

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BUILDING DEPARTMENT

PERMIT

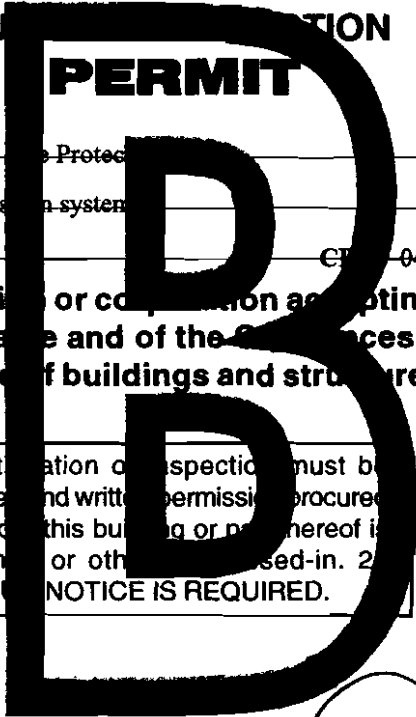
Permit Number: 100245

Please Read Application And Notes, If Any, Attached

This is to certify that RICE GEOFFREY I / Freedom to Protect
has permission to install Water-based fire suppression system

AT 553 CUMBERLAND AVE CITY OF PORTLAND 048 E027001

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 buildings and structures, and of the application on file in this department.



PERMIT ISSUED
Apply to Public Works to set line and grade if nature of work requires such information.
MAY 11 2010

Notification of inspection must be given and written permission procured before this building or part thereof is lathed or otherwise used-in. 2 HOURLY NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS
Fire Dept. CITY OF PORTLAND
Health Dept. _____
Appeal Board _____
Other _____
Department Name

[Handwritten Signature]
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 10-0245	Issue Date:	CBL: 048 E027001
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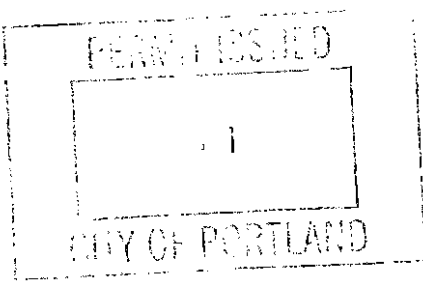
Location of Construction: 553 CUMBERLAND AVE	Owner Name: RICE GEOFFREY I	Owner Address: 658 CONGRESS ST 1ST FLOOR	Phone:
Business Name:	Contractor Name: Freedom Fire Protection, Inc	Contractor Address: 209 Quaker Ridge Road Casco	Phone 2076274109
Lessee/Buyer's Name	Phone:	Permit Type: Fire Suppression System	Zone: R-6

Past Use: Multi-27 unit (permit #09-087)	Proposed Use: Multi-27 unit - install Water-based fire suppression system	Permit Fee: \$500.00	Cost of Work: \$48,000.00	CEO District: 2
		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied *See Conditions	INSPECTION: Use Group: U Type: Fire Supp	

Proposed Project Description: install Water-based fire suppression system	Signature:	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: Idobson	Date Applied For: 03/15/2010	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> <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"/> OR w/ conditions Date: 3/16/10 AFM	<p>Zoning Appeal</p> <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:	<p>Historic Preservation</p> <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: ABM
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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

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

 X A final inspection is required by the fire dept. Upon completion. A fire alarm acceptance report shall be submitted at that time.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection.

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

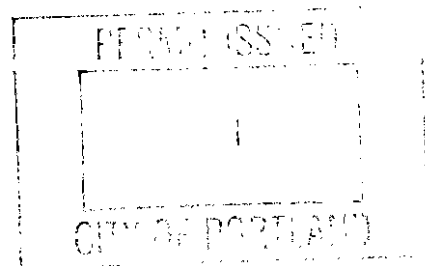
CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.

