

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Health Services
Division of Health Engineering
(207)269-3626

PROPERTY ADDRESS

Town Or Plantation: BOWDOINHAM

Street Subdivision Lot #: SCHOOL ST

PROPERTY OWNERS NAME

Last: DURRELL First: STANLEY

Applicant Name: _____

Mailing Address of Owner/Applicant (if Different): SCHOOL ST., BOX 27 BOWDOINHAM, ME 04008

BOWDOINHAM PERMIT # 970 STATE COPY

Date Permit Issued: 6/2/95 \$ 160 Double Fee Charged

Robert Mayo L.P.I. # 984

Local Plumbing Inspector Signature

Owner/Applicant Statement

I certify that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Local Plumbing Inspector to deny a Permit.

Signature of Owner/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.

Local Plumbing Inspector Signature _____ Date Approved _____

PERMIT INFORMATION

THIS APPLICATION IS FOR:

- NEW SYSTEM
- REPLACEMENT SYSTEM
- EXPANDED SYSTEM
- EXPERIMENTAL SYSTEM

SEASONAL CONVERSION

to be completed by the LPI N/A

- SYSTEM COMPLIES WITH RULES
- CONNECTED TO SANITARY SEWER
- SYSTEM INSTALLED - P# _____
- SYSTEM DESIGN RECORDED AND ATTACHED

THIS APPLICATION REQUIRES:

- NO RULE VARIANCE
Attach New System Variance Form
- NEW SYSTEM VARIANCE
Attach New System Variance Form
- REPLACEMENT SYSTEM VARIANCE
Attach Replacement System Variance Form
- MINIMUM LOT SIZE VARIANCE

a. Requiring Local Plumbing Inspector Approval

b. Requires State and Local Plumbing Inspector Approval

INSTALLATION IS:

COMPLETE SYSTEM

- NON-ENGINEERED SYSTEM
- PRIMITIVE SYSTEM
(Includes Alternative Toilet)
- ENGINEERED (+ 2000 gpd)

INDIVIDUALLY INSTALLED COMPONENTS:

- TREATMENT TANK (ONLY)
- HOLDING TANK _____ GAL
- ALTERNATIVE TOILET (ONLY)
- NON-ENGINEERED DISPOSAL AREA (ONLY)
- ENGINEERED DISPOSAL AREA (ONLY)
- SEPARATED LAUNDRY SYSTEM

IF REPLACEMENT SYSTEM:

YEAR FAILING SYSTEM INSTALLED ?

THE FAILING SYSTEM IS:

- BED
- CHAMBER
- TRENCH
- OTHER: _____

DISPOSAL SYSTEM TO SERVE:

- SINGLE FAMILY DWELLING
- MODULAR OR MOBILE HOME
- MULTIPLE FAMILY DWELLING
- OTHER _____

SPECIFY _____

SIZE OF PROPERTY 9,000 sq. ft.

ZONING _____

TYPE OF WATER SUPPLY

TOWN WATER

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

- SEPTIC: Regular Low Profile
- AEROBIC

EXISTING

SIZE: 1,000 GALS.

WATER CONSERVATION

- NONE
- LOW VOLUME TOILET
- SEPARATED LAUNDRY SYSTEM
- ALTERNATIVE TOILET

SPECIFY: _____

PUMPING

- NOT REQUIRED
- MAY BE REQUIRED
(DEPENDING ON TREATMENT TANK LOCATION AND ELEVATION)
- REQUIRED

DOSE: _____ GALS.

CRITERIA USED FOR DESIGN FLOW (BEDROOMS, SEATING, EMPLOYEES, WATER RECORDS, ETC.)

4 BEDROOM

360 GPD x .8 = 288 GPD

Reduction for Laundry syst.

DESIGN FLOW: 460

75 (GALLONS/DAY)

SOIL CONDITIONS USED FOR DESIGN PURPOSES

PROFILE	CONDITION
<u>5</u>	<u>B</u>

DEPTH TO LIMITING FACTOR: _____

SIZE RATINGS USED FOR DESIGN PURPOSES

- SMALL
- MEDIUM
- MEDIUM-LARGE
- LARGE
- EXTRA LARGE

DISPOSAL AREA TYPE/SIZE

- BED 600 Sq. Ft.
- CHAMBER 450 Sq. Ft.
 REGULAR H-20
- TRENCH _____ Linear Ft.
- OTHER: _____

SITE EVALUATOR STATEMENT

On 5/8/89 (date) I conducted a site evaluation for this project and certify that the data reported is accurate. The system I propose is in accordance with the Subsurface Wastewater Disposal Rules.

