DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT



This is to certify that

EASTERN FIRE SERVICES
PO Box 1390

AUBURN, ME 04211

Job ID: 2012-04-3809-SF

For installation at 86 BALLPARK DR SINGLE-FAMILY HOME

CBL: 371- A-039-001

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 Jeff Levine

Job ID: 2012-04-3809-SF install NFPA 13D sprinkler system

For installation at: 86 BALLPARK DR SINGLE-FAMILY HOME CBL: 371- A-039-001

Conditions of Approval:

Fire

- 1. The sprinkler system shall be installed in accordance with NFPA 13D. A compliance letter is required.
- 2. 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.
- 3. Application requires State Fire Marshal approval.

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

Job No: 2012-04-3809-SF 2012-46138-FAFS	Date Applied: 7/19/2012								
Location of Construction: 86 BALLPARK DR	Owner Name: MICHAEL & SARA DE	LAHANTY	Owner Address: 544 WALNUT HILL RD NORTH YARMOUTH, ME 04097						
Business Name:	Contractor Name: Eastern Fire Protect	tion	Contractor Addr PO BOX 1390 AU	ess: JBURN MAINE 04210		Phone: (207) 784-1507			
Lessee/Buyer's Name:	Phone:		Permit Type: FAFS			Zone: R-2			
Past Use:	Proposed Use: Same: single family	dwelling	Cost of Work: \$8,000.00			CEO District:			
dwelling under construction	to install fire suppre	_	Fire Dept: 8/2/12 Signature:	Approved of concept of the Denied N/A	Inspection: Use Group: Type: Signature:				
Proposed Project Description New 3 bed/2.5 bath, 2 story Colo			Pedestrian Activ	ities District (P.A.D.))				
Permit Taken By: Brad				Zoning Approva	al				
1. This permit application Applicant(s) from meet Federal Rules. 2. Building Permits do not septic or electrial work. 3. Building permits are vo within six (6) months of False informatin may in permit and stop all work.	ting applicable State and t include plumbing, oid if work is not started if the date of issuance. invalidate a building k.	Shoreland Wetlands Flood Zo Subdivis Site Pland Maj Date: CERTIF	one ion Min MM TATION osed work is authorized all applicable laws of the	his jurisdiction. In addition	Does not I Requires I Approved Approved Denied Date:	st or Landmark Require Review Review w/Conditions authorized by rk described in			
owner to make this application as application is issued, I certify that tenforce the provision of the code(s)	the code official's authorized re	presentative sha	all have the authority to	enter all areas covered by	Such permit at any i	casonable four			



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.

2012-04-3809 2012-46138 Installation address: _ 86 Exact location: (within structure) _ Gn Time Type of occupancy(s) (NFPA & ICC): NFPA 130 RUSE OGN BAL,

Building owner: OCCU HANTY MUHAL 1,5002 DELAHANTY - 544 WALNUT HILLY

NOTE OF STANDARD TO MUHAL 1,5002 DELAHANTY - 544 WALNUT HILLY

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NOTE OF STANDARD TO MUHAL 1 Managing Supervisor (RMS): WELLE AM PLYNT License No: E-mail: PCYNTWA.C. TOAM GASTON. COM Supervisor phone: 289-150Installing contractor: 6765 GNO, License No: 101 E-mail: PLYNTWACTORMURATONW. COM. Renovation: Addition to existing system: The suppression work to be done will be: NO Permit no: This is an amendment to an existing permit: Yes: Edition: 20/0 *Non-NFPA systems are not approved for use within the City of Portland. COST OF WORK: \$ 8000, 990 Download a new copy of this document from (\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000) 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. Submit all information to the Building Inspections Department, 389 Congress Street, Book 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: Mull

Receipts Details:

Tender Information: Check, Check Number: 107119

Tender Amount: 100.00

Receipt Header:

Cashier Id: bsaucier Receipt Date: 7/19/2012 Receipt Number: 46139

Receipt Details:

Referance ID:	7315	Fee Type:	BP-FIRE
Receipt Number:	0	Payment Date:	
Transaction Amount:	100.00	Charge Amount:	100.00

Job ID: Job ID: 2012-04-3809-SF - New 3 bed/2.5 bath, 2 story Colonial w/garage

Additional Comments: 86 Ballpark

Thank You for your Payment!