Signature of Applicant/Designee

Date

Signature of Inspections Official

Date



City of Portland, Maine - Building or Use Permit

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

Permit No: 10-0245	Date Applied For: 03/15/2010	CBL: 048 E027001
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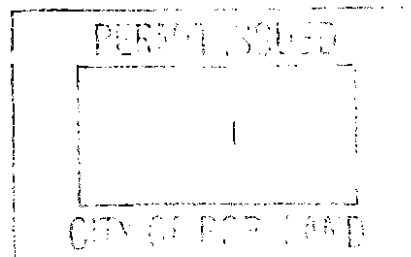
Location of Construction: 553 CUMBERLAND AVE	Owner Name: RICE GEOFFREY I	Owner Address: 658 CONGRESS ST 1ST FLOOR	Phone:
Business Name:	Contractor Name: Freedom Fire Protection, Inc	Contractor Address: 209 Quaker Ridge Road Casco	Phone: (207) 627-4109
Lessee/Buyer's Name	Phone:	Permit Type: Fire Suppression System	

Proposed Use: Multi- 27 unit - install Water-based fire suppression system	Proposed Project Description: install Water-based fire suppression system
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Dept: Zoning	Status: Approved with Conditions	Reviewer: Ann Machado	Approval Date: 03/16/2010
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) With the issuance of permit #09-0651 and the certificate of occupancy, this property shall remain a twenty-seven (27) family dwelling. Any change of use shall require a separate permit application for review and approval.			
2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.			

Dept: Building	Status: Approved	Reviewer:	Approval Date:
Note:			Ok to Issue: <input type="checkbox"/>

Dept: Fire	Status: Approved with Conditions	Reviewer: Capt Keith Gautreau	Approval Date: 03/17/2010
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) 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.			
2) The Fire alarm and Sprinkler systems shall be reviewed by a licensed contractor[s] for code compliance. Compliance letters are required.			
3) The sprinkler system shall be installed in accordance with NFPA 13R.			
4) Application requires State Fire Marshal approval.			
5) Fire department connection type and location shall be approved in writing by fire prevention bureau.			
6) The Fire Department will require Knox locking caps on all Fire Department Connections on the exterior of the building.			
7) System acceptance and commissioning must be co-ordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.			



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

March 11, 2010

Portland City Hall
Third Floor Room 315
Portland, Maine 04101

Attn: Captain Keith Gautreau

Ref: Rice Management Apartments
551-553 Cumberland Ave.
Portland, Maine 04101

Subj: Fire Sprinkler Plan Review

Dear Captain Gautreau,

Enclosed please find for your review and comment the following sprinkler plans and hydraulic calculations.

In addition I have enclosed a copy of the State Fire Marshall's sprinkler permit for this project.

- Fire Suppression System Permit.
- Permit Fee check.
- Freedom Fire Protections drawing FP1, FP2, FP3, FP4, Fp5 and FP6 dated 2/06/2010.
- 1 set of 11X17 sprinkler plans.
- Hydraulic Calculations Area # 1 & Area # 2 dated 2/06/2010.
- Copy of the State Marshall's sprinkler permit.

Per your letter of February 23, 2010 I will be installing a five inch (5") Storz fire department connection, unless advised otherwise.

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

Regards,

William Wales

(O) 207/627-4109
(F) 207/627-7340
(C) 207/671-8639
Email wwales@maine.rr.com



State of Maine
Department of Public Safety



Fire Sprinkler System Permit

8964

Rice Management Apartments

Located at: 551-553 Cumberland Ave
In the Town of: Portland
Occupancy/Use: Apartments
Type of System: NFPA 13R

Permission is hereby given to:

Freedom Fire Protection, Inc.
209 Quaker Ridge Road
Casco, ME 04015
Contractor License # 295

COPY

according to plans submittal filed with the Licensing and Inspections Unit and are now approved. This application form/plans are filed under log # 2101053, and no departure from application form/plans shall be made without prior approval in writing. This permit is issued under the provisions of Title 32, Chapter 20, Section 12004-I. Nothing herein shall excuse the holder of this permit for failure to comply with local ordinances, zoning laws, or other pertinent legal restrictions. Each permit issued shall be displayed/available at the site of construction.

This permit was issued on 2/22/2010 for a fee paid of \$208.00
This permit will expire at midnight on Saturday, August 21, 2010

