DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that <u>TIM DAVIS PLUMBING & HEATING</u>
of <u>110 Rhode Island Ave. Lyman, ME 04002</u>

For installation at 27 Dakota St

Job ID: 2011-07-1682-SF

CBL: 407- H-018-001

has permission to install NFPA 13D sprinkler system

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

Code Enforcement Officer / Plan Reviewer

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

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

Strengthening a Remarkable City, Building a Community for Life . www.portlandmaine.gov

Director of Planning and Urban Development Penny St. Louis

Job ID: 2011-07-1682-SF install NFPA 13D sprinkler system For installation at: 27 DAKOTA ST

CBL: 407- H-018-001

Conditions of Approval:

Fire

The sprinkler system shall be installed in accordance with NFPA 13D. A compliance letter is required.

All control valves shall be supervised in accordance with NFPA 13D. Pad locks shall only be installed on valves designed to be secured in the open position by pad lock.



State of Maine Department of Public Safety Fire Sprinkler System Permit



9748

27 Dakota St

Located at: 29 Dakota
In the Town of: Portland
Occupancy/Use: House
Type of System: NFPA 13D

Permission is hereby given to:

Tim Davis Plumbing & Heating Inc.

PO Box 255 Lyman, ME 04002 Contractor License # 831

to begin installation according to plans submittal approved by the Office of State Fire Marshal.

The submittal is filed under log # 2111415, and no departure from the application submittal 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 from failure to comply with local ordinances, zoning laws, or other pertinent legal restrictions. This permit shall be displayed at the construction site or be made readily available.

This permit was issued on 11/21/2011 for a fee paid of \$75.00

This permit will expire at midnight on Saturday, May 19, 2012

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 work is fairly continuous.

John E. Morris Commissioner

The type of Fire Department Connection and its location is to be 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 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 renewed sprinkler licenses are good for two years and expire on a June 30th.

		Job completed, tested and verified by date of
RMS for this job:	Killeen Thomas J.	RMS Signature:

City of Portland, Maine - Building or Use Permit Application

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

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE

Job No: Date Applied: 2011-07-1682-SF 11/20/2011 11/20/2011			CBL: 407- H-018-001				
Location of Construction: 27 DAKOTA ST	,			Owner Address: 294 MAIN ST CUMBERLAND CTR, ME 04021			
Business Name: Contractor Name: Tim Davis Pimbg & Heating I			Contractor Address: Inc. 110 Rhode Island Ave., Lyman, ME 04002-6454			Phone: 324-5237	
Lessee/Buyer's Name:	Phone:		Permit Type: FAFS	Zone: R-3			
Past Use:	Cost of Work:			CEO District:			
lewly constructed single Same: Single Family of the suppression system		_	Fire Dept: Approved w/ conditions Denied N/A Signature: Bollwork (58)			Inspection: Use Group: Type: Signature:	
Proposed Project Description instal fire suppression system Permit Taken By: Lannie	1:		Pedestrian Ach	vities District (P.A.D.) Zoning Approva			
		Special Z	one or Reviews	Zoning Appeal	Historic P	reservation	
 This permit application of Applicant(s) from meeting Federal Rules. Building Permits do not septic or electrial work. Building permits are voice within six (6) months of False informatin may inverted permit and stop all work. 	include plumbing, d if work is not started the date of issuance. validate a building . record of the named property, is authorized agent and I agree	Shoreland Wetland Flood Zo Subdivis Site Plan Maj Date: CERTIF or that the project to conform to	Min _ MM ICATION Dosed work is authorizali applicable laws of	Variance Miscellaneous Conditional Use Interpretation Approved Denied Date: ed by the owner of record at this jurisdiction. In addition	Does not Requires Approved Denied Date: and that I have been n, if a permit for we	d w/Conditions Buthorized by ork described in	
nforce the provision of the code(s)	applicable to such permit.						

