

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND BUILDING PERMIT

This is to certify that SPRINKLER SYSTEMS, INC.  
of P.O. Box 1285, Lewiston, Maine

For installation at 36 MAPLEWOOD ST

Job ID: 2011-05-1210-FAFS

CBL: 437 - - A - 008 - 001 - - - -

has permission to install an NFPA 13D automatic 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

  
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

*ok to use +  
SCM N/A*

## BUILDING PERMIT INSPECTION PROCEDURES

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

or email: [buildinginspections@portlandmaine.gov](mailto: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.**

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 OCCUOPIED.



# PORTLAND MAINE

*Strengthening a Remarkable City, Building a Community for Life • [www.portlandmaine.gov](http://www.portlandmaine.gov)*

Director of Planning and Urban Development  
Penny St. Louis

Job ID: 2011-05-1210-FAFS

For installation at:

CBL: 437 - - A - 008 - 001 - - - -

Installation of NFPA 13D sprinkler system · 36 MAPLEWOOD ST

## Conditions of Approval:

### **Zoning**

1. This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.
2. This property shall remain a two family dwelling. Any change of use shall require a separate permit application for review and approval.

### **Fire**

The sprinkler system shall be installed in accordance with NFPA 13D.

**City of Portland, Maine - Building or Use Permit Application**

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

Job No: 2011-05-1210-FAFS	Date Applied: 5/27/2011	CBL: 437 - - A - 008 - 001 - - - -	
Location of Construction: 36 MAPLEWOOD ST	Owner Name: 32 MAPLEWOOD LLC	Owner Address: 200 RIVERSIDE INDUSTRIAL PAR PORTLAND, ME 04103	Phone:
Business Name:	Contractor Name: Garland, Scott	Contractor Address: P.O. Box 1285 LEWISTON MAINE 04240	Phone: (207) 775-1521
Lessee/Buyer's Name:	Phone:	Permit Type: FAFS	Zone: R-5
Past Use: Two Family	Proposed Use: Two Family – fire suppression system	Cost of Work:	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved w/ conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: Type:
		Signature: <i>[Signature]</i> (58)	Signature:
Proposed Project Description: Install Sprinkler System		Pedestrian Activities District (P.A.D.)	
Permit Taken By:	<b>Zoning Approval</b>		

<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>	<p><b>Special Zone or Reviews</b></p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetlands</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p><input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM</p> <p>Date: <i>OK w/ conditions</i> <i>6/15/11 ABM</i></p>	<p><b>Zoning Appeal</b></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><b>Historic Preservation</b></p> <p><input checked="" type="checkbox"/> Not in Dist 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>Date: <i>ABM</i></p>
	<b>CERTIFICATION</b>		

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	PHON

437-A-008.

(R.S.)

2011-05-12-10



# 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: 360 Maplewood St. CBL: \_\_\_\_\_

Exact location: (within structure) Entire

Type of occupancy(s) (NFPA & ICC): Two-family dwelling

Building owner: Chris LeFevre

Managing Supervisor: Scott E. Garland License No: 278

Supervisor phone: 775-1521 E-mail: scottssi@maine.cc.com

Installing contractor: Sprinkler Systems, Inc. License No: 093

Contractor phone: 775-1521 E-mail: Krissi@maine.cc.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 will this system is designed to: NFPA #13D Edition: \_\_\_\_\_

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

Attach all design information and complete approved submittals as may be required by the State Fire Marshal's Office.

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

COST OF WORK: <u>N/A</u> PERMIT FEE: _____ (\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000) <u>Waived per Capt. Gautreau</u>
--

Download a new copy of this document from [www.portlandmaine.gov](http://www.portlandmaine.gov) for every submittal. 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: <u>[Signature]</u> Date: <u>12-16-10</u>
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# Sprinkler Systems, Inc.

184 Read Street

Portland, ME 04103

Ph. (207) 775-1521 Fax (207) 879-1387

*Fire Protection Professionals Since 1973*

May 25, 2011

Portland Fire Department  
380 Congress Street  
Portland, ME 04101

Attn: Captain Keith Gautreau

Re: New Duplex  
36 Maplewood Street  
Portland, Maine

Dear Captain Gautreau,

This letter is to certify that the sprinkler system in the aforementioned location is active and is designed and installed in accordance with NFPA #13-R and all other state and local codes.

If there are any questions or concerns please do not hesitate to call.

Very truly yours,  
Sprinkler Systems, Inc.