Anne H. Jordan
Commissioner

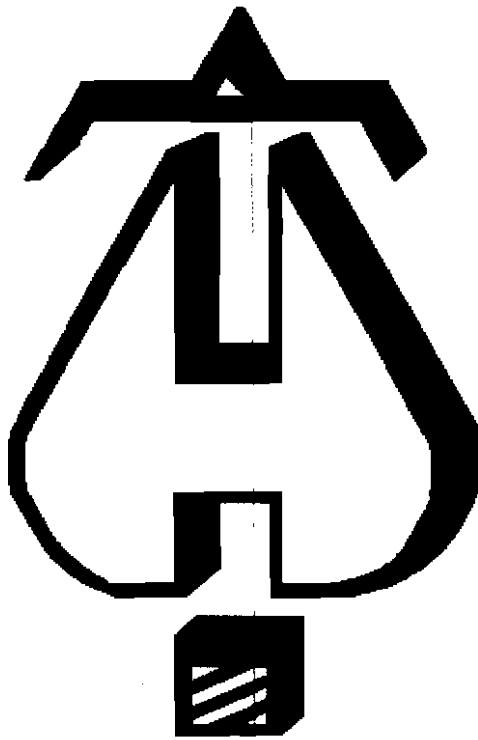
Fire Department Connection Location/Type per Local Fire Department

Within 30 days of the completion of a new fire sprinkler system or an addition to an existing fire sprinkler system, a fire sprinkler system contractor shall provide to the Licensing and Inspections Unit a copy of this permit signed and dated by the certified responsible managing supervisor representing that the fire sprinkler system has been installed according to specifications of the approved plan to the best of the supervisor's knowledge, information, and belief. This requirement is part of the sprinkler law, and neglect of this duty is grounds to not renew the contractor's license to do work in the State of Maine. All sprinkler licenses expire June 30th every year.

Job completed, tested and verified on date of _____

RMS for this job: Vess Timothy L.

RMS Signature: _____



... Fire Protection by Computer Design

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

Job Name : 551-553 CUMBERLAND AVENUE
Building :
Location : 551 - 553 CUMBERLAND AVENUE, PORTLAND, MAINE 04101
System : AREA #1
Contract : C0001
Data File : CUMBERLA.wx1

HYDRAULIC DESIGN INFORMATION SHEET

Name - RICE MANAGEMENT APARTMENTS Date - 2-6-2010
Location - 551 - 553 CUMBERLAND AVENUE, PORTLAND, MAINE 04101
Building - System No. - AREA #1
Contractor - FREEDOM FIRE PROTECTION, INC. Contract No. - C0001
Calculated By - CHRIS VESS Drawing No. - FP3
Construction: (X) Combustible () Non-Combustible Ceiling Height 8'-0"
OCCUPANCY - RESIDENTIAL

S Type of Calculation: ()NFPA 13 Residential (X)NFPA 13R ()NFPA 13D
Y Number of Sprinklers Flowing: ()1 ()2 (X)4 ()
S ()Other
T ()Specific Ruling Made by Date
E
M Listed Flow at Start Point - 16.004Gpm System Type
Listed Pres. at Start Point - 14.5 Psi (X) Wet () Dry
D MAXIMUM LISTED SPACING 16 x 16 () Deluge () PreAction
E Domestic Flow Added - Gpm Sprinkler or Nozzle
S Additional Flow Added - Gpm Make TYCO Model LF-II
I Elevation at Highest Outlet - 30.00Feet Size 1/2" K-Factor 4.2
G Note: Temperature Rating 155
N

Calculation Gpm Required 70.193 Psi Required 80.183 At Test
Summary C-Factor Used: Overhead 150 Underground 150

W Water Flow Test: Pump Data: Tank or Reservoir:
A Date of Test - 7-6-2006 Rated Cap. Cap.
T Time of Test - @ Psi Elev.
E Static (Psi) - 87 Elev.
R Residual (Psi) - 58 Other Well
Flow (Gpm) - 1277 Proof Flow Gpm
S Elevation - 0

P Location: CORNER OF MELLEEN ST. & SHERMAN ST.

