

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, Station 10
(207) 287-5672 FAX (207) 287-4172

PROPERTY LOCATION

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

City, Town, or Plantation: Augusta
Street or Road: 67 Young Road
Subdivision, Lot #: _____

AUGUSTA Date Permit Issued: 5/17/00 4405 TOWN ID: 808 If Double Fee Charged
L.P.I. # 1850
Local Plumbing Inspector Signature: [Signature]

OWNER/APPLICANT INFORMATION

Name (last, first, MI): Poore, John Owner Applicant
Mailing Address of Owner Applicant: 17 Misty Drive Windham, ME 04062
Daytime Tel. #: 626-8531

Municipal Tax Map # 72 Lot # 11

Owner/Applicant Statement

I state that the information submitted is correct to the best of my knowledge, that I have read and agree with the conditions on the back of this form and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.
Signature of Owner/Applicant: [Signature] Date: 5/5/00

Caution: Inspections Required

I have inspected the installation authorized above and on back of this form and found it to be in compliance with the Subsurface Wastewater Disposal Rules and local ordinances.
Local Plumbing Inspector Signature: [Signature] (1st) Date Approved: 7/14/00
(2nd) Date Approved: 7/5/00

PERMIT INFORMATION

TYPE OF APPLICATION 1. <input type="checkbox"/> First Time System 2. <input checked="" type="checkbox"/> Replacement System Type Replaced: <u>Stone bed</u> Year Installed: <u>1960's</u> 3. <input type="checkbox"/> Expanded System a. <input type="checkbox"/> One-time exempted b. <input type="checkbox"/> Non-exempted 4. <input type="checkbox"/> Experimental System <input type="checkbox"/> Seasonal Conversion	THIS APPLICATION REQUIRES 1. <input type="checkbox"/> No Rule Variance 2. <input type="checkbox"/> First Time System Variance a. <input type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 3. Replacement System Variance a. <input type="checkbox"/> Local Plumbing Inspector approval b. <input checked="" type="checkbox"/> State & Local Plumbing Inspector approval 5. <input type="checkbox"/> Minimum Lot Size Variance 6. <input type="checkbox"/> Seasonal Conversion Variance	DISPOSAL SYSTEM COMPONENT(S) 1. <input checked="" type="checkbox"/> Complete non-Engineered System 2. <input type="checkbox"/> Primitive System (graywater & alt toilet) 3. <input type="checkbox"/> Alternative Toilet, specify: _____ 4. <input type="checkbox"/> Non-Engineered Treatment Tank (only) 5. <input type="checkbox"/> Holding Tank, _____ gallons 6. <input type="checkbox"/> Non-Engineered Disposal Field (only) 7. <input type="checkbox"/> Separated Laundry System 8. <input type="checkbox"/> Complete Engineered System (+2000 gpd) 9. <input type="checkbox"/> Engineered Treatment Tank (only) 10. <input type="checkbox"/> Engineered Disposal Field (only) 11. <input type="checkbox"/> Pre-treatment, specify: _____ 12. <input type="checkbox"/> Miscellaneous components
SIZE OF PROPERTY <input type="checkbox"/> sq. ft. 1 <input checked="" type="checkbox"/> acres	DISPOSAL SYSTEM TO SERVE: 1. <input checked="" type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: <u>1</u> 2. <input type="checkbox"/> Multiple Family Dwelling, No. of Units: _____ 3. <input type="checkbox"/> Other: _____ specify _____	TYPE OF WATER SUPPLY 1. <input checked="" type="checkbox"/> Drilled Well 2. <input type="checkbox"/> Dug Well 3. <input type="checkbox"/> Private 4. <input type="checkbox"/> Public 5. <input type="checkbox"/> Other: _____
SHORELAND ZONING <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK 1. <input checked="" type="checkbox"/> Concrete <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Low Profile 2. <input type="checkbox"/> Plastic 3. <input type="checkbox"/> Other: _____ CAPACITY: <u>750</u> Gallons	DISPOSAL AREA TYPE/SIZE 1. <input type="checkbox"/> Stone Bed 2. <input type="checkbox"/> Stone Trench 3. <input checked="" type="checkbox"/> Proprietary Device <input checked="" type="checkbox"/> Cluster array <input type="checkbox"/> Linear <input checked="" type="checkbox"/> Regular load <input type="checkbox"/> H-20 load 4. <input type="checkbox"/> Other: _____ SIZE: <u>594</u> <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft.	GARBAGE DISPOSAL UNIT 1. <input type="checkbox"/> No 3. <input checked="" type="checkbox"/> Maybe 2. <input type="checkbox"/> Yes >> (specify one below): <input type="checkbox"/> Multi-compartment tank <input type="checkbox"/> Tanks in series <input type="checkbox"/> Increase in tank capacity <input type="checkbox"/> Filter on tank outlet	DESIGN FLOW <u>180</u> gallons per day BASED ON: 1. <input checked="" type="checkbox"/> Table 501.1 (dwelling unit(s)) 2. <input type="checkbox"/> Table 501.2 (other facilities) SHOW CALCULATIONS --for other facilities-- 1 bedroom dwelling
SOIL DATA & DESIGN CLASS PROFILE CONDITION DESIGN <u>7 / E / 7E</u> at Observation Hole # <u>TP</u> Depth: <u>4"</u> Elevation: <u>n/a</u> OF MOST LIMITING SOIL FACTOR	DISPOSAL FIELD SIZING 1. <input type="checkbox"/> Small 2.0 sq. ft./gpd. 2. <input type="checkbox"/> Medium 2.6 sq. ft./gpd. 3. <input checked="" type="checkbox"/> Medium Large 3.3 sq. ft./gpd. 4. <input type="checkbox"/> Large 4.1 sq. ft./gpd. 5. <input type="checkbox"/> Extra-Large 5.0 sq. ft./gpd.	PUMPING 1. <input type="checkbox"/> Not required 2. <input type="checkbox"/> May be required 3. <input checked="" type="checkbox"/> Required >> Specify only for engineered or experimental systems Dose _____ Gallons	

