P.I. # <u>850</u> Local Plumbing Inspector Signature	
Street or Road	16 BRANN AVE		
Subdivision, Lot #			
OWNER/APPLICANT INFORMATION		Municipal Tax Map # <u>16</u> Lot # <u>43</u> RA	
Name (last, first, MI)	ARBOUR, JAC <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant		
Mailing Address of Owner/Applicant	12 SYLVAN WAY CHELSEA, ME 04530		
Daytime Tel. #	207.431-3376		
OWNER OR APPLICANT STATEMENT		CAUTION: INSPECTION REQUIRED	
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.		I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.	
Signature of Owner or Applicant: <u>[Signature]</u> Date: _____		Local Plumbing Inspector Signature: _____ (2nd) date approved: _____	

PERMIT INFORMATION		
<b>TYPE OF APPLICATION</b> <input type="checkbox"/> 1. First Time System <input checked="" type="checkbox"/> 2. Replacement System Type replaced: <u>TRENCH</u> Year Installed: <u>1940's</u> <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	<b>THIS APPLICATION REQUIRES</b> <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 (SEE ATTACHED) <input 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	<b>DISPOSAL SYSTEM COMPONENTS</b> <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
<b>SIZE OF PROPERTY</b> <u>0.67</u> L.SQ. FT. ACRES	<b>DISPOSAL SYSTEM TO SERVE</b> <input checked="" type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: <u>4</u> <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input type="checkbox"/> 3. Other: _____ (specify)	<b>TYPE OF WATER SUPPLY</b> <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
<b>SHORELAND ZONING</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Current Use <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped	

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
<b>TREATMENT TANK</b> <input checked="" type="checkbox"/> 1. Concrete <input type="checkbox"/> a. Regular <u>OR</u> <input type="checkbox"/> b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY: <u>1000</u> GAL.	<b>DISPOSAL FIELD TYPE &amp; SIZE</b> <input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input checked="" type="checkbox"/> 3. Proprietary Device (315 ENVIROSEPTIC) <u>Leaching pipes</u> <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: _____ (315 LF) SIZE: <u>1476</u> sq. ft. <input type="checkbox"/> ln. ft.	<b>GARBAGE DISPOSAL UNIT</b> <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	<b>DESIGN FLOW</b> <u>360</u> 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
<b>SOIL DATA &amp; DESIGN CLASS</b> PROFILE CONDITION DESIGN <u>1 D 13</u> at Observation Hole # <u>TP-1</u> Depth <u>7"</u> of Most Limiting Soil Factor	<b>DISPOSAL FIELD SIZING</b> <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 type="checkbox"/> 5. Extra Large—5.0 sq. ft. / gpd	<b>EFFLUENT/EJECTOR PUMP</b> <input checked="" type="checkbox"/> 1. Not Required <input type="checkbox"/> 2. May Be Required <input type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons	<input type="checkbox"/> 3. Section 503.0 (meter readings) ATTACH WATER METER DATA <b>LATITUDE AND LONGITUDE</b> at center of disposal area Lat. <u>44</u> d <u>19</u> m <u>0.7</u> s Lon. <u>69</u> d <u>49</u> m <u>30.6</u> s if g.p.s, state margin of error: <u>10%</u>

SITE EVALUATOR STATEMENT		
I certify that on <u>7/2/08</u> (date) I completed a site evaluation 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: <u>Charles H. Lyman</u> Site Evaluator Signature	SE #: <u>367</u>	Date: <u>8/11/08</u>
Name: <u>Charles H. Lyman</u> Site Evaluator Name Printed	Telephone: <u>207 461 0001</u> Telephone Number	Email: <u>chlyman@madtec.com</u> 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 Services  
 Division of Health Engineering  
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