P
L Source of Information:
Y

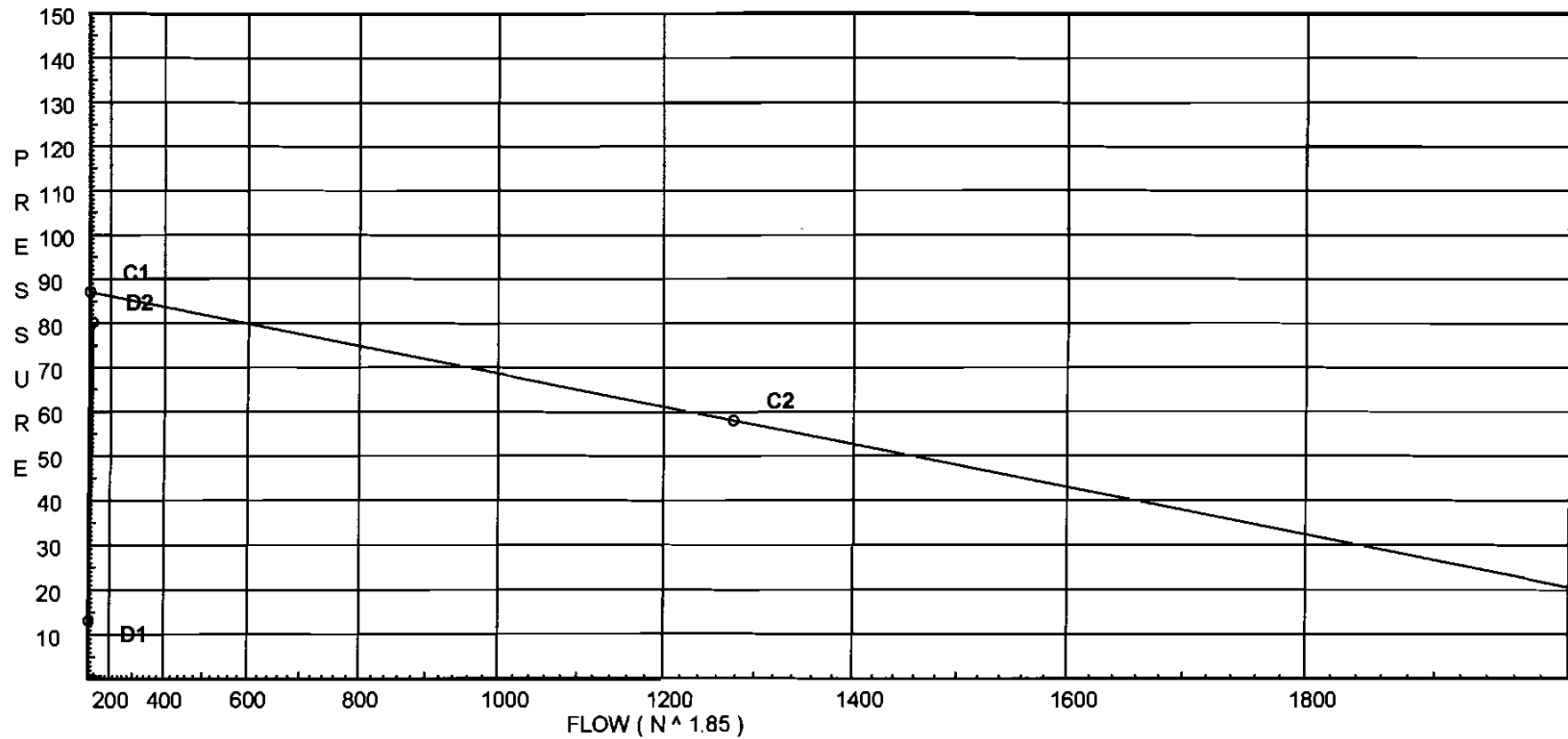
Water Supply Curve (C)

FREEDOM
551-553 CUMBERLAND AVENUE

Page 2
Date 2-6-2010

City Water Supply:
C1 - Static Pressure : 87
C2 - Residual Pressure: 58
C2 - Residual Flow : 1277

Demand:
D1 - Elevation : 12.993
D2 - System Flow : 70.1931
D2 - System Pressure : 80.183
Hose (Adj City) : _____
Hose (Demand) : _____
D3 - System Demand : 70.1931
Safety Margin : 6.682



Pressure / Flow Summary - STANDARD

FREEDOM
551-553 CUMBERLAND AVENUE

Page 3
Date 2-6-2010

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
102	30.0	4.2	14.5	na	15.99	0.05	256	14.5
103	30.0	4.2	16.17	na	16.89	0.05	256	14.5
104	30.0	4.9	18.91	na	21.31	0.05	256	7.0
101	30.0	4.2	14.52	na	16.0	0.05	256	14.5
11	30.0		14.97	na				
10	30.0		16.7	na				
9	30.0		19.72	na				
6	30.0		26.1	na				
5	30.0		33.25	na				
4	30.0		37.25	na				
3	0.0		62.99	na				
2	0.0		64.91	na				
1	0.0		67.0	na				
TR	0.0		68.57	na				
BR	0.0		70.72	na				
BKFL	0.0		75.11	na				
BASE	0.0		75.58	na				
UG2	0.0		80.13	na				
UG1	0.0		80.14	na				
TEST	0.0		80.18	na				