SITE EVALUATOR STATEMENT

I Certify that on April 29, 2000 (date) I completed a site evaluation on this project and state that the data reported is accurate and 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).

Kane P. Coffin
Kane P. Coffin, an agent of Coffin Engineering & Surveying

SE #331
Licensed Site Evaluator

April 30, 2000
Date

Coffin Engineering & Surveying
(207) 623-9475

RR 7, Box 887A
Augusta, Maine 04330

See back of this form for conditions of permit

pd 5-17

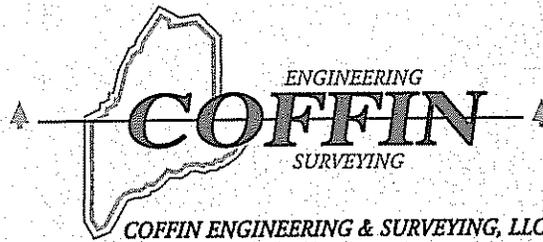
ATTACHMENT FOR HHE-200 FORM

1. The OWNER/APPLICANT, by signing the front of this form, agrees to provide payment for services rendered as quoted and billed by COFFIN ENGINEERING & SURVEYING (CE&S). Payment on all billings are due within 30 days of billing date, otherwise a late charge of 1.5% per month (18% per year), simple interest, will be added to the total amount. In the event that any portion, or all of the final billing, remains unpaid for a period of 60 days, the OWNER/APPLICANT shall pay all costs of collection, including actual attorney's fees, court costs, CE&S's cost to collect bill. PLEASE NOTE THAT THE PERSON SIGNING THIS FORM UNDER OWNER/APPLICANT IS RESPONSIBLE FOR PAYMENT OF SERVICES AND SHOULD CONTACT CE&S IF HE/SHE HAS NOT RECEIVED A BILL.
2. All construction shall conform with Title 22 MRSA, §42, 10-144A CMR 241 "Maine-Subsurface Waste Water Disposal Rules," and all other pertinent sections. The OWNER/APPLICANT is responsible for the contractor installing the proposed septic system correctly and for obtaining all necessary permits. The OWNER/APPLICANT shall carefully examine all documents submitted by CE&S and promptly notify CE&S upon becoming aware of any defects. The OWNER/APPLICANT agrees to limit the liability of the site evaluator and/or CE&S to the amount of the total fee paid to CE&S.
3. This disposal system form shall not be transferable and becomes invalid if the authorized work has not commenced within two years after the issue date of the disposal system.
4. The OWNER/APPLICANT shall accurately describe the intended uses (present and future) for the system to the site evaluator. By signing the front of this form, the OWNER/APPLICANT agrees that the uses shown on said form is what was described to the site evaluator. Any change from the intended use described on this form requires a new design. Applicability of design must be reevaluated when location of structures are substantially different than those shown on the site plan or when other structures, additions, or appurtenances (i.e. swimming pools, garbage disposals) are considered. Property lines shown are as provided by the owner, or his agent and no guarantee of accuracy is implied. Actual property lines must be confirmed by a boundary survey.