Scott E. Garland, SET, RMS  
Project Manager



State of Maine  
Department of Public Safety



Fire Sprinkler System Permit

# 9333

36 Maplewood

Located at: 36 Maplewood Street  
In the Town of: Portland  
Occupancy/Use: Two Family Residence  
Type of System: NFPA 13d

Permission is hereby given to:

Sprinkler Systems, Inc.  
PO Box 1285  
Lewiston, ME 042431285  
Contractor License # 93

to begin installation according to the plans submittal now approved by the Office of State Fire Marshal. The submittal is filed under log # 2101439, and no departure from application submittal shall be made, without prior approval in writing. This permit is issued under the provisions of Title 32, Chapter 20. 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 at or made available at construction site.

This permit was issued on 12/14/2010 for a fee paid of \$50.00

This permit will expire at midnight on Sunday, June 12, 2011

The expiration date applies only if the installation has not begun by that date and no permission has been granted to extend the date. Once installation begins, then the permit is valid for however long it takes to complete the installation, assuming that the installation work is fairly continuous.

Anne H. Jordan  
Commissioner

The type of Fire Department Connection and its location is according to the 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 Office of State Fire Marshal a copy of this permit signed and dated by a 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 renewed sprinkler licenses are good for two years and expire at midnight on a June 30th.

Job completed, tested and verified on date of \_\_\_\_\_

RMS for this job: Garland Scott E.

RMS Signature: \_\_\_\_\_



**Test Hydrant**  
 POD-HYD01005  
 WS# 004541  
 Allen Ave 50' W of Washington Ave  
 Date: 10-11-2006  
 Static: 77 psi  
 Residual: 76 psi

**Flow Hydrant**  
 POD-HYD01006  
 WS# 003856  
 Allen Ave 250' NE of Brook Rd  
 Date: 10-11-2006  
 Static: 70 psi  
 Pitot: Left Port 30 psi  
 Right Port 30 psi  
 Flow: Left Port 919 gpm  
 Right Port 919 gpm

Site

**Scale**  
 0 300 Feet  
 1 inch = 300 feet

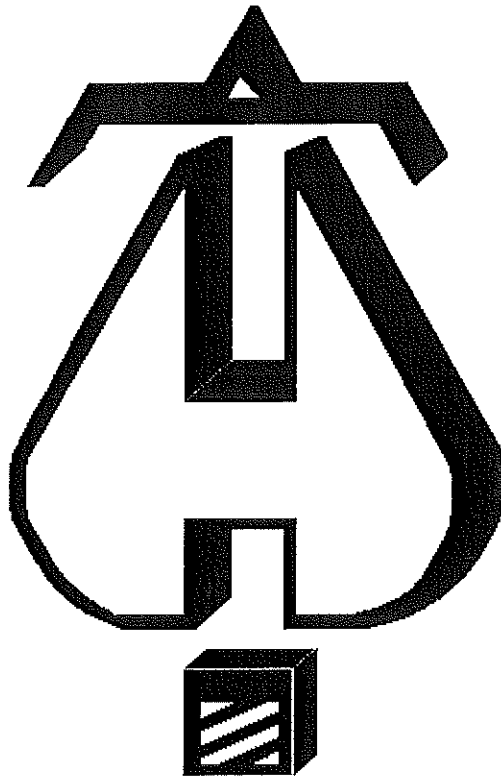
**Legend**

⊗	Blow Off	⊙	Fire Service	⊙	Air Valve	⊙	Sleeve
⊙	By Pass	⊙	Hydrant Control	⊙	Date Change	⊙	Tee
⊙	Distribution	⊙	Service	⊙	Material Change	⊙	Hydrants
⊙	End of Main	⊙	Transmission	▲	Reducer		

**Disclaimer:** This map is suitable for preliminary study and analysis and is based on PWD record information. PWD is not liable for any damages whatsoever resulting from inaccurate data or from errors made in the location and marking of its infrastructure.

Drawn By: DPW  
 Prepared for: Sprinkler Systems, Inc.  
 Date: 12-6-2010  
 Scale: As Noted

**36 Maplewood Avenue**  
**Portland**  
 PORTLAND WATER DISTRICT  
 225 Douglass Street  
 Portland, ME 04104



... Fire Protection by Computer Design

Sprinkler Systems, Inc.  
2-4 Avon Street  
P.O. Box 1285  
Lewiston, Maine 04240  
207-782-0104

Job Name : 36 Maplewood St.  
Building : ENTIRE  
Location : 36 MAPLEWOOD ST., PORTLAND, ME 04103  
System : 1 OF 1  
Contract : 10002  
Data File : 36MAPLEWOODST.WXF

