

City of Portland, Maine – Building or Use Permit Application 389 Congress Street, 04101, Tel: (207) 874-8703, FAX: 874-8716

Location of Construction: 9 Sandpiper Road P.I.		Owner: **Barkbuff Malmquist		Phone: 283-0753		Permit No: 990404	
Owner Address: 61 Dyer St. Saco, ME 04072		Lessee/Buyer's Name:		Phone:		BusinessName:	
Contractor Name: owner		Address:		Phone:		<div style="border: 2px solid black; padding: 5px; text-align: center;"> PERMIT ISSUED APR 30 1999 CITY OF PORTLAND Zone: CBL </div>	
Past Use: Single Family		Proposed Use: Single Family		COST OF WORK: \$ 1,000 PERMIT FEE: \$ 25.00 FIRE DEPT. <input type="checkbox"/> Approved <input type="checkbox"/> Denied INSPECTION: Use Group: 13 Type 5 Signature: <i>[Signature]</i>			
Proposed Project Description: Amendment to permit #990144 Move house back 6'. Driveway moved by 7'. Driveway changed from piers to concrete main beam redesigned to carry load. <i>Foundation?</i>				PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: Approved <input type="checkbox"/> Approved with Conditions: <input type="checkbox"/> Denied <input type="checkbox"/> Signature: _____ Date: _____		Zoning Approval: Special Zone or Reviews: <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan maj <input type="checkbox"/> minor <input type="checkbox"/> mm <input type="checkbox"/>	
Permit Taken By: SP		Date Applied For: 23 April 1999					

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal rules.
2. Building permits do not include plumbing, septic or electrical work.
3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..

**PERMIT ISSUED
WITH REQUIREMENTS**

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provisions of the code(s) applicable to such permit

23 April 1999

SIGNATURE OF APPLICANT	ADDRESS:	DATE:	PHONE:
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE			PHONE:

White-Permit Desk Green-Assessor's Canary-D.P.W. Pink-Public File Ivory Card-Inspector

CEO DISTRICT

3

COMMENTS

11/6/00 → This work is complete in compliance w/ plans. Close-out OK

Inspection Record

Type	Date
Foundation: _____	_____
Framing: _____	_____
Plumbing: _____	_____
Final: _____	_____
Other: _____	_____

BUILDING PERMIT REPORT

DATE: 24/April/99 ADDRESS: 9 Sandpiper Rd. P.I. CBL: 085-M-007
 REASON FOR PERMIT: To Amend Permit # 990144
 BUILDING OWNER: Barkhoff Malmquist
 PERMIT APPLICANT: _____ /Contractor owner
 USE GROUP R-3 BOCA 1996 CONSTRUCTION TYPE 5 B

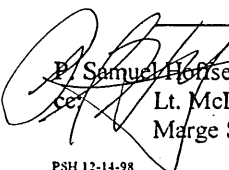
CONDITION(S) OF APPROVAL

This permit is being issued with the understanding that the following conditions are met:

Approved with the following conditions: *1 *34

1. This permit does not excuse the applicant from meeting applicable State and Federal rules and laws.
2. Before concrete for foundation is placed, approvals from the Development Review Coordinator and Inspection Services must be obtained. (A 24 hour notice is required prior to inspection)
3. Foundation drain shall be placed around the perimeter of a foundation that consists of gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. The drain shall extend a minimum of 12 inches beyond the outside edge of the footing. The thickness shall be such that the bottom of the drain is not higher than the bottom of the base under the floor, and that the top of the drain is not less than 6 inches above the top of the footing. The top of the drain shall be covered with an approved filter membrane material. Where a drain tile or perforated pipe is used, the invert of the pipe or tile shall not be higher than the floor elevation. The top of joints or top of perforations shall be protected with an approved filter membrane material. The pipe or tile shall be placed on not less than 2" of gravel or crushed stone, and shall be covered with not less than 6" of the same material. Section 1813.5.2
4. Foundations anchors shall be a minimum of 1/2" in diameter, 7" into the foundation wall, minimum of 12" from corners of foundation and a maximum 6' o.c. between bolts. (Section 2305.17)
5. Waterproofing and damp proofing shall be done in accordance with Section 1813.0 of the building code.
6. Precaution must be taken to protect concrete from freezing. Section 1908.0
7. It is strongly recommended that a registered land surveyor check all foundation forms before concrete is placed. This is done to verify that the proper setbacks are maintained.
8. Private garages located beneath habitable rooms in occupancies in Use Group R-1, R-2, R-3 or I-1 shall be separated from adjacent interior spaces by fire partitions and floor/ceiling assembly which are constructed with not less than 1-hour fire resisting rating. Private garages attached side-by-side to rooms in the above occupancies shall be completely separated from the interior spaces and the attic area by means of 1/2 inch gypsum board or the equivalent applied to the garage means of 1/2 inch gypsum board or the equivalent applied to the garage side. (Chapter 4, Section 407.0 of the BOCA/1996)
9. All chimneys and vents shall be installed and maintained as per Chapter 12 of the City's Mechanical Code. (The BOCA National Mechanical Code/1993). Chapter 12 & NFPA 211
10. Sound transmission control in residential building shall be done in accordance with Chapter 12, Section 1214.0 of the City's Building Code.
11. Guardrails & Handrails: A guardrail system is a system of building components located near the open sides of elevated walking surfaces for the purpose of minimizing the possibility of an accidental fall from the walking surface to the lower level. Minimum height all Use Groups 42", except Use Group R which is 36". In occupancies in Use Group A, B, H-4, I-1, I-2, M and R and public garages and open parking structures, open guards shall have balusters or be of solid material such that a sphere with a diameter of 4" cannot pass through any opening. Guards shall not have an ornamental pattern that would provide a ladder effect. (Handrails shall be a minimum of 3e4" but not more than 38". Use Group R-3 shall not be less than 30", but not more than 38".) Handrail grip size shall have a circular cross section with an outside diameter of at least 1 1/4" and not greater than 2". (Sections 1021 & 1022.0) - Handrails shall be on both sides of stairway. (Section 1014.7)
12. Headroom in habitable space is a minimum of 7'6". (Section 1204.0)
13. Stair construction in Use Group R-3 & R-4 is a minimum of 10" tread and 7 3/4" maximum rise. All other Use Group minimum 11" tread, 7" maximum rise. (Section 1014.0)
14. The minimum headroom in all parts of a stairway shall not be less than 80 inches. (6'8") 1014.4
15. Every sleeping room below the fourth story in buildings of Use Groups R and I-1 shall have at least one operable window or exterior door approved for emergency egress or rescue. The units must be operable from the inside without the use of special knowledge or separate tools. Where windows are provided as means of egress or rescue they shall have a sill height not more than 44 inches (1118mm) above the floor. All egress or rescue windows from sleeping rooms shall have a minimum net clear opening height dimension of 24 inches (610mm). The minimum net clear opening width dimension shall be 20 inches (508mm), and a minimum net clear opening of 5.7 sq. ft. (Section 1018.6)
16. Each apartment shall have access to two (2) separate, remote and approved means of egress. A single exit is acceptable when it exits directly from the apartment to the building exterior with no communications to other apartment units. (Section 1010.1)
17. All vertical openings shall be enclosed with construction having a fire rating of at least one (1) hour, including fire doors with self closer's. (Over 3 stories in height requirements for fire rating is two (2) hours.) (Section 710.0)

18. The boiler shall be protected by enclosing with (1)hour fire rated construction including fire doors and ceiling, or by providing automatic extinguishment. (Table 302.1.1)
19. All single and multiple station smoke detectors shall be of an approved type and shall be installed in accordance with the provisions of the City's Building Code Chapter 9, Section 920.3.2 (BOCA National Building Code/1996), and NFPA 101 Chapter 18 &19. (Smoke detectors shall be installed and maintained at the following locations):
 - In the immediate vicinity of bedrooms
 - In all bedrooms
 - In each story within a dwelling unit, including basements
 In addition to the required AC primary power source, required smoke detectors in occupancies in Use Groups R-2, R-3 and I-1 shall receive power from a battery when the AC primary power source is interrupted. (Interconnection is required) Section 920.3.2.
20. A portable fire extinguisher shall be located as per NFPA #10. They shall bear the label of an approved agency and be of an approved type. (Section 921.0)
21. The Fire Alarm System shall maintained to NFPA #72 Standard.
22. The Sprinkler System shall maintained to NFPA #13 Standard.
23. All exit signs, lights and means of egress lighting shall be done in accordance with Chapter 10 Section & Subsections 1023.0 & 1024.0 of the City's Building Code. (The BOCA National Building Code/1996)
24. Section 25-135 of the Municipal Code for the City of Portland states, "No person or utility shall be granted a permit to excavate or open any street or sidewalk from the time of November 15 of each year to April 15 of the following year".
25. The builder of a facility to which Section 4594-C of the Maine State Human Rights Act Title 5 MRSA refers, shall obtain a certification from a design professional that the plans commencing construction of the facility, the builder shall submit the certification the Division of Inspection Services.
26. Ventilation shall meet the requirements of Chapter 12 Sections 1210.0 of the City's Building Code. (Crawl spaces & attics).
27. All electrical, plumbing and HVAC permits must be obtained by a Master Licensed holders of their trade. **No closing in of walls until all electrical (min. 72 hours notice) and plumbing inspections have been done.**
28. All requirements must be met before a final Certificate of Occupancy is issued.
29. All building elements shall meet the fastening schedule as per Table 2305.2 of the City's Building Code (the BOCA National Building Code/1996).
30. Ventilation of spaces within a building shall be done in accordance with the City's Mechanical Code (The BOCA National Mechanical Code/1993). (Chapter M-16)
31. Please read and implement the attached Land Use Zoning report requirements. *original conditions still apply.*
32. Boring, cutting and notching shall be done in accordance with Sections 2305.4.4, 2305.5.1 and 2305.5.3 of the City's Building Code.
33. Glass and glazing shall meet the requirements of Chapter 24 of the building code.
- * 34. All requirements on permit #990144 and still valid and must be completed
35. _____
36. _____


 Samuel Hoffses, Building Inspector
 Lt. McDougall, PFD
 Marge Schmuckal, Zoning Administrator

PSH 12-14-98

**On the basis of plans submitted and conditions placed on these plans any deviations shall require a separate approval.

THIS IS NOT A PERMIT/CONSTRUCTION CANNOT COMMENCE UNTIL THE PERMIT IS ISSUED

**Building or Use Permit Pre-Application
Additions/Alterations/Accessory Structures
To Detached Single Family Dwelling**

In the interest of processing your application in the quickest possible manner, please complete the Information below for a Building or Use Permit.

NOTEIf you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.**

Location/Address of Construction: #9 Sandpiper Road Peaks Island ME			
Tax Assessor's Chart, Block & Lot Number Chart# 83 Block# M Lot# 7		Owner: Barkhuff Malmquist	Telephone#: 283-0753
Owner's Address: 61 Dyer St Saco ME 04072		Lessee/Buyer's Name (If Applicable)	Cost Of Work: \$2,000 Fee \$25
Proposed Project Description: (Please be as specific as possible) Amend # 990144 Move house back 6' Driveway Moved by 7' Foundation changed from Piers to concrete Main Beam Redesigned to carry load			
Contractor's Name, Address & Telephone Owner Built		Rec'd By:	

Separate permits are required for Internal & External Plumbing, HVAC and Electrical installation.

- All construction must be conducted in compliance with the 1996 B.O.C.A. Building Code as amended by Section 6-Art II.
- All plumbing must be conducted in compliance with the State of Maine Plumbing Code.
- All Electrical Installation must comply with the 1996 National Electrical Code as amended by Section 6-Art III.
- HVAC (Heating, Ventilation and Air Conditioning) installation must comply with the 1993 BOCA Mechanical Code.

You must Include the following with you application:

- 1) A Copy of Your Deed or Purchase and Sale Agreement
- 2) A Copy of your Construction Contract, if available
- 3) A Plot Plan (Sample Attached)

If there is expansion to the structure, a complete plot plan (Site Plan) must include:

- The shape and dimension of the lot, all existing buildings (if any), the proposed structure and the distance from the actual property lines. Structures include decks porches, a bow windows cantilever sections and roof overhangs, as well as sheds, pools, garages and any other accessory structures.
- Scale and required zoning district setbacks

4) Building Plans (Sample Attached)

A complete set of construction drawings showing all of the following elements of construction:

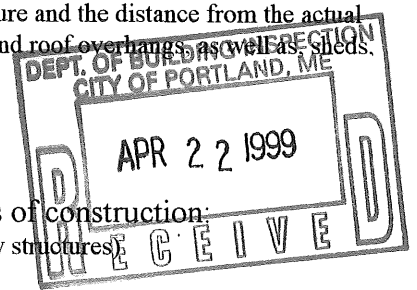
- Cross Sections w/Framing details (including porches, decks w/ railings, and accessory structures)
- Floor Plans & Elevations
- Window and door schedules
- Foundation plans with required drainage and dampproofing
- Electrical and plumbing layout. Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment. HVAC equipment (air handling) or other types of work that may require special review must be included.

Certification

I hereby certify that I am the Owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: 	Date: 4/23/99
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Building Permit Fee: \$25.00 for the 1st \$1000.00 cost plus \$5.00 per \$1,000.00 construction cost thereafter.



Inspection Services
Michael J. Nugent
Manager



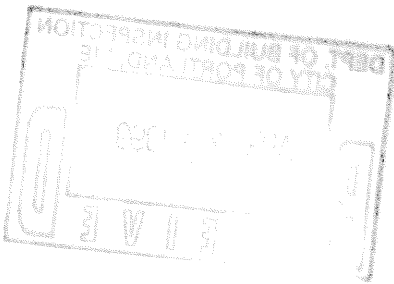
Department of Urban Development
Joseph E. Gray, Jr.
Director

CITY OF PORTLAND

congratulations !!!!!