INSTALLATION REQUIREMENTS

1. SETBACKS (under 1000 gpd) - Keep tank and leach fields 100 feet from wells, 50 feet from minor water courses, 100 feet from major water courses, and 10 feet from property lines, unless noted elsewhere on the forms. Septic tanks shall be a minimum of 8 feet from buildings and leach fields shall be 20 feet from buildings with basements and 15 feet from buildings with no full basement.
2. DRAINAGE - water runoff and drainage from basements, footings, or roofs shall not drain into the septic system and shall be diverted away from the disposal field.
3. DISCHARGE - hot tubs shall not discharge into any disposal system utilized for any other waste water, but may be discharged into a separate laundry disposal field. No paint, paint thinner, commercial grease and oil, darkroom chemicals, etc. shall be disposed of in the disposal field.
4. CONDITIONS - excavations shall not be carried out when the soil moisture content is above the plastic limit. Disposal fields should not be installed in frozen ground or when the ambient air temperature is below freezing.
5. SITE PREPARATION - prior to placing backfill material, the vegetation shall be cut and removed. In areas adjacent to water bodies or wetland, erosion and sediment control measures shall be employed. The area under the disposal field and backfill extensions shall be plowed or disked to produce a thoroughly roughened surface to a depth of 6 to 8 inches. Surface water shall be diverted away from the disposal field.
6. EXCAVATION - the bottom of the each disposal field shall be installed at the elevation specified on this form. Avoid compaction of both sidewalls and bottom area. Make sure heavy equipment is not driven over the exposed bottom of the disposal field. If any portion of the bottom or sidewalls becomes smeared or compacted, that portion must be scarified to reopen soil pores.
7. BACKFILLING - At least 4 inches of cover material, suitable for establishment of a good vegetative cover shall be placed over the entire filled area including the fill material extensions. Backfill material shall be a minimum of 8 inches in thickness and consist of a coarse sand to a gravelly coarse sand. Final grading shall be completed so that surface water will not collect over the disposal field. Immediately after completion of final grading, the fill material surface shall be stabilized by mulching and seeding to establish a good vegetative cover to prevent erosion. Grass, clover, trefoil, vetch, perennial wild flowers, or other herbaceous perennials may be utilized for disposal field surfaces. Woody shrubs or trees are unacceptable on disposal field surfaces.
8. SEPTIC TANK - The septic tank must be installed level and all joints, inspection covers, etc. must be water tight (the same is necessary for a pump tank if the system requires one). The outlet invert elevation should be equal to or higher than the finish grade of the septic field to avoid flooding of the tank and solids entering the field. Install a Zabel Industries, Inc. filter or equivalent on the outlet end of the septic tank when possible. Provide low profile septic tank when determined as necessary in the field. Septic tanks should be pumped out and checked every three years or more often to prolong the life of the waste water system.
9. FREEZING - Protect tanks, force mains, pump stations, D-boxes, etc. from freezing by either adequate ground cover or insulation.
10. The LPI shall inform the owner and designer of any local ordinance exceeding the Rules (Chapter 241) prior to issuing a permit, so that the application may be properly amended to conform to such ordinances.

Cony Road
P.O. Box 4687
Augusta, ME 04330-1687
(207) 523-9475
FAX (207) 623-0016
1-800-244-9475



27 Washington Street
P.O. Box 1031
Camden, ME 04843-1031
(207) 236-4365
FAX (207) 236-3055
1-888-282-4365

**TO ACCOMPANY THE HHE-200 FORM FOR THE JOHN POORE
PROPERTY IN THE CITY OF AUGUSTA**

The proposed replacement septic system is located on the easterly side of the Young Road, approximately 0.4 of a mile from the Weeks Mills Road. The property is located within the shoreland zone of Togus Pond. Drinking water is from a drilled well (depth of 160 feet and sealed to a depth of 90 feet). The neighbor to the south uses lake water and the leach field appears to slope down to the common property line with the subject parcel.

The design flow for the replacement system is 180 gallons per day for a one bedroom single family dwelling (design is for 2 bedrooms). No construction is proposed as this is not a seasonal conversion.

The site contains an existing septic tank with an apparent malfunctioning stone bed, located within 30 feet of Togus Pond. The soil is comprised of glacial till over a marine deposit. It has a high water table at four inches from the surface. The existing stone bed appears to be set below the water table.

The proposed replacement system is to consist of a new lift station that connects with a new 750 or 1000 gallon septic tank/lift station.

The replacement disposal area is to be comprised of 4 rows of 5 plastic chambers (low-profile biodiffusers or standard infiltrators). This disposal area is to be 56 feet from the apparent high water line of Togus Pond and 51 feet from the owner's well. The fill extensions will need to be bermed in places (near the property lines and buildings) as shown on the plan.

