DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



This is to certify that

FD & SONS PROPERTIES LLC /Freedom Fire Protection,

Inc

PERMIT ID: 2013-00395

Located at

87 SKYLARK RD

CBL: 347 D001001

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 clsoed-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

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

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CITY OF PORTLAND BUILDING PERMIT



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City of Portland, Maine	- Building or Use	Permit Applica	tion	Permit No:	Issue Date:	CBL:			
389 Congress Street, 04101	Tel: (207) 874-8703	3, Fax: (207) 874-	8716	2013-00395		347 D	001001		
Location of Construction:	Owner Name:		Owne	r Address:	Phone:				
87 SKYLARK RD	FD & SONS F LLC	PROPERTIES	87 S 0410	KYLARK RD F 3	O, ME				
Business Name:	Contractor Name	2:	Contr	actor Address:		Phone			
	Freedom Fire	Protection, Inc	209 0401	Quaker Ridge Ro 5	E (207) 62	27-4109			
Lessee/Buyer's Name	Phone:		Permi	t Type:	Zone:	Zone:			
				Suppression Wa		R3			
Past Use:	Proposed Use:				Cost of Work:				
Single Family	Single Family			- \$100.00 DEPT:	7.	,000.00 NSPECTION:	8		
			FINE	DEII.	Approved	Use Group:	Type:		
					Denied	•	, , , , , , , , , , , , , , , , , , ,		
			3/	u/13 🗆	N/A				
Proposed Project Description: SF Fire Sprinkler permit;				ure: BLA JOH	ES DISTRIC	Signature:			
				etion: Approve	oved w/Conditions] Denied			
,			Si	gnature:		Date:			
Permit Taken By:	Date Applied For:			Zoning .		111/			
bjs	02/27/2013								
1. This permit application do		Special Zone or I	Reviews	eviews Zoning Appe		Historic Pro			
Applicant(s) from meeting Federal Rules.	g applicable State and	Shoreland		☐ Variance		✓ Not in Distr	✓ Not in District or Landman		
2. Building permits do not in septic or electrical work.		Wetland		Miscellan	eous	Does Not R	equire Review		
3. Building permits are void within six (6) months of the	ne date of issuance.	Flood Zone		Condition	nal Use	Requires Re	eview		
False information may inv permit and stop all work	validate a building	Subdivision		Interpreta	tion	Approved			
		Site Plan		Approved	I	Approved v	v/Conditions		
		Maj Minor	ММ	Denied		☐ Denied	☐ Denied		
	ta	Date:		Date: ASA					
I hereby certify that I am the ov that I have been authorized by t this jurisdiction. In addition, if	the owner to make this	application as his auribed in the applica	at the puthorized	ed agent and I agr ssued, I certify th	ee to confor nat the code	m to all applicable official's authorized	laws of d		
representative shall have the au code(s) applicable to such perm		s covered by such p	ermit a	t any reasonable i	nour to ento	rce the provision of	of the		

DATE

PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE

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 - Bu	· ·	2013-00395	02/27/2013	CBL:			
389 Congress Street, 04101 Tel:	(207) 874-8703, Fax: (207) 874-	2015-00595	02/27/2013	347	7 D001001		
Location of Construction:	Owner Name:	0	wner Address:		Phone	:	
87 SKYLARK RD	FD & SONS PROPERTIES LLC	C 8	37 SKYLARK RD				
Business Name:	Contractor Name:	C	ontractor Address:		Phone		
	Freedom Fire Protection, Inc	2	209 Quaker Ridge	Road Casco	(207) 627-4109	
Lessee/Buyer's Name	Phone:	Pe	ermit Type:				
			Fire Sprinkler Sys	tems			
Proposed Use:	P	Proposed	Project Description:				
Single Family	i	install N	NFPA 13D sprinkl	er system.			
Dept: Zoning Status:	Approved Revi	iewer:	Ann Machado	Approval D	ate:	02/28/2013	
Note:					Ok to	Issue: 🗹	
			D 177 11 7			00/04/0040	
Dept: Fire Status:	Approved w/Conditions Revi	iewer:	Ben Wallace Jr	Approval D	ate:	03/21/2013	

1) A warning sign, with minimum ¼ in. letters, shall be affixed adjacent to the main shutoff valve and shall state the following:

Warning: The water system for this house supplies fire sprinklers that require certain flows and pressures to fight a fire.

Devices that restrict the flow or decrease the pressure or automatically shut off the water to the fire sprinkler system, such as water softeners, filtrations systems, and automatic shut off valves, shall not be added to this system without a review of the fire sprinkler system by a fire protection specialist. Do not remove this sign.

Ok to Issue:

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

Note:

- 3) A copy of the required state sprinkler permit with RMS signoff shall be provided prior to the final inspection.
- 4) 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.