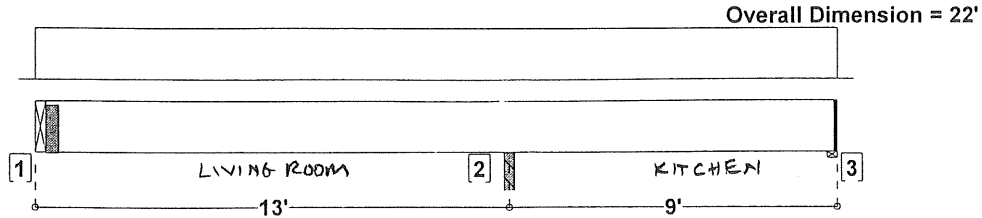
**Building or Use Permit Application
Additions/Alterations/Accessory Structures
To Detached Single Family Dwelling**

As an applicant for a building permit, you are about to enter into a relationship with our Office. We welcome any questions, comments or suggestions that will make the process more efficient. Attached you will find an application and some samples of the submissions you will provide at application time. Please read **ALL** of the information and if you need any further assistance please call 874-8703 or 874-8693.



3.5" x 9.5" 2.0E Parallam® PSL
(IF WALLS ABOVE, USE 5'1/4" X 11'1/4")

THIS PRODUCT MEETS OR EXCEEDS THE SET DESIGN CONTROLS FOR THE APPLICATION AND LOADS LISTED



Product Diagram is Conceptual.

LOADS:

Analysis for Beam Member Supporting FLOOR - RES. Application. Tributary Load Width: 12'
 Loads(psf): 40 Live at 100% duration, 12 Dead, 0 Partition

SUPPORTS:

	INPUT	BEARING		REACTIONS(lbs.)		
	WIDTH	LENGTH	JUSTIFICATION	LIVE/ DEAD/ TOTAL	DETAIL	OTHER
1	Parallam® PSL, PPCB	3.50"	Hanger Left Face	2740 / 833 / 3573	Detail H1	
2	Column	3.50"	3.5" Centered	6635 / 2134 / 8769	Detail B3	
3	2x4 Plate	3.50"	2.25" Right Face	1983 / 430 / 2412	Detail A3	1.25" LSL Rim

- See TJM SPECIFIER'S / BUILDER'S GUIDES for detail(s): H1, B3, A3.

HANGERS: Simpson Strong-Tie Connectors®

	MODEL	SLOPE	SKEW	REVERSE FLANGES	T.F. OFFSET	T.F. SLOPE	FACE	NAILING TOP	MEMBER
Left Face	HHUS48		No	No	N/A	N/A	22-16D	N/A	8-16D

- Multiple plies of 1.75" Parallam® PSL may result in lower hanger capacity. See Hanger Manufacturer's literature for limitations.

DESIGN CONTROLS:

	MAXIMUM	DESIGN	CONTROL	CONTROL	LOCATION
Shear(lb)	4825	4230	6428	Passed(66%)	Rt. end Span 1 under Floor loading
Moment(ft-lb)	10092	10092	13057	Passed(77%)	Rt. end Span 1 under Floor loading
Live Defl.(in)		0.390	0.424	Passed(L/391)	MID Span 1 under Floor ALTERNATE span loading
Total Defl.(in)		0.494	0.635	Passed(L/309)	MID Span 1 under Floor ALTERNATE span loading

- Deflection Criteria: STANDARD(LL: L/360, TL:L/240).
- Bracing(Lu): All compression edges (top and bottom) must be braced at 2' 8" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
- The load conditions considered in this design include Alternate member loading.

ADDITIONAL NOTES:

- IMPORTANT! The analysis presented is output from software developed by Trus Joist MacMillan(TJM). TJM warrants the sizing of its products by this software will be accomplished in accordance with TJM product design criteria and code accepted design values. The specific product application, input design loads, and stated dimensions have been provided by the software user. This output has not been reviewed by a TJM Associate.
- Not all products are readily available. Check with your supplier or TJM technical representative for product availability.
- THIS ANALYSIS FOR TRUS JOIST MacMILLAN PRODUCTS ONLY! PRODUCT SUBSTITUTION VOIDS THIS ANALYSIS.
- Allowable Stress Design methodology was used for Code NER analyzing the TJM Residential product listed above.

PROJECT INFORMATION

Richard Barkhuff
 Flush Beam above Kitchen/Living Room
 Peaks Island Cottage

OPERATOR INFORMATION:

DEERING LUMBER
 PHIL GENDRON
 14 ELM ST
 BIDDEFORD, ME 04005
 207.283.3621
 207.282.6577

**THIS IS NOT A PERMIT/CONSTRUCTION CANNOT COMMENCE UNTIL THE
PERMIT IS ISSUED**

**Building or Use Permit Application
Detached Single Family Dwelling**

In the interest of processing your application in the quickest possible manner, please complete the Information below for a Building or Use Permit.

NOTEIf you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.**

#99-0144
85-M-007

Location/Address of Construction: <u>#7 Sandpiper Road Peaks Island</u>		
Total Square Footage of Proposed Structure <u>768</u>	Square Footage of Lot <u>.52 acres, 22,651 sq Ft</u>	
Tax Assessor's Chart, Block & Lot Number Chart# <u>85</u> Block# <u>M</u> Lot# <u>M-7</u>	Owner: <u>Barkhoff, Rich</u> <u>Malmquist, Linda</u>	Telephone#: <u>W-985-7976</u> <u>283-0753</u>
Owner's Address: <u>61 Dyer St Saco.</u>	Lessee/Buyer's Name (If Applicable)	Cost Of Work: <u>\$270</u> <u>\$50,000</u>
Proposed Project Description: (Please be as specific as possible) <u>24 x 32, Gable End, 1 1/2 story, wood frame, clapboard, structure</u>		
Contractor's Name, Address & Telephone <u>Owner Built</u>		

Separate permits are required for Internal & External Plumbing, HVAC and Electrical installation.

- All construction must be conducted in compliance with the 1996 B.O.C.A. Building Code as amended by Section 6-Art II.
- All plumbing must be conducted in compliance with the State of Maine Plumbing Code.
- All Electrical Installation must comply with the 1996 National Electrical Code as amended by Section 6-Art III.
- HVAC (Heating, Ventilation and Air Conditioning) installation must comply with the 1993 BOCA Mechanical Code.

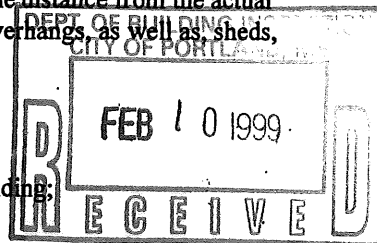
You must include the following with you application:

- 1) A Copy of Your Deed or Purchase and Sale Agreement
- 2) A Copy of your Construction Contract, if available
- 3) A Plot Plan (Sample Attached)

Side Plan 300
Bldg 270
SOS 100
670

A "minor/minor" site plan review is required prior to permit issuance. The Site plan must be prepared and sealed by a registered land surveyor (2 copies are required). A complete plot plan (Site Plan) includes:

- The shape and dimension of the lot, all existing buildings (if any), the proposed structure and the distance from the actual property lines. Structures include decks porches, a bow windows cantilever sections and roof overhangs, as well as sheds, pools, garages and any other accessory structures.
- Scale and North arrow; Zoning District & Setbacks
- First Floor sill elevation (based on mean sea level datum);
- Location and dimensions of parking areas and driveways;
- Location and size of both existing utilities in the street and the proposed utilities serving the building;
- Location of areas on the site that will be used to dispose of surface water.
- Existing and proposed grade contours



4) Building Plans (Sample Attached)

A complete set of construction drawings showing all of the following elements of construction:

- Cross Sections w/Framing details (including porches, decks w/ railings, and accessory structures)
- Floor Plans & Elevations
- Window and door schedules
- Foundation plans with required drainage and dampproofing
- Electrical and plumbing layout. Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment, HVAC equipment (air handling) or other types of work that may require special review must be included.

Certification

I hereby certify that I am the Owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: <u>Rich Barkhoff</u>	Date: <u>Jan 28 1999</u>
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Site Review Fee: \$150.00/Building Permit Fee: \$25.00 for the 1st \$1000.cost plus \$5.00 per \$1,000.00 construction cost thereafter.

PROPOSED PEAKS ISLAND PROJECT

OWNERS; RICK BARKHUFF, LINDA MALMQUIST

LOCATION; #7 SANDPIPER ROAD, CITY MAP # 85, LOT # M-7

WRITTEN STATEMENTS;

- (1) THE PROPOSED USE OF THIS PROPERTY WILL INCLUDE.
ONE SINGLE FAMILY HOME.
ONE OUT BUILDING TO BE USED FOR TOOL STORAGE.
- (2) THE TOTAL LAND AREA
.52 ACRES
GROUND COVERAGE OF THE PROPOSED DWELLING.
768 SQ FEET
GROUND COVERAGE OF THE PROPOSED OUT BUILDING.
192 SQ FEET
- (3) THERE ARE NO EXISTING OR PROPOSED EASEMENTS OR OTHER BURDENS
ON THIS PROPERTY.
- (4) THE TYPES OF SOLID WASTE TO BE PRODUCED WITH THIS PROJECT WILL BE
TYPICAL OF RESIDENTIAL CONSTRUCTION. ALL OF THE WOOD WILL BE
BURNED. ALL OF THE NON- BURNABLES WILL BE BROUGHT TO THE TRANSFER
STATION.
- (5) EVIDENCE OF THE AVAILABILITY OF OFF SITE FACILITIES;
A SEPTIC SYSTEM WILL BE INSTALLED ON THE PROPERTY AS DESIGNED
BY ALBERT FRICK ASSOCIATES.
WATER WILL BE FROM A WATER MAINE LOCATED ON SANDPIPER ROAD THAT
BELONGS TO A LOCAL WATER ASSOCIATION.
ELECTRICAL LINES ARE LOCATED RIGHT ON SAND PIPER ROAD.
- (6) CONTROLLING SURFACE WATER RUNOFF;
ALL GRADES AROUND THE PROPOSED STRUCTURES WILL SLOPE AWAY AT A
MINIMUM OF 6" IN 10 FEET FOR AT LEAST 10 FEET.
ALL EXCAVATED LAND WILL BE IMMEDIATELY GRADED AND REPLANTED TO
CONTROL EROSION.
SILT FENCING WILL BE ERECTED IF EROSION CONTROL IS NEEDED.
- (7) ANTICIPATED SEQUENCE OF THE MAJOR CONSTRUCTION PHASES.
APRIL 1999, SEPTIC SYSTEM WILL BE INSTALLED.
MAY 1999, FOUNDATION PIERS WILL BE ERECTED.
JUNE, JULY AND AUGUST 1999 THE MAIN 24 X 32 STRUCTURE WILL BE ERECTED.
SEPT 1999 TO JUNE 2000 WILL BE SPENT FINISHING OFF THE INSIDE OF THE HOUSE.

- (8) THERE ARE NO KNOWN FEDERAL APPROVALS NEEDED.
- (9) ATTACHED IS A LETTER FROM OCEAN NATIONAL BANK STATING THEIR INTEREST IN FINANCING THIS PROPOSED PROJECT. THIS PROPOSED PROJECT WILL BE OWNER BUILT. I (RICK BARKHUFF) HAVE 20 YEARS EXPERIENCE IN THE BOAT BUILDING INDUSTRY, AND HAVE ALSO BUILT AND REBUILT SEVERAL HOUSES ALONG THE WAY. I HAVE CONFIDENCE THAT THIS PROJECT IS WELL WITHIN MY TECHNICAL CAPACITY. REFERENCES CAN BE PROVIDED IF NEEDED.
- (10) ATTACHED IS THE TITLE TO THE LAND
- (11) THERE ARE NO KNOWN UNUSUAL ARCHAEOLOGICAL SITES WILDLIFE OR FISHERIES HABITATS.

85-M-007

BUILDING PERMIT REPORT

18 February 1999 ADDRESS: Sandpiper Rd. Lot #7 PI CBL 085-M-007

FOR PERMIT: To Construct a single family dwelling

OWNER: Barnuff & Malmquist

CONTRACTOR: SAA

PERMIT APPLICANT: ↑

USE GROUP R-3 BOCA 1996 CONSTRUCTION TYPE 5B

CONDITION(S) OF APPROVAL

This Permit is being issued with the understanding that the following conditions are met:

Approved with the following conditions: *1, *2, *3, *6, *8, *9, *10, *11, *12, *16, *24, *26, *28, *29, *30, *31, *32

- ~~*1.~~ This permit does not excuse the applicant from meeting applicable State and Federal rules and laws.
- ~~*2.~~ Before concrete for foundation is placed, approvals from the Development Review Coordinator and Inspection Services must be obtained. (A 24 hour notice is required prior to inspection)
- ~~*2.5~~ Foundation drain shall be placed around the perimeter of a foundation that consists of gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. The drain shall extend a minimum of 12 inches beyond the outside edge of the footing. The thickness shall be such that the bottom of the drain is not higher than the bottom of the base under the floor, and that the top of the drain is not less than 6 inches above the top of the footing. The top of the drain shall be covered with an approved filter membrane material. Where a drain tile or perforated pipe is used, the invert of the pipe or tile shall not be higher than the floor elevation. The top of joints or top of perforations shall be protected with an approved filter membrane material. The pipe or tile shall be placed on not less than 2" of gravel or crushed stone, and shall be covered with not less than 6" of the same material. Section 1813.5.2
- ~~*2.6~~ Foundations anchors shall be a minimum of 1/2" in diameter, 7" into the foundation wall, minimum of 12" from corners of foundation and a maximum 6' o.c. between bolts. (Section 2305.17)
- ~~*3.~~ Precaution must be taken to protect concrete from freezing. Section 1908.0
- ~~4.~~ It is strongly recommended that a registered land surveyor check all foundation forms before concrete is placed. This is done to verify that the proper setbacks are maintained.
- ~~5.~~ Private garages located beneath habitable rooms in occupancies in Use Group R-1, R-2, R-3 or I-1 shall be separated from adjacent interior spaces by fire partitions and floor/ceiling assembly which are constructed with not less than 1-hour fire resisting rating. Private garages attached side-by-side to rooms in the above occupancies shall be completely separated from the interior spaces and the attic area by means of 1/2 inch gypsum board or the equivalent applied to the garage means of 1/2 inch gypsum board or the equivalent applied to the garage side. (Chapter 4 Section 407.0 of the BOCA/1996)
- ~~*6.~~ All chimneys and vents shall be installed and maintained as per Chapter 12 of the City's Mechanical Code. (The BOCA National Mechanical Code/1993). Chapter 12 & NFPA 211
- ~~7.~~ Sound transmission control in residential building shall be done in accordance with Chapter 12 section 1214.0 of the city's building code.
- ~~*8.~~ Guardrails & Handrails: A guardrail system is a system of building components located near the open sides of elevated walking surfaces for the purpose of minimizing the possibility of an accidental fall from the walking surface to the lower level. Minimum height all Use Groups 42", except Use Group R which is 36". In occupancies in Use Group A, B, H-4, I-1, I-2 M and R and public garages and open parking structures, open guards shall have balusters or be of solid material such that a sphere with a diameter of 4" cannot pass through any opening. Guards shall not have an ornamental pattern that would provide a ladder effect. (Handrails shall be a minimum of 34" but not more than 38". Use Group R-3 shall not be less than 30", but not more than 38".) Handrail grip size shall have a circular cross section with an outside diameter of at least 1 1/4" and not greater than 2". (Sections 1021 & 1022.0) - Handrails shall be on both sides of stairway. (Section 1014.7)
- ~~*9.~~ Headroom in habitable space is a minimum of 7'6". (Section 1204.0)
- ~~*10.~~ Stair construction in Use Group R-3 & R-4 is a minimum of 10" tread and 7 3/4" maximum rise. All other Use group minimum 11" tread, 7" maximum rise. (Section 1014.0) See attachment.
- ~~*11.~~ The minimum headroom in all parts of a stairway shall not be less than 80 inches. (6' 8") 1014.4
- ~~*12.~~ Every sleeping room below the fourth story in buildings of use Groups R and I-1 shall have at least one operable window or

knowledge or separate tools. Where windows are provided as means of egress or rescue they shall have a sill height not more than 44 inches (1118mm) above the floor. All egress or rescue windows from sleeping rooms shall have a minimum net clear opening height dimension of 24 inches (610mm). The minimum net clear opening width dimension shall be 20 inches (508mm), and a minimum net clear opening of 5.7 sq. ft. (Section 1018.6)