Albert J. Richards
Site Evaluator Signature

153
SE#

Rev. 6/10/95 aaR
5/12/89
Date

(Local Plumbing Inspector's Signature if permit is for Seasonal Conversion.)

BOWDOINHAM

SCHOOL ST.
SITE PLAN

STANLEY DURRELL, SR.
Owners Name

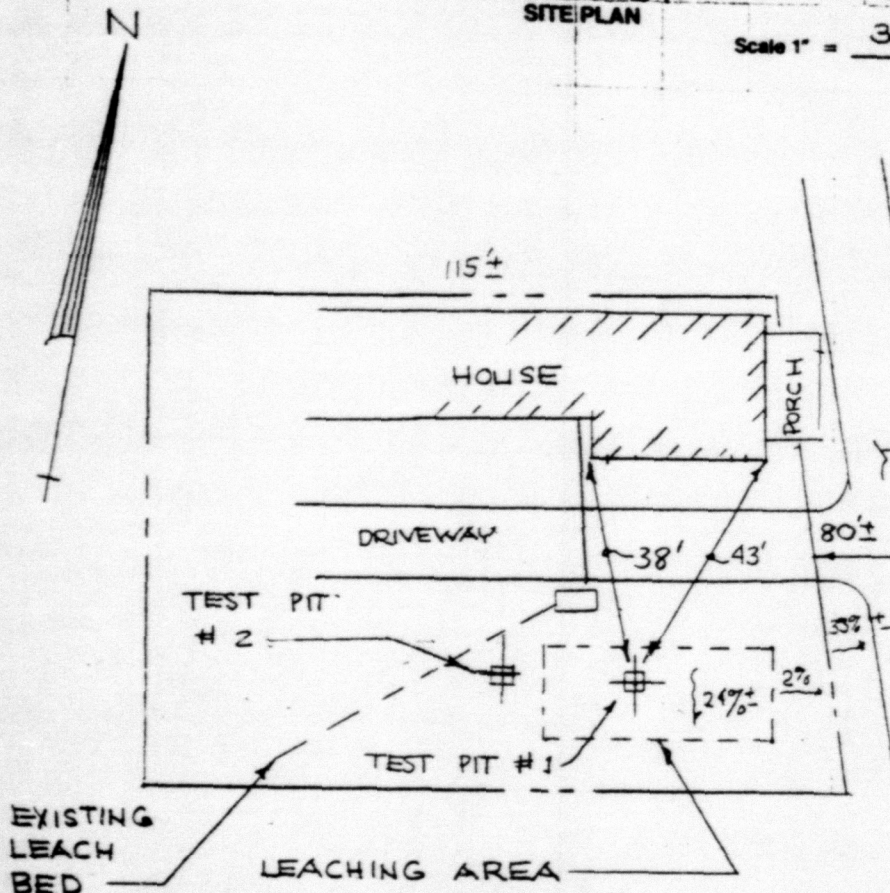
Scale 1" = 30 FT.

SITE LOCATION PLAN (Attach Map from Maine Atlas for New System Variance)

RT # 138

BOWDOINHAM CENTER

WHITE HOUSE SCHOOL ST. PORCH CLOSE TO STREET



NOTE:

THE SOIL UNDER THE FILL IS PROBABLY THE SAME AS TEST PIT # 1. EXCAVATING LARGE TEST PIT WOULD DESTROY EXISTING LEACH BED

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

Observation Hole 1 Test Pit Boring

Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0-6	ES. LOAM	FRIABLE	BROWN	
6-15	LOAMP SAND	FRIABLE	REDDISH BROWN	
15-30	MEDIUM SAND	LOOSE	YELLOWISH BROWN	

Soil Profile: 5 Classification: B Slope: 22+ Limiting Factor: -

Ground Water
 Restrictive Layer
 Bedrock

Observation Hole 2 Test Pit Boring

Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0-15	FILL CONSISTING OF ROCKS GRAVEL & SOME CLAY			
15-50	(REFER TO NOTE ABOVE)			