EASTERN FIRE PROTECTION



P.O. Box 1390 Kittyhawk Ave. Auburn, ME 04210

PH # (207) 784-1507 FAX # (207) 782-0566

		FAX #	£ (207) 782-0566	
-0 R	187/ ACT/	Fals	YECT EUNS	-
389	CONG	1055	57.	
BONTO	saus, v	105	09/01	
ज	E SENDING Shop drawings Copy of letter	_	Attached Under separate cover viathe Descriptive data Hydraulic calculations	ne following items:
YTITMAUÇ	DRAWING NO.	DATE	DESCRIPTION	STATUS
/	10P1	7/11/12	SCRENKLY SHOP OWG	4/5
1		, ,	HYDRAUSC CALCULATEUN	1
1			POIMET APPLICATION	6
			PENMEN CHOCK.	6
	Status code Please retur		A. Approved B. Approved as noted C. Submitted for approval C. Submitte	ed
REMAR	KS	,		
				ESCRIPTION SHOP OWG CALCULATEUN APUCCATION WORK COrrected & resubmitted For your files F. Refer to remarks
YODV T	/)			

LETTER OF TRANSMITTAL

DOCCHANTY

ATTENTION

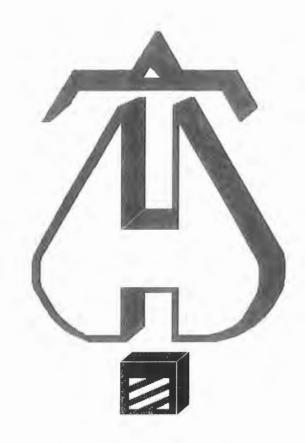
RE:

JOB NO. 4853

HO050

If enclosures are not as noted, kindly notify us at once

SIGNED Aud I



. . . Fire Protection by Computer Design

EASTERN FIRE PROTECTION 170 KITTYHAWK AVE. P.O. BOX 1390 AUBURN, MAINE 04211-1390 800-274-1507

Job Name : DELEHANTY HOUSE

Drawing : SINGLE FAMILY DWELLING

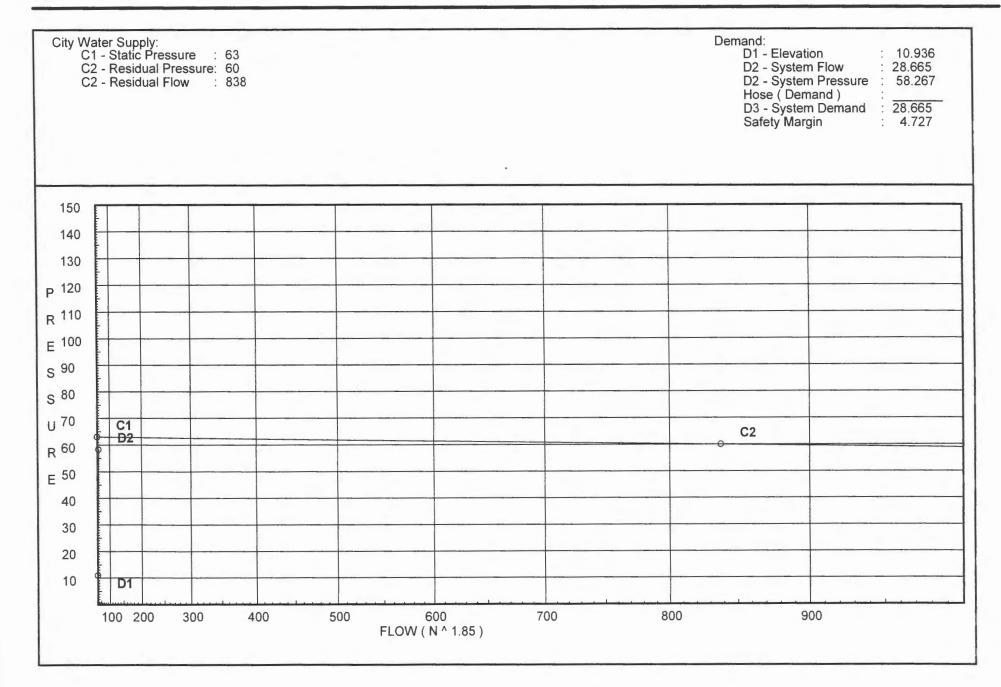
Location : 86 BALLPARK DRIVE, PORTLAND, MAINE

