

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT

This is to certify that
FREEDOM FIRE PROTECTION
209 QUAKER RIDGE RD
CASCO, ME 04015

For installation at
285 FOREST AVE
C PORT CREDIT UNION

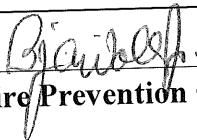
Job ID: 2011-10-2435-NEWCOM

CBL: 112- H-001-001

has permission to install a supervised, automatic sprinkler system 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 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


Fire Prevention Officer

(58)

Code Enforcement Officer / Plan Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
PENALTY FOR REMOVING THIS CARD

SCANNED



CITY OF PORTLAND, MAINE

Department of Building Inspections

Original Receipt

2/28 20 12

Received from

Fredon Fire

Location of Work

285 Forest

Cost of Construction

\$ _____

Building Fee:

12,000

Permit Fee

\$ _____

Site Fee:

Certificate of Occupancy Fee:

w/B Fire SUP.

Total:

140

Building (IL) _____

Plumbing (I5) _____

Electrical (I2) _____

Site Plan (U2) _____

Other _____

CBL: _____

Check #: 16689

Total Collected \$

140

RECEIVED

FEB 28 2012

City of Building Inspections
City of Portland, Maine

**No work is to be started until permit issued.
Please keep original receipt for your records.**

Taken by:

BS

WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Permit Copy

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (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.**

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.



PORTLAND MAINE

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Director of Planning and Urban Development
Penny St. Louis

Job ID: 2011-10-2435-NEWCOM
install a supervised, automatic sprinkler
system

For installation at:
285 FOREST AVE
C PORT CREDIT UNION

CBL: 112- H-001-001

Conditions of Approval:

Fire

This is a required supervised, automatic sprinkler system due to a single means of egress. The sprinkler system shall be installed in accordance with NFPA 13. A signed compliance letter will be required.

A separate sprinkler permit is required from the State Fire Marshal's Office. 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.

The sprinkler supervisory system shall comply with the City of Portland Standard for Signaling Systems for the Protection of Life and Property. All fire alarm installation and servicing companies shall have a Certificate of Fitness from the Fire Department.

A separate Fire Alarm Permit is required.

Sprinkler protection shall be maintained. Where the system is to be shut down for maintenance or repair, the system shall be checked at the end of each day to insure the system has been placed back in service.

The fire department connection shall be 2 1/2" NH. A single connection is permitted for a 3 inch or smaller sprinkler riser. The Fire Department will require Knox locking caps on all Fire Department Connections on the exterior of the building.

System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.

City ordinance requires a Knox Box for all structures with a sprinkler or fire alarm system.

DRC

11-9-11

See Planning Conditions of Approval.

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

Job No: 2011-10-2435-NEWCOM 2012-41312 FAFS	Date Applied: 2/28/2012	CBL: 112- H-001-001	
Location of Construction: 285 FOREST AVE	Owner Name: CPORT CREDIT UNION	Owner Address: PO BOX 777, PORTLAND, ME 04104	Phone:
Business Name: CPort Credit Union	Contractor Name: FREEDOM FIRE PROTECTION	Contractor Address: 209 QUAKER RIDGE RD, CASCO, ME 04015	Phone: (207) 671-8639
Lessee/Buyer's Name:	Phone:	Permit Type: FAFS	Zone: B-2
Past Use: Drive-thru Bank	Proposed Use: Same: Drive-thru Bank – to install fire suppression system	Cost of Work: \$12,000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved w/ conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: Type:
Proposed Project Description: Fire Suppression System		Signature: <i>Bj Anderson</i> (58)	
		Pedestrian Activities District (P.A.D.)	

Permit Taken By: Brad	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 informatin may invalidate a building permit and stop all work.	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	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	Historic Preservation <input checked="" type="checkbox"/> Not in Dist 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>2/28/12</i> Maj <i>2</i> Min <i>28</i> MM	Date:	Date:

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
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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.