HYDRAULIC DESIGN INFORMATION SHEET

Name - 36 MAPLEWOOD ST. Date - 12-7-2010  
Location - 36 MAPLEWOOD ST., PORTLAND, ME 04103  
Building - ENTIRE System No. - 1 OF 1  
Contractor - CHRIS LEFEVRE Contract No. - 10002  
Calculated By - KRISTOPHER J. FISH Drawing No. - 1 OF 1  
Construction: (X) Combustible ( ) Non-Combustible Ceiling Height 8-0  
OCCUPANCY - RESIDENTIAL - TWO-FAMILY DWELLING

S Type of Calculation: ( )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 - 16 Gpm System Type  
Listed Pres. at Start Point - 13.3 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 RELIABLE Model F1RES44  
I Elevation at Highest Outlet - 115.25Feet Size 1/2X1/2 K-Factor 4.4  
G Note:DESIGN AREA #1 - SECOND FLOOR Temperature Rating 155 DEG  
N BEDROOM

Calculation Gpm Required 32.09 Psi Required 48.017 AT BASE OF RISER  
Summary C-Factor Used: Overhead 150 Underground 150

W Water Flow Test: Pump Data: Tank or Reservoir:  
A Date of Test - 10-11-2006 Rated Cap. Cap.  
T Time of Test - @ Psi Elev.  
E Static (Psi) - 77 Elev.  
R Residual (Psi) - 76 Other Well  
Flow (Gpm) - 919 Proof Flow Gpm  
S Elevation - 81

P Location: WATER WAS FLOWED FROM HYD #1006 ON ALLEN AVE. FROM AN 8"  
P CIRCULATING CITY MAIN. TEST GUAGES READ FROM HYD #1005 ON ALLEN AVE.  
L Source of Information: PORTLAND WATER DISTRICT  
Y

Fittings Used Summary

Sprinkler Systems, Inc.  
36 Maplewood St.

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
Z Generic Flow Switch	2	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61

Units Summary

- Diameter Units Inches
- Length Units Feet
- Flow Units US Gallons per Minute
- Pressure Units Pounds per Square Inch

Pressure / Flow Summary - STANDARD

Sprinkler Systems, Inc.  
36 Maplewood St.

Page 4  
Date 12-7-2010

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
1	115.25	4.4	13.3	na	16.05	0.05	320	13.3
2	115.25	4.4	13.3	na	16.05	0.05	320	13.3
A	115.25		13.94	na				
B	107.0		20.42	na				
C	107.0		23.81	na				
D	107.0		25.75	na				
ET	99.083		30.47	na				
E	98.083		31.84	na				
F	98.083		33.85	na				
GT	98.083		35.28	na				
G	97.583		36.03	na				
RT	97.583		38.89	na				
RM	91.0		48.02	na				
RB	91.0		53.1	na				
X1	84.5		70.02	na				
X2	84.5		70.05	na				
TEST	81.0		71.56	na				

The maximum velocity is 12.48 and it occurs in the pipe between nodes RM and RB

Final Calculations - Hazen-Williams

Sprinkler Systems, Inc.  
36 Maplewood St.

Page 5  
Date 12-7-2010

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
1 to A	16.05 16.05	1.101 150 0.0453	1E 1T	3.825 9.563 0.0	0.667 13.387 14.054	13.300 0.0 0.636		K Factor = 4.40 Vel = 5.41	
	0.0 16.05					13.936		K Factor = 4.30	
2 to A	16.05 16.05	1.101 150 0.0453	1E 1T	3.825 9.563 0.0	0.667 13.387 14.054	13.300 0.0 0.636		K Factor = 4.40 Vel = 5.41	
A to B	16.04 32.09	1.101 150 0.1632	1T	9.563 0.0 0.0	8.250 9.562 17.812	13.936 3.573 2.907		Vel = 10.81	
B to C	0.0 32.09	1.101 150 0.1632	1T	9.563 0.0 0.0	11.250 9.562 20.812	20.416 0.0 3.397		Vel = 10.81	
C to D	0.0 32.09	1.101 150 0.1632	1T	9.563 0.0 0.0	2.333 9.562 11.895	23.813 0.0 1.941		Vel = 10.81	
D to ET	0.0 32.09	1.101 150 0.1632		0.0 0.0 0.0	7.917 0.0 7.917	25.754 3.429 1.292		Vel = 10.81	
ET to E	0.0 32.09	1.049 120 0.3120	1E	2.0 0.0 0.0	1.000 2.000 3.000	30.475 0.433 0.936		Vel = 11.91	
E to F	0.0 32.09	1.049 120 0.3121	1T	5.0 0.0 0.0	1.417 5.000 6.417	31.844 0.0 2.003		Vel = 11.91	
F to GT	0.0 32.09	1.38 120 0.0821	1E	3.0 0.0 0.0	14.500 3.000 17.500	33.847 0.0 1.437		Vel = 6.88	
GT to G	0.0 32.09	1.38 120 0.0820	1T	6.0 0.0 0.0	0.500 6.000 6.500	35.284 0.217 0.533		Vel = 6.88	
G to RT	0.0 32.09	1.38 120 0.0821	2E	6.0 0.0 0.0	28.750 6.000 34.750	36.034 0.0 2.853		Vel = 6.88	
RT to RM	0.0 32.09	1.38 120 0.0821	1Z 1T	3.0 6.0 0.0	6.583 9.000 15.583	38.887 7.851 1.279		* Fixed loss = 5 Vel = 6.88	
RM to RB	0.0 32.09	1.025 150 0.2313	1E	2.7 0.0 0.0	2.000 2.700 4.700	48.017 4.000 1.087		* Fixed loss = 4 Vel = 12.48	
RB to X1	0.0 32.09	1.314 150 0.0690	1T	4.495 0.0 0.0	200.000 4.495 204.495	53.104 2.815 14.104		Vel = 7.59	

