

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2012-11-5413-FAFS	Date Applied: 11/16/2012	CBL: 156- C-001-001	
Location of Construction: 35 BAY ST	Owner Name: DIANE GULLIKSON	Owner Address: 35 BAY ST PORTLAND, MAINE 04103	Phone:
Business Name:	Contractor Name: FREEDOM FIRE PROTECTION	Contractor Address: 209 QUAKER RIDGE RD CASCO MAINE 04015	Phone: (207) -627-4109
Lessee/Buyer's Name:	Phone:	Permit Type: SPRINKLER SYSTEM	Zone: R-3
Past Use: Single family dwelling	Proposed Use: Same: Single family dwelling – to install fire suppression system	Cost of Work: \$6,000.00 Fire Dept: 12/24/12 <input checked="" type="checkbox"/> Approved w/ conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A Signature: <i>[Signature]</i> (58)	CEO Initials: Inc Use T
Proposed Project Description: One Family sprinkler (no charge)		Pedestrian Activities District (P.A.D.)	

Permit Taken By: Brad	Zoning Approval		
<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building Permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.</p>	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan <input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM Date: <i>OK</i> <i>11/20/12</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 Dist or Land <input type="checkbox"/> Does not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Condition <input type="checkbox"/> Denied Date: <i>S</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 appication 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

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that

GULLIKSON DIANE M /Freedom Fire Protection, Inc

Located at

35 BAY ST

PERMIT ID: 2012-50305

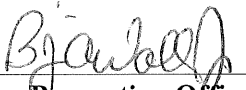
CBL: 156 C001001

has permission to **install NFPA 13D sprinkler system**

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes 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 closed-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**

SCANNED

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: 201250305	Date Applied For: 11/16/2012	CBL: 156 C001001
-------------------------	---------------------------------	---------------------

Location of Construction: 35 BAY ST	Owner Name: GULLIKSON DIANE M	Owner Address: 35 BAY 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 Alarm System	

Proposed Use: One Family sprinkler (no charge)	Proposed Project Description: install NFPA 13D sprinkler system
---	--

Dept: Zoning	Status: Approved	Reviewer: Marge Schmuckal	Approval Date: 11/20/2012	Ok to Issue: <input checked="" type="checkbox"/>
Note:				
Dept: Fire	Status: Approved w/Conditions	Reviewer: Ben Wallace Jr	Approval Date: 12/24/2012	Ok to Issue: <input checked="" type="checkbox"/>
Note:				
1) A copy of the required state sprinkler permit with RMS signoff shall be provided prior to the final inspection.				
2) 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.				
3) The sprinkler system shall be installed in accordance with NFPA 13D.				

Entered 11/16/12

(Handwritten initials)

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.

156 Cool # 2012-11-5413-FAFS

Installation address: 35 Bay Street, Portland Maine

Building owner: KR Stiffler Construction *Diane Gullison* Phone: 207-400-7140

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

Total sq/ft of building floor space per unit: 1,276sq/ft Single-family home
or

Sq/ft of sprinklered floor space per unit: _____ 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=** \$5,305.00

Attach cost breakdown: A City plumbing permit has been pulled:

RECEIVED
NOV 16 2012
Dept. of Building Inspections
City of Portland Maine

COST OF WORK: \$5,305.00
(A times number of units)

NO FEE REQUIRED

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.

Freedom Fire Protection, Inc.

30 Years of Fire Protection Experience

209 Quaker Ridge Road

Casco, Maine 04015

Phone (207) 627-4109 Fax (207) 627-7340

November 15, 2012

Portland City Hall
Third Floor Room #315
Portland, Maine 04101

Attention: Captain Chris Pirone

Ref: 35 Bay Street
Portland, Maine

Subject: Fire Sprinkler Plan Review

Enclosed please find for your review and comment the following sprinkler information.