Entered 2/28/12 (B)
2012-41312

B-2

2011-10 2435-NEWCOM

RECEIVED
FEB 28 2012

Dept. of Building Inspections
City of Portland, Maine

Installation address: 285 Forest Ave CBL: _____

Exact location: (within structure) Mechanical Room

Type of occupancy(s) (NFPA & ICC): Bank

Building owner: cPort Credit Union PO Box 777 - Portland, ME 04104

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

Supervisor phone: 20/627-4109 E-mail: wwales@maine.rr.com

Installing contractor: Freedom Fire Protection 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: NFPA 13 Edition: 2010

*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>\$11,937.00</u>
PERMIT FEE: <u>\$140.00</u>
(<small>\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000</small>)
112 H001

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: William W. Wales Date: 2/27/12



PORTLAND MAINE

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Receipts Details:

Tender Information: Check , Check Number: 16687
Tender Amount: 140.00

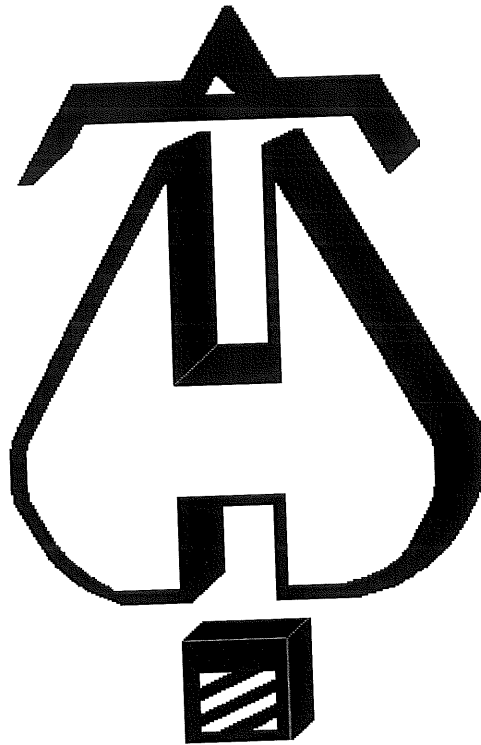
Receipt Header:

Cashier Id: bsaucier
Receipt Date: 2/28/2012
Receipt Number: 41313

Receipt Details:

Referance ID:	5403	Fee Type:	BP-Permit
Receipt Number:	0	Payment Date:	
Transaction Amount:	140.00	Charge Amount:	140.00
Job ID: Job ID: 2011-10-2435-NEWCOM - New CPort Credit Union 3,815 sq ft			
Additional Comments: 285 Forest			

Thank You for your Payment!



... Fire Protection by Computer Design

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

Job Name : CPORT CREDIT UNION
Building : 285 FOREST AVENUE
Location : PORTLAND, MAINE 04101
System : #1 AREA #1
Contract :
Data File : CPORT CREDIT UNION HC.WXF

Hydraulic Design Information Sheet

Name - CPORT CREDIT UNION
 Location - PORTLAND, MAINE 04101
 Building - 285 FOREST AVENUE
 Contractor -
 Calculated By - MIKE NOBLIT
 Construction: (X) Combustible () Non-Combustible
 Occupancy - CREDIT UNION

Date - 2/22/12

System No. - #1 AREA #1
 Contract No. -
 Drawing No. - FP-2
 Ceiling Height - 9'-0"

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

T Other
 S Specific Ruling

Made By

Date

E	Area of Sprinkler Operation	- AREA	System Type	Sprinkler/Nozzle
M	Density	- .10	(X) Wet	Make TYCO
	Area Per Sprinkler	- 130	() Dry	Model TY-FRB
D	Elevation at Highest Outlet	- 23'-10"	() Deluge	Size 1/2"
E	Hose Allowance - Inside	-	() Preaction	K-Factor 5.6
S	Rack Sprinkler Allowance	-	() Other	Temp.Rat.155
I	Hose Allowance - Outside	- 100		
G				
N				

Note

Calculation Summary
 Flow Required - 408.977
 C-Factor Used: 120
 Press Required - 82.365
 Overhead 140
 At Test
 Underground