The system will be over designed so the effluent should not exit the retaining walls. This design appears to be the best solution for the constraining factors of this site without going to exotic systems that the local contractors are not familiar with.

Respectfully submitted,

Kane P. Coffin, SE 331

REPLACEMENT SYSTEM VARIANCE REQUEST

FORMS

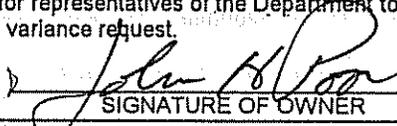
THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

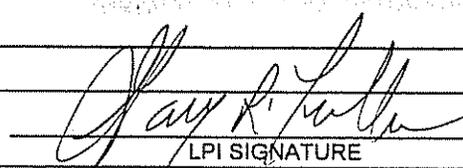
This form shall be attached to an application (HHE-200) for the proposed replacement system which requires a variance to the Rules. The LPI shall review the Replacement System Variance Request an HHE-200 and may approve the Request if all of the following requirements can be met, and the variance(s) 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. 1903)
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.

GENERAL INFORMATION		Town of _____
Permit No. <u>2405</u>		Date Permit Issued <u>5/17/00</u>
Property Owner's Name: _____		Tel. No.: _____
System's Location: _____		
Property Owner's Address: _____		
(if different from above) _____		

<p>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.)</p> <p>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.</p> <p>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.</p>
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<p>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.</p> <p style="text-align: center;">  _____ SIGNATURE OF OWNER </p> <p style="text-align: right;"> <u>5/15/00</u> _____ DATE </p>

<p>LOCAL PLUMBING INSPECTOR I, <u>Clay R. Fuller</u>, 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):</p> <p><input type="checkbox"/> a. (<input type="checkbox"/> approve, <input type="checkbox"/> 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-</p> <p><input checked="" type="checkbox"/> b. find that one or more of the requested Variances exceeds my approval authority as LPI. I (<input checked="" type="checkbox"/> recommend, <input type="checkbox"/> do not recommend) the Department's approval of the variances. Note: If the LPI does not recommend the Department's approval, she shall state his reasons in Comments Section below as to why the proposed replacement system is not being recommended.</p> <p>Comments: _____</p> <p style="text-align: center;">  _____ LPI SIGNATURE </p> <p style="text-align: right;"> <u>5/17/00</u> _____ DATE </p>
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HHE-204 Rev 3/97

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"			4 Inch	
Soil Condition	Restrictive Layer			to 7"			Inches	
from HHE-200	Bedrock			to 12"			Inches	
SETBACK DISTANCES (in feet)								
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 ^a ft	300 ^a ft	300 ^a ft	100 ^a ft	100 ^a ft	100 ^a ft		
Owner's wells	100 down to 50 ft	200 down to 100 ft	300 down to 150 ft	100 ^b down to 50 ft	100 down to 50 ft	100 down to 50 ft	31'	80'
Neighbor's wells	100 ^b down to 60 ft	200 ^b down to 120 ft	300 ^b down to 180 ft	100 ^b down to 50 ft	100 ^b down to 75 ft	100 ^b down to 75 ft		
Water supply line	10 ft ^a	20 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 exempted expansions	100 down to 60 ft	200 down to 120 ft	300 down to 180 ft	100 down to 50 ft	100 down to 50 ft	100 down to 50 ft	56'	40'
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	18 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	11'6"	
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 ^c ft	18 down to 9 ^c ft	20 down to 10 ^c ft	10 down to 4 ^c ft	15 down to 7 ^c ft	20 down to 10 ^c ft		
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 + retaining walls needed by Property line + buildings

2.

3.

- Footnotes:
- a. This setback distance cannot be reduced by the LPI, but may be considered for reduction by State variance.
 - b. Written Permission from the owner of a well is required when a replacement system will be located less than 100 (200 ft. for 1000-2000 gpd or 300 ft. for over 2000 gpd) feet and closer to that well than the system it is replacing.
 - c. Sufficient distance shall be maintained to assure that the toe of the fill does not extend to the 3:1 slope or property line.
 - d. Natural Resources Protection Act requires a 25 foot setback on slopes with less than 20% from the edge of disturbance and 100 feet on slopes greater than 20% except for the repair or installation of a replacement system when no practical alternative exists.