AUGUSTA

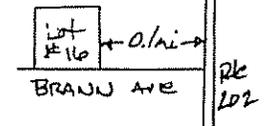
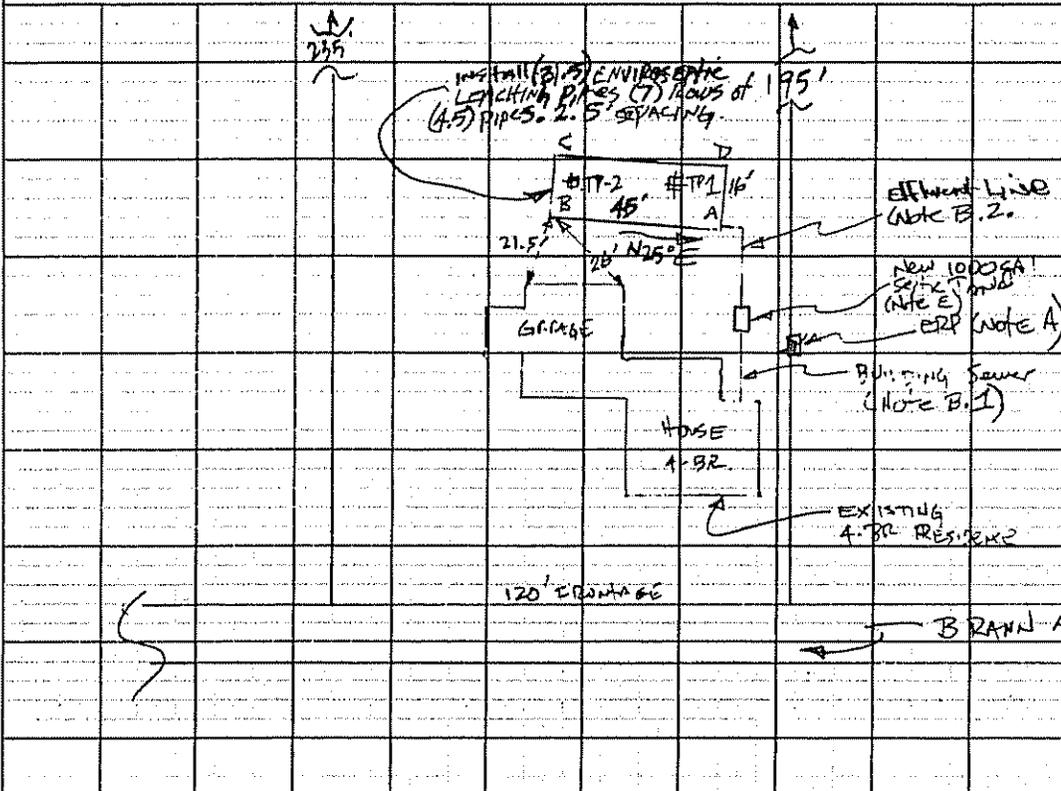
16 BRANN AVE

ARBOUR, JAC

**SITE PLAN**

Scale 1" = 50' ft. or as shown

**SITE LOCATION PLAN**  
 (map from Maine Atlas recommended)



- NOTES**
- REVIEW AND VERIFY WITH ATTACHED DESIGN AND USER NOTES.
  - INSTALL ENVIRONMENTAL LEACHING PIPES PER MANUFACTURER'S INSTRUCTIONS AND INSTALLATION MANUAL - MAKE ADJUSTMENTS TO PROTECT FROM CLOSING & FREEZING.

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

Observation Hole TP-1  Test Pit  Boring  
2 " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0	Silt loam	frail	10YR 3/3	None observed
10	Silt	FIRM	2.5Y 4/3	MF-MP
20				
30				
40				
50				

Soil Classification <u>1 D</u> Profile Condition	Slope <u>3</u> %	Limiting Factor <u>7</u> "	<input checked="" type="checkbox"/> Ground Water <input checked="" type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
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Observation Hole TP-2  Test Pit  Boring  
— " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0	Recent fill Gravelly sand	frail	Brown	None observed
10	Silt loam		10YR 3/3	
20	Silt	firm	2.5Y 4/3	MF-MP
30				
40				
50				

Soil Classification <u>1 D</u> Profile Condition	Slope <u>3</u> %	Limiting Factor <u>7</u> "	<input checked="" type="checkbox"/> Ground Water <input checked="" type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
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Charles H. [Signature]  
 Site Evaluator Signature

362  
 SE #

8/11/08  
 Date

**SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION**

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 Division of Health Engineering  
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Town, City, Plantation