W	Water Flow Test:	Pump Data:	Tank or Reservoir:
A	Date of Test - 8/5/11	Rated Cap.-	Cap. -
T	Time of Test -	@ Press -	Elev.-
E	Static Press - 104	Elev. -	Well
R	Residual Press - 0		Proof Flow
	Flow - 1546		
S	Elevation -		

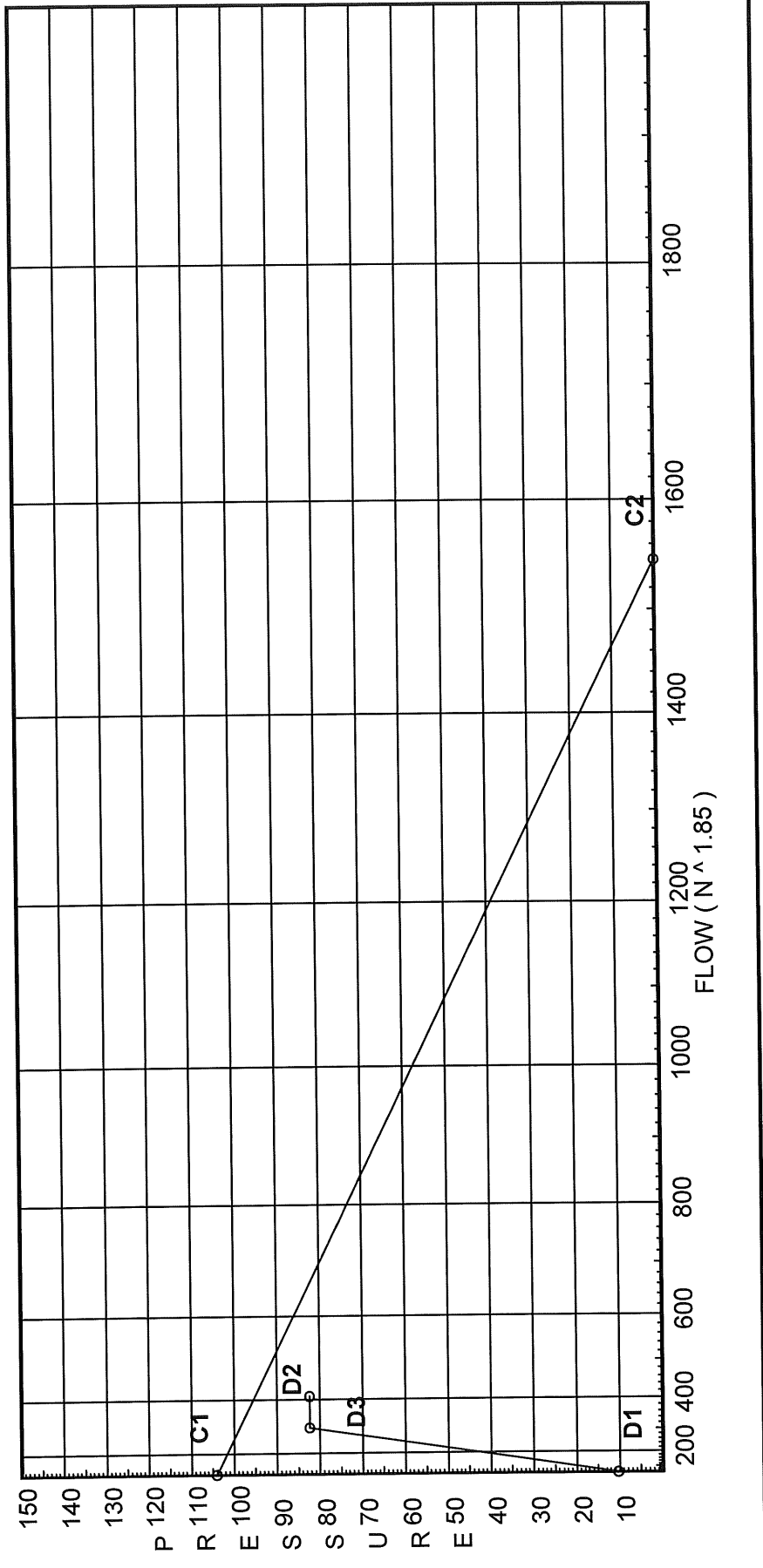
U Location -
 P
 L Source of Information - PORTLAND WATER DISTRICT
 Y