The maximum velocity is 15.06 and it occurs in the pipe between nodes 4 and 3

Final Calculations - Hazen-Williams

FREEDOM
551-553 CUMBERLAND AVENUE

Page 4
Date 2-6-2010

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/UL	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
102 to 11	15.99	1.101 150	1T	9.563 0.0	0.950 9.563	14.500 0.0			K Factor = 4.20	
	15.99	0.0450		0.0	10.513	0.473			Vel = 5.39	
	0.0 15.99					14.973			K Factor = 4.13	
103 to 10	16.89	1.101 150	1T	9.563 0.0	1.000 9.563	16.171 0.0			K Factor = 4.20	
	16.89	0.0498		0.0	10.563	0.526			Vel = 5.69	
	0.0 16.89					16.697			K Factor = 4.13	
104 to 9	21.31	1.101 150	1T	9.563 0.0	1.000 9.563	18.908 0.0			K Factor = 4.90	
	21.31	0.0764		0.0	10.563	0.807			Vel = 7.18	
	0.0 21.31					19.715			K Factor = 4.80	
101 to 11	16.00	1.101 150	1T	9.563 0.0	0.500 9.563	14.520 0.0			K Factor = 4.20	
	16.0	0.0450		0.0	10.063	0.453			Vel = 5.39	
11 to 10	16.00	1.101 150		0.0 0.0	10.620 0.0	14.973 0.0				
	32.0	0.1623		0.0	10.620	1.724			Vel = 10.78	
10 to 9	16.89	1.394 150	2E	9.523 0.0	17.270 9.523	16.697 0.0				
	48.89	0.1126		0.0	26.793	3.018			Vel = 10.28	
9 to 6	21.30	1.394 150	1T	9.523 0.0	19.500 9.523	19.715 0.0				
	70.19	0.2200		0.0	29.023	6.386			Vel = 14.76	
6 to 5	0.0	1.394 150		0.0 0.0	32.490 0.0	28.101 0.0				
	70.19	0.2200		0.0	32.490	7.148			Vel = 14.76	
5 to 4	0.0	1.394 150	1E	4.762 0.0	13.430 4.762	33.249 0.0				
	70.19	0.2200		0.0	18.192	4.003			Vel = 14.76	
4 to 3	0.0	1.38 150	4E	18.133 0.0	37.000 18.133	37.252 12.993				
	70.19	0.2311		0.0	55.133	12.741			Vel = 15.06	
3 to 2	0.0	1.38 120	1E	3.0 0.0	2.500 3.000	62.986 0.0				
	70.19	0.3493		0.0	5.500	1.921			Vel = 15.06	
2 to 1	0.0	1.38 120	1E	3.0 0.0	3.000 3.000	64.907 0.0				
	70.19	0.3492		0.0	6.000	2.095			Vel = 15.06	
1 to TR	0.0	1.38 120	1E	3.0 0.0	1.500 3.000	67.002 0.0				
	70.19	0.3493		0.0	4.500	1.572			Vel = 15.06	
TR to BR	0.0	1.61 120	1E 1G	4.0 1.0	8.000 5.000	68.574 0.0				
	70.19	0.1648		0.0	13.000	2.142			Vel = 11.06	

Final Calculations - Standard

FREEDOM
551-553 CUMBERLAND AVENUE

Page 5
Date 2-6-2010

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/UL	Fitting or Eqv.	Ln.	Pipe Fng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
BR	0.0	2.067	1E	5.0	3.000	70.716				
to BKFL	70.19	0.0489		0.0	5.000	4.000			* Fixed loss = 4	
BKFL	0.0	2.067	1E	7.555	7.000	75.107				
to BASE	70.19	0.0323		0.0	7.555	0.0			Vel = 6.71	
BASE	0.0	1.959	1T	11.635	90.000	75.577				
to UG2	70.19	0.0420	1G	1.164	18.617	0.0			Vel = 7.47	
UG2	0.0	12.34	1T	93.767	450.000	80.134				
to UG1	70.19	0.0		0.0	93.767	0.0			Vel = 0.19	
UG1	0.0	6.16	1G	4.304	225.000	80.138				
to TEST	70.19	0.0002	1E	20.084	24.388	0.0			Vel = 0.76	
	0.0			0.0	249.388	0.045				
	70.19					80.183			K Factor = 7.84	



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: 551-553 Cumberland Ave CBL: 48-E-27

Exact location: (within structure) BASEMENT, 1ST, 2ND, 3RD LEVELS.