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Owner's Name

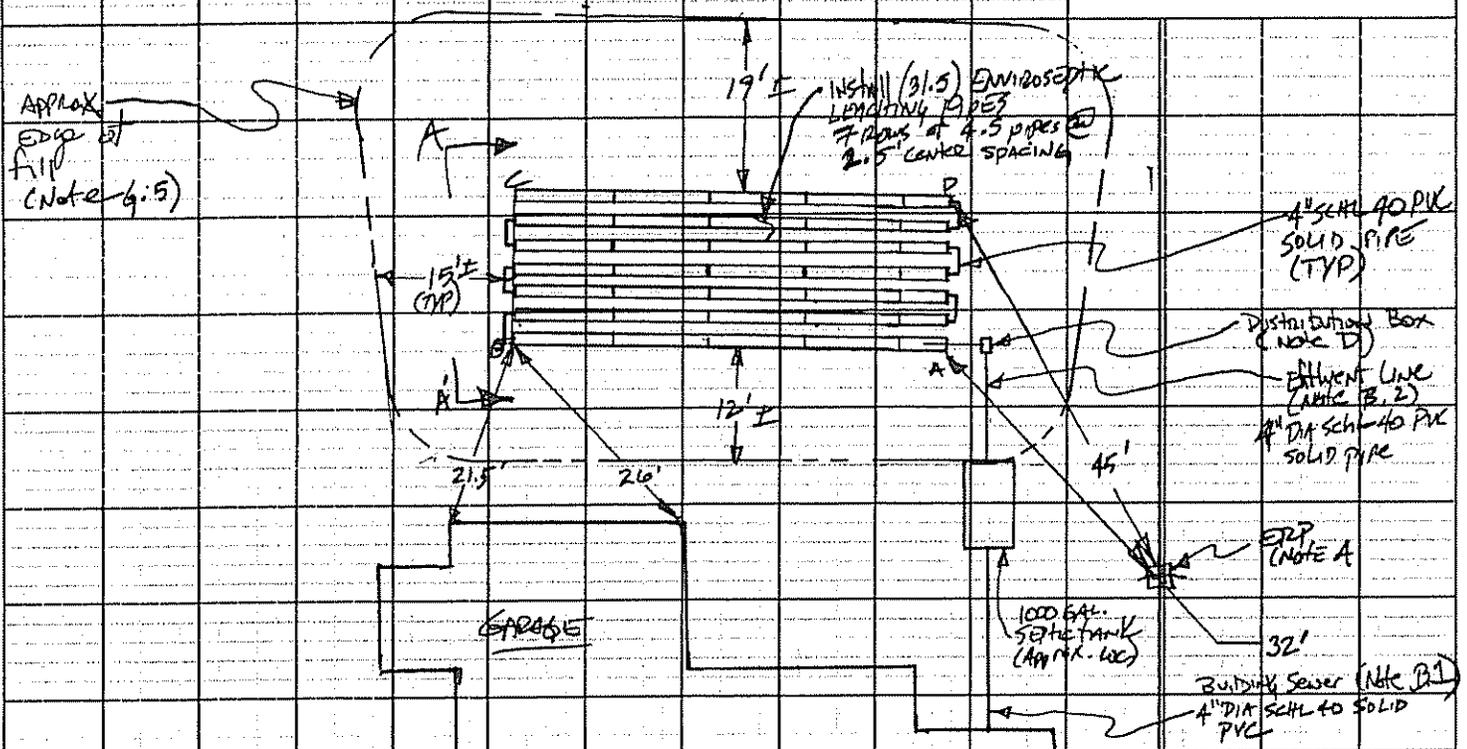
AUGUSTA

16 BRANN AVE

ARBOUR, VALE

**SUBSURFACE WASTEWATER DISPOSAL PLAN**

SCALE: 1" = 20' FT.



**FILL REQUIREMENTS**

**CONSTRUCTION ELEVATIONS**

**ELEVATION REFERENCE POINT**

Depth of Fill (Upslope) 30"-34" Finished Grade Elevation -0.1'

Top of Distribution Pipe or Proprietary Device -1.6'

Depth of Fill (Downslope) 42"-44" Bottom of Disposal Area Proprietary Device -2.6'