Water Supply Curve (C)

FREEDOM FIRE PROTECTION INC.
 CPORT CREDIT UNION

City Water Supply:
 C1 - Static Pressure : 104
 C2 - Residual Pressure: 0
 C2 - Residual Flow : 1546

Demand:
 D1 - Elevation : 10.321
 D2 - System Flow : 308.977
 D2 - System Pressure : 82.365
 Hose (Adj City) : 100
 Hose (Demand) : 408.977
 D3 - System Demand : 12.750
 Safety Margin



Fittings Used Summary

FREEDOM FIRE PROTECTION INC.
 CPORT CREDIT UNION

Page 3
 Date 2/22/12

Fitting Legend Abbrev. Name	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	10	12	14	16	18	20	24
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
Zac Ames 2000SS	Fitting generates a Fixed Loss Based on Flow																			

Pressure / Flow Summary - STANDARD

FREEDOM FIRE PROTECTION INC.
 CPORT CREDIT UNION

Page 4
 Date 2/22/12

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
102	19.166	5.6	15.55	na	22.08	0.1	130	7.0
101	19.166	5.6	16.95	na	23.06	0.1	130	7.0
34	19.166		18.76	na				
104	19.166	5.6	15.78	na	22.25	0.1	130	7.0
103	19.166	5.6	17.21	na	23.23	0.1	130	7.0
33	19.166		19.04	na				
32	19.166		23.5	na				
31	19.166		26.31	na				
30	18.33		28.81	na				
105	23.83	5.6	18.15	na	23.86	0.1	130	7.0
106	23.83	5.6	10.36	na	18.02	0.1	130	7.0
107	23.83	5.6	7.87	na	15.71	0.1	130	7.0
108	23.83	5.6	7.47	na	15.3	0.1	130	7.0
17	23.83		8.34	na				
16	23.83		10.98	na				
15	23.83		19.18	na				
14	23.83		20.53	na				
109	23.83	5.6	17.85	na	23.66	0.1	130	7.0
110	23.83	5.6	11.97	na	19.38	0.1	130	7.0
111	23.83	5.6	9.05	na	16.85	0.1	130	7.0
112	23.83	5.6	9.1	na	16.89	0.1	130	7.0
20	23.83		9.57	na				
19	23.83		12.71	na				
18	23.83		18.92	na				
113	23.83	5.6	13.89	na	20.87	0.1	130	7.0
114	23.83	5.6	10.04	na	17.75	0.1	130	7.0
115	23.83	5.6	7.42	na	15.25	0.1	130	7.0
116	23.83	5.6	7.0	na	14.82	0.1	130	7.0
13	23.83		7.87	na				
12	23.83		10.63	na				
11	23.83		14.87	na				
10	23.83		17.39	na				
9	23.83		20.77	na				
8	23.83		24.36	na				
7	23.83		26.89	na				
6	18.33		31.5	na				
5	11.33		42.63	na				
4	11.33		51.51	na				
3	11.33		65.19	na				
2	11.33		69.79	na				
1	0.0		81.06	na				
TEST	0.0		82.37	na	100.0			

