

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that

BUCKSTAR LLC /Freedom Fire Protection, Inc

Located at

188 MIDDLE ST/ 4 Canal Plaza

PERMIT ID: 2013-00042

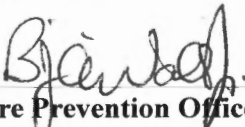
CBL: 032 I021001

has permission to **install NFPA 13 sprinkler system on 2nd, 3rd & 4th floors**

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 cloed-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**

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: 2013-00042	Date Applied For: 01/08/2013	CBL: 032 1021001
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Location of Construction: 188 MIDDLE ST/ 4 Canal Plaza	Owner Name: BUCKSTAR LLC	Owner Address: 100 SILVER 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: Same: lower level rear reastaurant; 1st floor retail; 2nd, 3rd & 4th floors offices	Proposed Project Description: installNFPA 13 sprinkler system on 2nd, 3rd & 4th floors
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Dept: Zoning **Status:** Approved w/Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 01/08/2013
Note: **Ok to Issue:**
 1) ANY exterior work requires a separate review and approval thru Historic Preservation. This property is located within an Historic District.

Dept: Fire **Status:** Approved w/Conditions **Reviewer:** Ben Wallace Jr **Approval Date:** 02/14/2013
Note: **Ok to Issue:**
 1) Sprinkler supervision shall be provided in accordance with NFPA 101, Life Safety Code, and NFPA 72, National Fire Alarm and Signaling Code.
 2) Notice: The first scheduled final inspection fee is at no charge. Additional inspections shall be billed at \$75 for each inspector.
 3) Installation shall be in accordance with the City of Portland Fire Department Regulations and NFPA 13 as published. A copy of the State Sprinkler permit with RMS date and signature and the Contractor's Material and Test Certificate for Aboveground Piping (NFPA 13 figure 24.1) shall be provided prior to scheduling of the final inspection.
 4) A sprinkler supervisory system shall be provided in accordance with NFPA 101, Life Safety Code, and NFPA 72, National Fire Alarm and Signaling Code. Sprinkler supervisory systems shall monitor for water flow and sprinkler supervisory signals via an approved fire alarm panel to central station. One smoke detector shall be located over the panel, a manual pull station located at the front door, and an audible water flow alarm provided. A separate fire alarm permit is required from a certified fire alarm company.
 5) The entire sprinkler system shall be maintained in accordance with NFPA 25, Standard for Inspection, Testing and Maintenance of Water-Based Fire Protection Systems, 2008 edition.
 6) A Knox Box is required.
 7) System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 2013-00042	Issue Date:	CBL: 032 1021001
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Location of Construction: 188 MIDDLE ST/ 4 Canal Plaza	Owner Name: BUCKSTAR LLC	Owner Address: 100 SILVER ST PORTLAND , ME 04101	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: B3
Past Use: Lower level rear restaurant; 1st floor retail; 2nd, 3rd & 4th floors offices	Proposed Use: Same: lower level rear restaurant; 1st floor retail; 2nd, 3rd & 4th floors offices	Permit Fee: \$300.00	Cost of Work: \$28,000.00
		FIRE DEPT: 2/14/13 <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <input type="checkbox"/> N/A	INSPECTION: Use Group: Type:
Proposed Project Description: install water-based fire suppression system on 2nd, 3rd & 4th floors		Signature: <i>[Signature]</i> (58)	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: gg	Date Applied For: 01/08/2013	Zoning Approval
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<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 information may invalidate a building permit and stop all work..</p>	<p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetland</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/></p> <p><i>ok with conditions</i> Date: <i>1/8/13</i></p>	<p>Zoning Appeal</p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date:</p>	<p>Historic Preservation <i>within</i></p> <p><input type="checkbox"/> Not in District or Landmark</p> <p><input type="checkbox"/> Does Not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p><i>any exterior work requires SA separate review & approval</i> Date: <i>1/8/13</i></p>
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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



entire electronic file

Water-Based Fire Suppression System 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: 4 Canal Plaza / 188 Middle CBL: 032 T 021

Exact location: (within structure) 2nd, 3rd, and 4th floors

Type of occupancy(s) (NFPA & ICC): Office, Light Hazard

Building owner: Buck Star LLC

Managing Supervisor (RMS): Timothy Vess License No: 348

Supervisor phone: 207-627-4109 E-mail: wwales@maine.rr.com

Installing contractor: Freedom Fire Protection, Inc. License No: 295

Contractor phone: 207-671-8639 E-mail: wwales@maine.rr.com

The suppression work to be done will be: New: Renovation: Addition to existing system:

This is an amendment to an existing permit: Yes: NO Permit no: _____

NFPA Standard this system is designed to: 13 Edition: _____

*Non-NFPA systems are not approved for use within the City of Portland.