Location & Description: ASH TREE NAIL & TOPE 1.3' ABOVE GROUND

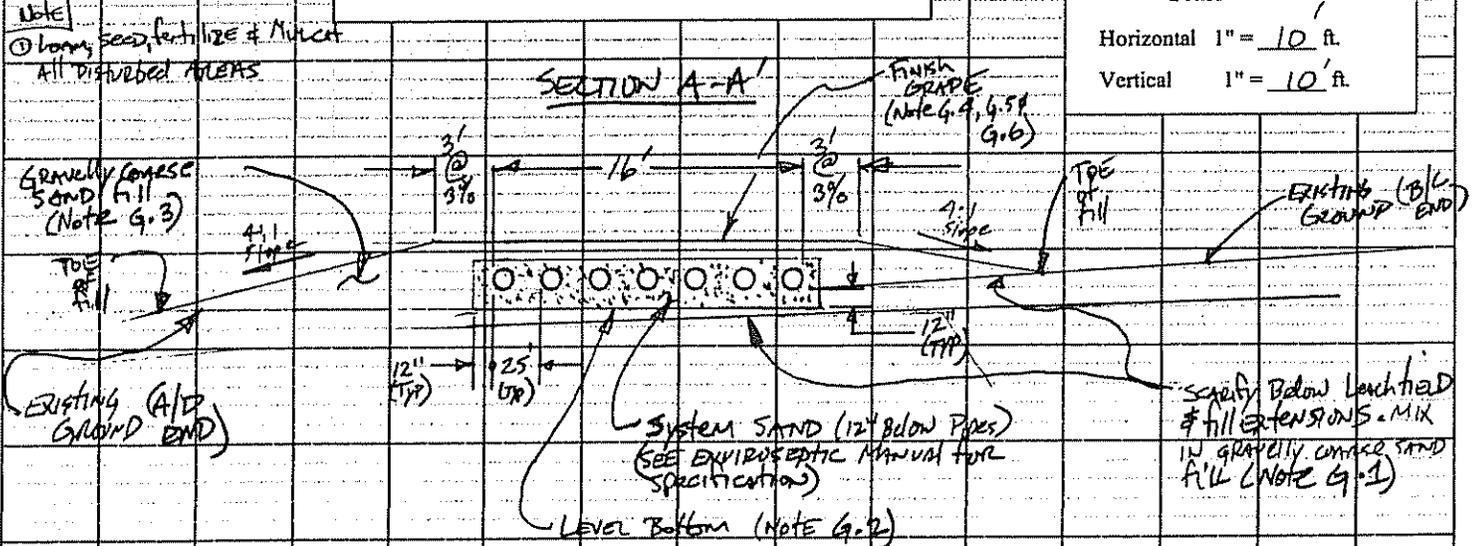
Reference Elevation: -0.0'

**DISPOSAL AREA CROSS SECTION**

Scale

Horizontal 1" = 10' ft.

Vertical 1" = 10' ft.



Charles W. Syme  
 Site Evaluator Signature

367  
 SE #

8/11/03  
 Date

REPLACEMENT SYSTEM VARIANCE REQUEST

**THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST**

This form shall be attached to an application (HHE-200) for the proposed replacement system which requires a variance to the Rules. The LPI shall review the Replacement System Variance Request an HHE-200 and may approve the Request if all of the following requirements can be met, and the variance(s) requested fall within the limits of LPI's authority.

1. The proposed design meets the definition of a Replacement System as defined in the Rules (Sec. 2006)
2. There will be no change in use of the structure except as authorized for one-time exempted expansions outside the shoreland zone of major waterbodies/courses.
3. The replacement system is determined by the Site Evaluator and LPI to be the most practical method to treat and dispose of the wastewater.
4. The BOD5 plus S.S. content of the wastewater is no greater than that of normal domestic effluent.

<b>GENERAL INFORMATION</b>		Town of <u>Augusta</u>
Permit No. <u>6205</u>		Date Permit Issued <u>8/21/08</u>
Property Owner's Name: <u>JAC ARBOUR</u>		Tel. No.: _____
System's Location: <u>16 BRANN AVE AUGUSTA, ME 04330</u>		
Property Owner's Address: <u>12 SYLVAN WAY CHELSEA, ME 04330</u>		
(if different from above) _____		

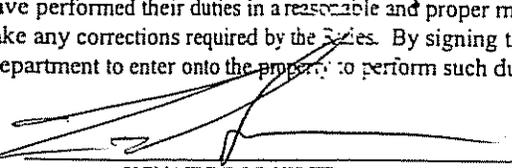
**SPECIFIC INSTRUCTIONS TO THE:**  
**LOCAL PLUMBING INSPECTOR (LPI):**  
 If any of the variances exceed your approval authority and/or do not meet all of the requirements listed under the Limitations Section above, then you are to send this Replacement System Variance Request, along with the Application, 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. Both the Site Evaluator and the LPI have considered the site/soil restrictions and have 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.