Final Calculations - Standard

Sprinkler Systems, Inc.  
36 Maplewood St.

Page 6  
Date 12-7-2010

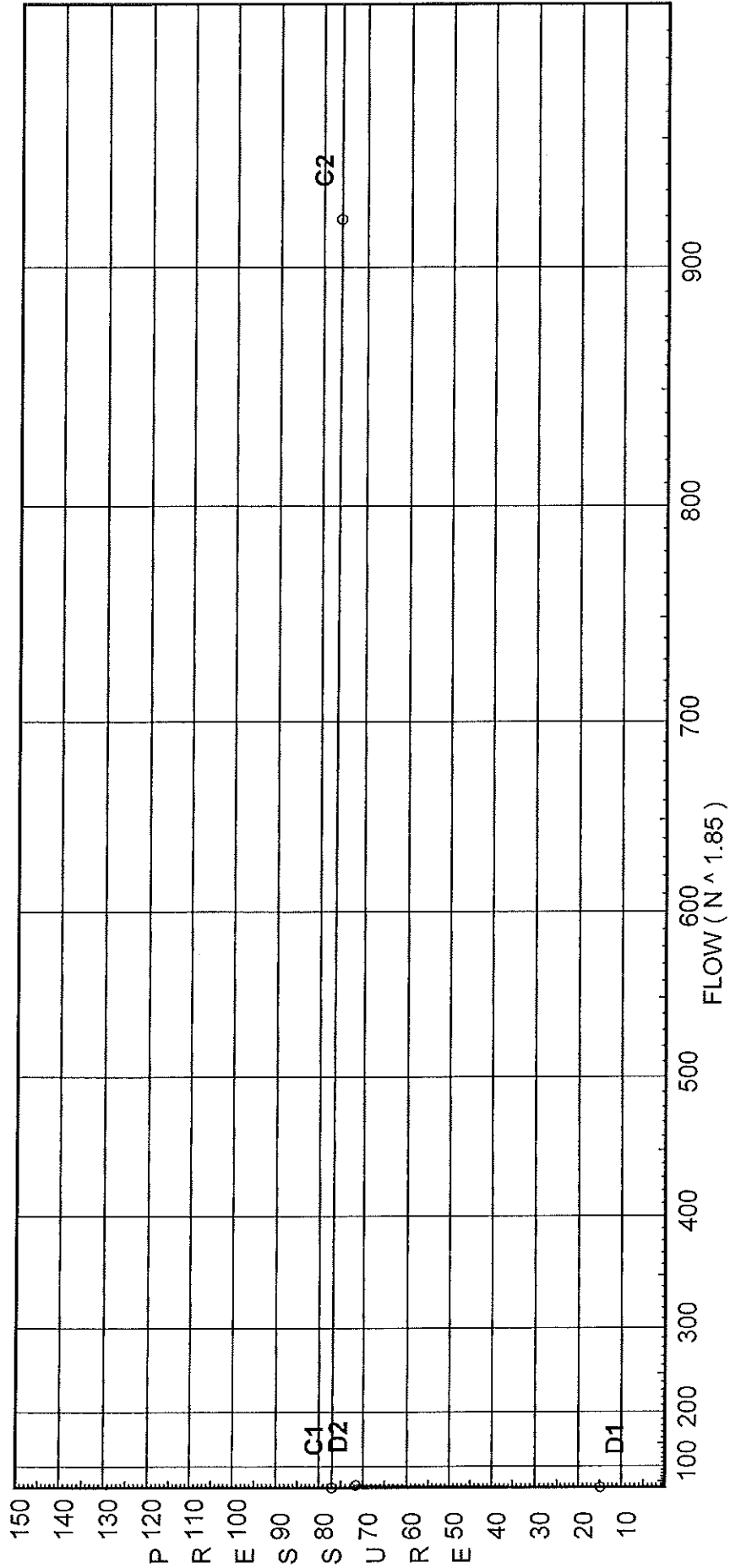
Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
X1	0.0	6.16	1T 43.037	500.000	70.023				
to		140	0.0	43.037	0.0				
X2	32.09	0.0	0.0	543.037	0.023		Vel = 0.35		
X2	0.0	12.34	1T 93.767	650.000	70.046				
to		140	1E 42.195	135.962	1.516				
TEST	32.09	0.0	0.0	785.962	0.001		Vel = 0.09		
	0.0								
	32.09				71.563		K Factor = 3.79		