- Fire Suppression System Permit
- Freedom Fire Protections drawing FP1
- Hydraulic Calculations
- CD Copy of Drawings and Calculations

Please get in touch with me to discuss any questions or if you need additional information.

Regards,

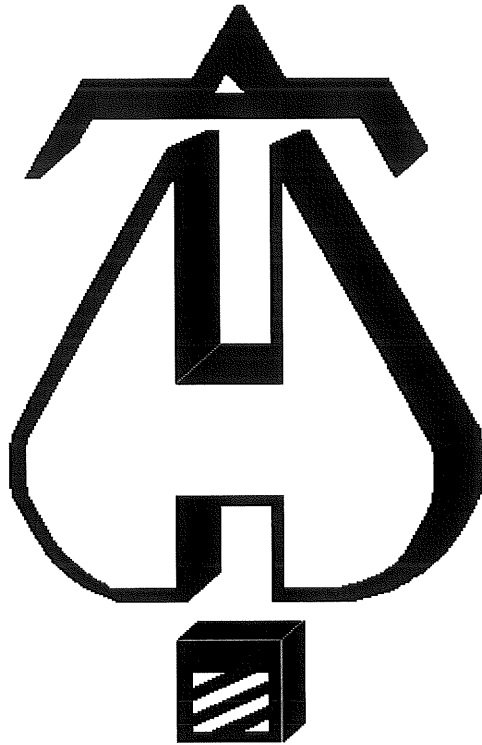
Mark Radziszewski

(O) 207-627-4109

(F) 207-627-7340

(C) 207-318-9992

E-mail markrad@maine.rr.com



... Fire Protection by Computer Design

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

Job Name : 35 BAY STREET
Building : 35 BAY STREET
Location : PORTLAND, MAINE 04103
System : #1 AREA #1
Contract :
Data File : 35 BAY STREET HC.WXF

HYDRAULIC DESIGN INFORMATION SHEET

Name - 35 BAY STREET Date - 11/12/12
Location - PORTLAND, MAINE 04103
Building - 35 BAY STREET System No. - #1 AREA #1
Contractor - FREEDOM FIRE PROTECTION Contract No. -
Calculated By - MICHAEL NOBLIT Drawing No. - FP-1
Construction: (X) Combustible () Non-Combustible Ceiling Height 8'-0"
OCCUPANCY - HOUSE

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 - 26'-6"Feet Size 1/2" K-Factor 4.4
G Note: Temperature Rating 155
N

Calculation Gpm Required 28.197 Psi Required 84.630 At Test
Summary C-Factor Used: Overhead 150 Underground 140

W Water Flow Test: Pump Data: Tank or Reservoir:
A Date of Test - 2/14/2012 Rated Cap. Cap.
T Time of Test - @ Psi Elev.
E Static (Psi) - 90 Elev.
R Residual (Psi) - 0 Other Well
Flow (Gpm) - 1038 Proof Flow Gpm
S Elevation -