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

Building owner: RICE MANAGEMENT (JEFFREY RICE)

Managing Supervisor (RMS): TIM VESS License No: 348

Supervisor phone: WILLIAM WALES E-mail: WJWALES@MAINE.RR.COM

Installing contractor: FREEDOM FIRE PROTECTION License No: 295

Contractor phone: 207 627-4109 E-mail: WJWALES@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: 13R Edition: 2007

*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: 48,000
PERMIT FEE: 500-00
(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)

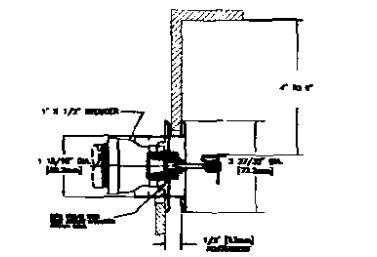
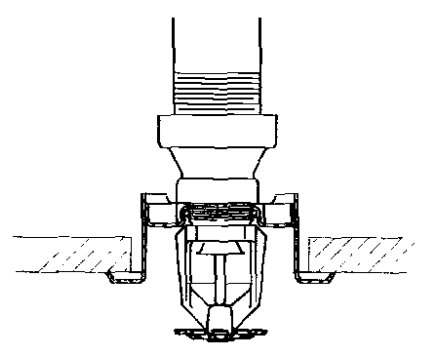
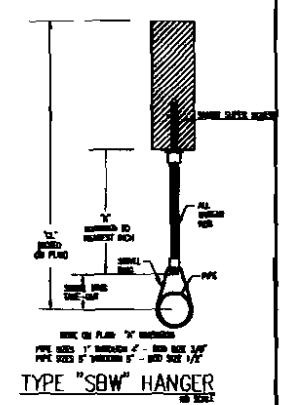
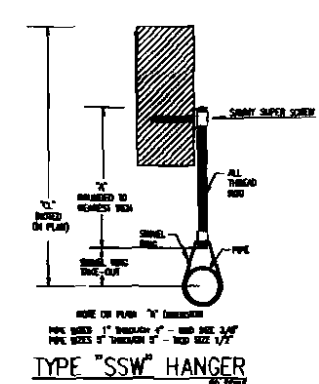
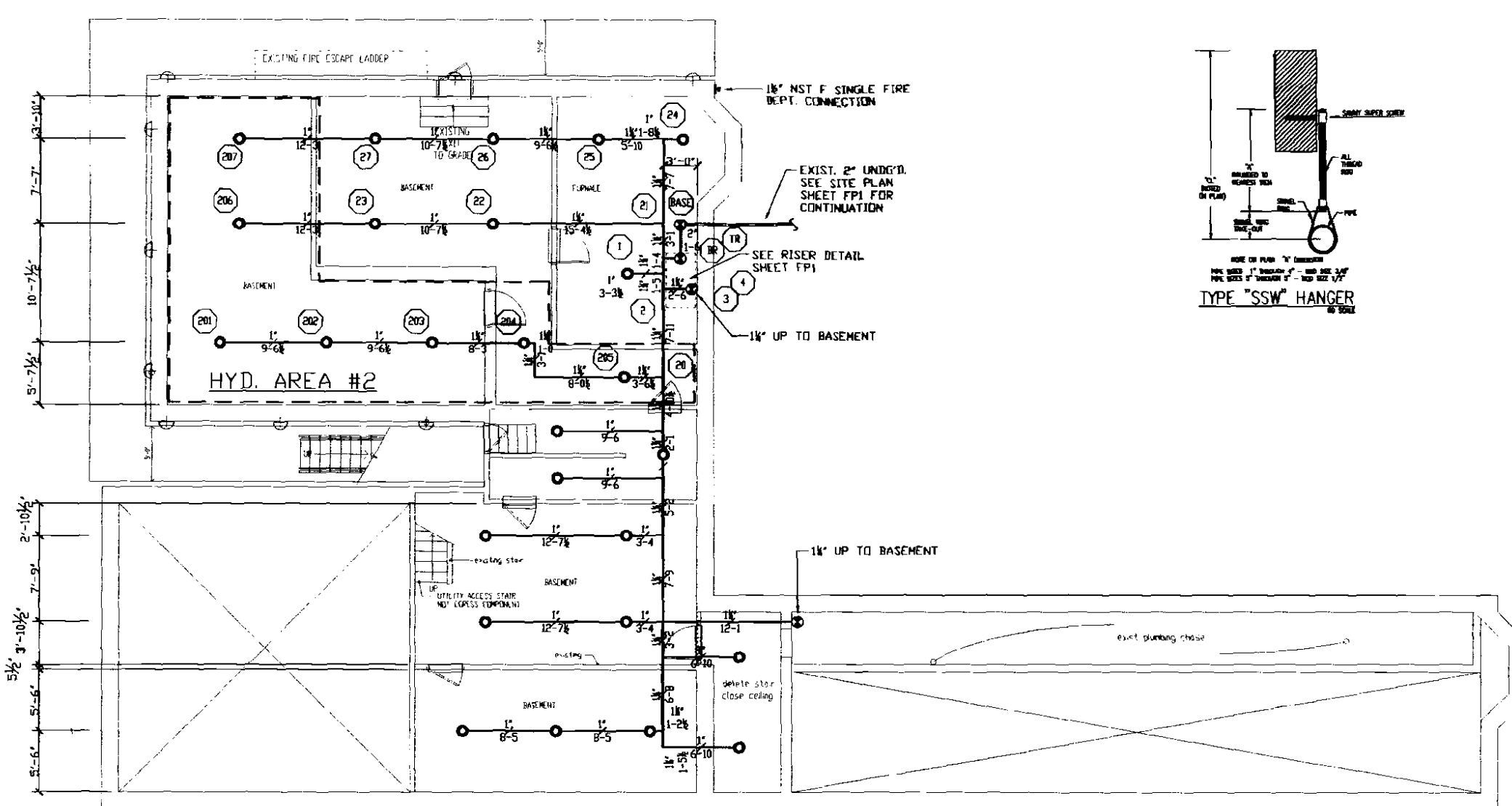
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Submit all information to the Building Inspections Department, 389 Congress Street, Room 315, Portland, Maine 04101.