13. Each apartment shall have access to two (2) separate, remote and approved means of egress. A single exit is acceptable when it exits directly from the apartment to the building exterior with no communications to other apartment units. Section 1010.1

14. All vertical openings shall be enclosed with construction having a fire rating of at least one (1)hour, including fire doors with self closer's. (Over 3 stories in height requirements for fire rating is two (2) hours.) Section 710.0

15. The boiler shall be protected by enclosing with (1) hour fire-rated construction including fire doors and ceiling, or by providing automatic extinguishment. Table 302.1.1

X16. All single and multiple station smoke detectors shall be of an approved type and shall be installed in accordance with the provisions of the City's Building Code Chapter 9, Section 920.3.2 (BOCA National Building Code/1996), and NFPA 101 Chapter 18 & 19. (Smoke detectors shall be installed and maintained at the following locations):

- In the immediate vicinity of bedrooms
- In all bedrooms
- In each story within a dwelling unit, including basements

In addition to the required AC primary power source, required smoke detectors in occupancies in Use Groups R-2, R-3 and I-1 shall receive power from a battery when the AC primary power source is interrupted. (Interconnection is required) Section 920.3.2

17. A portable fire extinguisher shall be located as per NFPA #10. They shall bear the label of an approved agency and be of an approved type. Section 921.0

18. The Fire Alarm System shall be maintained to NFPA #72 Standard.

19. The Sprinkler System shall maintained to NFPA #13 Standard.

20. All exit signs, lights, and means of egress lighting shall be done in accordance with Chapter 10 Section & Subsections 1023. & 1024. Of the City's building code. (The BOCA National Building Code/1996)

21. Section 25-135 of the Municipal Code for the City of Portland states, "No person or utility shall be granted a permit to excavate or open any street or sidewalk from the time of November 15 of each year to April 15 of the following year".

22. The builder of a facility to which Section 4594-C of the Maine State Human Rights Act Title 5 MRSA refers, shall obtain a certification from a design professional that the plans commencing construction of the facility, the builder shall submit the certification to the Division of Inspection Services.

23. Ventilation shall meet the requirements of Chapter 12 Sections 1210. Of the City's Building Code. (crawl spaces & attics)

X24. All electrical, plumbing and HVAC permits must be obtained by a Master Licensed holders of their trade. No closing in of walls until all electrical (min. 72 hours notice) and plumbing inspections have been done.

25. All requirements must be met before a final Certificate of Occupancy is issued.

X26. All building elements shall meet the fastening schedule as per Table 2305.2 of the City's Building Code. (The BOCA National Building Code/1996).

27. Ventilation of spaces within a building shall be done in accordance with the City's Mechanical Code (The BOCA National Mechanical Code/1993). (Chapter M-16)

X28. Please read and implement the attached Land Use-Zoning report requirements.

X29. Boring, cutting and notching shall be done in accordance with Sections 2305.4.4, 2305.5.1 and 2305.3. of the City's building code.

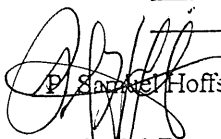
X30. Glass and glazing shall meet the requirements of Chapter 24 of the building code.

X31 ^{table} _{502.3b} The 6x12 build-up beam used to support the second floor MUST be supported by columns OR bearing walls - The columns max. spacing would be 10'-3" for second fl.

X32. A completed external plumbing permit must obtained before work begins - (HHE-200 Form Subsurface Wastewater disposal)

Done 3-

33.

 P. Sargent Hoffses, Building Inspector

cc: Lt. McDougall, PFD

Marge Schmuckal, Zoning Administrator

**CITY OF PORTLAND, MAINE
DEVELOPMENT REVIEW APPLICATION
PLANNING DEPARTMENT PROCESSING FORM**

19990018
I. D. Number

Linda Malmquist
Applicant
61 Dyer Rd, Saco, ME 04072
Applicant's Mailing Address
SAA
Consultant/Agent
283-0753
Applicant or Agent Daytime Telephone, Fax

2/10/99
Application Date
Sandpiper Rd #7
Project Name/Description

Sandpiper Rd, Peaks Island, Peaks Island
Address of Proposed Site
085-M-007
Assessor's Reference: Chart-Block-Lot

Proposed Development (check all that apply):
 Office Retail Manufacturing New Building Warehouse/Distribution Building Addition Parking Lot Change Of Use Other (specify) **shed included - no garage**
 Residential
24 x 32 **24,511 lot of recrd** **IR-1**
Proposed Building square Feet or # of Units Acreage of Site Zoning

Check Review Required:

Site Plan (major/minor) Subdivision # of lots _____ PAD Review 14-403 Streets Review
 Flood Hazard Shoreland Historic Preservation DEP Local Certification
 Zoning Conditional Use (ZBA/PB) Zoning Variance Other _____

Fees Paid: Site Plan _____ Subdivision _____ Engineer Review **\$300.00** Date: **2/10/99**

DRC Approval Status:

Reviewer **Jim Wendel**

Approved Approved w/Conditions see attached Denied
Approval Date **2/17/99** Approval Expiration **2/17/00** Extension to _____ Additional Sheets Attached
 Condition Compliance **Jim Wendel** **2/17/99**
signature date

Performance Guarantee Required* Not Required

* No building permit may be issued until a performance guarantee has been submitted as indicated below

<input type="checkbox"/> Performance Guarantee Accepted	_____	_____	_____
	date	amount	expiration date
<input type="checkbox"/> Inspection Fee Paid	_____	_____	
	date	amount	
<input type="checkbox"/> Building Permit	_____		
	date		
<input type="checkbox"/> Performance Guarantee Reduced	_____	_____	_____
	date	remaining balance	signature
<input type="checkbox"/> Temporary Certificate Of Occupancy	_____	<input type="checkbox"/> Conditions (See Attached)	
	date		
<input type="checkbox"/> Final Inspection	_____	_____	
	date	signature	
<input type="checkbox"/> Certificate Of Occupancy	_____	_____	
	date		
<input type="checkbox"/> Performance Guarantee Released	_____	_____	
	date	signature	
<input type="checkbox"/> Defect Guarantee Submitted	_____	_____	_____
	submitted date	amount	expiration date
<input type="checkbox"/> Defect Guarantee Released	_____	_____	
	date	signature	

CITY OF PORTLAND, MAINE
DEVELOPMENT REVIEW APPLICATION
PLANNING DEPARTMENT PROCESSING FORM
ADDENDUM

19990018
I. D. Number

Linda Malmquist

2/10/99

Applicant

Application Date

61 Dyer Rd, Saco, ME 04072

Sandpiper Rd #7

Applicant's Mailing Address

Project Name/Description

SAA

Sandpiper Rd, Peaks Island, Peaks Island

Consultant/Agent

Address of Proposed Site

283-0753

085-M-007

Applicant or Agent Daytime Telephone, Fax

Assessor's Reference: Chart-Block-Lot

DRC Conditions of Approval

Approved subject to Site Plan Review Addendum Conditions of Approval:

All damage to sidewalk, curb, street, or public utilities shall be repaired to City of Portland standards prior to issuance of a Certificate of Occupancy.

Your new street address is now 9 Sandpiper Road

, the number must be displayed on the street frontage of your house prior to issuance of a Certificate of Occupancy.

The Development Review Coordinator (874-8300 ext.8722) must be notified five (5) working days

prior to date required for final site inspection. Please make allowances for completion of site plan requirements determined to be incomplete or defective during the inspection. This is essential as all site plan requirements must be completed and approved by the Development Review Coordinator prior to issuance of a Certificate of Occupancy. Please schedule any property closing with these requirements in mind.

Show all utility connections: water, sanitary, sewer, storm drain, electric, telephone, cable.

A street opening permit(s) is required for your site. Please contact Carol Merritt ay 874-8300, ext. 8828.

(Only excavators licensed by the City of Portland are eligible.)

The site contractor shall establish finish grades at the foundation, bulkhead and basement windows to be in conformance with the first floor elevation (FFE) and sill elevation (SE) set by the building contractor to provide for positive drainage away from entire footprint of building.

A drainage plan shall be submitted to and approved by Development Review Coordinator showing first floor elevation (FFE), sill elevation (SE), finish street/curb elevation, lot grading, existing and proposed contours, drainage patterns and paths, drainage swales, grades at or near abutting property lines, erosion control devices and locations and outlets for drainage from the property.

The Development Review Coordinator reserves the right to require additional lot grading or other drainage improvements as necessary due to field conditions.

Eroded soil shall be contained on-site.

Planning Conditions of Approval

Inspections Conditions of Approval

1. Separate permits shall be required for future decks, pool, new shed and/or garage.

Fire Conditions of Approval

**CITY OF PORTLAND, ME
BOCA 1996 Plan Review Record
One and Two Family Dwelling**

Valuation: \$50,000 Plan Review # #189-99
 Fee: 270.00 Date: 20 February 1999

Building Location: Sandpiper Rd. Lot #7 P.I CBL: 085-M-007

Building Description: Single family dwelling

Reviewed by: S. Hoffses

Use or Occupancy: R-3 Type of Construction: 5B

*NR: Not Required NA: Not Applicable SR: See Report X: OK per plan

Correction List		
NO:	Description	Code Section
1.	All site plan and building code requirements must be completed before a certificate of occupancy can or will be issued.	111.4
2.	Footings, piers and building framing must be fasten together.	
3.	Concrete shall be protected	1908.0
4.	Chimneys and vents. <small>BOCA Mechanical chapter 12</small>	NFPA 211
5.	Guardrails and handrails	Section 1021.0 1022.0
6.	Habitable headroom	1204.0
7.	Stair Construction	1014.0
8.	Headroom stairs	1014.4
9.	Emergency egress window	1018.6
10.	Smoke detectors	920.3.2
11.	Fastening Schedule	Table 2305.2
12.	Boring, Cutting & Notching	Section 2305.4.4, 2305.5.1, 2305.3

Foundations (Chapter 18)

Wood Foundation (1808)

wood piers Design
NA Installation

Footings (1807.0)

- X Depth below (outside) grade 4' minimum; but below frost line except for insulated footings.
- NA Insulated footing provided
- X Soil bearing value (table 1804.3)
- X Footing width
- X Concrete footing (1810.0) .3.1, 3.2

____ See Report, on back of permit card - 6

Foundation Walls

- NA Design (1812.1)
- Minimum thickness Tables 1812.3.2.(1) & 1812.3.2 (2)
- Water proofing and damp proofing Section 1813
- Sill plate (2305.17)
- Anchorage bolting in concrete (2305.17)
- Columns (1912)
- Crawl space (1210.2) Ventilation
- Crawl opening size (1210.2.1)

Floors (Chapter 16-23)

- X Joists - Non sleeping area LL40PSF (Table - 1606)
- X Joists - Sleeping area LL30PSF (Table - 1606)
- X Grade
- X Spacing
- SR Span
- X Girder 4" bearing 2305

Floors (contd.)