Download a new copy of this document from www.portlandmaine.gov/fire for every submittal. Attach all working documents and complete approved submittals as may be required by the State Fire Marshal's Office on electronic PDF's in addition to full sized plans.

Contractor shall verify location and type of all FDCs shall be approved in writing by the Fire Prevention Bureau.

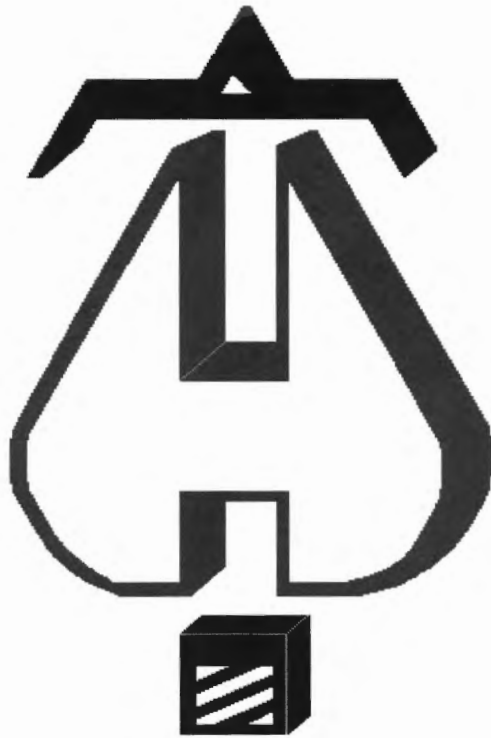
COST OF WORK: <u>\$27,428.00</u>
PERMIT FEE: <u>\$300</u>
(<small>\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000</small>)
RECEIVED
JAN 07 2013
Dept. of Building Inspections City of Portland Maine

Submit all information to the Building Inspections Department, 389 Congress Street, Room 315, Portland, Maine 04101.

Prior to acceptance of any fire protection system, a complete commissioning and acceptance test must be coordinated with all fire system contractors and the Fire Department, and proper documentation of such test(s) provided.

All installation(s) must comply with NFPA and the Fire Department Technical Standard(s).

Applicant signature: Mark Radziszewski Date: January 7, 2013



... Fire Protection by Computer Design

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

Job Name : 4 CANAL HC
Building : 176-188 MIDDLE STREET
Location : PORTLAND, MAINE 04101
System : #1 AREA#1
Contract :
Data File : 4 CANAL HC.WXF

Hydraulic Design Information Sheet

Name - 4 CANAL Date - 12/20/12
 Location - PORTLAND, MAINE 04101
 Building - 176-188 MIDDLE STREET System No. - #1 AREA#1
 Contractor - Contract No. -
 Calculated By - MIKE NOBLIT Drawing No. - FP-2
 Construction: (X) Combustible () Non-Combustible Ceiling Height - 8'-9"
 Occupancy - OFFICES

S (X) NFPA 13 (X) Lt. Haz. Ord.Haz.Gp. () 1 () 2 () 3 () Ex.Haz.
 Y () NFPA 231 () NFPA 231C () Figure Curve

S Other

T Specific Ruling Made By Date

E				
M	Area of Sprinkler Operation	- 900 SQ.FT	System Type	Sprinkler/Nozzle
	Density	- 0.10	(X) Wet	Make TYCO
D	Area Per Sprinkler	- 196	() Dry	Model TY-FRB
E	Elevation at Highest Outlet	- 49'-1"	() Deluge	Size 1/2"
S	Hose Allowance - Inside	-	() Preaction	K-Factor 5.6
I	Rack Sprinkler Allowance	-	() Other	Temp.Rat.155
G	Hose Allowance - Outside	- 100		

N Note

Calculation Flow Required - 211.772 Press Required - 71.553 At Test
 Summary C-Factor Used: 120 Overhead 140 Underground

W	Water Flow Test:	Pump Data:	Tank or Reservoir:
A	Date of Test - 7/19/2009		Cap. -
T	Time of Test -	Rated Cap.-	Elev.-
E	Static Press - 84	@ Press -	
R	Residual Press - 0	Elev. -	Well
	Flow - 1352		Proof Flow
S	Elevation - 0		

