

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that

BUDINGTON ELIZABETH C & JAMES W FLEMING
JTS/Freedom Fire Protection, Inc

PERMIT ID: 2013-00257

Located at

818 SEASHORE AVE -PEAKS ISLAND

CBL: 091 G037001

has permission to **install a NFPA 13D sprinkler systsem**

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise cloosed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be procured prior to occupancy.


Fire Prevention Officer

(58)

Code Enforcement Officer / Plan Reviewer

**THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
THERE IS A PENALTY FOR REMOVING THIS CARD**

PERMIT ID: 2013-00257

Located at: 818 SEASHORE AVE -PEAKS

CBL: 091 G037001

BUILDING PERMIT INSPECTION PROCEDURES
Please call 874-8703 (ONLY)
or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

REQUIRED INSPECTIONS:

Final - Fire

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No:	Date Applied For:	CBL:
2013-00257	02/06/2013	091 G037001

Location of Construction: 818 SEASHORE AVE -PEAKS ISL	Owner Name: BUDINGTON ELIZABETH C & J	Owner Address: 4 MENLO ST	Phone:
Business Name:	Contractor Name: Freedom Fire Protection, Inc	Contractor Address: 209 Quaker Ridge Road Casco	Phone (207) 627-4109
Lessee/Buyer's Name	Phone:	Permit Type: Fire Suppression Water Based	

Proposed Use: Single Family Home	Proposed Project Description: install a NFPA 13D sprinkler system
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Dept: Zoning Note:	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 02/07/2013 Ok to Issue: <input checked="" type="checkbox"/>
Dept: Fire Note:	Status: Approved w/Conditions	Reviewer: Ben Wallace Jr	Approval Date: 02/28/2013 Ok to Issue: <input checked="" type="checkbox"/>
1) A copy of the required state sprinkler permit with RMS signoff shall be provided prior to the final inspection. 2) The sprinkler system shall be installed in accordance with NFPA 13D. 3) All control valves shall be supervised in accordance with NFPA 13D. Pad locks shall only be installed on valves designed to be secured in the open position by pad lock.			

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 2013-00257	Issue Date:	CBL: 091 G037001
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Location of Construction: 818 SEASHORE AVE <i>P.I.</i>	Owner Name: BUDINGTON ELIZABETH C & JAMES W FLEMING JTS	Owner Address: 4 MENLO ST BRIGHTON, MA 02135	Phone:
Business Name:	Contractor Name: Freedom Fire Protection, Inc	Contractor Address: 209 Quaker Ridge Road Casco ME 04015	Phone (207) 627-4109
Lessee/Buyer's Name	Phone:	Permit Type: Fire Suppression Water Based	Zone: IR-1
Past Use: Single Family Home - Connected to Permit# 201250248	Proposed Use: Single Family Home	Permit Fee: \$90.00	Cost of Work: \$6,692.00
		FIRE DEPT: <i>2/28/13</i> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> N/A	INSPECTION: Use Group: Type:
Proposed Project Description: Install a Fire Sprinkler System		Signature: <i>[Signature]</i> <i>58</i>	Signature:
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature: Date:	

Permit Taken By: LDOBSON	Date Applied For: 02/06/2013	Zoning Approval		
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..		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"/> <i>ok</i> Date: <i>2/17/13</i>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date:	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>[Signature]</i>

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 provision of the code(s) applicable to such permit.

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

One- or Two-family Fire Sprinkler Permit

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

Installation address: 818 Sea Shore Avenue, Peaks Island Maine 04108

Building owner: Douglas Wilber Phone: 207-766-5992

Installer: Freedom Fire Protection, Inc. Phone: 207-627-4109

Total sq/ft of building floor space per unit: 1,500sq/ft ☒ Single-family home
or

Sq/ft of sprinklered floor space per unit: 1,500sq/ft ☐ Two-family home

Is this a multipurpose piping system? Y / N Sprinkler piping uses Pex? Y / N

Water supply: ☐ Municipal Water ☐ Well pump ☒ Stored water ☐ Other

Include electronic copy of approved State Sprinkler Permit plans: ☒

Additional cost to the owner for the home fire sprinkler system for each dwelling unit minus costs necessary for domestic needs (See below): **A=** \$6,692.00

Attach cost breakdown: ☒

A City plumbing permit has been pulled: ☐

COST OF WORK: \$6,692.00
(A times number of units)

NO FEE REQUIRED

RECEIVED

FEB 06 2013

Dept of Building Inspections
City of Portland Maine

Additional information and frequently asked questions about home fire sprinkler systems may be found at

www.portlandmaine.gov/fireprevention.