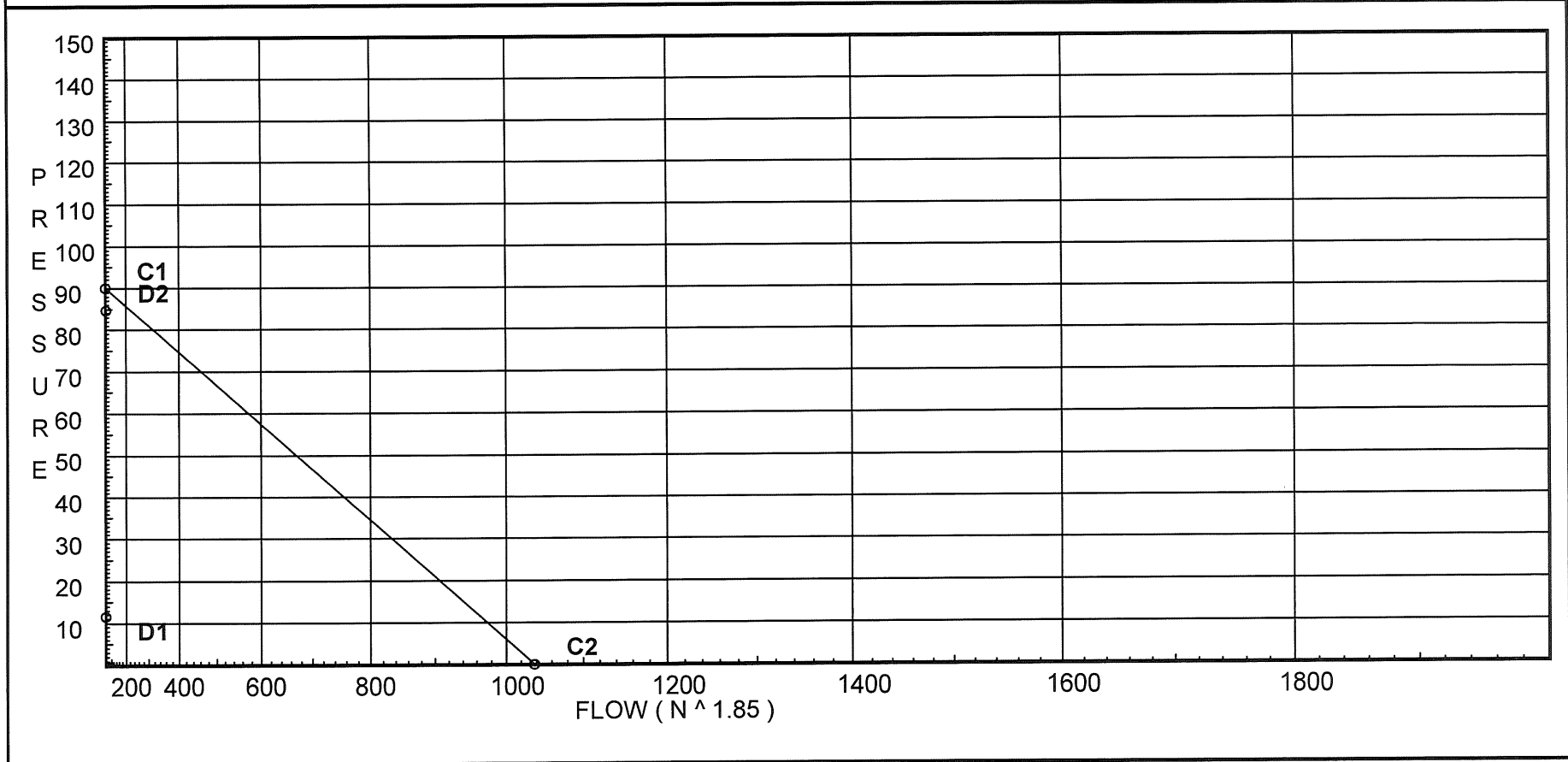
P Location:
P
L Source of Information: PORTLAND WATER DISTRICT
Y

Water Supply Curve (C)

FREEDOM FIRE PROTECTION INC.
35 BAY STREET

Page 2
Date 11/9/12

City Water Supply:	Demand:
C1 - Static Pressure : 90	D1 - Elevation : 11.477
C2 - Residual Pressure: 0	D2 - System Flow : 28.1969
C2 - Residual Flow : 1038	D2 - System Pressure : 84.630
	Hose (Adj City) : _____
	Hose (Demand) : _____
	D3 - System Demand : 28.1969
	Safety Margin : 5.256



Fittings Used Summary

FREEDOM FIRE PROTECTION INC.
35 BAY STREET

Page 3
Date 11/9/12

Fitting Legend		½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24	
Abbrev.	Name																					
E	90° Standard Elbow	2	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61	
T	90° Flow Thru Tee	3	4	5	6	8	10	12	15	17	20	25	30	35	50	60	71	81	91	101	121	
Zaa	Ames 2000B	Fitting generates a Fixed Loss Based on Flow																				