Soil Profile: - Classification: - Slope: - Limiting Factor: -

Ground Water
 Restrictive Layer
 Bedrock

Robert A. Richard
Site Evaluator Signature

153
SE#

REV. 6/10/95
5/12/89
Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation: **BOWDOINHAM** Street, Road, Subdivision: **SCHOOL ST.** Owners Name: **STANLEY DURRELL**

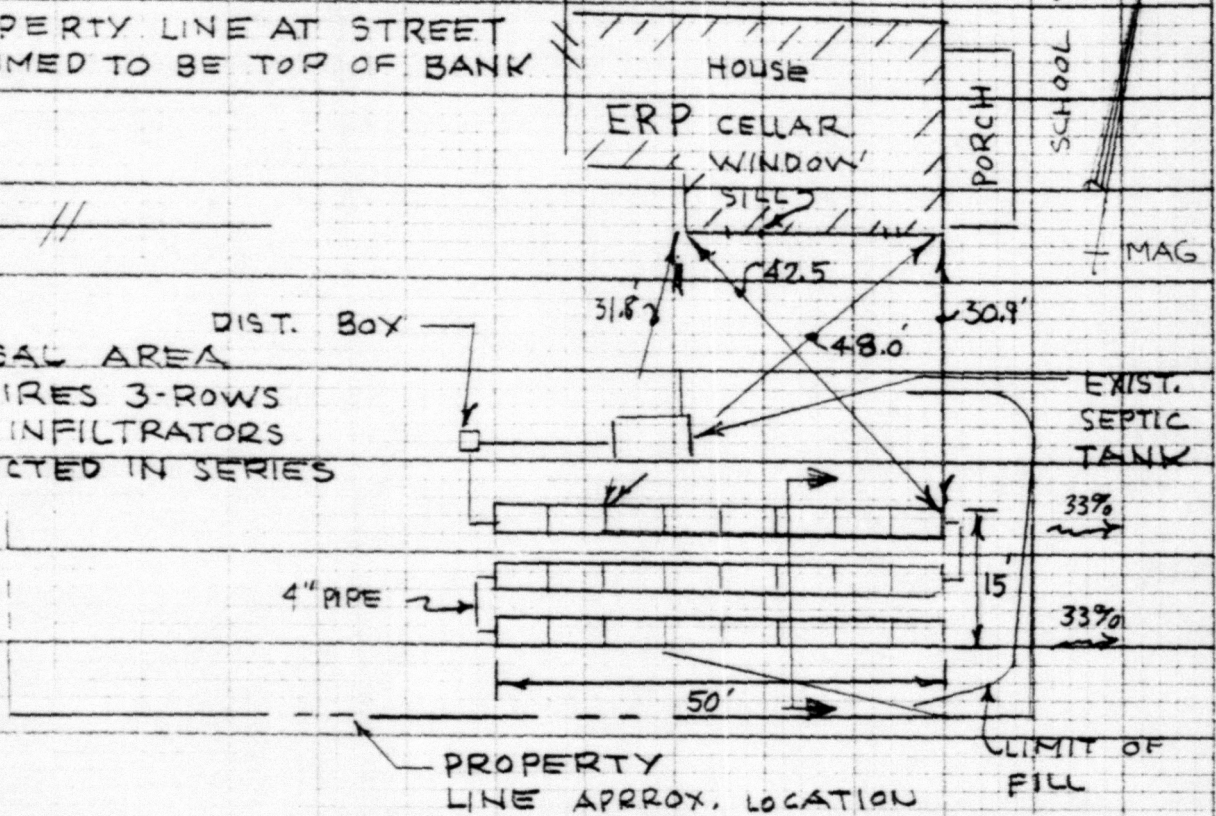
SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20' PL.

NOTES:

- REFER TO ATTACHED "GENERAL NOTES"
- PROPERTY LINE AT STREET ASSUMED TO BE TOP OF BANK

DISPOSAL AREA
REQUIRES 3-ROWS
OF 8 INFILTRATORS
CONNECTED IN SERIES



FILL REQUIREMENTS

Depth of Fill (Upslope) 0" @ 0"
Depth of Fill (Downslope) 0" @ 12"

CONSTRUCTION ELEVATIONS

Reference Elevation is 0"
Bottom of Disposal Area REFER TO
Top of Distribution Lines or Chambers TABLE BELOW