The maximum velocity is 27.13 and it occurs in the pipe between nodes 6 and 5

Final Calculations - Hazen-Williams

FREEDOM FIRE PROTECTION INC.
CPORT CREDIT UNION

Page 5
Date 2/22/12

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	***** Notes *****
102	22.08	1.049		9.000	15.548		K Factor = 5.60
to		120		0.0	0.0		
101	22.08	0.1562		9.000	1.406		Vel = 8.20
101	23.06	1.049	1E	2.0	1.083	16.954	K Factor = 5.60
to		120		0.0	2.000	0.0	
34	45.14	0.5868		0.0	3.083	1.809	Vel = 16.76
34	0.0	1.049	1T	5.0	3.083	18.763	
to		120		0.0	5.000	0.0	
32	45.14	0.5867		0.0	8.083	4.742	Vel = 16.76
	0.0						
	45.14				23.505		K Factor = 9.31
104	22.25	1.049		9.000	15.783		K Factor = 5.60
to		120		0.0	0.0		
103	22.25	0.1584		9.000	1.426		Vel = 8.26
103	23.23	1.049	1E	2.0	1.083	17.209	K Factor = 5.60
to		120		0.0	2.000	0.0	
33	45.48	0.5949		0.0	3.083	1.834	Vel = 16.88
33	0.0	1.049		0.0	7.500	19.043	
to		120		0.0	0.0	0.0	
32	45.48	0.5949		0.0	7.500	4.462	Vel = 16.88
32	45.14	1.38	1E	3.0	2.000	23.505	
to		120		0.0	3.000	0.0	
31	90.62	0.5602		0.0	5.000	2.801	Vel = 19.44
31	0.0	1.38	1E	3.0	0.830	26.306	
to		120		0.0	3.000	0.362	
30	90.62	0.5601		0.0	3.830	2.145	Vel = 19.44
30	0.0	1.61	1T	8.0	2.166	28.813	
to		120		0.0	8.000	0.0	
6	90.62	0.2644		0.0	10.166	2.688	Vel = 14.28
	0.0						
	90.62				31.501		K Factor = 16.15
105	23.86	1.049	1T	5.0	0.750	18.147	K Factor = 5.60
to		120		0.0	5.000	0.0	
15	23.86	0.1803		0.0	5.750	1.037	Vel = 8.86
	0.0						
	23.86				19.184		K Factor = 5.45
106	18.02	1.049	1T	5.0	0.750	10.360	K Factor = 5.60
to		120		0.0	5.000	0.0	
16	18.02	0.1073		0.0	5.750	0.617	Vel = 6.69
	0.0						
	18.02				10.977		K Factor = 5.44

Final Calculations - Standard

FREEDOM FIRE PROTECTION INC.
CPORT CREDIT UNION

Page 6
Date 2/22/12

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	***** Notes *****
107	15.71	1.049	1T 5.0	0.583	7.874		K Factor = 5.60
to		120	0.0	5.000	0.0		
17	15.71	0.0833	0.0	5.583	0.465		Vel = 5.83
	0.0						
	15.71				8.339		K Factor = 5.44
108	15.30	1.049	0.0	11.000	7.467		K Factor = 5.60
to		120	0.0	0.0	0.0		
17	15.3	0.0793	0.0	11.000	0.872		Vel = 5.68
17	15.72	1.049	0.0	9.000	8.339		
to		120	0.0	0.0	0.0		
16	31.02	0.2931	0.0	9.000	2.638		Vel = 11.52
16	18.02	1.049	0.0	12.000	10.977		
to		120	0.0	0.0	0.0		
15	49.04	0.6839	0.0	12.000	8.207		Vel = 18.20
15	23.86	1.38	1E 3.0	0.583	19.184		
to		120	0.0	3.000	0.0		
14	72.9	0.3745	0.0	3.583	1.342		Vel = 15.64
14	0.0	1.38	1T 6.0	4.250	20.526		
to		120	0.0	6.000	0.0		
8	72.9	0.3745	0.0	10.250	3.839		Vel = 15.64
	0.0						
	72.90				24.365		K Factor = 14.77
109	23.66	1.049	1T 5.0	1.000	17.852		K Factor = 5.60
to		120	0.0	5.000	0.0		
18	23.66	0.1777	0.0	6.000	1.066		Vel = 8.78
	0.0						
	23.66				18.918		K Factor = 5.44
110	19.38	1.049	1T 5.0	1.000	11.974		K Factor = 5.60
to		120	0.0	5.000	0.0		
19	19.38	0.1228	0.0	6.000	0.737		Vel = 7.19
	0.0						
	19.38				12.711		K Factor = 5.44
111	16.85	1.049	1T 5.0	0.500	9.051		K Factor = 5.60
to		120	0.0	5.000	0.0		
20	16.85	0.0947	0.0	5.500	0.521		Vel = 6.26
	0.0						
	16.85				9.572		K Factor = 5.45
112	16.89	1.049	0.0	5.000	9.097		K Factor = 5.60
to		120	0.0	0.0	0.0		
20	16.89	0.0950	0.0	5.000	0.475		Vel = 6.27
20	16.85	1.049	0.0	9.166	9.572		
to		120	0.0	0.0	0.0		
19	33.74	0.3425	0.0	9.166	3.139		Vel = 12.53