Pressure / Flow Summary - STANDARD

FREEDOM FIRE PROTECTION INC.
35 BAY STREET

Page 4
Date 11/9/12

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
101	26.5	4.4	10.1	na	13.98	0.05	0.001	10.1
102	26.5	4.4	10.44	na	14.21	0.05	0.001	10.1
10	26.5		10.45	na				
9	16.5		17.3	na				
8	16.5		18.72	na				
7	16.5		21.08	na				
6	16.5		21.64	na				
5	6.5		29.65	na				
4	6.5		32.47	na				
3	6.5		34.4	na				
2	0.0		42.81	na				
1	0.0		76.74	na				
0	0.0		84.63	na				
TEST	0.0		84.63	na				

The maximum velocity is 20.76 and it occurs in the pipe between nodes 2 and 1

Final Calculations - Hazen-Williams

FREEDOM FIRE PROTECTION INC.
35 BAY STREET

Page 5
Date 11/9/12

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftg's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
101 to 10	13.98	1.101 150	1T	9.563 0.0	0.500 9.562	10.100 0.0		K Factor = 4.40	
	13.98	0.0351		0.0	10.062	0.353		Vel = 4.71	
	0.0								
	13.98					10.453		K Factor = 4.32	
102 to 10	14.21	1.101 150		0.0 0.0	0.500 0.0	10.435 0.0		K Factor = 4.40	
	14.21	0.0360		0.0	0.500	0.018		Vel = 4.79	
10 to 9	13.99	1.101 150	1T	9.563 0.0	10.000 9.562	10.453 4.331			
	28.2	0.1285		0.0	19.562	2.513		Vel = 9.50	
9 to 8	0.0	1.101 150	1T	9.563 0.0	1.500 9.562	17.297 0.0			
	28.2	0.1285		0.0	11.062	1.421		Vel = 9.50	
8 to 7	0.0	1.101 150	1T	9.563 0.0	8.830 9.562	18.718 0.0			
	28.2	0.1284		0.0	18.392	2.362		Vel = 9.50	
7 to 6	0.0	1.101 150	1E	3.825 0.0	0.500 3.825	21.080 0.0			
	28.2	0.1286		0.0	4.325	0.556		Vel = 9.50	
6 to 5	0.0	1.049 120	1T	5.0 0.0	10.000 5.000	21.636 4.331			
	28.2	0.2457		0.0	15.000	3.685		Vel = 10.47	
5 to 4	0.0	1.049 120	1E	2.0 0.0	9.483 2.000	29.652 0.0			
	28.2	0.2457		0.0	11.483	2.821		Vel = 10.47	
4 to 3	0.0	1.049 120	1E	2.0 0.0	5.830 2.000	32.473 0.0			
	28.2	0.2456		0.0	7.830	1.923		Vel = 10.47	
3 to 2	0.0	1.049 120	1Zaa	0.0 0.0	6.500 0.0	34.396 6.815		* Fixed loss = 4	
	28.2	0.2457		0.0	6.500	1.597		Vel = 10.47	
2 to 1	0.0	0.745 140	1E	1.628 0.0	30.000 1.628	42.808 3.000		* Fixed loss = 3	
	28.2	0.9779		0.0	31.628	30.928		Vel = 20.76	
1 to 0	0.0	0.745 140		0.0 0.0	5.000 0.0	76.736 3.000		* Fixed loss = 3	
	28.2	0.9778		0.0	5.000	4.889		Vel = 20.76	
0 to TEST	0.0	6.16 140		0.0 0.0	150.000 0.0	84.625 0.0			
	28.2	0.0		0.0	150.000	0.005		Vel = 0.30	
	0.0								

Final Calculations - Standard

FREEDOM FIRE PROTECTION INC.
35 BAY STREET

Page 6
Date 11/9/12

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
	28.20			84.630				K Factor =	3.07