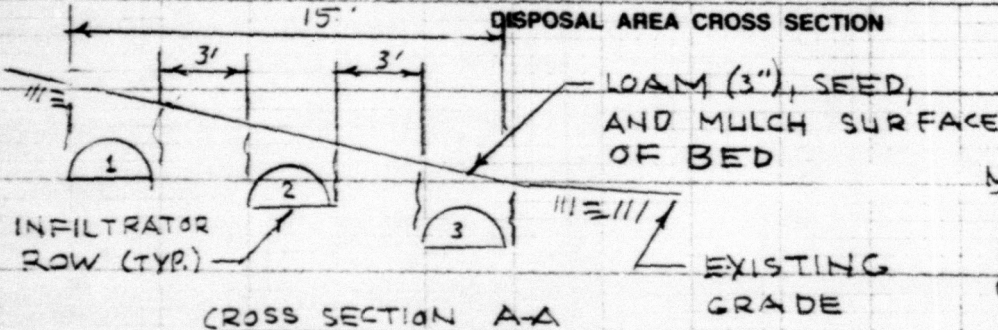
ELEVATION REFERENCE POINT (ERP) LOCATION & DESCRIPTION

CELLAR WINDOW SILL

Scale:

Vertical: 1 inch = 6 Ft.
Horizontal: 1 inch = 6 Ft.

DISPOSAL AREA CROSS SECTION



NOTE

FILL AROUND CHAMBERS
LOAMY SAND
OR COARSER

INFILTRATOR ROW NO.	1	2	3
BOTTOM OF DISPOSAL AREA	-106"	-118"	-130"
TOP OF CHAMBER	-91"	-103"	-115"

Albert J. Richard
Site Evaluator Signature

153
SE#

5/12/89 REV. 6/10/95 aar
Date Page 3 of 3

General Notes

1. The State of Maine Subsurface Wastewater Disposal Rules ("Rules") of the Maine State Plumbing Code, and all revisions thereof are made part of the HHE-200 Form. Disposal system installer shall refer to these "Rules" for further construction details, material specifications, cautions, and other related items pertinent to the installation of this disposal system.
2. Construction Details (State of Maine Subsurface Wastewater Disposal Rules, Section 11.D)
 - A. The vegetation in the proposed disposal area and fill extension shall be removed and the ground surface scarified to minimize glazing of the original soil.
 - B. The bottom of the disposal area and distribution line shall be level with a maximum grade tolerance of 1 inch per 100 feet.
 - C. Fill shall be free from foreign material, placed in 8 inch lifts and compacted as placed. Fill shall be sandy loam or coarser.
 - D. The finish grade of the backfill over the disposal area shall be crowned from the center of the disposal area at a 3% slope and extend 3 ft. beyond the edge of the disposal area. At that point the fill shall be sloped at a uniform grade of no greater than 25% (4:1) to the original ground.
 - E. The land adjacent to the disposal area shall be graded to prevent both the accumulation of surface water on the disposal area, and the flow of surface water across the disposal area.
 - F. The finish disposal area and fill extension shall be seeded to prevent erosion.
 - a. Grass, clover, trefoil, vetch, perennial wildflowers, or other herbaceous perennials may be utilized for disposal area surface. Woody shrubs are unacceptable.
 - b. Woody shrubs in conjunction with a hardy perennial ground cover may be used on fill extensions only.
3. When a gravity system is proposed, BEFORE CONSTRUCTION BEGINS, the disposal system installer and building contractor shall review the relative elevation of all points given in the HHE-200 Form and the elevation of the existing or proposed building drain and septic tank openings for compatibility to the minimum code pitch requirements. Any questions that arise should be directed to the local plumbing inspector or site evaluator. When a pump is required it shall be installed in accordance with the State of Maine Subsurface Wastewater Rules and the manufacturer's instructions.
4. This HHE-200 Form is intended to represent facts pertaining to the Plumbing Code ONLY. The owner or applicant must check both local and state ordinances regarding other building regulations (i.e. zoning, building codes, minimum lot size, etc.) before considering this an approvable site. All information shown on this form relating to property lines and subsurface structures (such as, but not limited to, water lines, septic tanks, cesspools, cellar drains, utility lines, etc.) are noted and plotted, or left off as not affecting the system, based on information provided by the owner or his agent. It is the responsibility of the owner or agent to confirm, before construction begins, the above and/or any other feature which may affect (or be adversely effected by) in the installation of this system.
5. The separation distance between a well and the disposal system serving a single family residence shall be 100 feet or more. If the new well is located closer than 100 feet to the disposal system, this design may be void. Refer to the "Rules" for other setback requirements.
6. An inspection is required by the Local Plumbing Inspector (LPI) of the disposal system prior to backfilling. If the system is approved by the L.P.I. a certificate of approval shall be issued.
7. This system has been designed for the wastewater flow indicated on Page 1 of the HHE-200 Form. This flow or the criteria used in determining the flow (number of bedrooms, number of employees, etc.) shall not be exceeded. If the use of a laundry machine becomes excessive, a separate laundry bed should be considered. Garbage disposals are not recommended. If one is used a specially designed filter equivalent to Zabel Industries, Inc. multi-purpose filter, Model #A100 should be installed at the outlet of the septic tank or the next larger size tank should be utilized.