  
 \_\_\_\_\_  
 SIGNATURE OF OWNER

\_\_\_\_\_  
 DATE

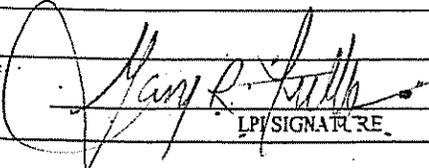
**LOCAL PLUMBING INSPECTOR**

I, Mary R. Smith, 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 (check and complete either a or b):

a. (  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. -OR-

b. find that one or more of the requested Variances exceeds my approval authority as LPI. I (  recommend,  do not recommend ) the Department's approval of the variances. Note: If the LPI does not recommend the Department's approval, the reasons shall be stated in Comments Section below as to why the proposed replacement system is not being recommended.

Comments: \_\_\_\_\_

  
 \_\_\_\_\_  
 LPI SIGNATURE

8/21/08  
 \_\_\_\_\_  
 DATE

HHE-204 Rev 10/02

**FORMS**

**Replacement System Variance Request**

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED TO:	
	Disposal Fields			Septic Tanks			Disposal Fields	Septic Tanks
SOILS								
Soil Profile	Ground Water Table			to 7"			7	inches
Soil Condition	Restrictive Layer			to 7"				inches
from HHE-200	Bedrock			to 12"				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 supply wells	300 ft [a]	300 ft [a]	300 ft [a]	100 ft [a]	100 ft [a]	100 ft [a]		
Owner's wells	100 down to 60 ft	200 down to 100 ft	300 down to 150 ft	100 down to 50 ft [b]	100 down to 50 ft	100 down to 50 ft		
Neighbor's wells	100 down to 60 ft [b]	200 down to 100 ft [b]	300 down to 180 ft [b]	100 down to 50 ft [b]	100 down to 75 ft [b]	100 down to 75 ft [b]		
Water supply line	10 ft [a]	25 ft [a]	25 ft [a]	10 ft [a]	10 ft [a]	10 ft [a]		
Water course, major - for replacements only, see Table 400.4 for major expansions	100 down to 60 ft	200 down to 100 ft	300 down to 180 ft	100 down to 50 ft	100 down to 50 ft	100 down to 50 ft		
Water course, minor	50 down to 25 ft	100 down to 50 ft	150 down to 75 ft	50 down to 25 ft	50 down to 25 ft	50 down to 25 ft		
Drainage ditches	25 down to 12 ft	50 down to 25 ft	75 down to 35 ft	25 down to 12 ft	25 down to 12 ft	25 down to 12 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	25 ft	25 ft	N/A	N/A	N/A		
No full basement [e.g. slab, frost wall, columns]	15 down to 7 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft		
Full basement [below grade foundation]	20 down to 10 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft		
Property lines	10 down to 5 ft [c]	15 down to 9 ft [c]	20 down to 10 ft [c]	10 down to 4 ft [c]	15 down to 7 ft [c]	20 down to 10 ft [c]		
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.] Single-family well setbacks may be reduced as prescribed in Section 701.2.

[b.] This distance may be reduced to 25 feet, if the septic or recycling tank is tested in the plumbing inspector's presence and shown to be watertight or of monolithic construction.

[c.] Additional setbacks may be needed to prevent fill material extensions from encroaching onto abutting property.

[d.] Additional setbacks may be required by local Shoreland zoning.

[e.] 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.

[f.] May not be any closer to neighbors well than the existing disposal field or septic tank unless written permission is granted by the neighbor. This setback may be reduced for single family houses with Department approval. See Section 702.3.

[g.] The fill extension shall reach the existing ground before the 3:1 slope or within 100 feet of the disposal field.

[h.] See Section 1402.10 for special procedures when these minimum setbacks cannot be achieved.