Final Calculations - Standard

FREEDOM FIRE PROTECTION INC.
CPORT CREDIT UNION

Page 7
Date 2/22/12

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
19	19.38	1.049		7.830	12.711				
to		120		0.0	0.0				
18	53.12	0.7927		7.830	6.207		Vel = 19.72		
18	23.66	1.38		4.500	18.918				
to		120		0.0	0.0				
9	76.78	0.4122		4.500	1.855		Vel = 16.47		
	0.0								
	76.78				20.773		K Factor = 16.85		
113	20.87	1.049	1T 5.0	2.000	13.889		K Factor = 5.60		
to		120		5.000	0.0				
11	20.87	0.1407		7.000	0.985		Vel = 7.75		
	0.0								
	20.87				14.874		K Factor = 5.41		
114	17.75	1.049	1T 5.0	0.660	10.042		K Factor = 5.60		
to		120		5.000	0.0				
12	17.75	0.1042		5.660	0.590		Vel = 6.59		
	0.0								
	17.75				10.632		K Factor = 5.44		
115	15.25	1.049	1T 5.0	0.660	7.419		K Factor = 5.60		
to		120		5.000	0.0				
13	15.25	0.0788		5.660	0.446		Vel = 5.66		
	0.0								
	15.25				7.865		K Factor = 5.44		
116	14.82	1.049		11.583	7.000		K Factor = 5.60		
to		120		0.0	0.0				
13	14.82	0.0747		11.583	0.865		Vel = 5.50		
13	15.25	1.049		10.000	7.865				
to		120		0.0	0.0				
12	30.07	0.2767		10.000	2.767		Vel = 11.16		
12	17.75	1.049		6.500	10.632				
to		120		0.0	0.0				
11	47.82	0.6526		6.500	4.242		Vel = 17.75		
11	20.87	1.38	1E 3.0	4.500	14.874				
to		120		3.000	0.0				
10	68.69	0.3355		7.500	2.516		Vel = 14.73		
10	0.0	1.38	1T 6.0	4.083	17.390				
to		120		6.000	0.0				
9	68.69	0.3355		10.083	3.383		Vel = 14.73		
9	76.77	1.61		5.660	20.773				
to		120		0.0	0.0				
8	145.46	0.6346		5.660	3.592		Vel = 22.92		