U Location -

P Source of Information - PORTLAND WATER DISTRICT

Y

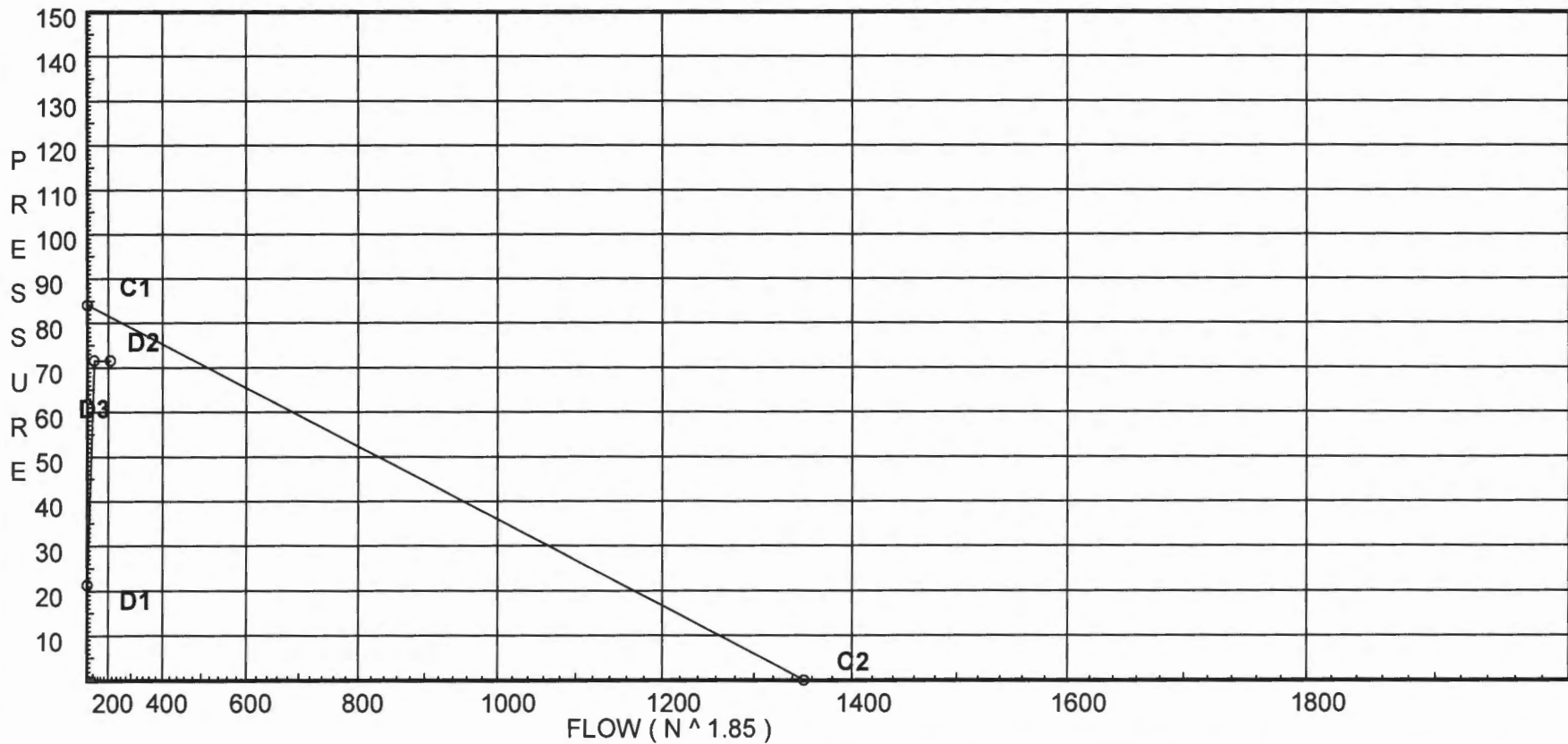
Water Supply Curve (C)

FREEDOM FIRE PROTECTION INC.
4 CANAL HC

Page 2
Date 12/21/12

City Water Supply:
C1 - Static Pressure : 84
C2 - Residual Pressure: 0
C2 - Residual Flow : 1352