Charles H. Syma  
SITE EVALUATOR'S SIGNATURE

8/11/08  
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

**Design Notes** for Subsurface Wastewater Disposal System Application (Form HHE-200)

**Owner/Applicant:**

**NOTE:**

- A. Elevation Reference Point (ERP) location is described on page 3 of the HHE-200 form. It is to be used by the installer to place the bottom of the leachfield at the correct depth. Disposal area shall be no lower than indicated.
- B. Sewer Pipes: Use 3" diameter (minimum) approved, watertight materials, schedule 40 PVC pipe. Insulate as necessary to protect from freezing; bury at least 1' deep, seed disturbed area.
1. Building Sewer: For gravity flow from building to septic tank, maintain minimum pitch of 1/4"/ft. (1/8"/ft. allowed with LPI's approval if using 4" diameter pipe). The building sewer may not be smaller than the building drain.
  2. Effluent Line: For gravity flow below septic tank, maintain minimum pitch of 1/8"/ft. For pumped effluent, follow pump manufacturers specifications for pressurized effluent line.
- C. Pump Needed: Gravity flow to disposal area not feasible. Follow manufacturer instructions for pump specifications.
- D. Distribution Box (OPTIONAL): Serves as an access point to disposal area. Level box on a firm base, cover with insulation to protect from freezing.
- E. Septic Tank: Setback requirements must be met when installing a septic tank. Applicable setbacks are stated on the design. Further information on setbacks can be found in the Maine Subsurface Wastewater Disposal Rules, Tables 700.2, 700.3 and 700.4.
- F. Disposal Area: Setback requirements must be met when installing a disposal field. Applicable setbacks are stated on the design. Further information on setbacks can be found in the Maine Subsurface Wastewater Disposal Rules, Tables 700.2, 700.3 and 700.4.
- G. Disposal Area Construction Details:
1. The vegetation in the proposed disposal area and fill extensions shall be removed. The area shall then be scarified to a depth of 6 to 8 inches, parallel to the topographic contour. If the backfill material is coarser than the original soil, a minimum of 4 inches of backfill materials must be mixed into the original soil to form a transitional horizon.
  2. The disposal area bottom and distribution line shall be level with a maximum grade tolerance of 2in/100 ft.
  3. Backfill Standards: Backfill material shall be a coarse sand to a gravelly coarse sand meeting the following requirements: the upper limit of rocks greater than 3" in diameter shall be approx. 5% by volume, and the backfill shall contain approx. 15% - 20% (by weight) coarse fragments (gravel).

4. The finished grade of the backfill over the disposal area shall be crowned from the center of the disposal area at a 3% slope extending 3 ft. beyond the edge of the disposal field (shoulder). The fill shall then be sloped at a uniform grade of at least 4 horizontal feet per 1 vertical foot drop (fill extension) unless specified by variance. For further information, see Tables 600.2, 600.3 and 600.4 of the Maine Subsurface Wastewater Disposal Rules.
5. The land adjacent to the disposal area shall be graded to prevent both the accumulation of surface water on or next to the disposal field, and the flow of surface water across it. Cellar and roof drains must be diverted away from the disposal area.
6. The finished disposal area and fill extensions shall be immediately seeded or sodded to establish vegetation to prevent erosion. Grasses and herbaceous plant material are acceptable for use over disposal fields. Woody plant material (trees and shrubs) are not acceptable on the disposal field area but may be used with herbaceous plant materials in the fill extensions. See sections 806.4 of the Maine Subsurface Wastewater Disposal Rules for specifications.

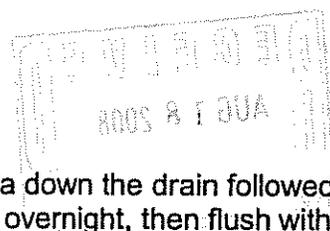
H. Bed or Trench Disposal Area Construction Details:

1. Disposal area stone depth shall extend at least 7" beneath the bottom and 1" above the top of the distribution pipes. Stone shall be washed before delivery to the site, uniform in size and free of fines, dust, clay or ashes. It shall be no smaller than 3/4" and no larger than 2 1/2" in size. See section 805.2 of the Maine Subsurface Wastewater Disposal Rules for stone requirements.
2. The disposal field stone shall be covered with a layer of filter fabric or 2" of compressed hay as the laying of the distribution pipes progresses. See section 805.3 of the Maine Subsurface Wastewater Disposal Rules for fabric requirements.
3. A minimum of 8" of backfill is required above the filter fabric or hay. This includes a cover material of 4" of soil/soil amendment mix suitable for the establishment of a good vegetative cover. See section 804.2 of the Maine Subsurface Wastewater Disposal Rules for cover requirements.

I. Chamber Disposal Area Construction Details: Install approved chambers in accordance with manufacturer specifications and Appendix B of the Maine Subsurface Wastewater Disposal Rules.