Water Supply Curve (C)

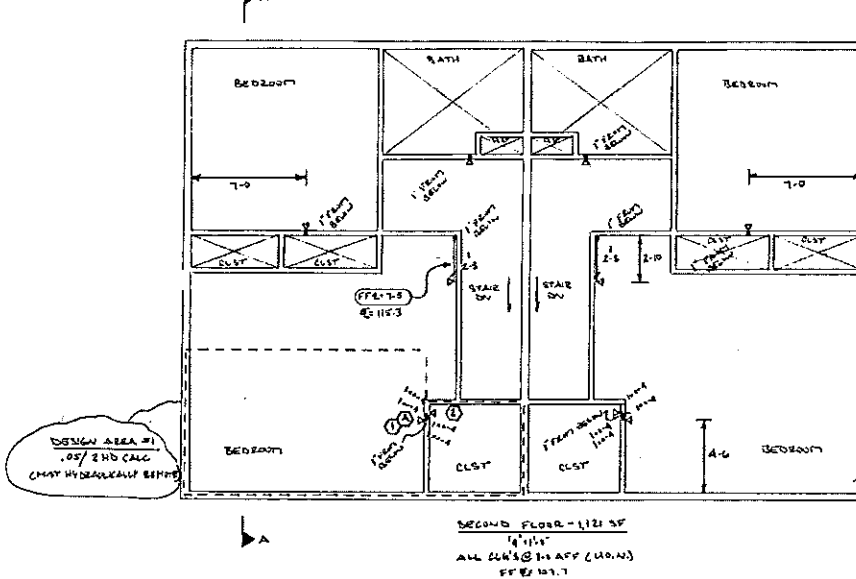
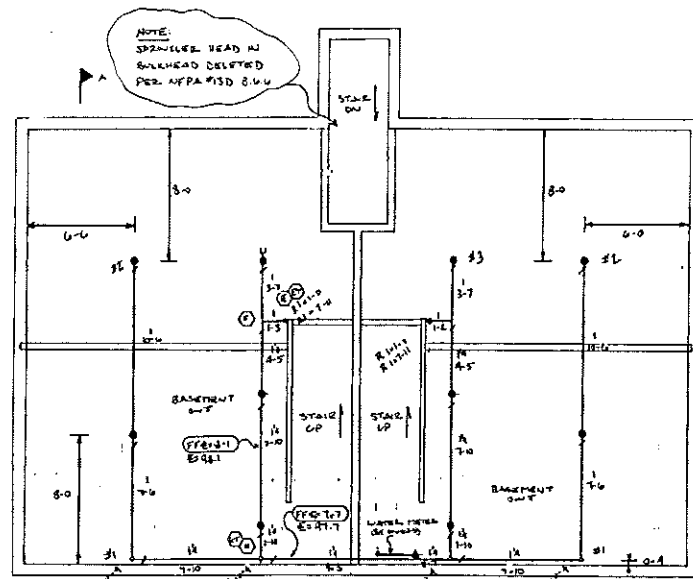
Sprinkler Systems, Inc.  
36 Maplewood St.