Sprinkler system cost must deduct costs that would have been incurred if the system did not provide sprinkler service. In a well pump system it would include the difference between the well pump to be installed and the one that would have been installed if there were no sprinkler demand on the system. Includes additional piping and valves that are required only because of NFPA Standard 13D, and not already required for domestic needs. Includes cost of sprinkler heads and additional installation costs.



... Fire Protection by Computer Design

FREEDOM FIRE PROTECTION INC.
209 QUAKER RIDGE ROAD
CASCO, MAINE 04015
207-627-4109

Job Name : BUDINGTON RESIDENCE
Building : 818 SEASHORE AVENUE
Location : PEAKS ISLAND, MAINE 04108
System : #1 AREA #1
Contract :
Data File : BUDINGTON RESIDENCE HC.WXF

HYDRAULIC DESIGN INFORMATION SHEET

Name - BUDINGTON RESIDENCE Date - 1/27/13
Location - PEAKS ISLAND, MAINE 04108
Building - 818 SEASHORE AVENUE System No. - #1 AREA #1
Contractor - FREEDOM FIRE PROTECTION Contract No. -
Calculated By - MICHAEL NOBLIT Drawing No. - FP-2
Construction: (X) Combustible () Non-Combustible Ceiling Height VARIES
OCCUPANCY - SUMMER HOME

S Type of Calculation: (X)NFPA 13 Residential ()NFPA 13R (X)NFPA 13D
Y Number of Sprinklers Flowing: ()1 (X)2 ()4 ()
S () Other
T () Specific Ruling Made by Date
E
M Listed Flow at Start Point - 14 Gpm System Type
Listed Pres. at Start Point - 10.1 Psi (X) Wet () Dry
D MAXIMUM LISTED SPACING 14' x 14' () Deluge () PreAction
E Domestic Flow Added - 0 Gpm Sprinkler or Nozzle
S Additional Flow Added - 0 Gpm Make TYCO Model LFII
I Elevation at Highest Outlet - 21'-8" Feet Size 1/2" K-Factor 4.4
G Note: Temperature Rating 155
N

Calculation Gpm Required 28.538 Psi Required 29.469 At Test
Summary C-Factor Used: Overhead 150 Underground

W Water Flow Test: Pump Data: Tank or Reservoir:
A Date of Test - Rated Cap. 40 Cap.
T Time of Test - @ Psi 40 Elev.
E Static (Psi) - Elev.
R Residual (Psi) - Other Well
Flow (Gpm) - Proof Flow Gpm
S Elevation -

P Location:

P
L Source of Information:
Y

Water Supply Curve (C)