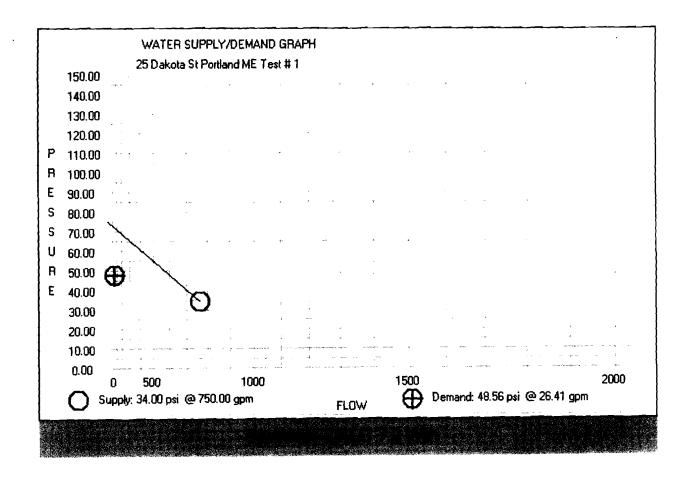
DATE

PHONE



Water-Based Fire Suppression System Permit

If you or the property owner owes real estate or proper within the city, payment arrangements inust be made	
2011-13813 child \$A-	
Installation address: 27 Dakota 57.	_ CBL: 407-H-18
Exact location: (within structure) <u>Basemont</u> 151	
Type of occupancy(s) (NFPA & ICC): Resimulial	/
Building owner: Divarsifien Properties	
Managing Supervisor (RMS): Thomas Killera	4
Supervisor phone: 207 - 35/ - 3/59	E-mail:
Installing contractor: Tin Davis Plumby & Heates to	
Contractor phone: 207-324-5237	
-	vation: Addition to existing system:
This is an amendment to an existing permit: Yes: NO	Permit no: <u>9748</u>
NFPA Standard this system is designed to: <u>NFPA 13-D</u>	Edition:
*Non-NFPA systems are not approved for use within the City of Portland.	COST OF WORK:
Download a new copy of this document from	PERMIT FEE:
www.portlandmaine.gov/fire for every submittal. Attach all working	(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)
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.	
Submit all information to the Building Inspections Department, 389 Con	gress Street, Room 315, Portland, Maine 04101.
Prior to acceptance of any fire protection system, a complete commiss	
all fire system contractors and the Fire Department, and proper docum	nentation of such test(s) provided.
All installation(s) must comply with NFPA and the Fire Department 1	Fechnical Standard(s).
	· ······
Applicant signature:	_ Date:



[] BACKFLOW PREVENTER
[] DETECTOR CHECK VALVE

PAGE 1

HYDRAULIC CALCULATIONS AT SPECIFIED FLOW

THE FOLLOWING SPRINKLERS ARE OPERATING IN: [] TEST AREA 1 [] TEST AREA 2 [] TEST AREA 3 [] REMOTE AREA Elevation of sprinklers = Elevation above water test.							
REF. PT.	K	ELEV.	FLOW	P	RESSURE (p.	si)	
		ft	gpm	Total	Velocity	Normal	
101	4.90	28.00	13.41	7.49	0.00	7.49	
102	4.90	28.00	13.00	7.04	0.00	7.04	
THE SPRINKLER SYSTEM FLOW IS 26.41 gpm THE OUTSIDE HOSE FLOW AT REFERENCE POINT NO. 1 IS () THE INSIDE HOSE [) RACK SPKLR'S. () YARD HYDT. FLOW IS THE FOLLOWING PRESSURES & FLOWS OCCUR > AT REF. PT. 1 <							
STATIC PRESSI RESIDUAL PRE- TOTAL SYSTEM AVAILABLE PROPERATING PRESSURE REM	SSURE FLOW ESSURE ESSURE	75.00 34.00 26.41 74.92 48.56 26.35) psi L gpm Psi S psi	AT 2	0.00 gpm 6.41 gpm 6.41 gpm		

