SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

PROPERTY LOCATION

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

City, Town, or Plantation: BAR HARBOR
Street or Road: INDIAN POINT ROAD
Subdivision, Lot #:

BAR HARBOR PERMIT # 3983 STATE COPY

Date Permit Issued: 7/19/05 $ 130 ☐ # Double Fee Charged FEE

Local Plumbing Inspector Signature L.P.I. # 1009

OWNER/APPLICANT INFORMATION

Name (last, first, MI): SANBORN, BILL ■ Owner ☐ Applicant

Mailing Address of (Owner) Applicant: 86 FRENCHMANS HILL WEST
BAR HARBOR, ME. 04609

Daytime Tel. #: (207) 288-5724

Municipal Tax Map # 12D Lot # 21

OWNER OR APPLICANT STATEMENT

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

Signature of Owner or Applicant 7-11-05 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. (1st) date approved

Local Plumbing Inspector Signature (2nd) date approved

PERMIT INFORMATION

TYPE OF APPLICATION

☐ 1. First Time System
■ 2. Replacement System
Type replaced. TRENCH
Year installed: 1960's
☐ 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 Permit

DISPOSAL SYSTEM COMPONENTS

■ 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 or more)
☐ 9. Engineered Treatment Tank (only)
☐ 10. Engineered Disposal Field (only)
☐ 11. Pre-treatment, specify: _____
☐ 12. Miscellaneous Components

SIZE OF PROPERTY

1 ☐ SQ. FT. ■ ACRES

DISPOSAL SYSTEM TO SERVE

■ 1. Single Family Dwelling Unit, No. of Bedrooms: 3
☐ 2. Multiple Family Dwelling, No. of Units: ____
■ 3. Other: 2 BEDROOM GARAGE APARTMENT (specify)

Current Use ☐ Seasonal ■ Year Round ☐ Undeveloped

TYPE OF WATER SUPPLY

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

SHORELAND ZONING

☐ Yes ■ No

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

■ 1. Concrete (WATER TIGHT)
■ a. Regular
☐ b. Low Profile
☐ 2. Plastic
☐ 3. Other: _____
CAPACITY: 1500 GAL.
LIFT STATION

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: 1890 ■ 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

DESIGN FLOW

450 gallons per day
BASED ON:
■ 1. Table 501.1 (dwelling unit(s))
☐ 2. Table 501.2 (other facilities)
SHOW CALCULATIONS
— for other facilites —
3 BEDROOM HOUSE 270 GPD
2 BEDROOM APARTMENT 180 GPD
450 GPD
☐ 3. Section 503.0 (meter readings)
ATTACH WATER METER DATA

SOIL DATA & DESIGN CLASS

PROFILE CONDITION DESIGN
1/8 / C / 1
at Observation Hole # 1
Depth 15"
of Most Limiting Soil Factor

DISPOSAL FIELD 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

SITE EVALUATOR STATEMENT

I certify that on 6-27-05 (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).

William O'Leary — Site Evaluator Signature
319 — SE #
7-4-05 — Date

WILLIAM A. LABELLE, JR. — Site Evaluator Name Printed
(207) 537-5900 — Telephone Number
labellasep4c@rivah.net — E-mail Address

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

RECEIVED
JUL 11 2005
TOWN OF BAR HARBOR
PLANNING/HE-800: Rev. 8/01

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

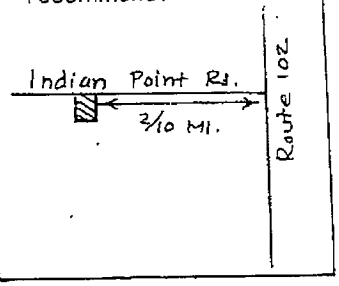
Town, City, Plantation: BAR HARBOR

Street, Road Subdivision: INDIAN POINT ROAD

Owner's Name: BILL SANBORN

SITE PLAN — Scale 1" = 40 Ft. or as shown

SITE LOCATION PLAN (Map from Maine Atlas recommended)



(SEE ATTACHED SITE PLAN)