VARIANCE CATEGORY	VARIANCE REQUESTED	LIMIT OF LPI'S APPROVAL AUTHORITY		VARIANCE REQUESTED TO:	
SOILS					
Soil Profile	Ground Water Table	to 6"		inches	
Soil Condition	Restrictive Layer	to 6"		inches	
from HHE-200	Bedrock	to 10"		inches	
SETBACK DISTANCES (IN FEET)					
	FROM:	TREATMENT TANK	DISPOSAL AREA	TREATMENT TANK	DISPOSAL AREA
Potable Water Supplies	1. Well: > 2000 gal/day	100'	300'		
	2. Well: < 2000 gal/day				
	a. Neighbor's	50'	60'		
	b. Property Owner's	25'	50'		
	3. Water Supply Line	See note 'a'			
Waterbodies	1. Perennial	50'	60'		
	2. Intermittent	15'	20'		
	3. Manmade drainage ditch	10'	15'		* 15'
Downhill Slope	Greater than 3:1 (33%)	5'	10'		10'
Buildings	1. With Basement	5'	10'		
	2. Without Basement	5'	10'		
Property Line		4'	5'		6'

OTHER

* AT EDGE OF STREET

1. Fill extension Grade to 3'

2. ORIGINAL SLOPE GREATER THAN 20% → 24% †

3. FILL AT LAUNDRY DISPOSAL FIELD

Footnotes:

- a. This setback distance cannot be reduced by variance. See Table 6-2.
- b. Written Permission from the owner of a well is required when a replacement system will be located less than 100 feet but 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.

Albert J. Richard
SITE EVALUATOR'S SIGNATURE

5/12/89
DATE

LPI STATEMENT

I, Colandrea Mayo, LPI for the Town of Brewsterham, have conducted an on-site inspection for the proposed replacement system and have determined to the best of my knowledge, that it cannot be installed in total compliance with the Rules, applicable Municipal Wastewater Disposal Ordinances, or the Local Shoreland Zoning Ordinance. As a result of my review of the Replacement System 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, he shall state his reasons in **Comments** Section below as to why the proposed replacement system is not being recommended.

Comments:

Colandrea Mayo
LPI'S SIGNATURE

June 12 1995
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

REPLACEMENT SYSTEM VARIANCE REQUEST

THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form shall be attached to an application for the proposed replacement system which does not comply with the Rules. The LPI shall review the Replacement System Variance Request and Application 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 from the rules.
2. A system cannot be designed and installed in total compliance with the Rules.
3. The design flow is less than 500 GPD.
4. There will be no change in use of the structure.
5. The replacement system is determined by the Site Evaluator and LPI to be the most practical method to treat and dispose of the wastewater.

GENERAL INFORMATION

Town of BOWDOINHAM

Permit No. _____ E

Date Permit Issued _____
MONTH/DAY/YEAR

Property Owner's Name: STANLEY DURRELL SR. Tel. No. 666-5780

System's Location: SCHOOL ST. BOX 27
STREET

BOWDOINHAM Maine 04008
TOWN ZIP

Property Owner's Address: (SAME)
(if different from above) STREET

_____ TOWN STATE ZIP

SPECIFIC INSTRUCTIONS TO THE:

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, they 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, then complete the Replacement Variance Request with your signature on reverse side of form.

PROPERTY OWNER:

It 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.

The OWNER shall sign this statement. Therefore, having read both this Replacement Variance Request and the attached Application, I understand that the proposed system is not in total compliance with the Rules and hereby release all those concerned with this Variance, provided they have performed their duties in a reasonable and proper manner.

PROPERTY OWNER'S SIGNATURE

DATE