THE ABOVE RESULTS INCLUDE 9.00 psi FRICTION LOSS AT REF. PT. # 2 FOR A

[] METER [] OTHER DEVICE

PAGE 2

7.04

7.24

0.21

FITTING Equivalent Length per NFPA 13 1994, 6-4.3 '-' Indicates Equivalent Length. 'T' Indicates Threaded Fitting 1=45 Elbow, 2=90 Elbow, 3='T'/Cross, 4=Butterfly Valve, 5=Gate Valve, 6=Swing Check Valve ***** ==***** -------------EQV. H-W PIPE DIA. FRIC. ELEV. PRESSURE (psi) PIPE FITS FROM TO FLOW C TYPE (in) (psi) (psi) Pt Ρt DIFF (ft) (gpm) (ft) Ρv Pv Pn Pn 46.56 2.00 1.528 0.023 0.000 48.56 23 12.02 16 26.41 75.00 150 13.83 29.26 3.467 46.56 12.00222356 21.62 150 1.049 0.144 27.73 1.54 4.00 33 10.01 1.109 0.110 0.000 29.26 26.41 1.109 0.110 0.000 27.73 23.78 3.95 19.00 332 17.03 150 26.41 0.110 0.000 23.78 2.14 1.109 26.41 6.00 356 13.43 150 9.69 3.29 0.110 26.41 20.00 10.01 150 1.109 8.667 21.64 8.70 0.99 5.01 150 1.109 0.110 0.000 9.69 4.00 26.41 1.109 0.110 0.000 8.70 7.71 0.99 5.01 150 26.41 4.00 7.71 7.49 0.22 0.031 0.000 1.109 9 101 13.41 2.00 5.01 150 7.71 7.24 13.00 5.01 150 1.109 0.029 0.000 10 11.00

0.029 0.000

1.109

A MAX. VELOCITY OF 9.8 ft./sec. OCCURS BETWEEN REF. PT. 2 AND 3

5.01 150

2.00

13.00

10 102

Sprinkler-CALC Release 7.2 Win By Walsh Engineering Inc. North Kingstown R.I. U.S.A.

HYDRAULIC CALCULATIONS

COVER SHEET

25 Dakota St Portland ME Test # 1

WATER SUPPLY

STATIC PRESSURE (psi) 75
RESIDUAL PRESSURE (psi) 34
RESIDUAL FLOW (gpm) 750

BOOSTER PUMPS

NUMBER OF BOOSTER PUMPS 0

SPRINKLERS

MINIMUM FLOW PER SPRINKLER (Gpm) 13
MINIMUM PRESSURE PER SPRINKLER (psi) 7.04

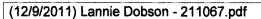
THIS SYSTEM OPERATES AT A FLOW OF 26.41 gpm AT A PRESSURE OF 46.56 psi AT THE BASE OF THE RISER (REF. PT. 2)