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

Observation Hole #1 ■ Test Pit ☐ Boring

1/2 " Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0	SANDY		DARK BROWN	N.E.
10	STONY LOAM	FRIABLE	YELLOW BROWN	FEW DISTINCT
20		FIRM		
30				
40				
50				

Soil Classification: Profile	Soil Classification: Condition	Slope	Limiting Factor	
3	C	3 %	18"	■ Ground Water ■ Restrictive Layer ☐ Bedrock ☐ Pit Depth

Observation Hole #2 ■ Test Pit ☐ Boring

1/2 " Depth of Organic Horizon Above Mineral Soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0	MIXED	MIXED FRIABLE	MIXED BROWNS	N.E.
10	STONY SILT LOAM	TO FIRM	AND OLIVE	COMMON
20		COMPACTED	DARK OLIVE	DISTINCT
30				
40				
50				

Soil Classification: Profile	Soil Classification: Condition	Slope	Limiting Factor	
1/8	C	3 %	15"	■ Ground Water ☐ Restrictive Layer ☐ Bedrock ☐ Pit Depth

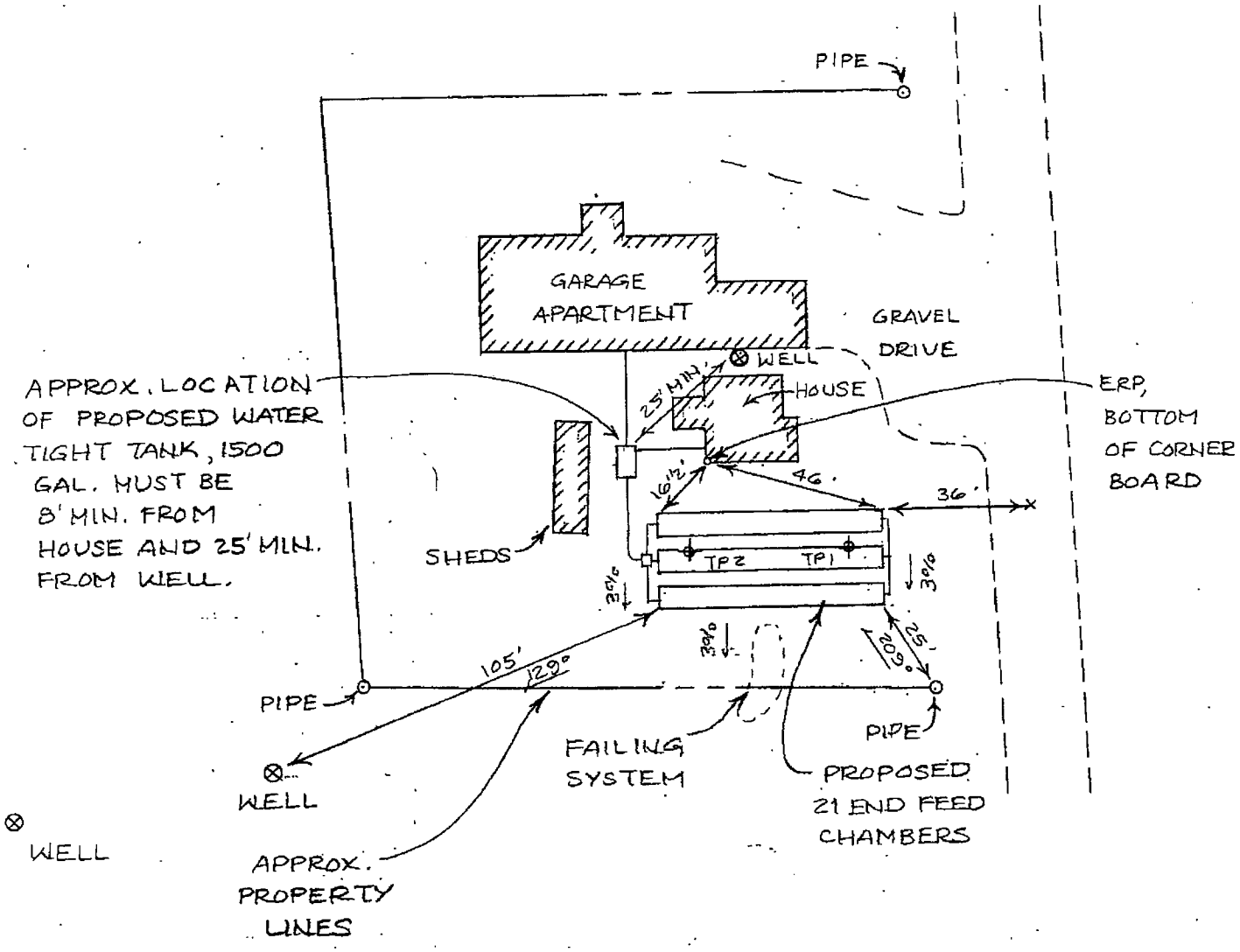
Will Gary — Site Evaluator Signature

319 — SE #

7-4-05 — Date

SITE PLAN:
SCALE: 1" = 40'

BILL SANBORN
BAR HARBOR
PAGE 2A



Will C McRy
SITE EVALUATOR'S SIGNATURE

319
S. E. #

7-4-05
DATE

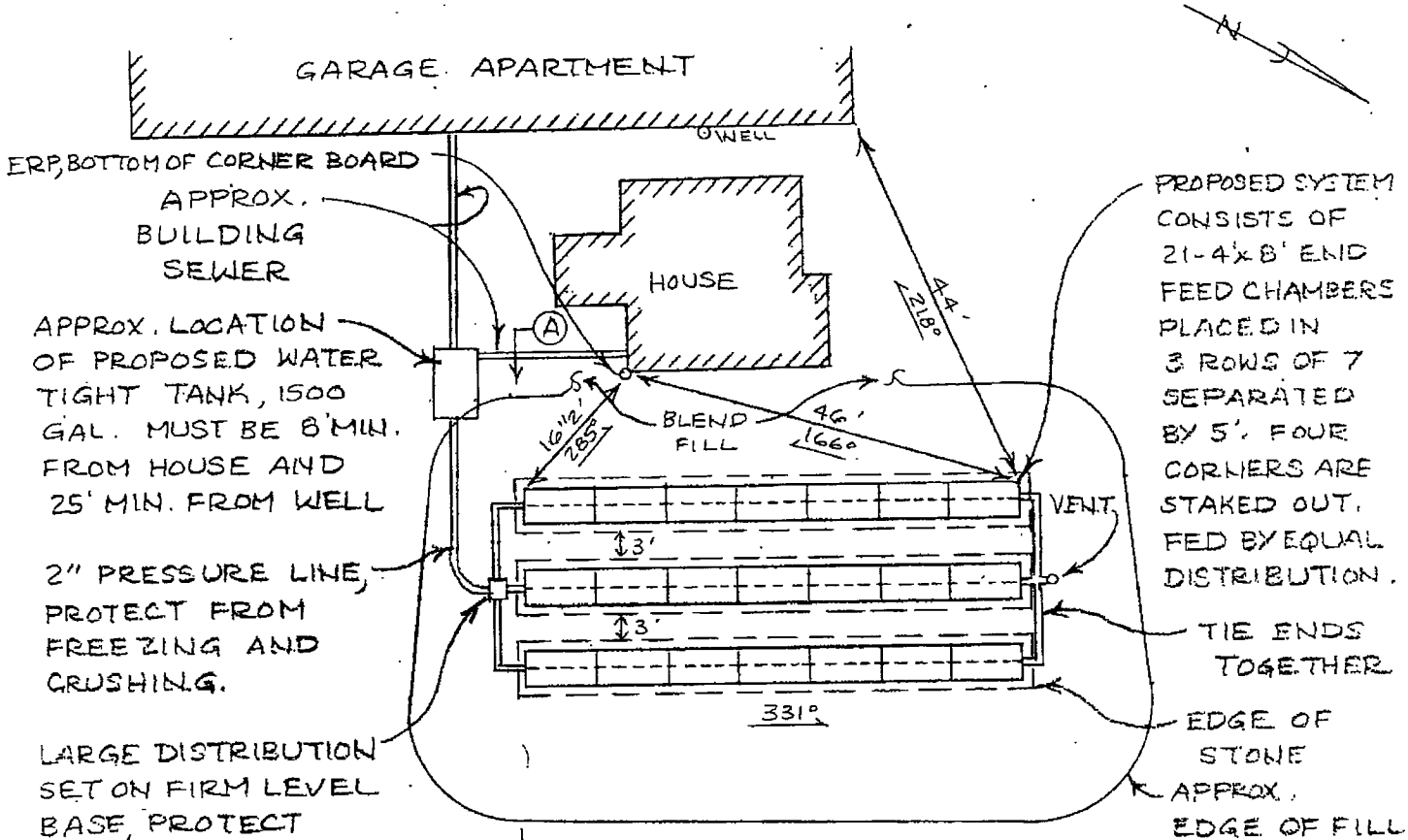
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