- ~~X~~ Bearing (1 1/2" minimum on wood or steel 3" on masonry) and lapped (3")
- ~~X~~ Bridging (2305.16)
- ~~SR~~ Boring and notching (2305.5.1)
- ~~SR~~ Cutting and notching (2305.3)
- ~~SR~~ Fastening table (2305.2)
- ~~NA~~ Floor trusses (AFPANDS Chapter 35)
- ~~X~~ Draft stopping (721.7)
- ~~X~~ Framing of openings (2305.11) (2305.12)
- ~~X~~ Flooring - (2304.4) 1" solid - 1/2" particle board
- ~~NA~~ Concrete floors (1905) 3 1/2" 6 mil polyethylene vapor retarder

- see report -

Wall Construction (Chapter 2300)

- ~~X~~ Design (1609) wind loads
- ~~X~~ Load requirements
- ~~X~~ Grade
- ~~SR~~ Fastening schedule (Table 2305.2)
- ~~X~~ Wall framing (2305.4.1)
- ~~X~~ Double top plate (2305.4.2)
- ~~X~~ Bottom plates: (2305.4.3)
- ~~SR~~ Notching and boring: (2305.4.4) studs
- ~~X~~ Non load bearing walls (2305.5)
- ~~SR~~ Notching and boring (2305.5.1)
- ~~X~~ Wind bracing (2305.7)
- ~~X~~ Wall bracing required (2305.8.1)
- ~~X~~ Stud walls (2305.8.3)
- ~~X~~ Sheathing installation (2305.8.4)
- ~~X~~ Minimum thickness of wall sheathing (Table 2305.13)
- ~~NA~~ Metal construction
- ~~NA~~ Masonry construction (Chapter 21)
- ~~X~~ Exterior wall covering (Chapter 14)
- ~~X~~ Performance requirements (1403)
- ~~X~~ Materials (1404)
- ~~NA~~ Veneers (1405)
- ~~X~~ Interior finishes (Chapter 8)

Roof-Ceiling Construction (Chapter 23)

- X Roof rafters - Design (2305.15) spans
- X Roof decking and sheathing (2305.15.1) 5/8" boards and (2307.3) (Table 2307.3.1(2))
- NA Roof trusses (2313.3.1)
- _____
- _____
- _____
- _____
- _____

Roof Coverings (Chapter 15)

- X Approved materials (1404.1)
- X Performance requirement (1505)
- X Fire classification (1506)
- X Material and installation requirements (1507)
- NA Roof structures (1510.0)
- X Type of covering (1507)

**Chimneys and Fireplaces
BOCA Mechanical/1993**

- X Masonry (1206.0)
- NA Factory - built (1205.0)
- _____ Masonry fireplaces (1404)
- NA Factory - built fireplace (1403)

**Mechanical
1993 BOCA Mechanical Code**

- _____
- _____
- _____
- _____
- _____
- _____
- _____

State Plumbing Code
Private sub surface

Load Design Criteria

Floor live load sleeping	<u>30 PSF</u>	<u>X</u>
Floor live load non sleeping	<u>40 PSF</u>	<u>X</u>
Roof live load	<u>42 PSF</u>	<u>X</u>
Roof snow load	<u>46 PSF</u>	<u>X</u>
Seismic Zone	<u>2</u>	<u>X</u>
Weathering area	<u>S</u>	<u>X</u>
Frost line depth	<u>4' MIN</u>	<u>X</u>

Glazing (Chapter 24)

- SR Labeling (2402.1)
- | Louvered window or jalousies (2402.5)
- | Human impact loads (2405.0)
- | Specific hazardous locations (2405.2)
- ∨ Sloped glazing and skylights (2404)
- _____
- _____
- _____
- _____
- _____

Private Garages (Chapter 4)

- NA General (407)
- | Beneath rooms (407.3)
- | Attached to rooms (407.4)
- | Door sills (407.5)
- | Means of egress (407.8)
- | Floor surface (407.9)
- _____
- _____
- _____

Egress (Chapter 10)

- ~~X~~ One exit from dwelling unit (1010.2)
- ~~SR~~ Sleeping room window (1010.4)
- ~~X~~ EXIT DOOR (1017.3) 32" W 80" H
- ~~X~~ Landings (1014.3.2) stairway
- ~~NA~~ Ramp slope (1016.0)
- ~~SR~~ Stairways (1014.3) 36" W
- ~~SR~~ Treads (1014.6) 10" min.
- ~~SR~~ Riser (1014.6) 7 3/4" max.
- ~~SR~~ Solid riser (1014.6.1)
- ~~NA~~ Winders (1014.6.3)
- ~~NA~~ Spiral and Circular (1014.6.4)
- ~~SR~~ Handrails (1022.2.2.) Ht.
- ~~SR~~ Handrail grip size (1022.2.4) 1 1/4" to 2"
- ~~SR~~ Guards (1012.0) 36" min.

Smoke Detectors (920.3.2)

- ~~SR~~ Location and interconnection
- ~~SR~~ Power source

Dwelling Unit Separation
Table 602

Applicant:

owner

Red Barnhart, Linda MALINGA

Date:

2/18/99

Address:

Sandpiper Rd

C-B-L:

85-M-7

CHECK-LIST AGAINST ZONING ORDINANCE

Date - New

Zone Location - IR-1

Interior or corner lot -

Proposed Use/Work - construct 1 family dwelling 24x32' house

12'x16 detached tool shed

Sewage Disposal - private

Lot Street Frontage - 100' except for lots of record

Front Yard - 30' req - 50'± shown

Rear Yard - 30' req - 100'+ shown

Side Yard - 20' req - 28' 33' ±, 28' shown

Projections - front steps - front bay window - side chimney

Width of Lot - lot of record? -> yes

Height - 35' MAX - 28' to ridge

Lot Area - 40,000 sq ft with public water / 60,000 sq ft without (24,511 sq ft) ASL

yes ← lot of record? under separate district ownership since 7/15/85 / 2/19/99 received research on lot of record status - ok

Lot Coverage/ Impervious Surface - 20%

Area per Family -

Off-street Parking - d

Loading Bays - N/A

Site Plan - minor/minor

Shoreland Zoning/ Stream Protection - N/A

Flood Plains - Zone C - panel 15

WARRANTY DEED
Joint Tenancy
Maine Statutory Short Form

Know all Persons by these Presents,

That JOHN S. DEXTER JR. AND CAROL C. DEXTER

of Edgecomb , County of Lincoln , State of Maine ,

for consideration paid, grant to LINDA M. MALMQUIST AND RICHARD BARKHUFF

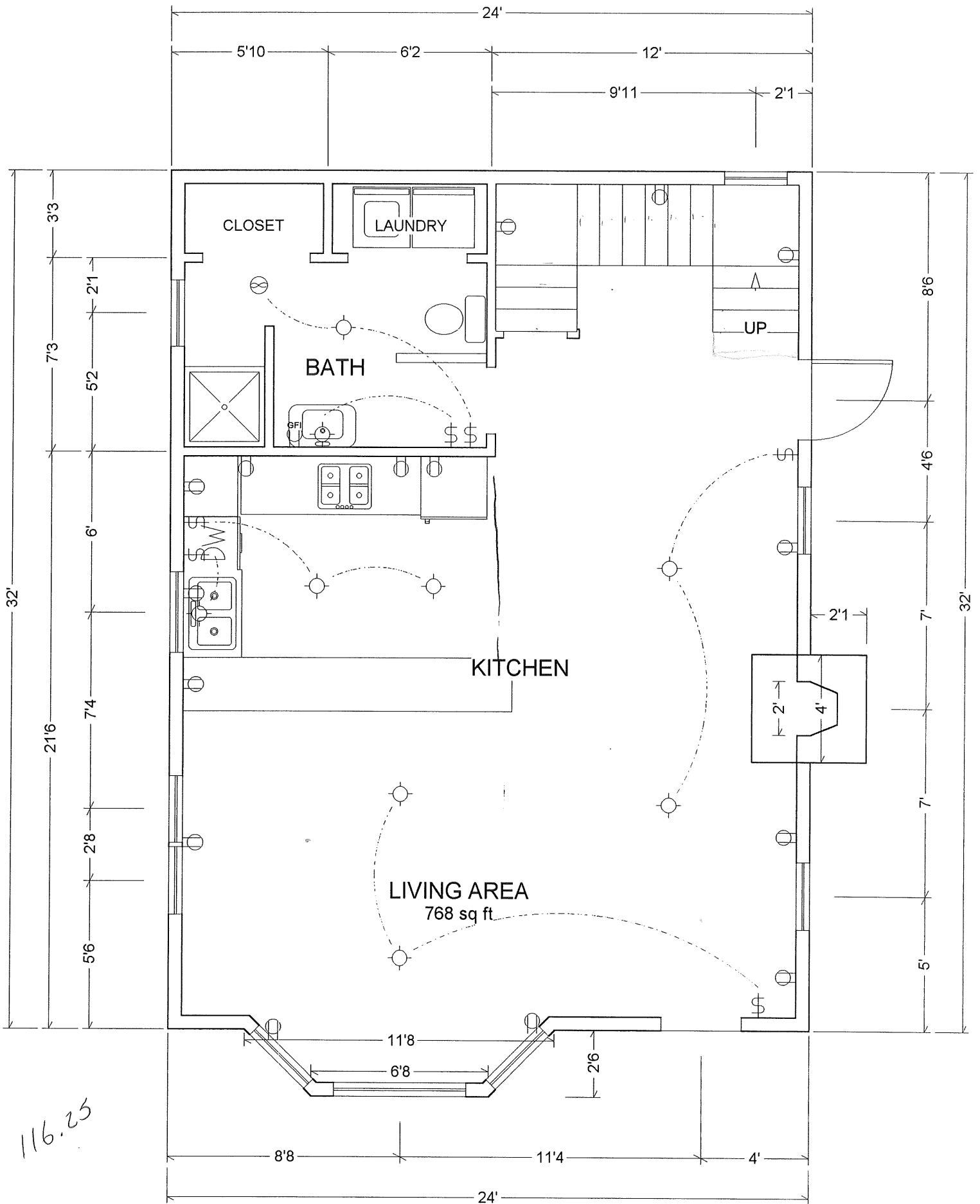
of Saco , County of York , State of Maine ,

whose mailing address is 61 Dyer Street,
Saco, Maine 04072

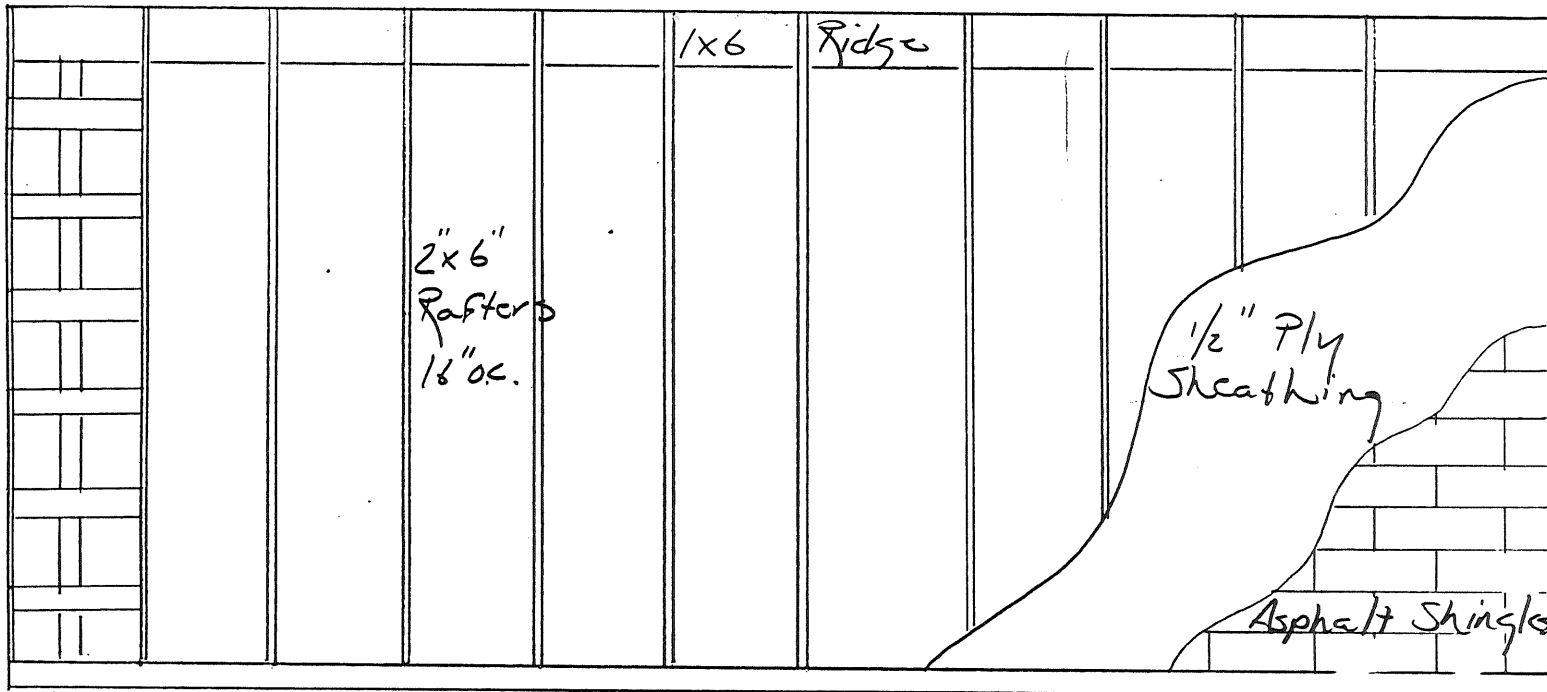
with warranty covenants, as joint tenants the land in Portland , County of Cumberland ,
State of Maine, described as follows: or on the attached:

A certain lot or parcel of land, with the buildings thereon, situated on Peaks Island in the City of Portland, County of Cumberland and State of Maine, being Lot #18 as shown on plan of Ocean Side Project, Peaks Island, Maine, Southgate Subdivision dated January 19, 1969 and recorded in the Cumberland County Registry of Deeds in Plan Book 79, Page 39, to which plan reference is hereby made for a more particular description.

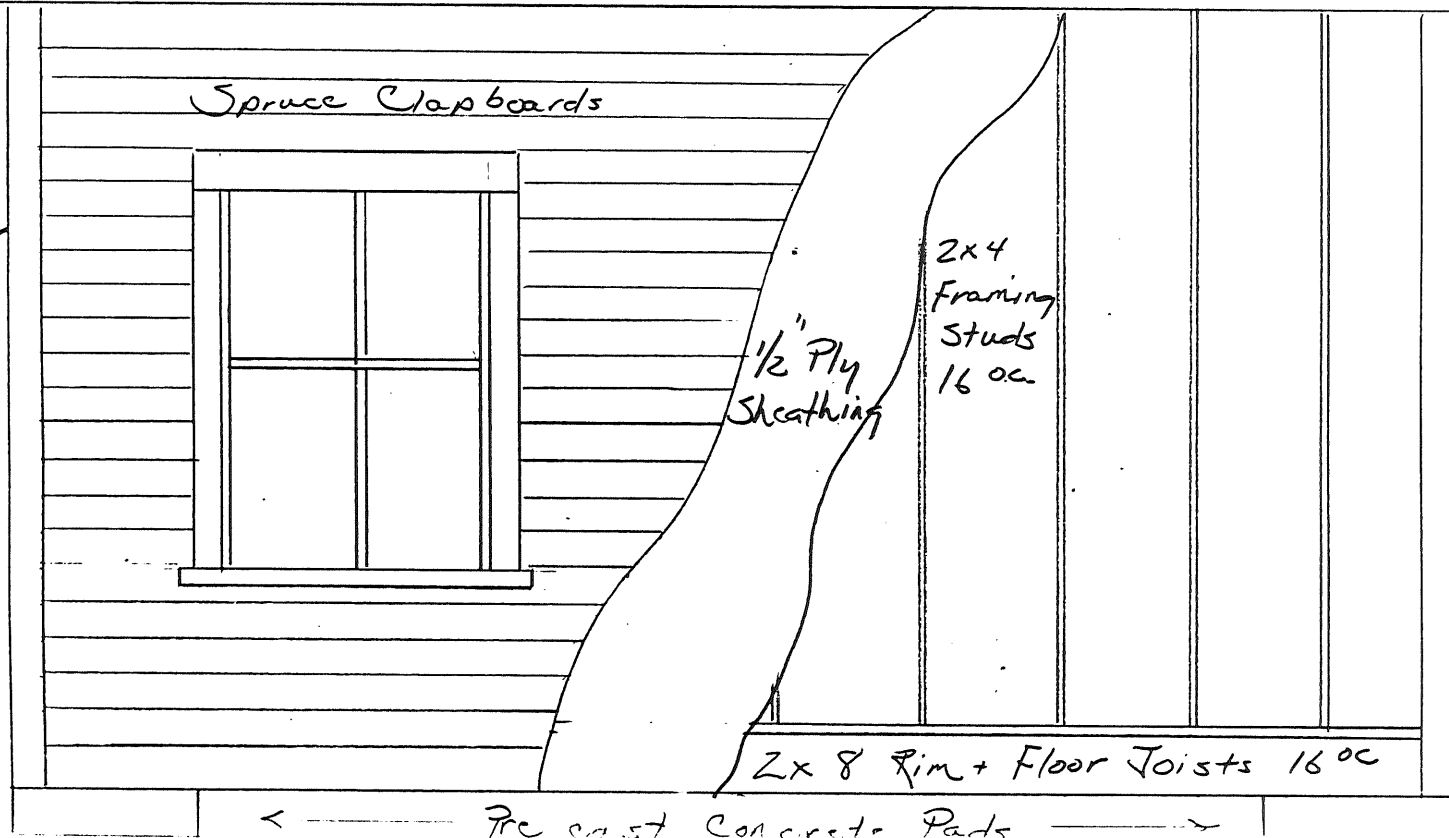
Being the same premises conveyed to the Grantors herein by warranty deed from John C. Kilday and Elizabeth A. Kilday dated March 5, 1973 and recorded in the Cumberland County Registry of Deeds in Book 3366, Page 6.