James P. Coffin

SITE EVALUATOR'S SIGNATURE

4-30-00

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

Department of Human Services
Division of Health Engineering
(207) 287-3672 FAX (207) 267-4172

Town, City, Plantation
Augusta

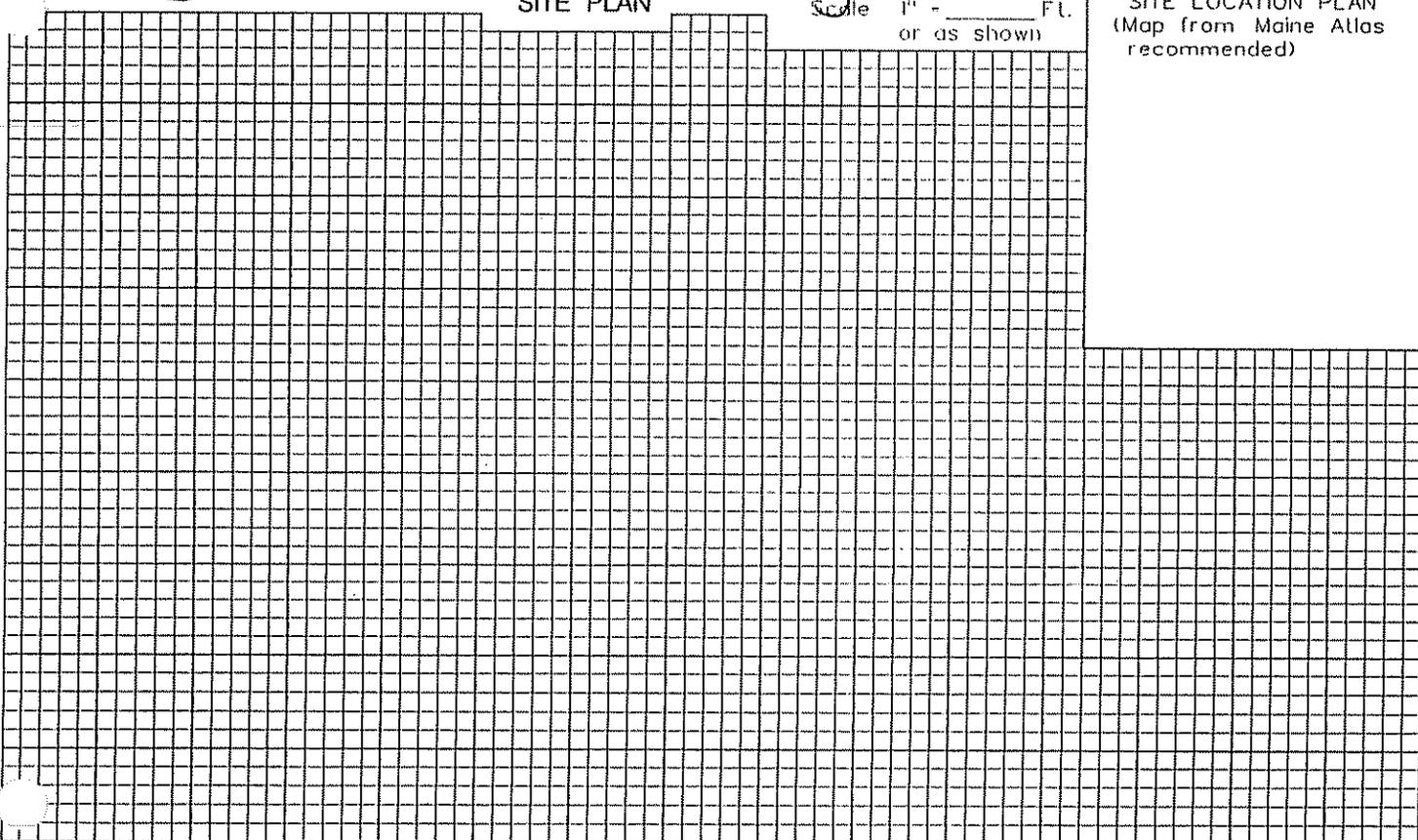
Street, Road Subdivision
CeT Young Rd

Owner's Name
John Foore

SITE PLAN

Scale 1" = _____ Ft.
or as shown

SITE LOCATION PLAN
(Map from Maine Atlas
recommended)



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

Observation Hole TP Test Pit Boring
0" Depth of Organic Horizon Above Mineral Soil

Observation Hole _____ Test Pit Boring
_____ " Depth of Organic Horizon Above Mineral Soil

	Texture	Consistency	Color	Mottling
0	Gravelly Sandy loam	friable	dk brown	nom
10			lt. olive brown	common distinct
10	fine sandy loam		dk/yel br	
20	silty clay loam	firm	yellow brown	
30			gray	
40				
50				

	Texture	Consistency	Color	Mottling
0				
10				
20				
30				
40				
50				

Soil Classification <u>T</u> Profile <u>R</u> Condition	Slope <u>7</u> %	Limiting Factor <u>4</u> "	<input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
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Soil Classification _____ Profile _____ Condition	Slope _____ %	Limiting Factor _____ "	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
---	------------------	----------------------------	---