Final Calculations - Standard

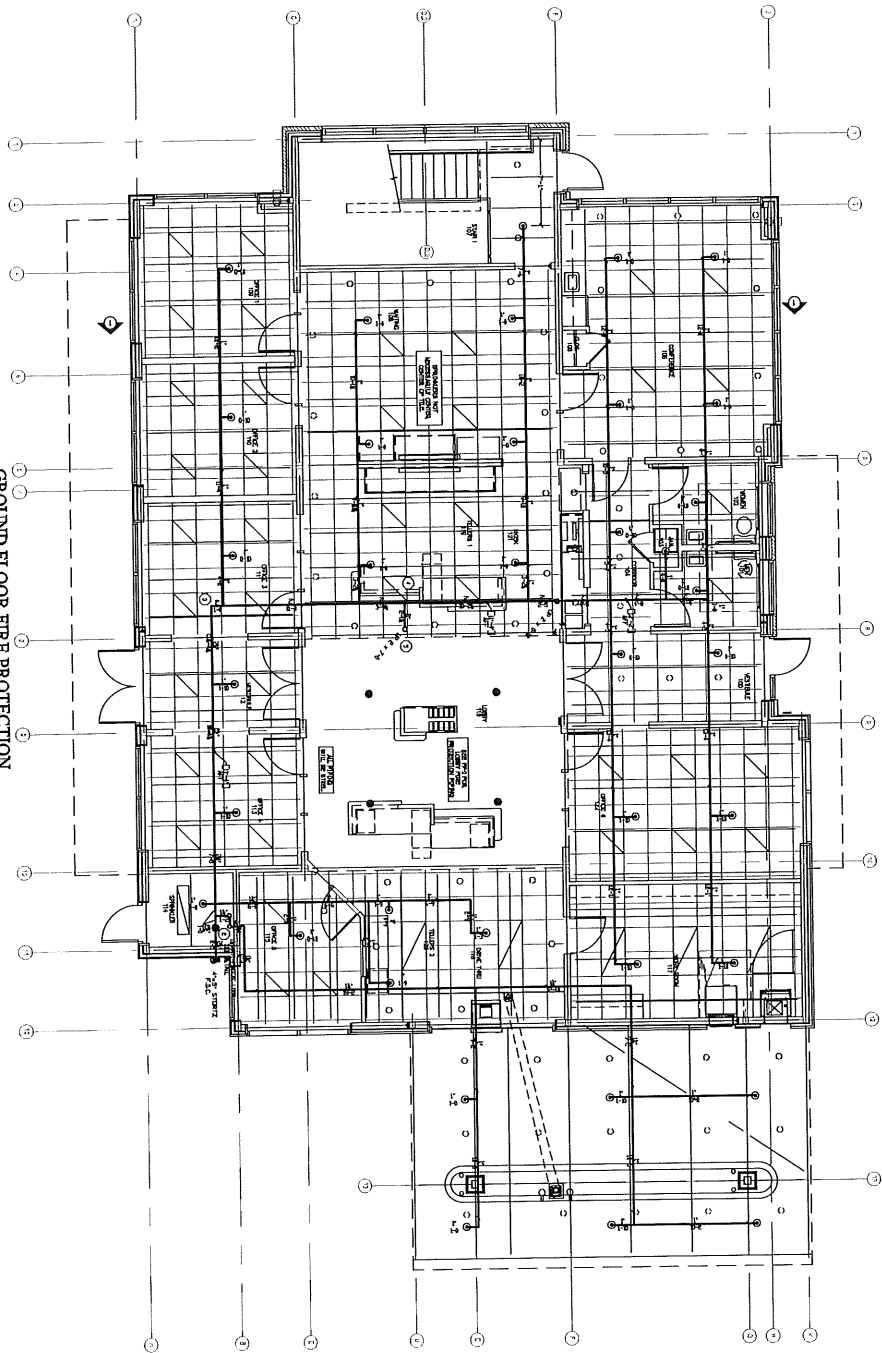
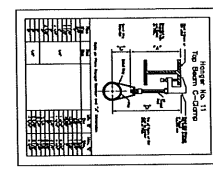
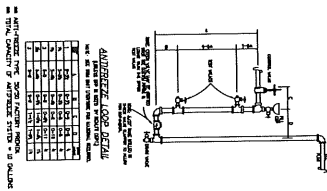
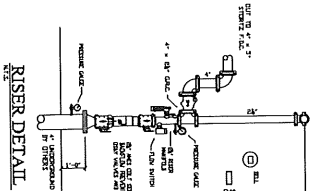
FREEDOM FIRE PROTECTION INC.
CPORT CREDIT UNION