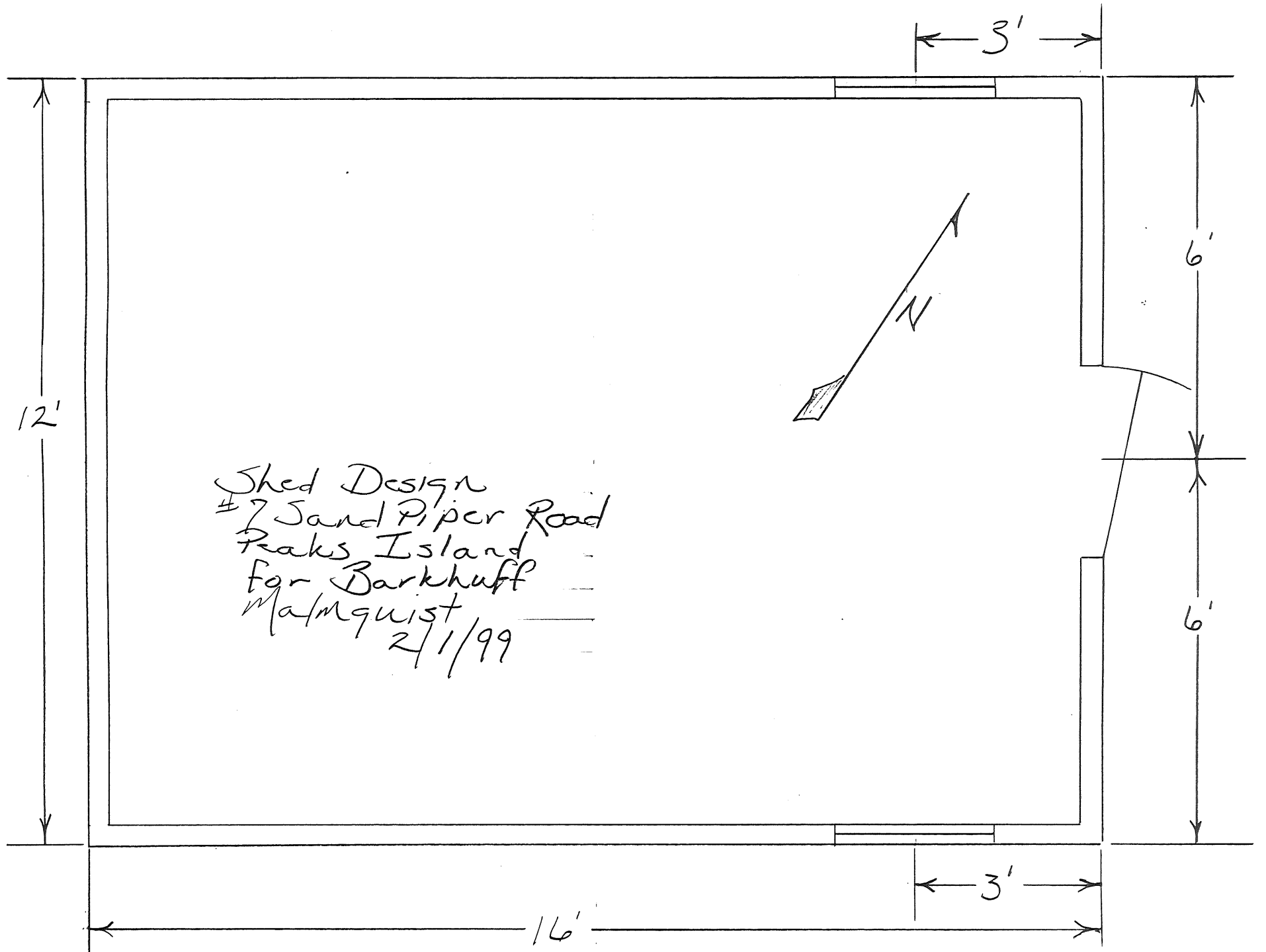
12:12
Pitch



1x4 Trim
Boards



Shed Plan.
7
Sand piper
Road
Peaks
Island
For:
Barkhuff
Malmsquist
2/1/99



Shed Design
#7 Sand Piper Road
Peaks Island
for Barkhuff
Malmquist
2/1/99

2/19/99

City of Portland, Maine

SKI

10:32

Real Property

PB11

Account Inquiry Display

HARMON ARTHUR H &

Account Nbr

MARY ELLEN JTS

H11820-99

14116 TONTINE RD

JACKSONVILLE

FL 32225

Tax Billed: \$908.16
 + Demo Cost: \$.00
 + Secure Cost: \$.00
 Last Payment Date: 09/11/98
 Supp or Abate Date: 00/00/00

Tax Paid: \$454.00
 Interest Paid: \$.00
 Tax Owed: \$454.16
 Tax Abated: \$.00
 Advance Adjs: \$.00
 Advance Amount: \$.00

CBL: 085 M 008 001 Planning Description:
 85-M-8 R SEASHORE AVE
 Bank Code: PEAKS ISLAND
 19800 SQ FT

Land Value: \$35,910
 + Building Value: -----
 Total Value: \$35,910
 - Exempt Value: \$0

Continue [_] Prior Year Acct [_] Next Account _____ - __ [_] Done [_]

Lot of record info received 2/19/99
 085-M-007

#17-0144
 85-M-007
 100-M-58

STREET AND NUMBER

GRANTOR -

Casco Bay Island Development Assoc.

GRANTEE -

Harmon, Margaret L. (Reaks Island)

Reference - 8101/237 Part of 9981/23 Same as -

Rec. 9-17-69 Instr. - 2-C Area - 19800V

Land and buildings

DEV. LOT NO. 19

Oceanside Project

BOOK PAGE 79-39

Description -

Being lot 19 on plan of Oceanside Project Reaks Island Maine South Gate Sub-Division, subject to all exceptions and restrictions.

to include

Atty -

No. of Excep. Consid. \$ U.S.R.S. \$ 1.10 Mortgs. Clerk Date 12/57

LOCATIONS OVER CS 137

(MAKE SEPARATE CARD FOR EACH UNCONNECTED PARCEL IN DEED)

168

2/19/99
10:32

City of Portland, Maine
Real Property
Account Inquiry Display

SKI
PB11

FRIEL TIMOTHY J &
STEPHANIE L JTS
17 SANDPIPER RD
PEAKS ISLAND

ME 04108

Account Nbr
F30175-99

Tax Billed:	\$2,904.30	Tax Paid:	\$1,452.15
+ Demo Cost:	\$.00	Interest Paid:	\$.00
+ Secure Cost:	\$.00	Tax Owed:	\$1,452.15
Last Payment Date:	09/04/98	Tax Abated:	\$.00
Supp or Abate Date:	00/00/00	Advance Adjs:	\$.00
		Advance Amount:	\$.00

CBL: 085	M 006 001	Planning Description:	Land Value:	\$39,150
		85-M-6	+ Building Value:	\$75,690
Bank Code:		SANPIPER RD		-----
		R SEASHORE AVE	Total Value:	\$114,840
		PEAKS ISLAND 23887 SF	- Exempt Value:	\$0

Continue [_] Prior Year Acct [_] Next Account _____ - __ [_] Done [_]

: 19 Feb 99 List Real Property Sales Ratio Data Records 13:00 :

+-----+

Book : 10053 Page: 254

Chart: 085 Ltr: Block: M Lot: 006 Unit: 001 Card: 01

Unit#:

Sale Date - m: 5 d: 7 y: 92 Is Sale Valid? (Y/N): Sale Amount: 33,000

Land Use: 40 Bldg Age: 0 Planning Dist: 0 Zone: Sqft: 0

Units In Sale: 0 Cama/Deed 1 to 1 (Y/N): Prt Cards (Y): Y Part-deed 0

Remarks: SEE 3104/556

Grantor: BLUESTEIN DEMETRA A FKA DEMETRA A SOLOMOS

Grantee: FRIEL TIMOTHY J & STEPHANIE L JTS

Last change performed by User: SMD Via: TE7B On: 93 02 24 At: 12:02:23

+-----+

: Data Set : Land Value : Building Value : Total Value : Price Ratio :

+-----+

: (A) : 32,400 : 0 : 32,400 : 98.2 :

: (B) : 0 : 0 : 0 : 0.0 :

+-----+

: F1:Refresh Screen F2:Next Record F4:Update Record MsgWait:Menu Xmit:[] :

: TQL Messages for SWJ -< >

+-----+

Book : 07578 Page: 189

Chart: 085 Ltr: Block: M Lot: 014 Unit: 000 Card: 00

Unit#:

Sale Date - m: 12 d: 31 y: 86 Is Sale Valid? (Y/N): N Sale Amount: 0

Land Use: 0 Bldg Age: 0 Planning Dist: 0 Zone: Sqft: 0

Units In Sale: 0 Cama/Deed 1 to 1 (Y/N): Prt Cards (Y): Part-deed 1

Remarks: DIVISION PT 4398/234

Grantor: HELLER HOWARD U & BETTY D

Grantee: HLEBICA, DAVID & HOWARD, JENNI FER

Last change performed by User: REAP56 Via: SYS8 On: 87 11 10 At: 10:25:22

+-----+

: Data Set : Land Value : Building Value :

+-----+

: (A) : 0 : 0 :

: (B) : 0 : 0 :

+-----+

: F1:Refresh Screen F2:Next Record F4:Update Record MsgWait:Menu Xmit:[_] :

: TQL Messages for SKI -< >-

Heller

Howard

90

*85 86
Tax Year*

2/19/99
10:32

City of Portland, Maine
Real Property
Account Inquiry Display

SKI
PB11

CURRIE CAROLYN E

Account Nbr
C73700-99

1 BERKELEY ST
NASHUA

NH 03060 2310

Tax Billed:	\$1,042.44	Tax Paid:	\$521.22
+ Demo Cost:	\$.00	Interest Paid:	\$.00
+ Secure Cost:	\$.00	Tax Owed:	\$521.22
Last Payment Date:	09/03/98	Tax Abated:	\$.00
Supp or Abate Date:	00/00/00	Advance Adjs:	\$.00
		Advance Amount:	\$.00

CBL: 085	M 014 001	Planning Description:	Land Value:	\$41,220
		85-M-14	+ Building Value:	
Bank Code:		ALDERBROOK RD &		-----
		ONWAY AVE PEAKS ISLAND	Total Value:	\$41,220
		60780 SF	- Exempt Value:	\$0

Continue [] Prior Year Acct [] Next Account _____-__ [] Done []

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

#99-11-88

PROPERTY LOCATION

Town or Municipality: **PORTLAND (PEAKS ISLAND)**

Street Subdivision Lot #: **SAND PIPER ROAD**

PROPERTY OWNER'S NAME

Last: **BARKHUEF** First: **RICK**

Applicant's Name: _____

Mailing Address of Owner: **6 DYER STREET SACO, ME. 04072**

Daytime Tel. #: _____

PORTLAND PERMIT # 6759 STATE COPY

Date Permit Issued: **2/10/99** \$ **1100** Double Fee Charged

554 Local Plumbing Inspector Signature L.P.I. # **0124**

Municipal Tax Map # **85** Lot # **M-7**

Owner Statement

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

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 Application.