Demand:
D1 - Elevation : 21.258
D2 - System Flow : 111.772
D2 - System Pressure : 71.553
Hose (Adj City) :
Hose (Demand) : 100
D3 - System Demand : 211.772
Safety Margin : 9.726



Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
101	49.083	5.6	20.54	na	25.38	0.1	196	7.0
102	49.083	5.6	19.58	na	24.78	0.1	196	7.0
13	49.083		20.65	na				
12	49.083		21.66	na				
103	49.083	5.6	15.96	na	22.37	0.1	196	7.0
104	49.083	5.6	12.25	na	19.6	0.1	196	7.0
105	49.083	5.6	12.29	na	19.64	0.1	196	7.0
11	49.083		12.61	na				
10	49.083		13.53	na				
9	49.083		16.85	na				
8	49.083		24.42	na				
7	49.083		26.84	na				
6	49.083		39.08	na				
5	6.416		64.29	na				
4	6.416		64.48	na				
3	6.416		64.55	na				
2	6.416		64.69	na				
1	0.0		71.53	na				
TEST	0.0		71.55	na	100.0			

The maximum velocity is 23.5 and it occurs in the pipe between nodes 7 and 6

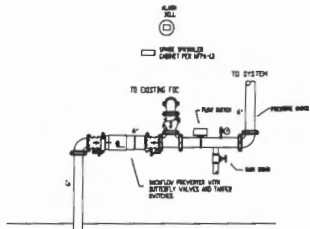
Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
101 to 12	25.38 25.38	1.101 150 0.1058	1T	9.563 0.0 0.0	1.000 9.562 10.562	20.545 0.0 1.117		K Factor = 5.60 Vel = 8.55	
	0.0 25.38					21.662		K Factor = 5.45	
102 to 13	24.78 24.78	1.101 150 0.1011	1T	9.563 0.0 0.0	1.000 9.562 10.562	19.582 0.0 1.068		K Factor = 5.60 Vel = 8.35	
13 to 12	0.0 24.78	1.101 150 0.1012		0.0 0.0 0.0	10.000 0.0 10.000	20.650 0.0 1.012		Vel = 8.35	
12 to 7	25.38 50.16	1.101 150 0.3729	1T	9.563 0.0 0.0	4.330 9.562 13.892	21.662 0.0 5.180		Vel = 16.90	
	0.0 50.16					26.842		K Factor = 9.68	
103 to 9	22.37 22.37	1.101 150 0.0837	1T	9.563 0.0 0.0	1.000 9.562 10.562	15.962 0.0 0.884		K Factor = 5.60 Vel = 7.54	
	0.0 22.37					16.846		K Factor = 5.45	
104 to 10	19.60 19.6	1.101 150 0.0655	1T	9.563 0.0 0.0	10.000 9.562 19.562	12.250 0.0 1.282		K Factor = 5.60 Vel = 6.60	
	0.0 19.60					13.532		K Factor = 5.33	
105 to 11	19.64 19.64	1.101 150 0.0659	1E	3.825 0.0 0.0	1.000 3.825 4.825	12.294 0.0 0.318		K Factor = 5.60 Vel = 6.62	
11 to 10	0.0 19.64	1.101 150 0.0657		0.0 0.0 0.0	14.000 0.0 14.000	12.612 0.0 0.920		Vel = 6.62	
10 to 9	19.60 39.24	1.101 150 0.2367		0.0 0.0 0.0	14.000 0.0 14.000	13.532 0.0 3.314		Vel = 13.22	
9 to 8	22.37 61.61	1.101 150 0.5453	1T	9.563 0.0 0.0	4.330 9.562 13.892	16.846 0.0 7.576		Vel = 20.76	
8 to 7	0.0 61.61	1.394 150 0.1729		0.0 0.0 0.0	14.000 0.0 14.000	24.422 0.0 2.420		Vel = 12.95	