## SEPTIC SYSTEM USER NOTES

1. This septic system has been designed to meet requirements of the State of Maine Subsurface Wastewater Disposal Rules, 10-144A CMR 241. Because site evaluators are not notified when local ordinances are enacted which exceed state requirements, it is the septic system owners responsibility to ensure that this septic system design (HHE-200 form) is in compliance with applicable local ordinances. This can be done by contacting your local plumbing inspector and asking about local ordinances which differ from those required in the Rules.
2. It is the septic system owner's responsibility to obtain any local, state, or federal permit(s) that may be required for the installation of this septic system (work within or adjacent to a wetland may require a state and/or federal permit). Contact the Maine Department of Environmental Protection at 287-2111 and the Army Corps of Engineers at 623-8367 if you have any questions.
3. The use of a garbage grinder on a septic system is not recommended. Depending on use patterns, they can contribute a significant amount of particulate matter and grease to the system. Excessive use may result in premature failure. If a garbage grinder is to be used, additional septic tank capacity, a multi compartment septic tank is required, and/or more frequent septic tank pumping is recommended.
4. For new construction, it is recommended that the septic system owner install low volume toilets (1 1/2 gallons per flush or less) and other flow reducing fixtures such as low volume shower heads and faucets to minimize water consumption. A reduction in water usage will generally result in extended life of your septic system.
5. It is the septic system owner's responsibility to limit water consumption and wastewater generation so that the septic system design capacity (design flow on the HHE-200 form) is not exceeded on any day. Activities which generate large amounts of wastewater should be spread out over several days where possible. Excessive use of a septic system on any day can cause the system to fail even though your use, averaged over a week or month, is below design volume.
6. Do not connect floor or roof drains to a septic system. Your septic system is not designed to handle this water and it will likely cause premature failure.
7. Do not dispose of backwash from water softeners or water treatment devices in your septic system. Large amounts of water can be generated from these devices which can overload a septic system.
8. Do not dispose of any hazardous or toxic substances in a septic system such as paint thinner, paints, varnishes, photographic solutions, pesticides, insecticides, organic solvents or degreasers and drain openers. Septic systems depend on living organisms to function properly. Toxic or hazardous material can, in effect, "kill" the system and are a threat to pollution of surface or groundwater resources. Instead of using a commercial degreaser or drain opener, which can be toxic, use one of the following:
  - A. A plunger or mechanical snake; or
  - B. Pour one handful of baking soda and 1/2 cup of white vinegar down the drainpipe and cover tightly for one minute. Repeat as necessary; or



C. Pour 1/2 cup salt and 1/2 cup baking soda down the drain followed by 6 cups of boiling water. Let sit for several hours or overnight, then flush with water.

9. Do not dispose of any inert or non-biodegradable substances into your septic system such as disposable diapers, cat box litter, coffee grounds, cigarette filters, sanitary napkins, facial tissues and wet strength paper towels.
10. Do not dispose of large quantities of fats or grease into your septic system unless an external grease trap has been designed for that purpose. Generally, an internal grease trap is inadequate to handle excessive amounts of grease or fat.
11. Do not add any septic tank cleaner or additive to your septic system to improve its function or prolong its useful operating life (this includes yeast, horse manure or commercial products). No effective product or material is recognized by State authorities and, in fact, some of these products can actually cause your septic system to fail.
12. Maintain your septic system by regularly having the septic tank pumped. Some biological breakdown of solids and grease occurs in septic tanks but the rate of accumulation virtually always exceeds the rate of biologic breakdown. If your septic tank is not pumped out often enough, solids and greases may build up to the point where they enter your disposal areas. Once this material reaches the disposal area, it will clog the soil surface and likely cause premature failure.
13. We recommend having your septic tank pumped or inspected after one year of use. The pumper can advise you of how often you need to have the septic tank pumped based on what he finds at this inspection (typically a septic tank will need to be pumped every two to five years). Keep in mind that you will need to adjust pumping frequency to coincide with changes in the way you use your system. The more your septic system is used, the more frequently that the septic tank should be pumped.
14. Do not drive over or store heavy materials on any part of your septic system unless it is specifically designed to handle heavy loads. Otherwise, crushed components may be the result and the system may fail.
15. Divert all surface water away from the septic tank and disposal area. Roof areas which contribute runoff water to the septic system site should have gutters installed to divert that water to another location.
16. PLEASE – If you have any questions about your septic system or how to use it, call me at 44-0001 (~~628-8600~~). You can also call the State Agency responsible for regulating septic systems, the plumbing program in the Division of Health Engineering, at 287-5689.