101470

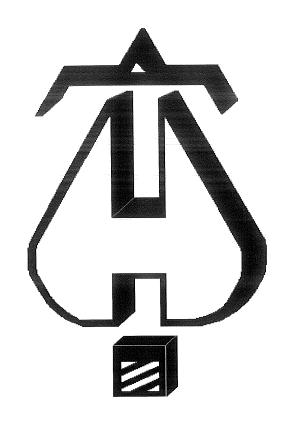
One- or Two-family Fire Sprinkler Permit

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: 87 Skylark Road, Port	land Maine
Building owner: F. DiDonato & Sons	Phone: 207-222-2015
Installer: Freedom Fire Protection, Inc.	Phone: 207-627-4109
Total sq/ft of building floor space per unit: 2	Single-family home or
Sq/ft of sprinklered floor space per unit:	Two-family home
Is this a multipurpose piping system? Y / N	Sprinkler piping uses Pex? Y / N
Water supply: X Municipal Water Well pump	Stored water Other
Include electronic copy of approved State Sprin	kler Permit plans: N
Additional cost to the owner for the home fire	_
unit minus costs necessary for domestic needs (See below): A= \$7,248.00
Attach cost breakdown: N A City plum	bing permit has been pulled:
RECEIVED	COST OF WORK: \$7,248.00 (A times number of units)
RECEIVED FEB 27 2013 Dept. of Building Inspections City of Portland Maine	NO FEE REQUIRED

Additional information and Frequently asked questions about home fire sprinkler systems may be found at www.portlandmaine.gov/fireprevention.

Sprinkler system cost must deduct costs that would have been incurred if the system did not provide sprinkler service. In a well pump system it would include the difference between the well pump to be installed and the one that would have been installed if there were no sprinkler demand on the system. Includes additional piping and valves that are required only because of NFPA Standard 13D, and not already required for domestic needs. Includes cost of sprinkler heads and additional installation costs.



. . . Fire Protection by Computer Design

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

Job Name : SKYLARK RANCH Building : 87 SKYLARK ROAD Location : PORTLAND, MAINE 04103