PIPES USED FOR THIS SYSTEM

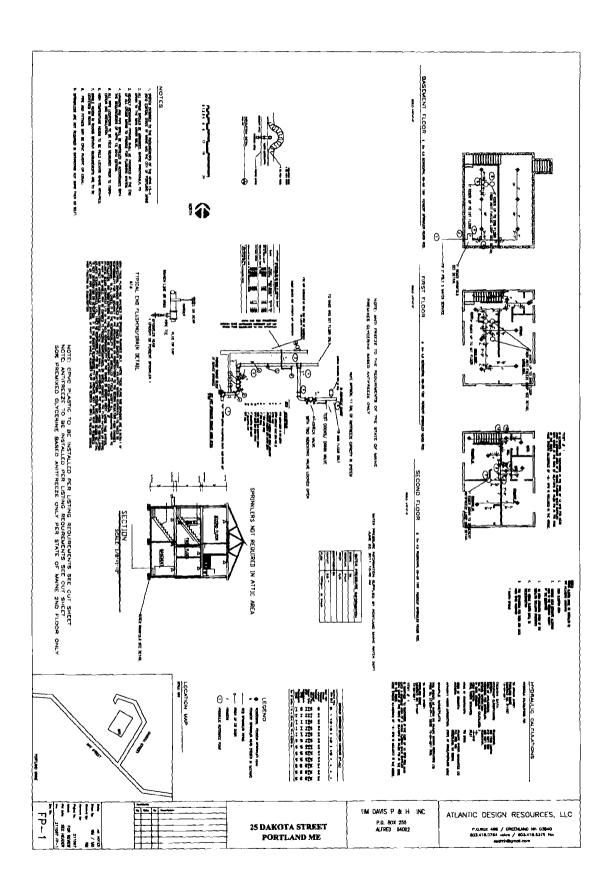
016 POLYBUTYLENE

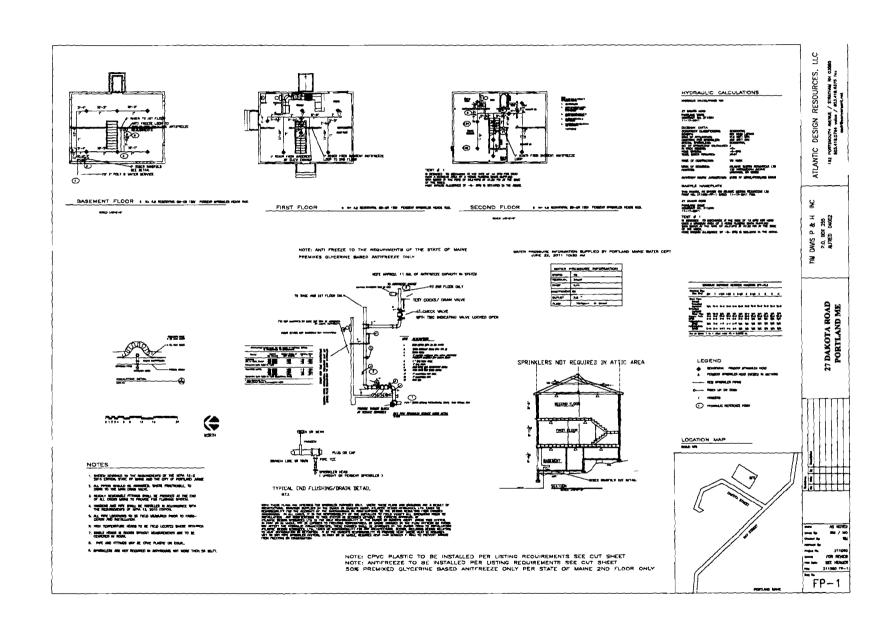
001 SCHEDULE 40

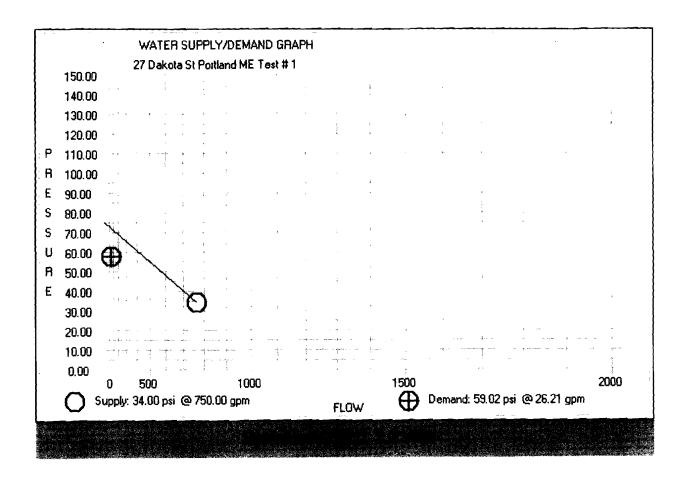
009 BLAZEMASTER CPVC



Page 4







[] BACKFLOW PREVENTER
[] DETECTOR CHECK VALVE

PAGE 1

HYDRAULIC CALCULATIONS AT SPECIFIED FLOW

THE FOLLOWING SPRINKLERS ARE OPERATING IN: [] TEST AREA 1 [] TEST AREA 2 [] TEST AREA 3 [] REMOTE AREA							
	Elevation o	of aprink	clers = E	levation	above wate	er test.	
REF. PT.	ĸ		FLOW gpm	Total	RESSURE (p. Velocity	si) Normal	
101	4.90 2	28.00	13.00	7.55	0.51	7.04	
	4.90 2						
THE SPRINKLER SYSTEM FLOW IS 26.21 gpm THE OUTSIDE HOSE FLOW AT REFERENCE POINT NO. 1 IS [] THE INSIDE HOSE [] RACK SPKLR'S. [] YARD HYDT. FLOW IS THE FOLLOWING PRESSURES & FLOWS OCCUR > AT REF. PT. 1 <							
STATIC PRESSU	RE	75.00	psi				
RESIDUAL PRES				AT 750	0.00 gpm		
TOTAL SYSTEM AVAILABLE PRE				אידי איז	5 2 1 arrom		
OPERATING PRE	SSUKE CCIIDE	59.02	psi	AT 26	6.21 gpm		
PRESSURE REMA					JE		
THE ABOVE RES	ULTS INCLUI	DE 9.00	psi FRI	CTION LOS	S AT REF.	PT. # 2	FOR A

[] METER [] OTHER DEVICE

26.21

13.21

3.00

9.00

9 101

101 102

PAGE 2

FITTING Equivalent Length per NFPA 13 1994, 6-4.3