Final Calculations - Standard

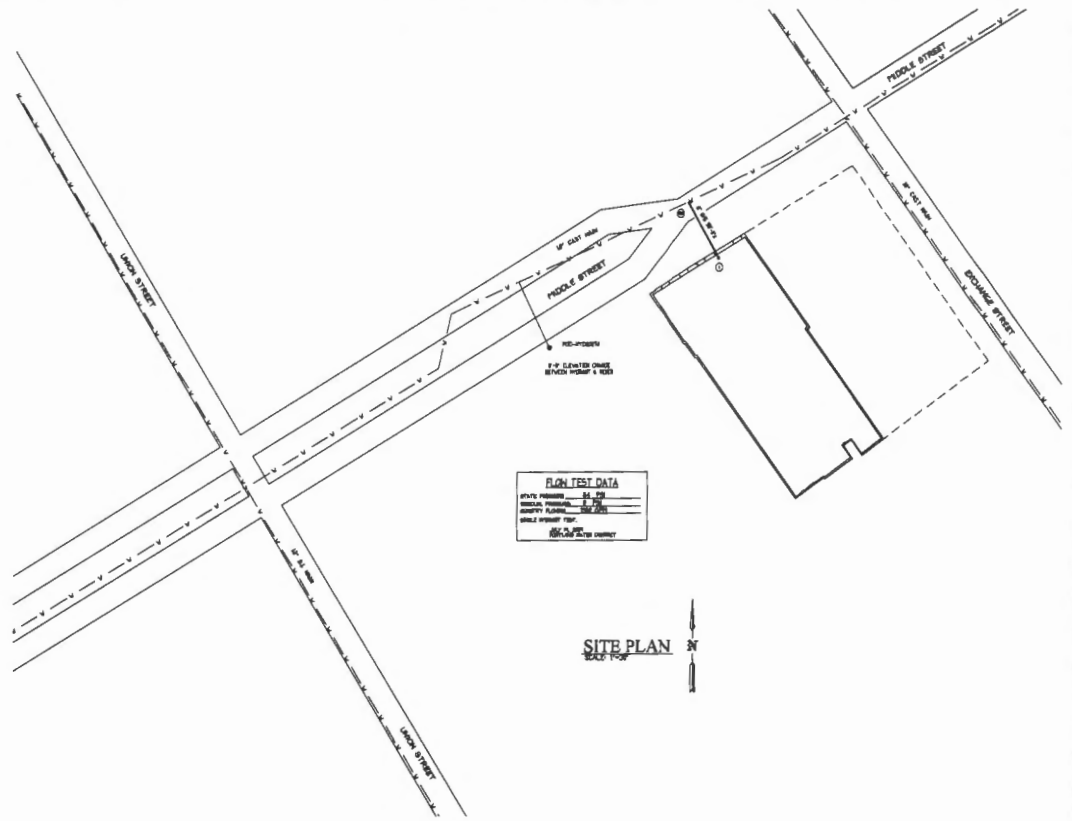
FREEDOM FIRE PROTECTION INC.
4 CANAL HC

Page 6
Date 12/21/12

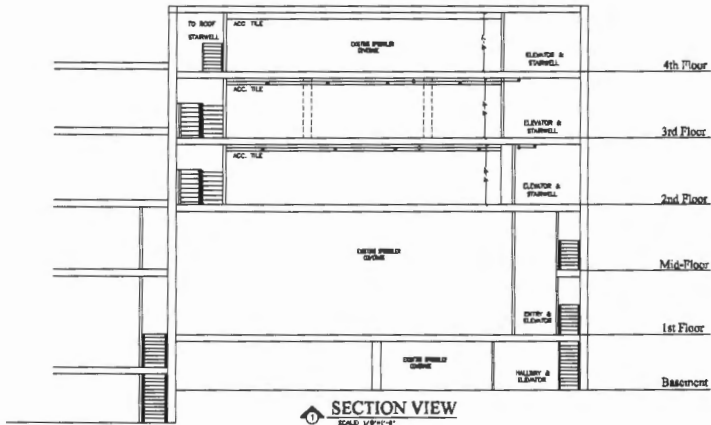
Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
7	50.16	1.394	1T	9.523	14.000	26.842			
to		150		0.0	9.523	0.0			
6	111.77	0.5203		0.0	23.523	12.238		Vel = 23.50	
6	0.0	1.598	1E	5.828	19.330	39.080			
to		150		0.0	5.828	18.479			
5	111.77	0.2675		0.0	25.158	6.731		Vel = 17.88	
5	0.0	4.26	1E	13.167	42.660	64.290			
to		120		0.0	13.167	0.0			
4	111.77	0.0034		0.0	55.827	0.190		Vel = 2.52	
4	0.0	4.26	1E	13.167	6.000	64.480			
to		120		0.0	13.167	0.0			
3	111.77	0.0034		0.0	19.167	0.065		Vel = 2.52	
3	0.0	4.26	1E	13.167	30.000	64.545			
to		120		0.0	13.167	0.0			
2	111.77	0.0034		0.0	43.167	0.148		Vel = 2.52	
2	0.0	6.065	1Zac	0.0	6.416	64.693			
to		120		0.0	0.0	6.835		* Fixed loss = 4.056	
1	111.77	0.0005		0.0	6.416	0.003		Vel = 1.24	
1	0.0	6.16		0.0	50.000	71.531			
to		140		0.0	0.0	0.0			
TEST	111.77	0.0004		0.0	50.000	0.022		Vel = 1.20	
	100.00							Qa = 100.00	
	211.77					71.553		K Factor = 25.04	