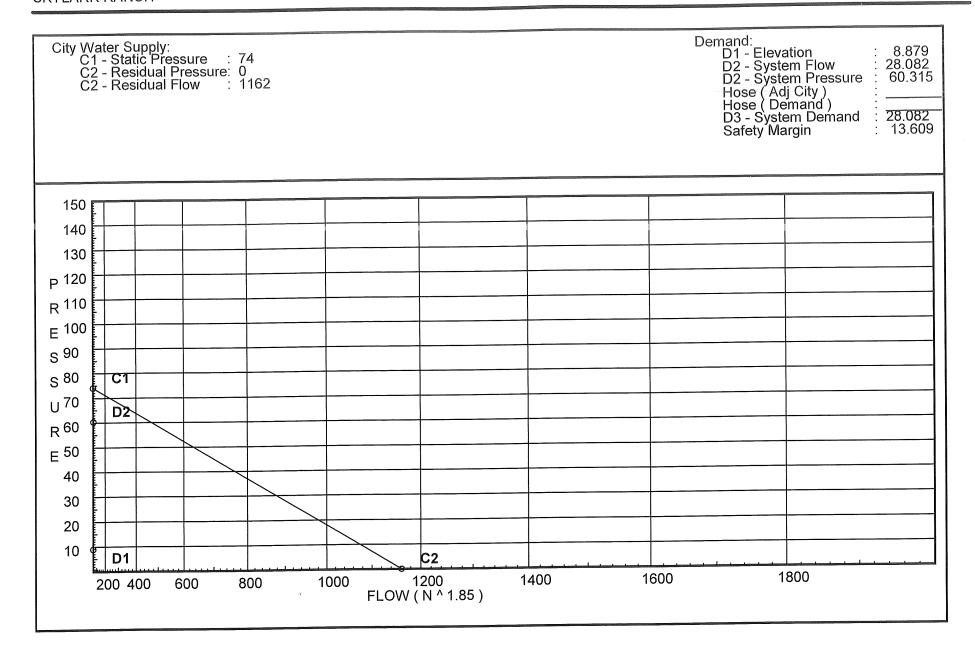
: #1 AREA #1 System

Contract

: SKYLARK RANCH HC.WXF Data File

HYDRAULIC DESIGN INFORMATION SHEET

```
Date - 2/26/13
Name - SKYLARK RANCH
Location - PORTLAND, MAINE 04103
                                                     System No. - #1 AREA #1
Building - 87 SKYLARK ROAD
Contractor - FREEDOM FIRE PROTECTION
                                                     Contract No. -
                                                     Drawing No. - FP-2
Ceiling Height 8'-0"
Calculated By - MICHAEL NOBLIT
Construction: (X) Combustible
                                 ( ) Non-Combustible
OCCUPANCY - HOUSE
    Type of Calculation: (X)NFPA 13 Residential
                                                                  (X) NFPA 13D
                                                    ( )NFPA 13R
S
    Number of Sprinklers Flowing: ( )1
                                                   ()4 ()
Υ
    ()Other
S
                                                                 Date
                                           Made by
    ( )Specific Ruling
Т
\mathbf{F}
                                                              System Type
    Listed Flow at Start Point - 14
Μ
                                                    (X) Wet
     Listed Pres. at Start Point - 10.1 Psi
                                                                  () Dry
     MAXIMUM LISTED SPACING 14' x 14'
                                                    ( ) Deluge
                                                                  ( ) PreAction
D
                                                    Sprinkler or Nozzle
     Domestic Flow Added
Ε
                                                                Model LFII
                                               Make TYCO
     Additional Flow Added
                                 - 0
                                         Gpm
S
     Elevation at Highest Outlet - 20'-6"Feet Size 1/2"
                                                                 K-Factor 4.4
Ι
                                               Temperature Rating 155
     Note:
G
Ν
                                                            At Test
                                     Psi Required 60.315
              Gpm Required 28.082
Calculation
                                                              Underground 140
                                      Overhead 150
              C-Factor Used:
Summary
                                   Pump Data:
                                                           Tank or Reservoir:
    Water Flow Test:
W
    Date of Test - 10/3/12
                                                         Cap.
                                  Rated Cap.
Α
                                                         Elev.
                                  @ Psi
    Time of Test
\mathbf{T}
                   - 74
                                  Elev.
    Static (Psi)
Ε
                                                               Well
    Residual (Psi) - 0
                                  Other
R
                                                         Proof Flow Gpm
                    - 1162
    Flow (Gpm)
    Elevation
S
    Location:
Р
Р
    Source of Information: PORTLAND WATER DISTRICT
\mathbf{L}
Υ
```



Fittings Used Summary

	DOM FIRE PROTECT ARK RANCH	ION INC																	ige 3 ate 2	3 2/26/13	3
	Legend . Name	1/2	3/4	11	11/4	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
E T Zaa	90' Standard Elbow 90' Flow Thru Tee Ames 2000B	2 3 Fittir	2 4 ng gene	2 5 erates a	3 6 I Fixed I	4 8 _oss Ba	5 10 ased on	6 12 Flow	7 15	8 17	10 20	12 25	14 30	18 35	22 50	27 60	35 71	40 81	45 91	50 101	61 121

Pressure / Flow Summary - STANDARD

FREEDOM FIRE PROTECTION INC. SKYLARK RANCH

Page 4 Date 2/26/13

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
101 102 6 5 4 3 2 1 TEST	20.5 20.5 20.5 11.5 11.5 5.0 5.0	4.4 4.4	10.27 10.1 10.42 17.73 21.71 24.47 28.76 33.9 60.32	na na na na na na na	14.1 13.98	0.05 0.05	0.001 0.001	10.1 10.1

The maximum velocity is 13.52 and it occurs in the pipe between nodes 1 and TEST

FREEDOM FIRE PROTECTION INC. SKYLARK RANCH

Page 5 Date 2/26/13

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fittir o Eqv	-	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	****** Notes *****
101 to	14.10	1.101 150	1E	3.825 0.0 0.0	0.500 3.825 4.325	10.267 0.0 0.154		K Factor = 4.40 Vel = 4.75
6	<u>14.1</u> 0.0	0.0356		0.0	4.323	0.134		VCI 4.70
	14.10					10.421		K Factor = 4.37
102 to	13.98	1.101 150	2E	7.65 0.0	1.500 7.650	10.100		K Factor = 4.40
6	13.98	0.0351		0.0	9.150	0.321		Vel = 4.71
6 to	14.10	1.049 120	1T	5.0 0.0	9.000 5.000	10.421 3.898		Vel = 10.42
5	28.08	0.2438		0.0	14.000	3.413 17.732		Ver = 10.42
5 to	0.0	1.049 120	1E	2.0	14.330 2.000	0.0		Vel = 10.42
4	28.08	0.2438 1.38	1E	3.0	16.330 39.916	3.982 21.714		Ver - 10.42
4 to 3	28.08	1.36 120 0.0641	11	0.0 0.0	3.000 42.916	0.0 2.752		Vel = 6.02
3 to	0.0	1.38 120	1E	3.0 0.0	20.083 3.000	24.466 2.815		
2	28.08	0.0641		0.0	23.083	1.480		Vel = 6.02
2 to	0.0	1.38 120	1E 1Zaa	3.0 0.0	6.500 3.000 9.500	28.761 4.533 0.610		* Fixed loss = 4.533 Vel = 6.02
1	28.08	0.0642		0.0	60.000	33.904		VCI - 0.02
1 to TEST	0.0 28.08	0.921 150 0.3041		0.0 0.0 0.0	0.0 60.000	8.166 18.245		* Fixed loss = 6 Vel = 13.52
· · · · ·	0.0 28.08		,			60.315		K Factor = 3.62