Town, City, Plantation	Street, Road, Subdivision	Owner or Applicant Name
BAR HARBOR	INDIAN POINT ROAD	BILL SANBORN

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1"= 20 ft.



BACKFILL REQUIREMENTS

Depth of Backfill (upslope)	21"-23"
Depth of Backfill (downslope)	29"-31"
DEPTHS AT CROSS-SECTION (shown below)	

CONSTRUCTION ELEVATIONS

Finished Grade Elevation	-16"
Top of Distribution Pipe or Proprietary Device	-27"
Bottom of Disposal Field	-40"

ELEVATION REFERENCE POINT

Location & Description: BOTTOM OF CORNER BOARD, 23" ABOVE GROUND.

Reference Elevation is: 0.0"

DISPOSAL FIELD CROSS-SECTION

Scales:

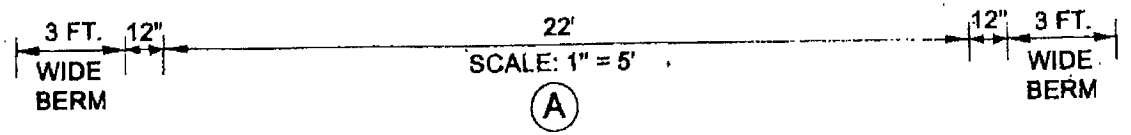
Vertical: 1"=_____ft.

Horizontal: 1"=_____ft.

(SEE ATTACHED CROSS SECTION)

Site Evaluator Signature	SE #	Date
Will C McRy	319	7-4-05

DISPOSAL AREA CROSS SECTION



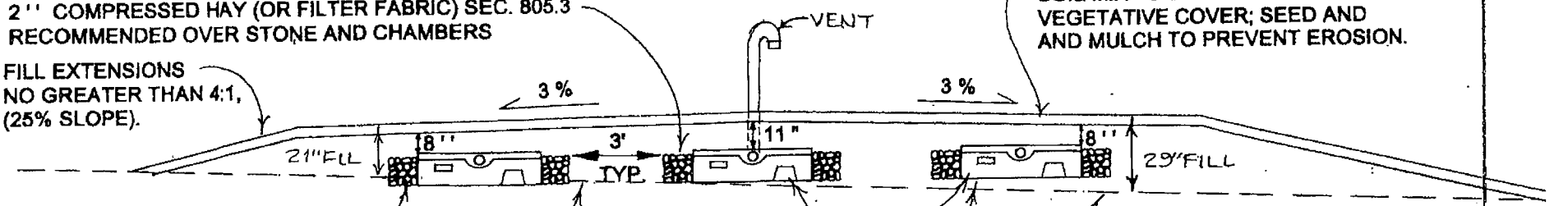
(A)

FILL MATERIAL SHALL BE 8"-12" THICK OVER CHAMBERS AND SHALL BE GRAVELLY COARSE SAND TO THE STANDARDS IN SEC. 804.0 IN THE SUBSURFACE RULES.

2'' COMPRESSED HAY (OR FILTER FABRIC) SEC. 805.3 RECOMMENDED OVER STONE AND CHAMBERS

TOP 4" OF FILL TO BE A GOOD LOAM SOIL MIX TO ESTABLISH A GOOD VEGETATIVE COVER; SEED AND AND MULCH TO PREVENT EROSION.

FILL EXTENSIONS NO GREATER THAN 4:1, (25% SLOPE).



12" CLEAN STONE, (3/4" - 2 1/2" DIA.)