FREEDOM FIRE PROTECTION INC.
BUDINGTON RESIDENCE

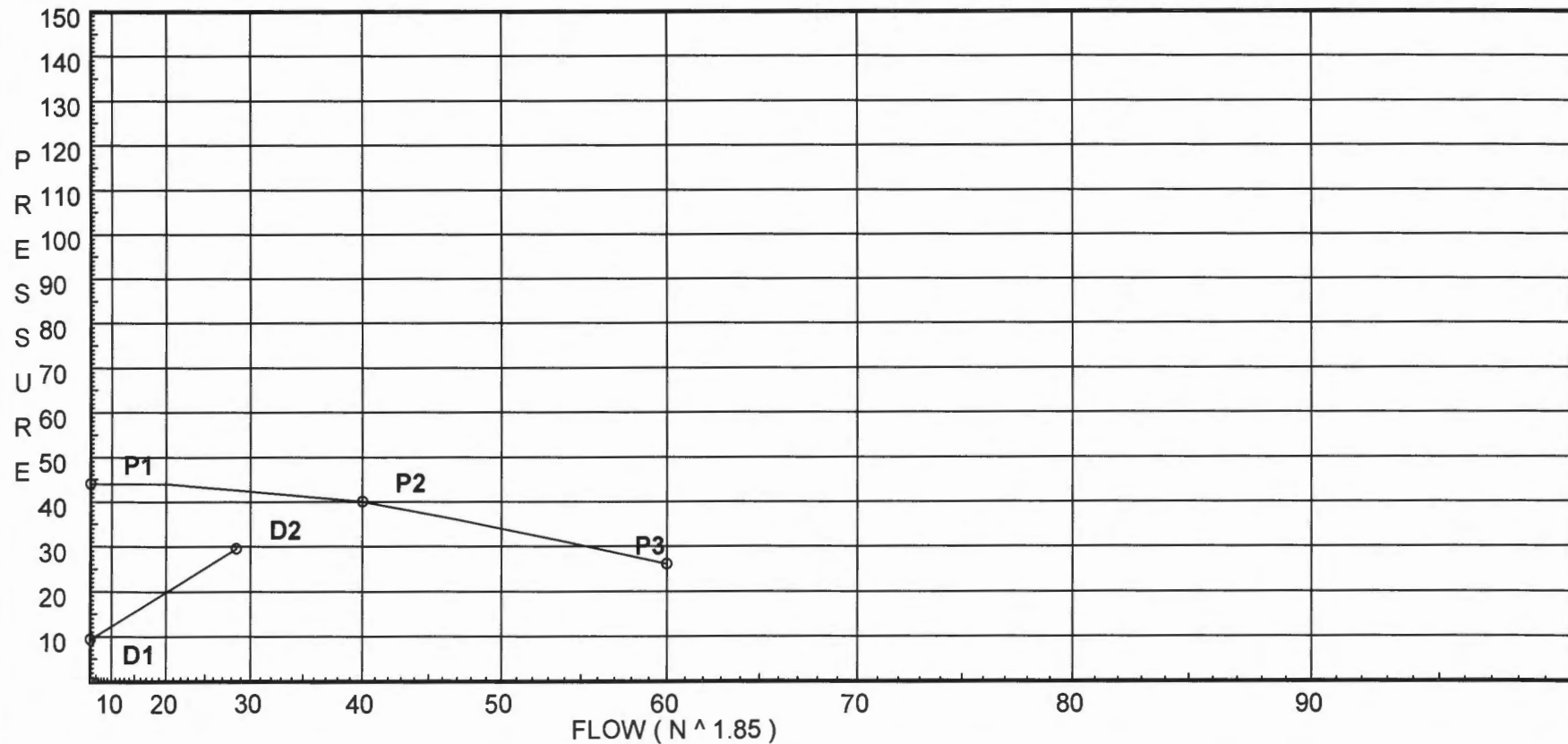
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Date 1/27/13

Pump Data:

P1 - Pump Churn Pressure	: 44
P2 - Pump Rated Pressure	: 40
P2 - Pump Rated Flow	: 40
P3 - Pump Pressure @ Max Flow	: 26
P3 - Pump Max Flow	: 60

Demand:

D1 - Elevation	: 9.381
D2 - System Flow	: 28.5379
D2 - System Pressure	: 29.469
Hose (Adj City)	:
Hose (Demand)	:
D3 - System Demand	: 28.5379
Safety Margin	: 13.096



Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
101	21.66	4.4	10.94	na	14.55	0.05	0.001	10.1
14	21.66		11.32	na				
13	15.083		14.56	na				
12	15.083		15.03	na				
11	5.83		19.75	na				
10	5.83		20.16	na				
102	21.66	4.4	10.1	na	13.98	0.05	0.001	10.1
9	21.66		10.25	na				
8	15.083		13.47	na				
7	15.083		14.1	na				
6	5.83		18.57	na				
5	5.83		19.16	na				
4	5.83		20.71	na				
3	5.83		21.3	na				
2	5.83		23.97	na				
1	0.0		29.22	na				
TEST	0.0		29.47	na				