Kane P. Coffin
Site Evaluator Signature

331
SE

4-30-00
Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

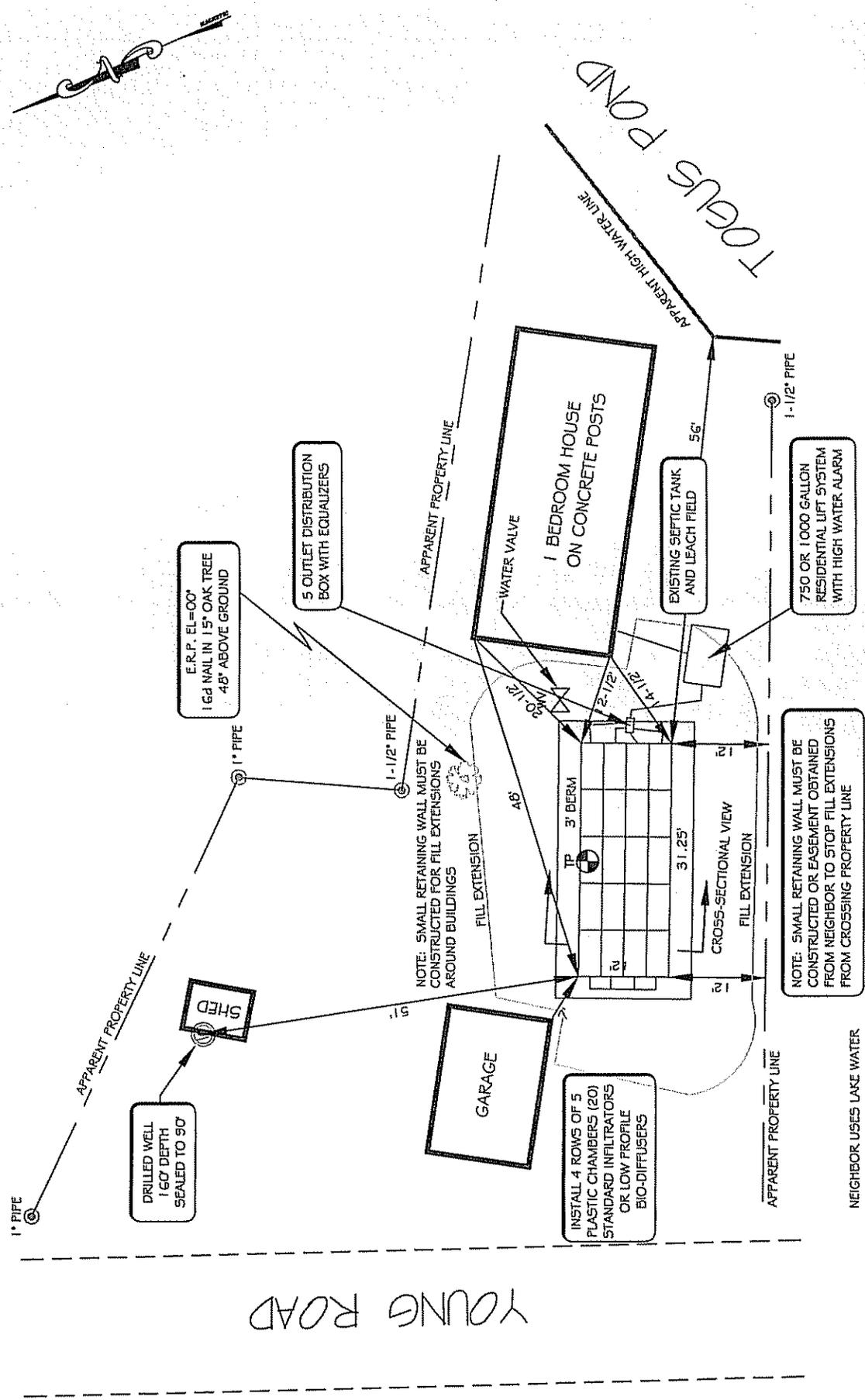
Town, City, Plantation
AUGUSTA

Street, Road, Subdivision
67 YOUNG ROAD

Owner's Name
JOHN POORE

SITE PLAN

SCALE: 1 inch = 20 feet



HHE-200

Date: 4/30/00

SE # 331

Site Evaluator's Signature *Kevin F. Coffey*

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

Augusta

67 Young Road

John Poore

FILL REQUIREMENTS
Depth of Fill (Upslope) 42-52"
Depth of Fill (Downslope) 52-54"