Local Plumbing Inspector Signature _____ Date Approved _____

PERMIT INFORMATION

<p>TYPE OF APPLICATION:</p> <p>1. <input checked="" type="checkbox"/> First Time System</p> <p>2. <input type="checkbox"/> Replacement System Type Replaced _____ Year Installed _____</p> <p>3. <input type="checkbox"/> Expanded System <input type="checkbox"/> a. one time exempted <input type="checkbox"/> b. non exempted</p> <p>4. <input type="checkbox"/> Experimental System</p> <p>5. <input type="checkbox"/> Seasonal Conversion</p>	<p>THIS APPLICATION REQUIRES:</p> <p>1. <input checked="" type="checkbox"/> No Rule Variance</p> <p>2. <input type="checkbox"/> New System Variance (Municipal-soil condition)</p> <p>3. <input type="checkbox"/> First Time System Variance (State)</p> <p>4. <input type="checkbox"/> Replacement System Variance <input type="checkbox"/> a. Local Plumbing Inspector approval <input type="checkbox"/> b. State & Local Plumbing Inspector approval</p> <p>5. <input type="checkbox"/> Minimum Lot Size Variance</p> <p>6. <input type="checkbox"/> Seasonal Conversion Approval</p>	<p>DISPOSAL SYSTEM COMPONENT(S)</p> <p>1. <input checked="" type="checkbox"/> Non-Engineered System</p> <p>2. <input type="checkbox"/> Primitive System (graywater & alt toilet)</p> <p>3. <input type="checkbox"/> Alternative Toilet _____</p> <p>4. <input type="checkbox"/> Non-Engineered Treatment Tank</p> <p>5. <input type="checkbox"/> Holding Tank _____ Gallons</p> <p>6. <input type="checkbox"/> Non-Engineered Disposal Area (only)</p> <p>7. <input type="checkbox"/> Separated Laundry System</p> <p>8. <input type="checkbox"/> Engineered System (>2000 gpd)</p> <p>9. <input type="checkbox"/> Engineered Treatment Tank (only)</p> <p>10. <input type="checkbox"/> Engineered Disposal Area (only)</p> <p>11. <input type="checkbox"/> Pretreatment</p>
<p>SIZE OF PROPERTY</p> <p>: 57 AC.+-</p>	<p>DISPOSAL SYSTEM TO SERVE:</p> <p>1. <input checked="" type="checkbox"/> Single Family Dwelling Unit</p> <p>2. <input type="checkbox"/> Multiple Family Dwelling: Number of Units _____</p> <p>3. <input type="checkbox"/> Other _____</p>	<p>TYPE OF WATER SUPPLY</p> <p>PUBLIC WATER</p>
<p>SHORELAND ZONING</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

<p>TREATMENT TANK</p> <p>1. <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> a. Regular <input checked="" type="checkbox"/> b. Low Profile</p> <p>2. <input type="checkbox"/> Plastic</p> <p>3. <input type="checkbox"/> Other _____</p> <p>SIZE 1000 Gallons</p>	<p>DISPOSAL AREA TYPE / SIZE</p> <p>1. <input type="checkbox"/> Bed _____ Sq. Ft.</p> <p>2. <input checked="" type="checkbox"/> Proprietary Device 900 Sq. Ft. <input type="checkbox"/> Cluster <input checked="" type="checkbox"/> Linear <input checked="" type="checkbox"/> Regular <input type="checkbox"/> H-20</p> <p>3. <input type="checkbox"/> Trench</p> <p>4. <input type="checkbox"/> Other _____</p> <p>18 PLASTIC CHAMBERS</p>	<p>GARBAGE DISPOSAL UNIT</p> <p>1. <input checked="" type="checkbox"/> No</p> <p>2. <input type="checkbox"/> Yes <input type="checkbox"/> Multi-compartment tank <input type="checkbox"/> Tank in series <input type="checkbox"/> Increase in tank capacity <input type="checkbox"/> Filter on tank outlet</p>	<p>CRITERIA USED FOR DESIGN FLOW (Show Calculations)</p> <p>3 BEDROOMS AT 90 GALLONS PER DAY EACH =</p>				
<p>PROFILE & DESIGN CLASS</p> <table border="1"> <tr> <th>PROFILE</th> <th>DESIGN</th> </tr> <tr> <td>2</td> <td>A/c</td> </tr> </table> <p>DEPTH TO MOST LIMITING FACTOR 22"</p>	PROFILE	DESIGN	2	A/c	<p>DISPOSAL AREA SIZING</p> <p>1. <input type="checkbox"/> Small - 2.00</p> <p>2. <input type="checkbox"/> Medium - 2.60</p> <p>3. <input checked="" type="checkbox"/> Medium Large - 3.30</p> <p>4. <input type="checkbox"/> Large - 4.10</p> <p>5. <input type="checkbox"/> Extra-Large - 5.00</p>	<p>PUMPING</p> <p>1. <input type="checkbox"/> Not required</p> <p>2. <input checked="" type="checkbox"/> May be required</p> <p>3. <input type="checkbox"/> Required</p> <p>DOSE _____ Gallons</p>	<p>DESIGN FLOW: 270</p> <p>(Gallons/Day)</p>
PROFILE	DESIGN						
2	A/c						

SITE EVALUATOR'S STATEMENT

On **12/18/97** (date) I completed a site evaluation on this property and state that the data reported is accurate and that the proposed system is in compliance with the Subsurface Wastewater Disposal Rules.

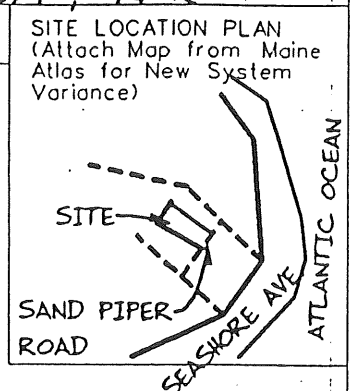
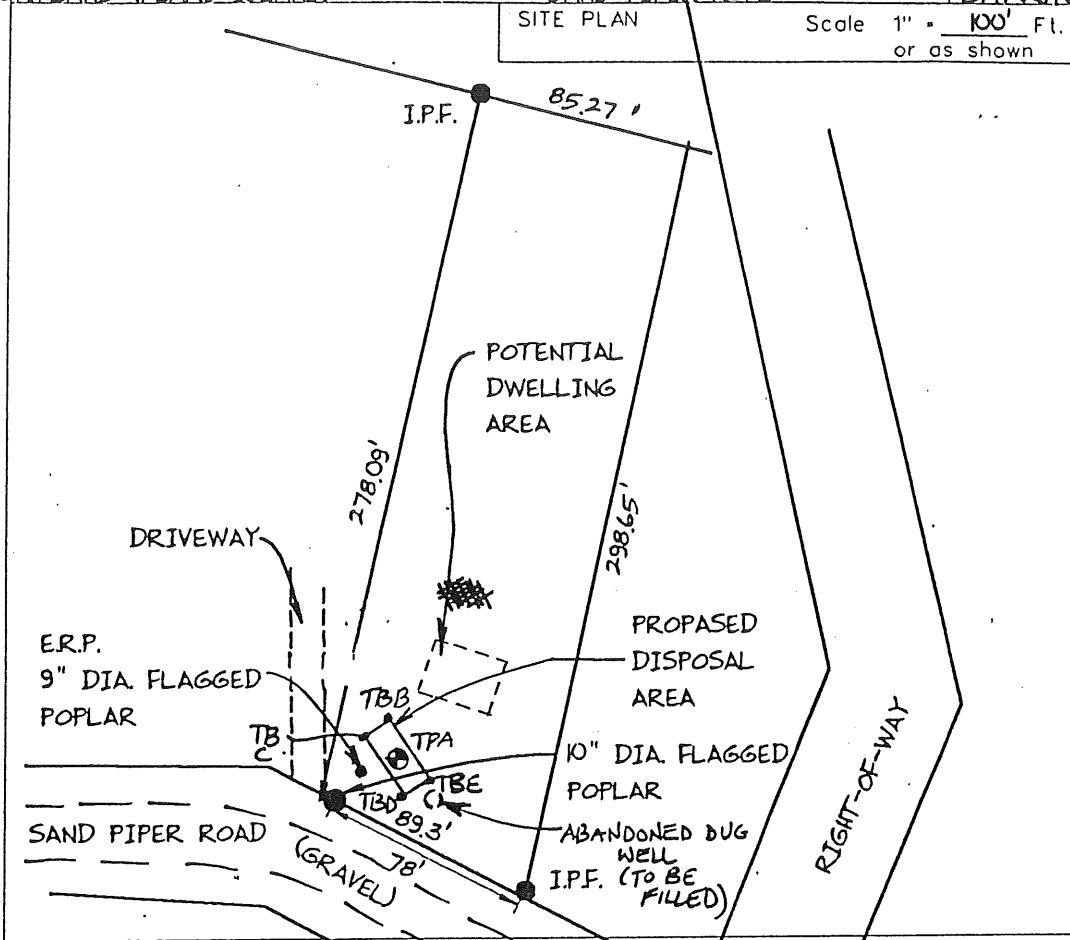
Albert Frick
Site Evaluator Signature

163 SE * **12/23/97** Date
REVISED 7/21/98

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation: **PORTLAND (PEAKS ISLAND)** Street, Road Subdivision: **SAND PIPER ROAD** Owner's Name: **BARKHUFF, RICK**



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

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

Texture	Consistency	Color	Mottling
0 - 10: SANDY LOAM	FRIABLE	DARK BROWN	
10 - 20: SANDY LOAM	FRIABLE	DARK YELLOWISH BROWN	
20 - 30: LOAMY SAND	SOMEWHAT FIRM	MIXED YELLOWISH BROWN	FEL, FAINT
30 - 40: BEDROCK			

Soil Classification: 3	Slope: _____ %	Limiting Factor: 22	<input checked="" type="checkbox"/> Ground Water
Profile: _____	Condition: A/C		<input type="checkbox"/> Restrictive Layer
			<input type="checkbox"/> Bedrock
			<input type="checkbox"/> Pit Depth

Observation Hole TB B-E Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

Texture	Consistency	Color	Mottling
TBB = 38" TO BEDROCK			
TBC = 26" TO BEDROCK			
TBD = 26" TO BEDROCK			
TBE = 22" TO BEDROCK			

Soil Classification: _____	Slope: _____ %	Limiting Factor: 22	<input type="checkbox"/> Ground Water
Profile: _____	Condition: _____		<input type="checkbox"/> Restrictive Layer
			<input type="checkbox"/> Bedrock
			<input type="checkbox"/> Pit Depth

Albert Frick
Site Evaluator Signature

63 SE • 12/23/97 Date

REVISED 7/21/98

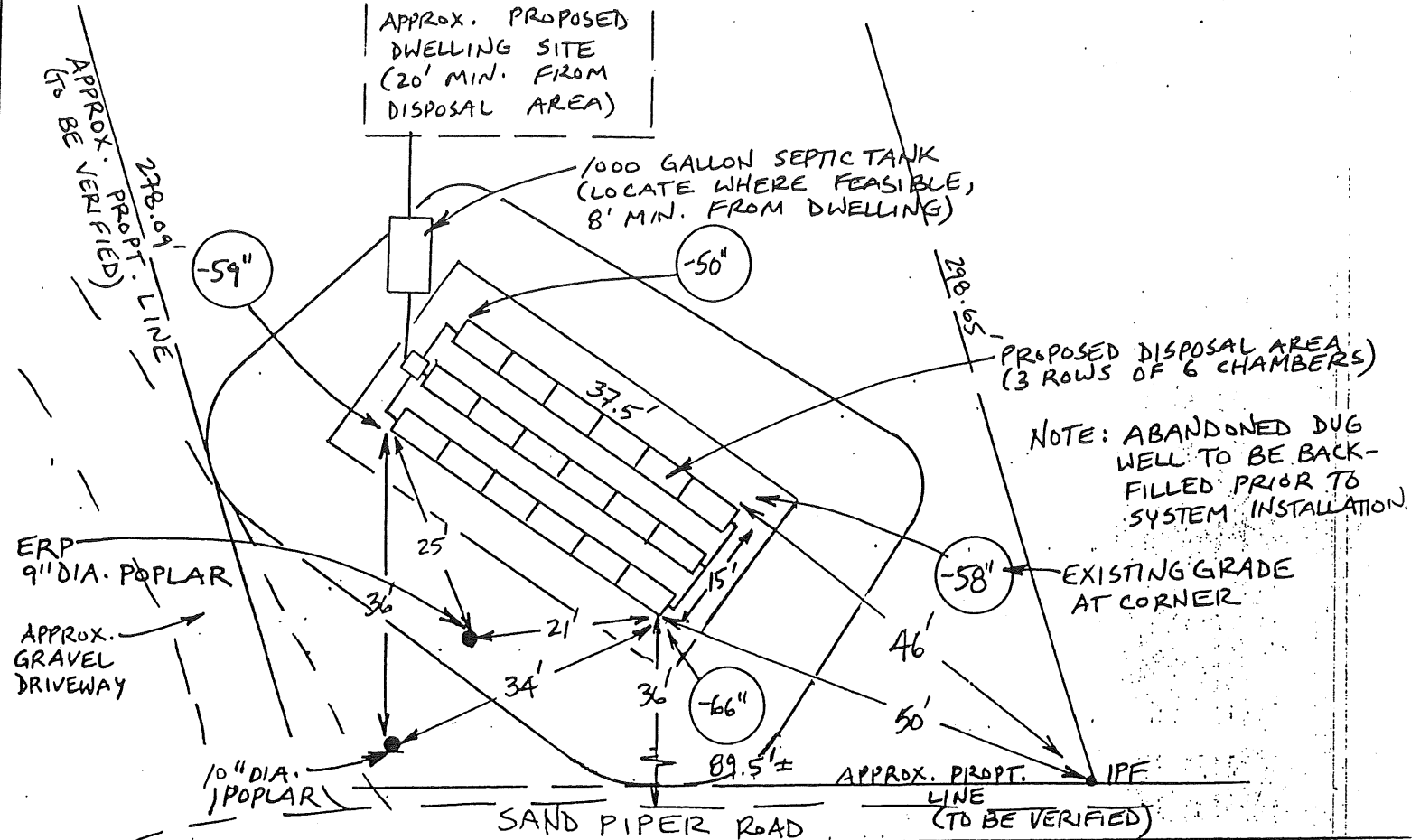
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

Town, City, Plantation: **PORTLAND (PEAKS ISLAND)** Street, Road, Subdivision: **SAND PIPER ROAD** Owner's Name: **BARKHUFF, RICK**

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20' F



FILL REQUIREMENTS

Depth of Fill (Upslope) 22" - 30"
Depth of Fill (Downslope) 31" - 38"

CONSTRUCTION ELEVATIONS

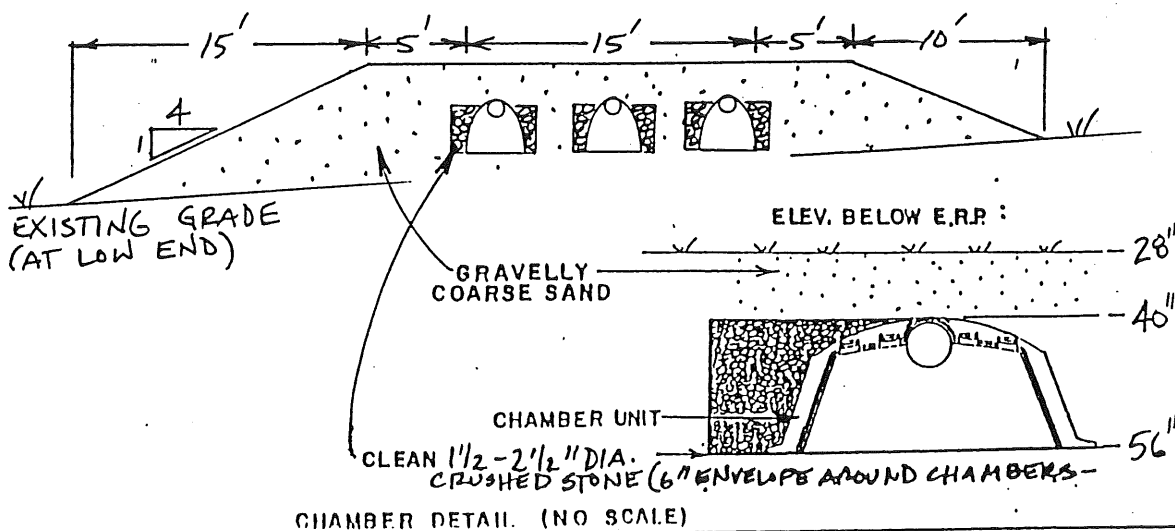
Finished Grade Elevation -28"
Top of Distribution Pipe or Proprietary Device -40"
Bottom of Disposal Area -56"

ELEVATION REFERENCE POINT

Location & Description NAIL 61" AB
BASE OF 9" DIA. FLAGGED
POPLAR
Reference Elevation 00"

DISPOSAL AREA CROSS SECTION

SCALE:
VERTICAL: 1" = 5'
HORIZONTAL: 1" = 10'



CHAMBER DETAIL. (NO SCALE)

Albert Frick
Site Evaluator Signature

163

SE

7/21/98
Date



Albert Frick Associates, Inc.