The maximum velocity is 10.59 and it occurs in the pipe between nodes 3 and 2

Final Calculations - Hazen-Williams

FREEDOM FIRE PROTECTION INC.
BUDINGTON RESIDENCE

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Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	***** Notes *****
101 to 14	14.55 14.55	1.101 150 0.0378	1T 0.0 0.0	9.563 0.0 10.062	0.500 9.562 0.0	10.942 0.0 0.380	K Factor = 4.40 Vel = 4.90
14 to 13	0.0 14.55	1.101 150 0.0379	1E 0.0 0.0	3.825 0.0 10.408	6.583 3.825 0.394	11.322 2.848 0.394	Vel = 4.90
13 to 12	0.0 14.55	1.101 150 0.0378	2E 0.0 0.0	7.65 0.0 12.310	4.660 7.650 0.0	14.564 0.0 0.465	Vel = 4.90
12 to 11	0.0 14.55	1.101 150 0.0378	1T 0.0 0.0	9.563 0.0 18.812	9.250 9.562 0.712	15.029 4.007 0.712	Vel = 4.90
11 to 10	0.0 14.55	1.049 120 0.0722	1T 0.0 0.0	5.0 0.0 5.750	0.750 5.000 0.415	19.748 0.0 0.415	Vel = 5.40
10 to 3	0.0 14.55	1.049 120 0.0723	1T 0.0 0.0	5.0 0.0 15.660	10.660 5.000 1.132	20.163 0.0 1.132	Vel = 5.40
	0.0 14.55					21.295	K Factor = 3.15
102 to 9	13.98 13.98	1.101 150 0.0351	1E 0.0 0.0	3.825 0.0 4.325	0.500 3.825 0.152	10.100 0.0 0.152	K Factor = 4.40 Vel = 4.71
9 to 8	0.0 13.98	1.101 150 0.0352	1E 0.0 0.0	3.825 0.0 10.408	6.583 3.825 0.366	10.252 2.848 0.366	Vel = 4.71
8 to 7	0.0 13.98	1.101 150 0.0351	1E 1T 0.0	3.825 9.563 0.0	4.830 13.387 0.0	13.466 0.0 0.639	Vel = 4.71
7 to 6	0.0 13.98	1.101 150 0.0351	1E 0.0 0.0	3.825 0.0 13.075	9.250 3.825 0.459	14.105 4.007 0.459	Vel = 4.71
6 to 5	0.0 13.98	1.049 120 0.0672	1T 0.0 0.0	5.0 0.0 8.830	3.830 5.000 0.593	18.571 0.0 0.593	Vel = 5.19
5 to 4	0.0 13.98	1.049 120 0.0671	1E 0.0 0.0	2.0 0.0 23.000	21.000 2.000 1.544	19.164 0.0 1.544	Vel = 5.19
4 to 3	0.0 13.98	1.049 120 0.0671	0.0 0.0 0.0	8.750 0.0 8.750	20.708 0.0 0.587	0.0 0.0 0.587	Vel = 5.19
3 to 2	14.56 28.54	1.049 120 0.2512	1E 0.0 0.0	2.0 0.0 10.660	8.660 2.000 2.678	21.295 0.0 2.678	Vel = 10.59

Final Calculations - Standard

FREEDOM FIRE PROTECTION INC.
BUDINGTON RESIDENCE

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Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	***** Notes *****
2 to 1	0.0 28.54	1.049 120 0.2512	1S	5.0 0.0 0.0	5.830 5.000 10.830	23.973 2.525 2.720	Vel = 10.59
1 to TEST	0.0 28.54	1.049 120 0.2510		0.0 0.0 0.0	1.000 0.0 1.000	29.218 0.0 0.251	Vel = 10.59
	0.0 28.54				29.469		K Factor = 5.26