'-' Indicates Equivalent Length. 'T' Indicates Threaded Fitting 1=45 Elbow, 2=90 Elbow, 3='T'/Cross, 4=Butterfly Valve, 5=Gate Valve, 6=Swing Check Valve EQV. H-W PIPE PRESSURE (psi) FLOW PIPE FITS DIA. FRIC. ELEV. FROM TO С Pt. Pt DIFF TYPE (in) (psi) (gpm) (ft) (ft) (psi) PΨ Pυ Рn Pn 2 26.21 75.00 23 9.01 150 16 1.051 0.140 0.000 59.02 47.22 11.80 26.21 12.00222356 21.62 1.049 0.142 3.467 47.22 29.99 13.76 26.21 18.00 33 10.01 150 1.109 0.108 0.000 29.99 26.96 3.03 9 1.109 0.108 0.000 26.96 24.80 2.16 5 26.21 8.00 23 12.02 150 26.21 2.00 13.43 150 1.109 0.108 0.000 24.80 23.14 1.66 10.01 1.109 0.108 8.667 23.14 11.23 3.24 26.21 20.00 33 150 5.01 150 9 1.109 0.108 0.000 11.23 10.14 1.08 26.21 5.00 0.000 1.73 26.21 11.00 5.01 150 1.109 0.108 10.14 8.41

1.109

1.109

9

0.108

0.000

0.030 0.000

7.55

7.27

7.55

0.87

0.28

A MAX. VELOCITY OF 9.73 ft./sec. OCCURS BETWEEN REF. PT. 2 AND 3

5.01 150

0.00 150

Ω

Sprinkler-CALC Release 7.2 Win By Walsh Engineering Inc. North Kingstown R.I. U.S.A.

HYDRAULIC CALCULATIONS

COVER SHEET

27 Dakota St Portland ME Test # 1

WATER SUPPLY

STATIC PRESSURE (psi) 75
RESIDUAL PRESSURE (psi) 34
RESIDUAL FLOW (gpm) 750

BOOSTER PUMPS

NUMBER OF BOOSTER PUMPS 0

SPRINKLERS

MINIMUM FLOW PER SPRINKLER (gpm) 13
MINIMUM PRESSURE PER SPRINKLER (psi) 7.27

THIS SYSTEM OPERATES AT A FLOW OF 26.21 gpm AT A PRESSURE OF 47.22 psi AT THE BASE OF THE RISER (REF. PT. 2)

PIPES USED FOR THIS SYSTEM

016 POLYBUTYLENE

001 SCHEDULE 40

009 BLAZEMASTER CPVC

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