City Water Supply:  
C1 - Static Pressure : 77  
C2 - Residual Pressure: 76  
C2 - Residual Flow : 919

Demand:  
D1 - Elevation : 14.834  
D2 - System Flow : 32.0929  
D2 - System Pressure : 71.563  
Hose (Adj City)  
Hose (Demand)  
D3 - System Demand : 32.0929  
Safety Margin : 5.435







DESIGN AREA #1  
1/4" x 1/4" IFF 81-98-0

DESIGN AREA #2  
1/4" x 1/4" IFF 81-98-0

DESIGN AREA #3  
1/4" x 1/4" IFF 81-98-0

DESIGN AREA #4  
1/4" x 1/4" IFF 81-98-0

DESIGN AREA #5  
1/4" x 1/4" IFF 81-98-0

DESIGN AREA #6  
1/4" x 1/4" IFF 81-98-0

DESIGN AREA #7  
1/4" x 1/4" IFF 81-98-0

DESIGN AREA #8  
1/4" x 1/4" IFF 81-98-0

DESIGN AREA #9  
1/4" x 1/4" IFF 81-98-0

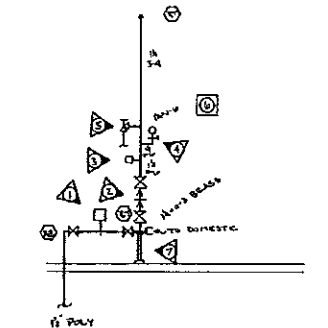
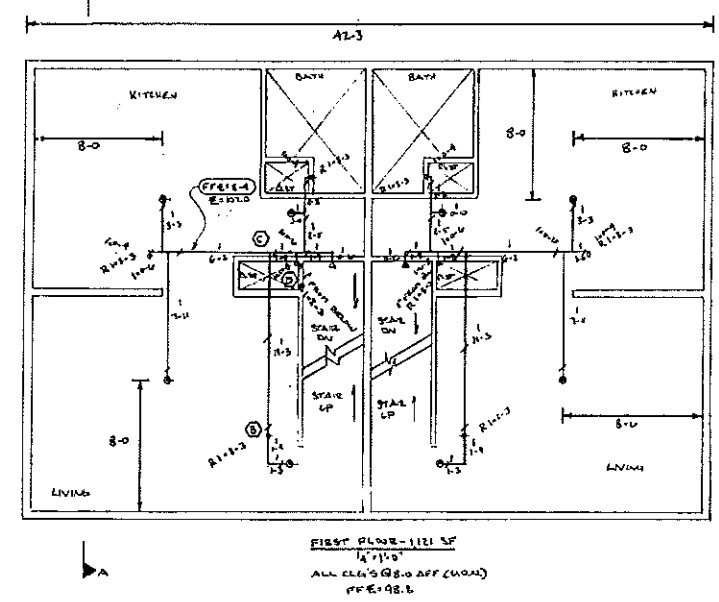
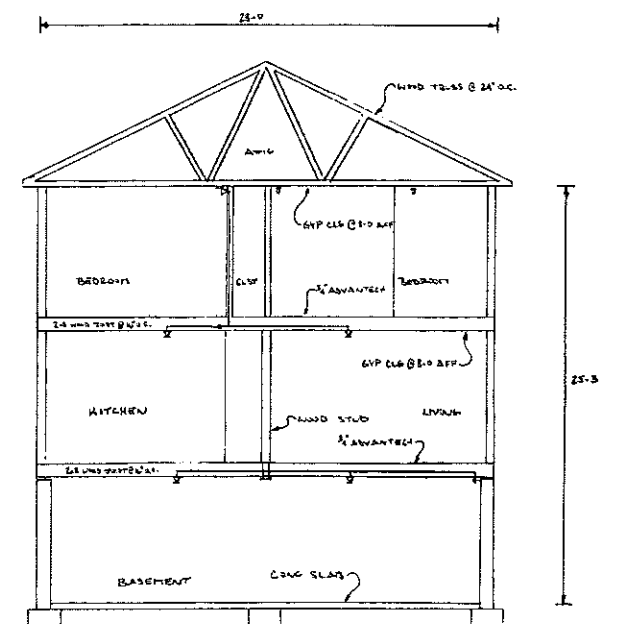
DESIGN AREA #10  
1/4" x 1/4" IFF 81-98-0