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 Wales Date: MARCH 11, 2010



SUB BASEMENT FIRE SPRINKLER PLAN
 SCALE: 1/8"=1'-0"
 CEILING HEIGHT = 8'-0" AFF
 ELEVATION OF PIPE = TIGHT TO CEILING
 MAXIMUM SPRINKLER SPACING = 16'x16'
 ALL HANGERS = FIELD VERIFY (SEE DETAILS THIS SHEET)
 ALL PIPE & FITTINGS THIS FLOOR TO STEEL

HYDRAULIC DESIGN	
SYSTEM WET	AREA BASEMENT
SPRINKLERS CALCULATED	7 SPKRS
DENSITY REQ'D	10 GPM
AREA OF DISCHARGE	ROOM DESIGN
HOSE ALLOWANCE	100 GPM
SPRINKLER SYSTEM DEMAND @ TEST	245.97 GPM
RESIDUAL PRESSURE @ TEST	68.17 PSI
SAFETY FACTOR @ TEST	17.45 PSI

SEMI RECESSED PENDENT DETAIL

HORIZONTAL SIDEWALL DETAIL

REVISION DATE	NOTES	SPRINKLER INFORMATION AND QUANTITY										STANDARD SYMBOLS		STANDARD SYMBOLS		INSPECTIONS			
		SPRINKLER TYPE	WET	SPACING	K-FACTOR	TYPE	CONNECTION	MODEL	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY
		SPRINKLER TYPE	WET	SPACING	K-FACTOR	TYPE	CONNECTION	MODEL	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY

RICE MANAGEMENT APARTMENTS
 551 - 553 CUMBERLAND AVENUE
 PORTLAND, MAINE 04101

SUB BASEMENT FIRE SPRINKLER PIPING PLAN

FREEDOM FIRE PROTECTION, INC.
 200 QUAKER BEAN BOARD
 CAROL, MAINE 04816
 (207) 827-4100
 R.M.S. - 100 1950

DATE: 1-9-10
 DRAWN BY: []
 CHECKED BY: []
 SCALE: 1/8"=1'-0"
 SHEET NO.: **FP2**