EXISTING 6" RISER DETAIL
SCALE VPV-2



SITE PLAN
SCALE 1/8" = 1'-0"



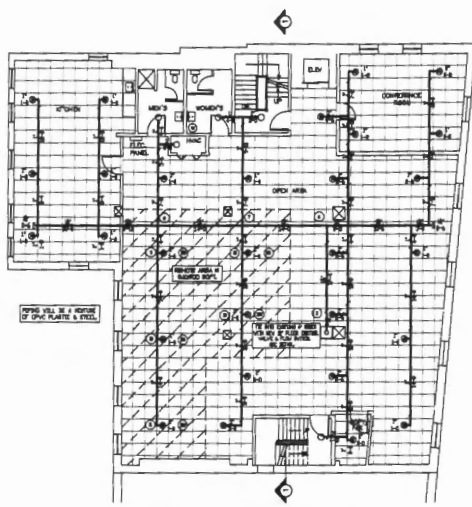
SECTION VIEW
SCALE VPV-2

FIRE SPRINKLER GENERAL NOTES

OCCUPANCY: OFFICES
 DESIGN STANDARD: NFPA-13 2010 LIGHT HAZARD
 DESIGN DENSITY: 0.10 GPM/100 SQ.FT.
 SPRINKLERS UPRIGHT: TYCO (AS NOTED ON PLAN)
 SPRINKLERS PENDENT: TYCO (AS NOTED ON PLAN)
 ESCUTCHEONS: WHITE 2 PIECE SEMI-REC.
 PIPING 1"-1 1/2": SCH. 40 & APPROVED BLAZEMASTER CPVC PLASTIC.
 PIPING 2"-6": SCH. 10 BLACK WITH GROOVED ENDS.
 DRY PIPE COUPLINGS TO HAVE TRI-SEAL JOINTS.
 HANGERS TO BE U.L. & FM APPROVED,
 AND SPACED PER NFPA-13
 ALL PIPING TO BE TESTED AT 200 PSI FOR 2 HOURS.
 PROVIDE TAMPER SWITCH ON ALL CONTROL VALVES.
 PROVIDE HYDRAULIC NAME PLATE PER NFPA-13.
 COORDINATE FIRE SPRINKLER PIPING WITH OTHER TRADES.
 (O) DENOTES HYDRAULIC REFERENCE POINTS.
 † DENOTES GROOVED COUPLING IN PIPE.
 RN = RISER NIPPLE.
 SG = SPRIG.
 DN = DROP NIPPLE.
 GC = GROOVED COUPLING.
 TOE = THREAD ONE END.
 GBE = GROOVE BOTH ENDS.

REVISIONS	NOTES	HEAD COUNT										STANDARD SYMBOLS		STANDARD SYMBOLS		INSPECTIONS	
NO.	DATE	SPRINKLER TYPE	DESCRIPTION NO.	MFR.	ENC.	MODEL	FIRST	DRIPCE	TEMP	SYMBOL	QUANT.	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	DATE	BY
TOTAL SPRINKLES THIS DRAWING																	

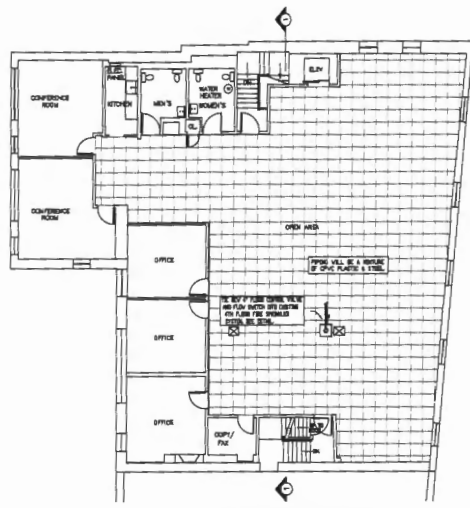
4 CANAL PLAZA PORTLAND, MAINE 04101 FIRE PROTECTION PLAN		JOB NO. MD102 DATE 12/12/18 DRAWN BY SAN SCALE AS NOTED SHEET NO.
FREEDOM FIRE PROTECTION, INC. 209 QUAKER RIDGE ROAD CASCO, MAINE 04015		FP-1of2