Page 8
Date 2/22/12

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
8	72.90	2.067	1E 5.0	1.330	24.365				
to		120	0.0	5.000	0.0				
7	218.36	0.3984	0.0	6.330	2.522		Vel = 20.88		
7	0.0	2.067	0.0	5.600	26.887				
to		120	0.0	0.0	2.382				
6	218.36	0.3986	0.0	5.600	2.232		Vel = 20.88		
6	90.62	2.157	1E 6.153	7.000	31.501				
to		120	0.0	6.153	3.032				
5	308.98	0.6154	0.0	13.153	8.094		Vel = 27.13		
5	0.0	2.157	1T 12.307	2.125	42.627				
to		120	0.0	12.307	0.0				
4	308.98	0.6154	0.0	14.432	8.881		Vel = 27.13		
4	0.0	2.157	1E 6.153	16.083	51.508				
to		120	0.0	6.153	0.0				
3	308.98	0.6154	0.0	22.236	13.685		Vel = 27.13		
3	0.0	2.635	0.0	26.330	65.193				
to		140	0.0	0.0	0.0				
2	308.98	0.1746	0.0	26.330	4.596		Vel = 18.18		
2	0.0	2.469	1Zac 0.0	10.330	69.789				
to		140	0.0	0.0	8.792		* Fixed loss = 3.885		
1	308.98	0.2397	0.0	10.330	2.476		Vel = 20.71		
1	0.0	4.1	1E 14.534	50.000	81.057				
to		140	0.0	14.534	0.0				
TEST	308.98	0.0203	0.0	64.534	1.308		Vel = 7.51		
	100.00						Qa = 100.00		
	408.98				82.365		K Factor = 45.06		

FIRE SPRINKLER GENERAL NOTES

- OCCUPANCY: BUSINESS
- DESIGN STANDARD: NFPA-13 2010
- DESIGN PRESSURE: 175 PSI (100 FT. HEAD)
- SPRINKLER PENDENT: TYCO (AS NOTED ON PLAN)
- ESQUICHONS: WHITE 2 PIECE SEMI-REC. THREADED ENDS
- PIPE: 1" - 1/2" SCH. 40 BLACK STEEL WITH THREADED ENDS
- PIPE: 2" - 6" SCH. 10 BLACK WITH GROOVED ENDS
- AND SPACED PER NFPA-13
- ALL PIPING TO BE TESTED AT 200 PSI FOR 2 HOURS.
- PROVIDE TAMPER SWITCH ON ALL CONTROL VALVES.
- PROVIDE SPARE HEAD CABINET PER NFPA-13
- PROVIDE HYDRAULIC RANGER PIPING WITH OTHER TRADES.
- ⊕ DENOTES HYDRAULIC REFERENCE POINTS.
- ⊕ DENOTES GROOVED COUPLING IN PIPE.
- RN = RISER NIPPLE.
- SS = SPRIG NIPPLE.
- CC = GROOVED COUPLING.
- TOE = THREAD ONE END.
- GBE = GROOVE BOTH ENDS.



GROUND FLOOR FIRE PROTECTION
 1/4" = 1' SCALE
 QUANTITY 9-7
 DATE 11/14/12

REVISIONS	NOTES
1	ISSUE FOR CONSTRUCTION

NO.	DESCRIPTION	DATE
1	ISSUE FOR CONSTRUCTION	11/14/12

NO.	DESCRIPTION	DATE
1	ISSUE FOR CONSTRUCTION	11/14/12

NO.	DESCRIPTION	DATE
1	ISSUE FOR CONSTRUCTION	11/14/12

C PORT CREDIT UNION
 285 FOREST AVENUE
 PORTLAND, MAINE 04101
FIRE PROTECTION PLAN
 FREEDOM FIRE PROTECTION, INC.
 209 QUAKER RIDGE ROAD
 CASCO, MAINE 04015

JOB NO. 10000
 DATE 7/26/12
 SHEET NO. 14 OF 23
FP-10f2

Freedom Fire Protection, Inc.

Over 30 Years of Fire Protection Experience
209 Quaker Ridge Rd. Casco, Maine 04015
Phone 207/627-4109 Fax 207/627-7340

February 28, 2012

Portland City Hall
Third Floor Room 315
Portland, Maine 04101

Attn: Lt. Benjamin Wallace Jr.

Ref: cPort Credit Union
285 Forest Ave.
Portland, Maine 04101


Subj: Fire Sprinkler Permit Review

Lt. Wallace,

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

- Fire Suppression System Permit
- Permit Fee Check
- Full Size FFP Drawings FP-1 & FP-2
- 1 set of 8-1/2 x 11 PDF sprinkler plans.
- Hydraulic Calculations Area # 1
- CD-R disc with Drawing, Calculation Files

Regards,


William W. Wales