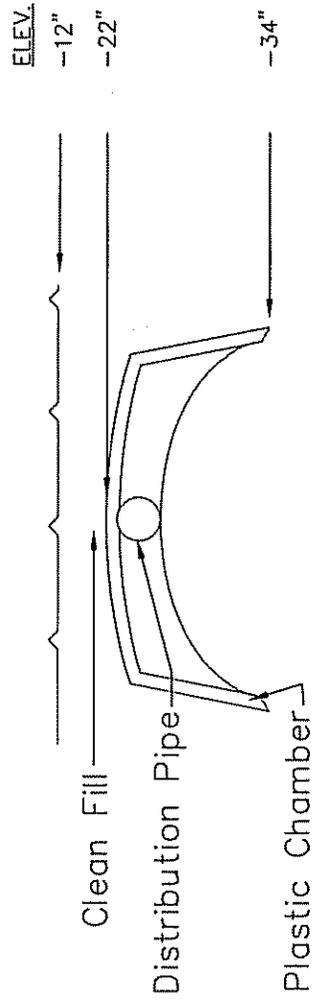
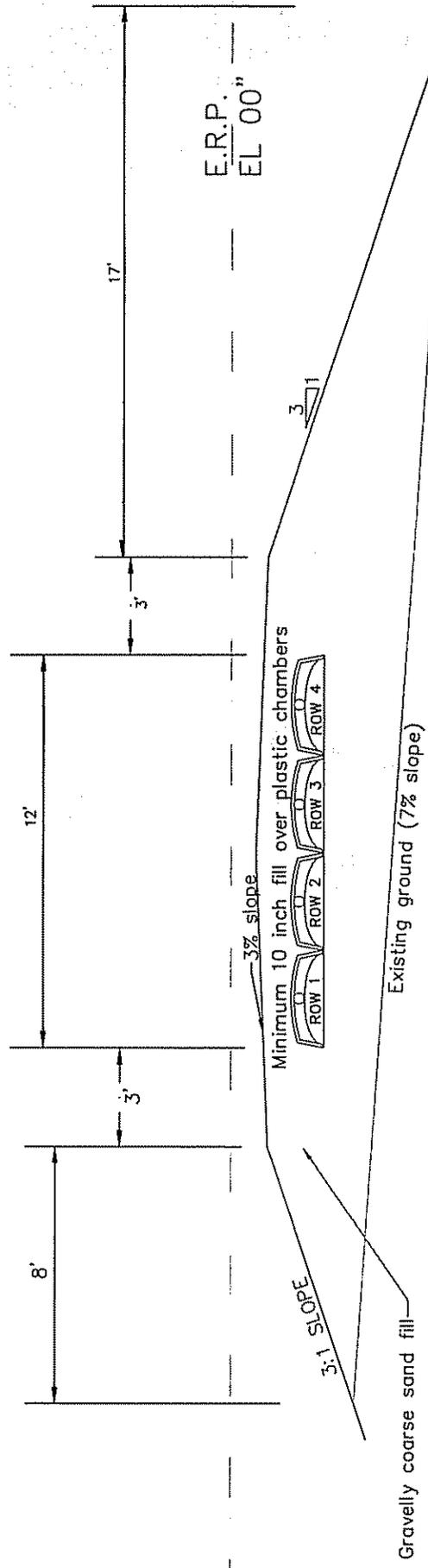
CONSTRUCTION ELEVATIONS

Reference Elevation is 00"
Bottom of Disposal Area -34"
Top of Chambers -22"

ELEV. REF. PT:
16d nail in 15" Oak Tree
48" above ground (southeast side)

SCALE:
Vertical: 1 inch = 5 feet
Horizontal: 1 inch = 5 feet

DISPOSAL AREA CROSS SECTION



Remove vegetation and roto-till gravely sand fill into original soil to a depth of 6-8 inches.

INSTALL 20 PLASTIC CHAMBERS (CLUSTERED)

Use low-profile biodiffusers or standard infiltrators

DETAIL (no scale)

Site Evaluator's Signature *Kane F. Coffin* SE # 331

Date: 04/30/00

HHE-200



STATE OF MAINE
 DEPARTMENT OF HUMAN SERVICES
 DIVISION OF HEALTH ENGINEERING
 10 STATE HOUSE STATION
 AUGUSTA, MAINE
 04333-0010

RECEIVED

MAY 17 2000

ANGUS S. KING, JR.
 GOVERNOR

KEVIN W. CONCANNON
 COMMISSIONER

May 15, 2000

John Poore
 17 Misty Drive
 Windham ME 04062

Subject: Approval, Replacement System Variance Request, Poore property, Young Road, Togus Pond, Augusta

Dear Mr. Poore:

The Division has reviewed a Replacement System Variance Request for the subject property. The state variances requested are to allow the installation of a subsurface wastewater disposal system in soils with four inches to the ground water table, 40 feet (septic tank) to a major watercourse, and with a reduction in the fill extension grade to 3:1 with the construction of low retaining walls at the property line and buildings to retain the fill material. The system design prepared by Kane Coffin, SE, dated 4-30-00, is found to be in compliance with the Maine Subsurface Wastewater Disposal Rules.