THIRD FLOOR FIRE PROTECTION

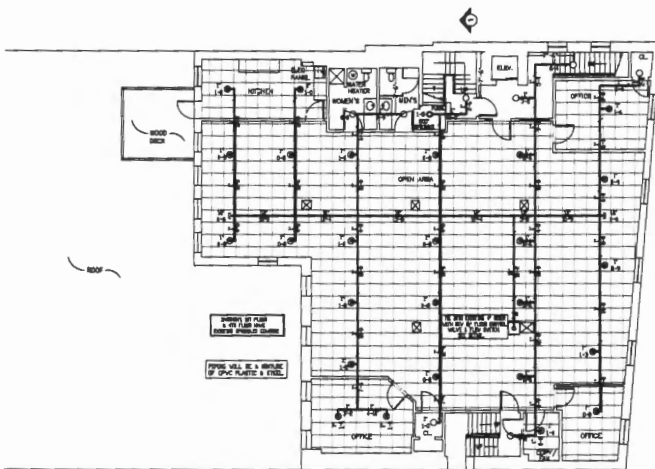
SCALE 1/8" = 1'-0"
 QUANTITY (●) = 21
 QUANTITY (○) = 3

HYDRAULIC DESIGN DATA	
System # & Area	B - 35
No. of Spencers	3
Capacity	633 GPM
Design Area	100 SQFT
Water Allowance	100 GPM
Water Flow Rate	222 GPM
Pressure Protection At Base of Riser	72 PSI
Design Pressure	120 PSI
Safety Factor	1.5
A.S. Min. of Head	8.73 PSI



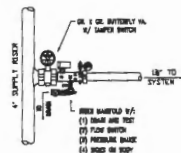
FOURTH FLOOR FIRE PROTECTION

SCALE 1/8" = 1'-0"

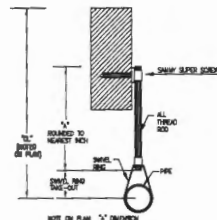


SECOND FLOOR FIRE PROTECTION

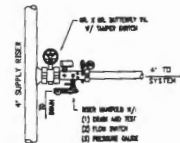
SCALE 1/8" = 1'-0"
 QUANTITY (●) = 23
 QUANTITY (○) = 9



2ND & 3RD FLOOR CONTROL VALVES



TYPE #10 HANGER



4TH FLOOR CONTROL VALVE

REVISIONS	NOTES	HEAD COUNT								STANDARD SYMBOLS	STANDARD SYMBOLS	INSPECTIONS		
NO.		TYPE	AREA	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE
	2ND, 3RD & 4TH FLOORS OVERHEAD	TYPE	AREA	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE
	2ND, 3RD & 4TH FLOORS UNDERHEAD	TYPE	AREA	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE
		TYPE	AREA	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE
		TYPE	AREA	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE
TOTAL SPRINKLER THIS DESIGN														63

STANDARD SYMBOLS	STANDARD SYMBOLS
□ - FIRE INDICATOR VALVE	▲ - ALARM CHECK VALVE
○ - KEY VALVE	△ - REVER W/ALARM VALVE
○ - FIRE HOSE	● - REVER W/VALVE
○ - FIRE HOSE CONNECTION	○ - REVER W/VALVE, FLOW SWITCH
○ - O.S. & Y DATE VALVE	□ - REVER W/VALVE VALVE
○ - DRINK CHECK VALVE	○ - WATER MOTOR BELL
○ - NEW UNDERGROUND	○ - ELECTRIC BELL
○ - DIST UNDERGROUND	○ - FLUSH THE SEPT CONNECTION

INSPECTIONS
1.
2.
3.
4.
5.

4 CANAL PLAZA
 PORTLAND, MAINE 04101
FIRE PROTECTION PLAN
FREEDOM FIRE PROTECTION, INC.
 209 QUAKER RIDGE ROAD
 CASCO, MAINE 04015

JOB NO. 40102
 DATE 11/27/12
 DRAWN BY MAN
 SCALE AS NOTED
 SHEET NO. FP-2of2