Soil Scientists & Site Evaluators

95A County Road Gorham, Maine 04038
(207) 839-5563 FAX (207) 839-5564

Albert Frick SS, SE
James Logan SS, SE
Matthew Logan SE

PORTLAND (PEAKS ISLAND) SANDPIPER ROAD RICK BARILHUFF
TOWN LOCATION APPLICANT'S NAME

1) The Plumbing and Subsurface Wastewater Disposal Rules adopted by the State of Maine, Department of Human Services pursuant to 22 M.R.S.A. § 42 (the "Rules") are incorporated herein by reference and made a part of this application and shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system installer should contact Albert Frick Associates, Inc. 839-5563, if there are any questions concerning materials, procedures or designs. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the Rules and with all state and municipal laws and ordinances pertaining to the permitting, inspection and construction of subsurface wastewater disposal systems.

2) This application is intended to represent facts pertinent to the Rules only. It shall be the responsibility of the owner/applicant, system installer and/or building contractor to determine compliance with and to obtain permits under all applicable local, state and/or federal laws and regulations (including, without limitation, Natural Resources Protection Act, wetland regulations, zoning ordinances, subdivision regulations, Site Location of Development Act and minimum lot size laws) before installing this system or considering the property on which the system is to be installed a "buildable" lot. It is recommended that a wetland scientist be consulted regarding wetland regulations.

Prior to the commencement of construction/installation, the local plumbing inspector shall inform the owner/applicant and Albert Frick Associates, Inc. of any local ordinances which are more restrictive than the Rules in order that the design may be amended. All designs are subject to review by local, state and/or federal authorities. Albert Frick Associates, Inc.'s liability shall be limited to revisions required by regulatory agencies pursuant to laws or regulations in effect at the time of preparation of this application.

3) All information shown on this application relating to property lines, well locations, subsurface structures and underground facilities (such as, utility lines, drains, septic systems, water lines, etc.) are based solely upon information provided by the owner/applicant and has been relied upon by Albert Frick Associates, Inc. in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information.

4) Installation of a garbage (grinder) disposal is not recommended. If one is installed, an additional 1000 gallon septic tank or a septic tank filter should be connected in series to the proposed septic tank.

5) The system user shall avoid introducing kitchen grease or fats into this system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment) and controlled or hazardous substances shall not be disposed of in this system.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

PROPERTY LOCATION

Town or Plantation: **PORTLAND (PEAKS ISLAND)**

Street Subdivision Lot #: **SAND PIPER ROAD**

Permit # **6759** Date **2-10-98**
Caution: Permit Required

The Subsurface Wastewater Disposal System shall not be installed until a Permit is attached here by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

PROPERTY OWNER'S NAME

Last: **BARKHUFF** First: **RICK**

Applicant's Name: **Malcolm J. Underwood**

Mailing Address of Owner: **6 DYER STREET SACO, ME. 04072**

Daytime Tel. # _____

Municipal Tax Map # **85** Lot # **M-7**

RI 7-21-99 Caution: Inspection Required
OK to BACK L:11

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

Signature of Owner/Applicant _____ Date _____
Local Plumbing Inspector Signature _____ Date Approved _____

Owner Statement

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

PERMIT INFORMATION

TYPE OF APPLICATION:

- First Time System
- Replacement System
Type Replaced _____
Year Installed _____
- Expanded System
 a. one time exempted
 b. non exempted
- Experimental System
- Seasonal Conversion

SIZE OF PROPERTY
: **57 AC.±**

SHORELAND ZONING
 Yes No

THIS APPLICATION REQUIRES:

- No Rule Variance
- New System Variance (Municipal-soil condition)
- First Time System Variance (State)
- Replacement System Variance
 a. Local Plumbing Inspector approval
 b. State & Local Plumbing Inspector approval
- Minimum Lot Size Variance
- Seasonal Conversion Approval

DISPOSAL SYSTEM TO SERVE:

- Single Family Dwelling Unit
- Multiple Family Dwelling: Number of Units _____
- Other _____

DISPOSAL SYSTEM COMPONENT(S)

- Non-Engineered System
- Primitive System (graywater & all toilet)
- Alternative Toilet _____
- Non-Engineered Treatment Tank
- Holding Tank _____ Gallons
- Non-Engineered Disposal Area (only)
- Separated Laundry System
- Engineered System (+2000 gpd)
- Engineered Treatment Tank (only)
- Engineered Disposal Area (only)
- Pretreatment

TYPE OF WATER SUPPLY
PUBLIC WATER

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

- Concrete
 a. Regular
 b. Low Profile
- Plastic
- Other _____

SIZE: **1000** Gallons

DISPOSAL AREA TYPE / SIZE

- Bed _____ Sq. Ft.
- Proprietary Device **1000** Sq. Ft.
 Cluster Linear
 Regular H-20
- Trench
- Other _____

21 ELJEN IN-DRAIN UNITS

GARBAGE DISPOSAL UNIT

- No
- Yes
 Multi-compartment tank
 Tank in series
 Increase in tank capacity
 Filter on tank outlet
(RECOMMENDED)

CRITERIA USED FOR DESIGN FLOW
(Show Calculations)

3 BEDROOMS AT 90 GALLONS PER DAY EACH =

PROFILE & DESIGN CLASS

PROFILE	DESIGN
2	A/c

DEPTH TO MOST LIMITING FACTOR: **22"**

DISPOSAL AREA SIZING

- Small - 2.00
- Medium - 2.60
- Medium-Large - 3.30
- Large - 4.10
- Extra-Large - 5.00

PUMPING

- Not required
- May be required
- Required

DOSE _____ Gallons

DESIGN FLOW: **270**
(Gallons/Day)

SITE EVALUATOR'S STATEMENT

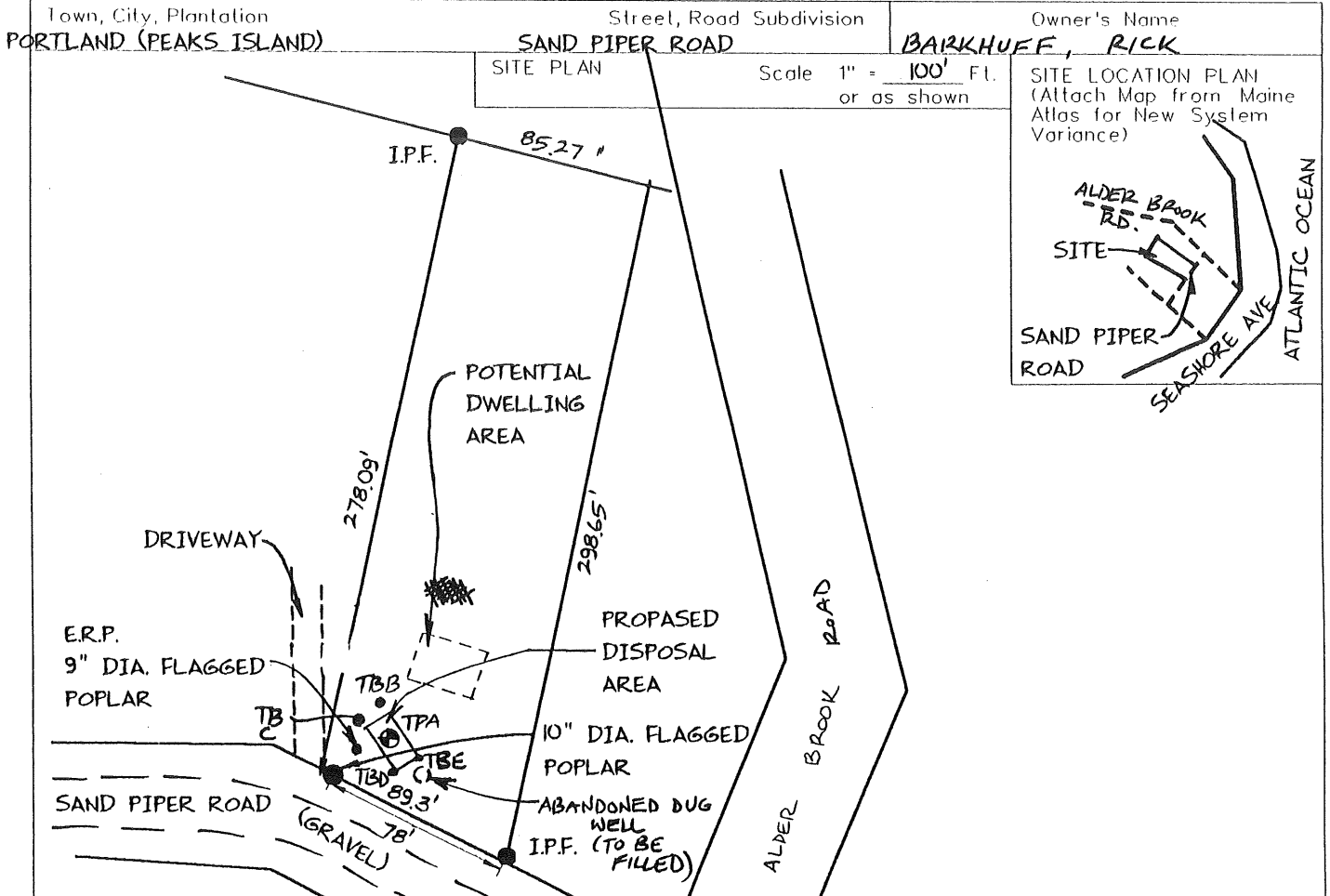
On **12/18/97** (date) I completed a site evaluation on this property and state that the data reported is accurate and that the proposed system is in compliance with the Subsurface Wastewater Disposal Rules.

Albert Frick
Site Evaluator Signature

SE # **163** Date **12/23/97**
REVISED 7/21/98 **4/30/99**

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering



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

Observation Hole: **TPA** Test Pit Boring
 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0			DARK BROWN	
10	SANDY LOAM	FRIABLE	DARK YELLOWISH BROWN	
20				
30	LOAMY SAND	SOMEWHAT FIRM	MIXED YELLOWISH BROWN	FEW, FAINT
40	BEDROCK			
50				

Soil Classification Profile: 3	Slope: _____ %	Limiting Factor: 22"	<input checked="" type="checkbox"/> Ground Water
Condition: A/C			<input type="checkbox"/> Restrictive Layer
			<input type="checkbox"/> Bedrock
			<input type="checkbox"/> Pit Depth

Observation Hole: **TBB-E** Test Pit Boring
 " Depth of Organic Horizon Above Mineral Soil

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

Handwritten notes:
 TBB = 36" TO BEDROCK
 TBC = 26" TO BEDROCK
 TBD = 26" TO BEDROCK
 TBE = 22" TO BEDROCK

Soil Classification Profile: _____	Slope: _____ %	Limiting Factor: 22"	<input type="checkbox"/> Ground Water
Condition: _____			<input type="checkbox"/> Restrictive Layer
			<input type="checkbox"/> Bedrock
			<input type="checkbox"/> Pit Depth