- GENERAL NOTES
- OCCUPANCY: RESIDENTIAL - TWO-FAMILY DWELLING, 10/10
  - DESIGN BASIS: HYDRAULICALLY CALCULATED WET APPROVED SPRINKLER SYSTEM (SEE HYDRAULIC STAMP)
  - ALL BASEMENT PIPING TO BE BLACK STEEL SCHEDULE 40 WITH CAST IRON SWELED OR GROOVED FITTINGS. ALL OTHER PIPING TO BE SMC GLAZEMASTER WITH PLASTIC FITTINGS.
  - ALL PIPE AND HANGER DIMENSIONS ARE CENTERLINE TO CENTERLINE. CUT LENGTHS TO BE PROVIDED FOR FABRICATION AND INSTALLATION.
  - TTE DENOTES TOP OF HOOD JUST TO CENTERLINE OF PIPE.
  - RTA DENOTES BOTTOM OF HOOD JUST TO CENTERLINE OF PIPE.
  - PFE DENOTES FINISHED FLOOR TO CENTERLINE OF PIPE.
  - OWLE TO PROVIDE SUFFICIENT HEAT (MIN 40°F) TO PREVENT SPRINKLER PIPING FROM FREEZING.
  - OWNER: S. J. PETERSON (207) 931-1300  
200 RIVERSIDE ROAD, PORTLAND, ME
  - ARCHITECT: T. CALL DESIGN  
151 ROOSEVELT TRAIL, WINDHAM, ME

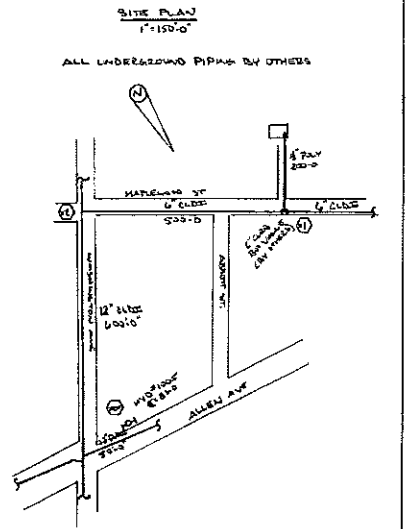
WATER SUPPLY  
FLOW TEST BY PORTLAND WATER DISTRICT OCT 11, 2010  
WATER WAS FLOWED FROM HYD #1000  
LOCATED ON ALLEN AVE FROM AN 8" CIRCULATING CITY MAIN TEST GAUGE  
READ FROM HYD-FIT ON ALLEN AVE.

STATUS: 71  
RESIDUAL: 70 L/HR GPM FLOW  
E-810

LEGEND  
○ HYDRAULIC REFERENCE POINT  
→ GROOVED COUPLING



- 1" WATER METER ASSEMBLY (BY OTHER)
- 1" DOUBLE CHECK BACKFLOW PREVENTER w/WATER PRESSURE GAUGE ON SUPPLY SIDE - CON BEARD 40-100
- 1/2" FLOW SWITCH
- 1/2" WATER PRESSURE GAUGE
- 1" TEST & DRAW VALVE
- 6" HEAD SPRINKLER CABINET
- PIPE STRAND