We approve the requested variances with the following requirements:

1. A permit for system installation is to be obtained from the Local Plumbing Inspector in advance of the start of system construction.
2. The system is to be installed in accordance with the submitted and approved system design. Should alterations be required at the time of system installation, the system designer must be notified prior to making any changes.
3. The site evaluator should be retained to assist in establishing the retaining walls such as to attain adequate retention of the fill material.
4. The variance approval is based only on the rules administered by this department. The approval of the variance request does not relieve the property owner from compliance with all other state and local requirements pertaining to the installation, use, and operation of the wastewater disposal system.

By accepting this approval and the associated plumbing permit, the owner agrees to comply fully with the conditions of approval and the Subsurface Wastewater Disposal Rules.

Because installation and owner maintenance has a significant effect on the working order of onsite sewage disposal systems, including their components, the Division makes no representation or guarantee as to the efficiency and/or operation of the system.

Should you or others have any questions regarding this review and/or approval, please feel free to contact me at 287-5687.

Sincerely,

Linda S. Robinson

Linda S. Robinson
 Wastewater & Plumbing Control Program
 Division of Health Engineering
 e-mail: linda.robinson@state.me.us

/lsr

cc: Gary Fuller, LPI
 Kane Coffin, SE

PRINTED ON RECYCLED PAPER

REPLACEMENT SYSTEM VARIANCE REQUEST

FORMS

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. 1903)
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.

GENERAL INFORMATION
Town of Augusta
Permit No.
Date Permit Issued
Property Owner's Name: John P. Pope Tel. No.: 626-8531
System's Location: Young Rd. Tobias Pond
Property Owner's Address: 17 Misty Drive
(if different from above) Windham, Me. 04092

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.
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.
Signature: John P. Pope
Date: 5/5/00

LOCAL PLUMBING INSPECTOR
I, [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.
a. [] approve, [] disapprove the variance request based on my authority to grant this variance.
b. find that one or more of the requested Variances exceeds my approval authority as LPI.
Signature: [Signature]
Date: 5/8/00

HHE-204 Rev 3/97

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"			4 Inches	
Soil Condition	Restrictive Layer			to 7"			Inches	
from HHE-200	Bedrock			to 12"			Inches	
SETBACK DISTANCES (In feet)							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 ^a ft	300 ^a ft	300 ^a ft	100 ^d ft	100 ^d ft	100 ^d ft		
Owner's wells	100 down to 50 ft	200 down to 100 ft	300 down to 150 ft	100 ^d down to 50 ft	100 down to 50 ft	100 down to 50 ft	51'	80'
Neighbor's wells	100 ^d down to 60 ft	200 ^b down to 120 ft	300 ^b down to 180 ft	100 ^d down to 50 ft	100 ^d down to 75 ft	100 ^d down to 75 ft		
Water supply line	10 ft ^a	20 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 exempted expansions	100 down to 60 ft	200 down to 120 ft	300 down to 180 ft	100 down to 50 ft	100 down to 50 ft	100 down to 50 ft	56'	40'
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	18 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	11'6"	
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 ^c ft	18 down to 9 ^c ft	20 down to 10 ^c ft	10 down to 4 ^c ft	15 down to 7 ^c ft	20 down to 10 ^c ft		
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 + retaining walls needed by Property line + building
- 2.
- 3.

Footnotes: a. This setback distance cannot be reduced by the LPI, but may be considered for reduction by State variance.
 b. Written Permission from the owner of a well is required when a replacement system will be located less than 100 (200 ft. for 1000-2000 gpd or 300 ft. for over 2000 gpd) feet and closer to that well than the system it is replacing.
 c. Sufficient distance shall be maintained to assure that the toe of the fill does not extend to the 3:1 slope or property line.
 d. Natural Resources Protection Act requires a 25 foot setback on slopes with less than 20% from the edge of disturbance and 100 feet on slopes greater than 20% except for the repair or installation of a replacement system when no practical alternative exists.

Kane P. Coffin
 SITE EVALUATOR'S SIGNATURE

4-30-00
 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.

Linda S. Robinson
 SIGNATURE OF THE DEPARTMENT

5-15-00
 DATE