Albert Frick
 Site Evaluator Signature

163 SE # _____ Date: **12/23/97**

REVISED 7/21/98 4/30/99

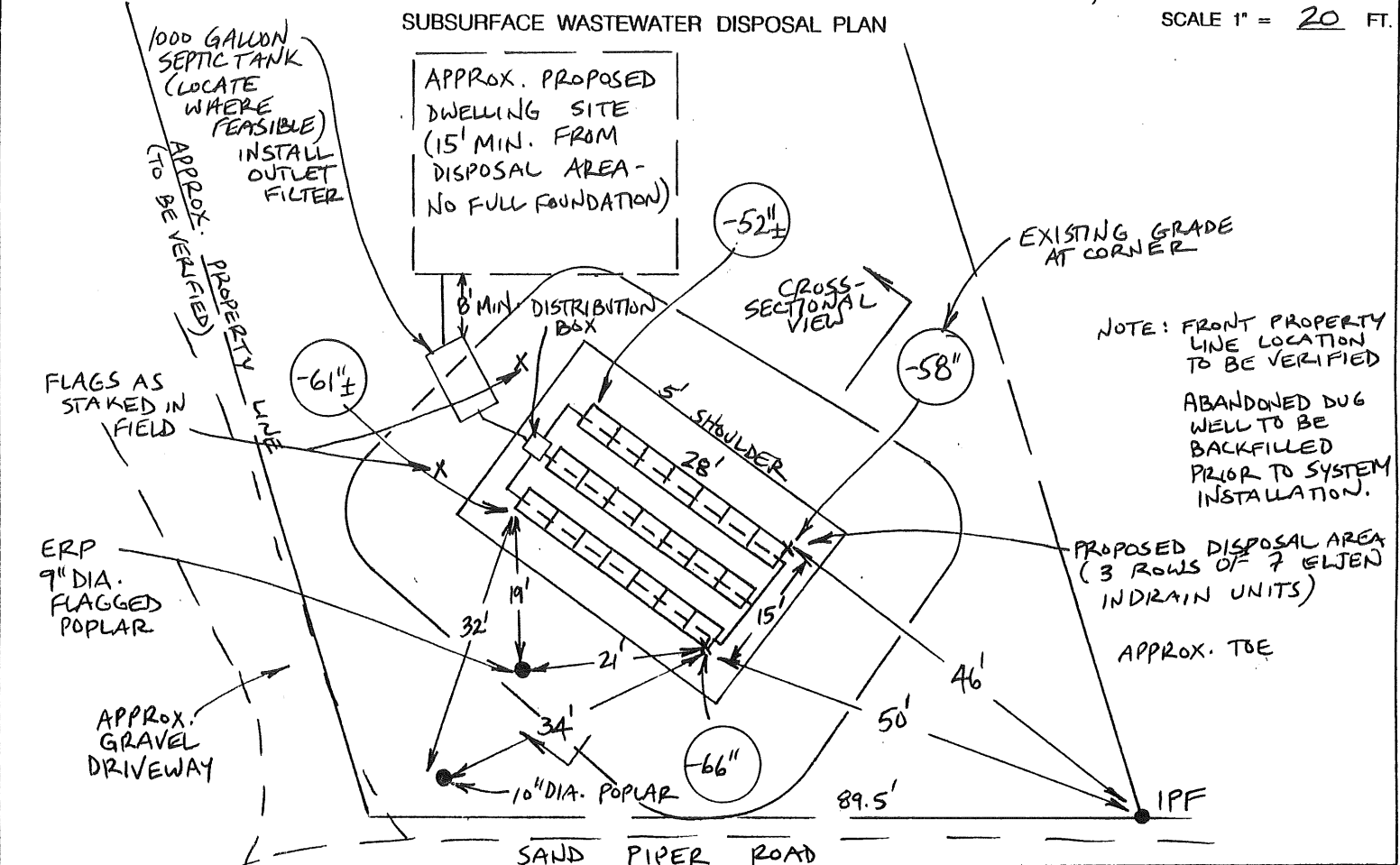
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

Town, City, Plantation: **PORTLAND (PEAKS ISLAND)** Street, Road, Subdivision: **SAND PIPER ROAD** Owner's Name: **BARKHUFF, RICK**

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20 FT.



FILL REQUIREMENTS

Depth of Fill (Upslope) $25'' - 31''$
Depth of Fill (Downslope) $33'' - 39''$

CONSTRUCTION ELEVATIONS

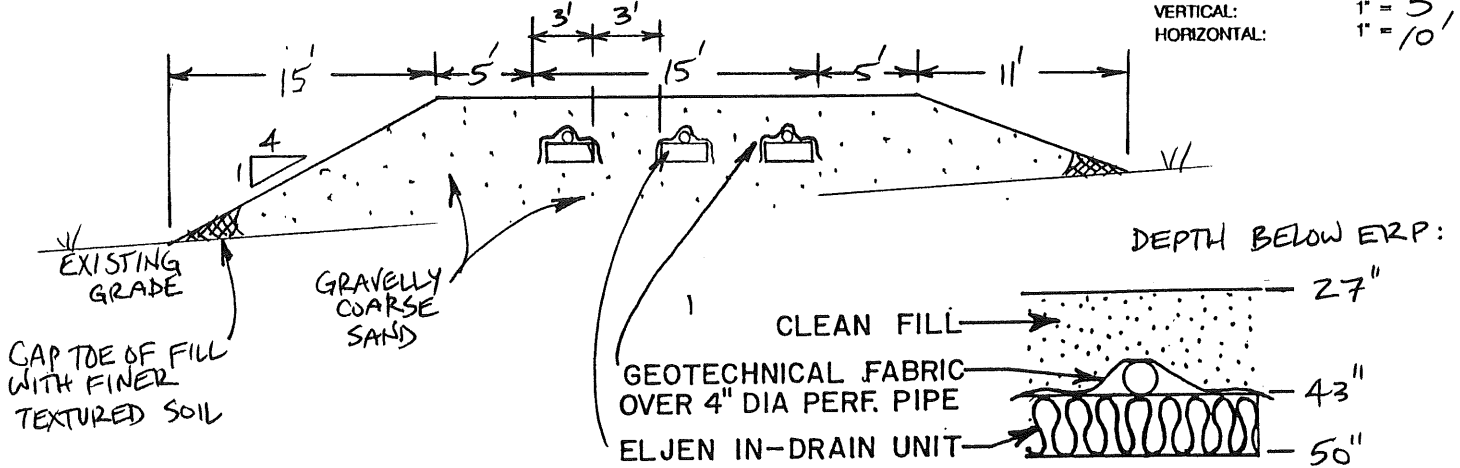
Finished Grade Elevation $-27''$
[Top of Distribution Pipe] or Proprietary Device $-39''$
Bottom of Disposal Area $-50''$

ELEVATION REFERENCE POINT

Location & Description: NAIL 6" ABOVE BASE OF 9" DIA. FLAGGED POPLAR.
Reference Elevation: 00"

DISPOSAL AREA CROSS SECTION

SCALE:
VERTICAL: 1" = 5'
HORIZONTAL: 1" = 10'



DETAIL (NO SCALE)

Albert Frick
Site Evaluator Signature

163
SE

4/30/99
Date



Albert Frick Associates, Inc.

Soil Scientists & Site Evaluators

95A County Road Gorham, Maine 04038
(207) 839-5563 FAX (207) 839-5564

Albert Frick SS, SE
James Logan SS, SE
Matthew Logan SE

PORTLAND (PEAKS ISLAND) SANDPIPER ROAD RICK BARKHUFF
TOWN LOCATION APPLICANT'S NAME

1) The Plumbing and Subsurface Wastewater Disposal Rules adopted by the State of Maine, Department of Human Services pursuant to 22 M.R.S.A. § 42 (the "Rules") are incorporated herein by reference and made a part of this application and shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system installer should contact Albert Frick Associates, Inc. 839-5563, if there are any questions concerning materials, procedures or designs. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the Rules and with all state and municipal laws and ordinances pertaining to the permitting, inspection and construction of subsurface wastewater disposal systems.

2) This application is intended to represent facts pertinent to the Rules only. It shall be the responsibility of the owner/applicant, system installer and/or building contractor to determine compliance with and to obtain permits under all applicable local, state and/or federal laws and regulations (including, without limitation, Natural Resources Protection Act, wetland regulations, zoning ordinances, subdivision regulations, Site Location of Development Act and minimum lot size laws) before installing this system or considering the property on which the system is to be installed a "buildable" lot. It is recommended that a wetland scientist be consulted regarding wetland regulations.

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4) Installation of a garbage (grinder) disposal is not recommended. If one is installed, an additional 1000 gallon septic tank or a septic tank filter should be connected in series to the proposed septic tank.

5) The system user shall avoid introducing kitchen grease or fats into this system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment) and controlled or hazardous substances shall not be disposed of in this system.

ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION

PORTLAND (PEAKS ISLAND) SANDPIPER ROAD RICK BARKHUFF
TOWN LOCATION APPLICANT'S NAME

6) The septic tank should be pumped within two years of installation and subsequently as recommended by the pump service, but in no event should the septic tank be pumped less often than once every three years.

7) The actual water flow or number of bedrooms shall not exceed the design criteria indicated on this application without a re-evaluation of the system as proposed. If the system is supplied by public water or a private service with a water meter, the water consumption per period should be divided by the number of days to calculate the average daily water consumption (water usage (cu.ft.) x 7.48 cu.ft.(gallons per cu.ft.) ÷ # of days in period).

8) The general minimum setbacks between a well and septic system serving a single family residence is 100-300 feet, unless the local municipality has a more stringent requirement. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.

9) When a gravity system is proposed: **BEFORE CONSTRUCTION/INSTALLATION BEGINS**, the system installer or building contractor shall review the elevations of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum slope requirements. In gravity systems, the invert of the septic tank(s) outlet(s) shall be at least 4 inches above the invert of the distribution box outlet at the disposal area. When an effluent pump is required, provisions shall be made to make certain that surface ground water does not enter the septic tank or pump station. An alarm device warning of a pump failure shall be installed. Also, when pumping is required to a chamber system, install a "T" connection in the distribution box and place 3 inches of stone or a splash plate in the first chamber. Insulate gravity pipes, pump lines and the distribution box as necessary to prevent freezing.

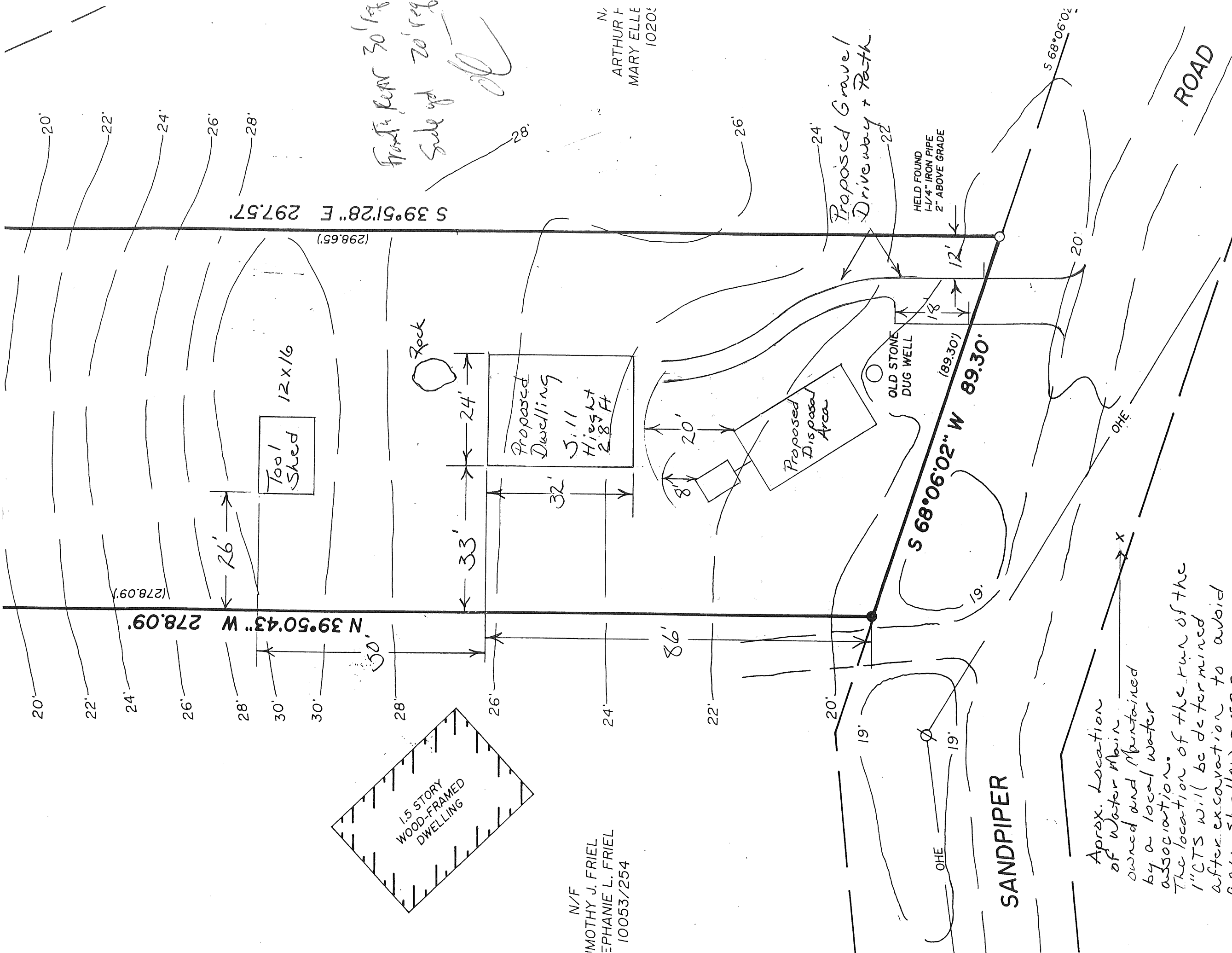
10) On all systems, remove the vegetation, organic duff and old fill material from under the disposal area and any fill extension. On sites where the proposed system is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling to a depth of at least 8 inches over the entire disposal and fill extension area to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper than 8 inches and compact thoroughly before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage). Do not use wheeled equipment on the scarified soil area until after 12 inches of fill is in place. Keep equipment off the chambers. Divert the surface water away from the disposal area by ditching or shallow swales.

11) Unless noted otherwise, fill shall be gravelly coarse sand which contains no more than 5% fines (silt and clay).

12) Do not install systems on loamy, silty, or clayey soils during wet periods since soil smearing/glazing may seal off the soil interface.

13) Seed all filled and disturbed surfaces with perennial grass seed, then mulch with hay or equivalent material to prevent erosion.



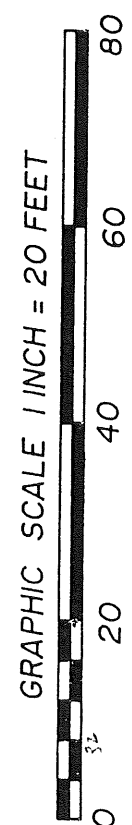


Front's Rear 30' 1/4"
 Side yd 20' reg
 dl

N/
 ARTHUR F
 MARY ELLE
 10201

N/F
 MOTHY J. FRIEL
 EPHANIE L. FRIEL
 10053/254

Approx. Location of Water Main owned and Maintained by a local water association. The location of the run of the 1"CTS will be determined after excavation to avoid any shallow areas



Site Plan for
 Darkhuff Malmquist
 #7 Sandpiper Road
 Peaks Island Maine
 Lot 7 Block M Map 85
 Revised 4/21/99

Items that are Revised; House Moved by 6', Driveway Moved by 7'

WPA Record in Co. Received 2/19/99

Barburs / Malmquist owners lot #7 Bought 1998
 from Dexters. The Dexters Have not owned any of
 the adjoining properties.
 Lot #14 Hutter owned in 85 sold to Howard 87, Curie 90
 Lot #6 Bluestein owned in 82, sold to Friel in 92
 Lot #8 continuous ownership by Arthur Harmon (M) 1969 - Present

NO 85
PEAKS ISLAND