<p>HYDRAULIC DESIGN CRITERIA</p> <p>Density: 62.4 lb/ft<sup>3</sup></p> <p>Remote Area: 2 HEAD CALC</p> <p>K Factor: 5.7</p> <p>Head Size: 1.5"</p> <p>Head Allowance: 0.5'</p> <p>Water Supply: 10-10-04</p> <p>Static: 7.1'</p> <p>Residual: 7.0'</p> <p>Water Flowing: 914 GPM</p> <p>Size of Supply: 6" CLDSE</p>	<p>1 Type of Hazard: RESIDENTIAL 2 Deflector Distance: 4'-6"</p> <p>3 Pipe Type: WET 4 Sprinkler Area: 3,344 SF</p> <p>5 Type of Connection: SMC GLAZEMASTER</p> <p>6 Maximum Spacing Allowed: 15'-0"</p> <p>7 PIPE SIZING METHOD: PIPE SCHEDULE 40 HYDRAULICALLY CALCULATED</p> <p>8 ALL HANGERS AND LOCATIONS TO BE IN ACCORDANCE WITH NFPA PAMPHLET NO. 13</p> <p>9 HIGH DEGREE TEMPERATURE SPRINKLER HEADS TO BE INSTALLED IN ACCORDANCE WITH NFPA PAMPHLET NO. 13</p>	<p>CIRCLE HANGER TYPE TO BE USED</p>	<p>HANGERS</p> <table border="1"> <tr> <th>Symbol</th> <th>Description</th> </tr> <tr> <td>○</td> <td>1/2" SPRINKLER SUPERHEATED W/NO. 62714</td> </tr> <tr> <td>○</td> <td>1/2" W/NO. 62714</td> </tr> <tr> <td>○</td> <td>1/2" W/NO. 62714</td> </tr> <tr> <td>○</td> <td>1/2" W/NO. 62714</td> </tr> </table>	Symbol	Description	○	1/2" SPRINKLER SUPERHEATED W/NO. 62714	○	1/2" W/NO. 62714	○	1/2" W/NO. 62714	○	1/2" W/NO. 62714	<p>ABBREVIATIONS</p> <table border="1"> <tr> <th>Symbol</th> <th>Description</th> </tr> <tr> <td>○</td> <td>Water Meter</td> </tr> <tr> <td>○</td> <td>Backflow Preventer</td> </tr> <tr> <td>○</td> <td>Flow Switch</td> </tr> <tr> <td>○</td> <td>Water Pressure Gauge</td> </tr> <tr> <td>○</td> <td>Test &amp; Draw Valve</td> </tr> <tr> <td>○</td> <td>Head Sprinkler Cabinet</td> </tr> <tr> <td>○</td> <td>Pipe Strand</td> </tr> </table>	Symbol	Description	○	Water Meter	○	Backflow Preventer	○	Flow Switch	○	Water Pressure Gauge	○	Test & Draw Valve	○	Head Sprinkler Cabinet	○	Pipe Strand	<p>CONTRACT RESPONSIBILITIES</p> <table border="1"> <tr> <th>Item</th> <th>Responsible</th> <th>Checked</th> </tr> <tr> <td>DESIGN</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>PERMITS</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>INSTALLATION</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>INSPECTION</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>PAINTING</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>TESTING</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>OPERATION</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>MAINTENANCE</td> <td>✓</td> <td>✓</td> </tr> </table>	Item	Responsible	Checked	DESIGN	✓	✓	PERMITS	✓	✓	INSTALLATION	✓	✓	INSPECTION	✓	✓	PAINTING	✓	✓	TESTING	✓	✓	OPERATION	✓	✓	MAINTENANCE	✓	✓	<p>SPRINKLER HEAD LEGEND</p> <table border="1"> <tr> <th>Symbol</th> <th>Make</th> <th>Model</th> <th>Finish</th> <th>Type</th> <th>Temp</th> <th>N.P.T.</th> <th>Orifice</th> <th>K-Factor</th> <th>Total</th> </tr> <tr> <td>○</td> <td>DELONGI</td> <td>PIREMA</td> <td>W/NT</td> <td>157</td> <td>157</td> <td>5/8"</td> <td>1/2"</td> <td>4.4</td> <td>13</td> </tr> <tr> <td>○</td> <td>DELONGI</td> <td>PIREMA</td> <td>W/NT</td> <td>157</td> <td>157</td> <td>5/8"</td> <td>1/2"</td> <td>4.4</td> <td>11</td> </tr> <tr> <td colspan="9">TOTAL</td> <td>24</td> </tr> </table>	Symbol	Make	Model	Finish	Type	Temp	N.P.T.	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BOX 1055 LEWISTON MAINE 04240</p>	<p>36 MAPLEWOOD ST PORTLAND ME 04103</p> <p>CONTRACT WITH OWNER</p> <table border="1"> <tr> <th>System Type</th> <th>No.</th> <th>Date</th> <th>Description</th> </tr> <tr> <td>WET</td> <td>1</td> <td>12-7-10</td> <td>WET APPROVED SPRINKLER</td> </tr> <tr> <td>DRY</td> <td>1</td> <td>12-7-10</td> <td>DRY APPROVED SPRINKLER</td> </tr> <tr> <td>DELUGE</td> <td>1</td> <td>12-7-10</td> <td>DELUGE APPROVED SPRINKLER</td> </tr> <tr> <td>PREACTION</td> <td>1</td> <td>12-7-10</td> <td>PREACTION APPROVED SPRINKLER</td> </tr> <tr> <td>WELFE</td> <td>1</td> <td>12-7-10</td> <td>WELFE APPROVED SPRINKLER</td> </tr> </table> <p>TOTAL SPARKS ON JOB: 30</p> <p>SHEET 1 OF 1</p> <p>JOB #10002</p>	System Type	No.	Date	Description	WET	1	12-7-10	WET APPROVED SPRINKLER	DRY	1	12-7-10	DRY APPROVED SPRINKLER	DELUGE	1	12-7-10	DELUGE APPROVED SPRINKLER	PREACTION	1	12-7-10	PREACTION APPROVED SPRINKLER	WELFE	1	12-7-10	WELFE APPROVED SPRINKLER	<p>SCALE: 1/4" = 1'-0"</p> <p>DRAWN BY: KJF</p> <p>CHECKED BY: SEG</p> <p>DATE: 12-7-10</p> <p>TOTAL SPARKS ON JOB: 30</p> <p>SHEET 1 OF 1</p> <p>JOB #10002</p>
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