4' x 8' CHAMBER

ORIGINAL GRADE

REMOVE VEGETATION AND SCARIFY ORIGINAL SOIL UNDER ENTIRE FILL AREA.

BOTTOM OF CHAMBERS MUST BE LEVEL WITH MAXIMUM GRADE TOLERANCE OF 2" PER 100'.

SYSTEM MUST BE INSTALLED ACCORDING TO THE RULES AND PRACTICES SET FORTH IN THE SUBSURFACE WASTEWATER RULES, IN EFFECT AT THIS TIME.

ELEVATIONS:

ELEV. REF. PT. (ERP): 0"

FINISHED GRADE: -16"

TOP OF CHAMBERS: -27"

BOTTOM OF CHAMBERS: -40"

OWNER: BILL SANBORN

LOCATION: BAR HARBOR

William C LaBelle — WILLIAM A. LaBELLE

319 — S.E.#

7-4-05 — DATE

REPLACEMENT SYSTEM VARIANCE REQUEST
REQUIRES STATE APPROVAL

RECEIVED
JUL 19 2005
WASTEWATER & PLUMBING PROGRAM

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 (effective 2006)
2. There will be no change in use of the structure except as authorized for one-time exemptions pursuant to 30-A M.R.S.A. § 4412 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 BAR HARBOR

Permit No. 3983 Date Permit Issued _____

Property Owner's Name: BILL SANBORN Tel. No.: (207) 288-5724

System's Location: INDIAN POINT ROAD

Property Owner's Address: 86 FRENCHMANS HILL WEST - BAR HARBOR, ME. 04609

(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.

Bill Sanborn 7-11-05
SIGNATURE OF OWNER DATE

LOCAL PLUMBING INSPECTOR

I, A. Chamberlain, 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 8/12/05 DATE

HHE-204 Rev 10/02

Replacement System Variance Request

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED TO:	
SOILS							—	
Soil Profile	Ground Water Table			to 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	90'	25'
Neighbor's wells	100 down to 60 ft [b]	200 down to 120 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]	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 major 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	—	—
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	—	—
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	10'	—
Property lines	10 down to 5 ft [c]	18 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. [redacted]

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 holding 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.

Will Cole #319 — SITE EVALUATOR'S SIGNATURE

7-4-05 — 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

19 Jul 05 — DATE

STATE OF MAINE
DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF HEALTH ENGINEERING
286 WATER STREET
AUGUSTA, MAINE
04333-0011

JOHN ELIAS BALDACCI
GOVERNOR

JOHN R. NICHOLAS
COMMISSIONER

July 19, 2005

Bill Sanborn
86 Frenchmans Hill West
Bar Harbor, ME 04609

SUBJECT: Approval, Replacement System Variance Request, Sanborn property, Bar Harbor

Dear Mr. Sanborn:

The Division has reviewed a replacement system variance request for the subject property. The state variance requested is to install the system with a setback distance reduction from your well to the disposal field of 40 feet and to the septic tank of 25 feet and a setback distance reduction from a full basement to the disposal field of 10 feet. As we understand the situation, the variance request has been submitted because topography and existing development limit the potential system location. The system design prepared by William LaBelle, Jr., SE, dated 07/04/2005 is otherwise found to be in compliance with the Maine Subsurface Wastewater Disposal Rules. Because your well is located so close to your septic system, the Department highly recommends that you get your well water tested at least once per year for any possible signs of contamination.

We approve the requested variance 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 to the design be required at the time of construction, the site evaluator is to be notified prior to making any changes.
3. The contractor is to scarify the soils under the fill extensions to create a transitional zone more compatible with the disposal field area.
4. The septic tank shall be watertight or monolithic in construction.

By accepting this approval and the associated plumbing permit, the owner agrees to comply fully with the conditions of approval and the Subsurface Wastewater 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, please feel free to contact me at (207) 287-5687.

Sincerely,

Jennifer E. Sanborn, Environmental Specialist II
Wastewater and Plumbing Control Program
Division of Health Engineering
e-mail: Jennifer.E.Sanborn@maine.gov

/jes
xc: File
Angela Chamberlain, LPI
William LaBelle, Jr., SE