Remote Area : WET Contract : 4893

Data File : 4893 DELEHANTY SECOND FLOOR.WXF

HYDRAULIC DESIGN INFORMATION SHEET

```
Name - DELEHANTY HOUSE
                                                              Date - 07/11/12
Location - 86 BALLPARK DRIVE, PORTLAND, MAINE
Building - SINGLE FAMILY DWELLING
                                                    System No. - WET
Contractor - EASTERN FIRE PROTECTION
                                                    Contract No. - 4893
Calculated By - WAF
                                                    Drawing No. - 1 OF 1
Construction: (X) Combustible () Non-Combustible
                                                         Ceiling Height 8'
OCCUPANCY - RESIDENTIAL
    Type of Calculation: ( )NFPA 13 Residential ( )NFPA 13R
                                                               (X)NFPA 13D
    Number of Sprinklers Flowing: ()1 (X)2 ()4 ()
Y
    ()Other
S
    ( ) Specific Ruling
                                          Made by
                                                               Date
Т
Ε
     Listed Flow at Start Point - 14
                                        Gpm
                                                            System Type
M
                                                  (X) Wet ( ) Dry ( ) Deluge ( ) PreAction
     Listed Pres. at Start Point - 10.1 Psi
     MAXIMUM LISTED SPACING 14 x 14
D
                                - 0
                                                  Sprinkler or Nozzle
     Domestic Flow Added
                                        Gpm
     Additional Flow Added - 0 Gpm
                                            Make TYCO Model LF II
t Size 1/2" K-Factor 4
     Elevation at Highest Outlet - 134.75Feet Size 1/2"
                                                               K-Factor 4.4
Т
     Note:
                                              Temperature Rating 155
G
Ν
                                  Psi Required 58.3
                                                          At Test
Calculation Gpm Required 28.6
                                    Overhead 150
             C-Factor Used:
                                                            Underground 150
Summary
    Water Flow Test:
                                  Pump Data:
                                                        Tank or Reservoir:
W
   Date of Test - 01/24/2012
Time of Test - NA
                                  Rated Cap.
                                                        Cap.
Α
                                 @ Psi
                                                       Elev.
Τ
                 - 63
    Static (Psi)
                                 Elev.
Ε
    Residual (Psi) - 60
R
                                 Other
                                                             Well
                  - 838
                                                       Proof Flow Gpm
    Flow (Gpm)
                   - 109.5
    Elevation
    Location: HYDRANT LOCATED ON THE CORNER OF RIVERSIDE AND WASHINGTON
P
Ρ
   Source of Information: PORLAND WATER DISTRICT
L
Υ
```



Fittings Used Summary

EASTERN FIRE PROTECTION DELEHANTY HOUSE

Page 3 Date

					_																
Fitting Lo	eg e nd N ame	1/2	3/4	1_	11/4	11/2	2	21/2	3	3½	4	5	6	8	10	12	14	16	18	20	24
_			•	•			-	•	~		40	40	4.4	40	22	07	25	40	A.E.	50	64
E	NFPA 13 90' Standard Elbow	1	2	2	3	4	5	6	1	8	10	12	14	18	22	21	35	40	45	50	61
Fsp	Flow Switch Potter VSR	Fittin	ig gener	ates a F	ixed Los	s Base	d on Flo	W													
G	NFPA 13 Gate Valve	0	0	0	0	0	1	1	1	1	2	2	3	4	5	6	7	8	10	11	13
L	NFPA 13 Long Turn Elbow	0.5	1	2	2	2	3	4	5	5	6	8	9	13	16	18	24	27	30	34	40
N *	CPVC 90'Ell Harvel-Spears		7	7	8	9	11	12	13	0	0	0	0	0	0	0	0	0	0	0	0
0 *	CPVC Tee - Branch	3	3	5	6	8	10	12	15	0	0	0	0	0	0	0	0	0	0	0	0
T	NFPA 13 90' Flow thru Tee	3	4	5	6	8	10	12	15	17	20	25	30	35	50	60	71	81	91	101	121
Zaa	Ames 2000B	Fittir	ng gene	ates a F	ixed Los	ss Base	d on Flo	W													

Units Summary

Diameter Units Inches Length Units Feet

Flow Units US Gallons per Minute Pressure Units Pounds per Square Inch

Note: Fitting Legend provides equivalent pipe lengths for fittings types of various diameters. Equivalent lengths shown are standard for actual diameters of Sched 40 pipe and CFactors of 120 except as noted with *. The fittings marked with a * show equivalent lengths values supplied by manufacturers based on specific pipe diameters and CFactors and they require no adjustment. All values for fittings not marked with a * will be adjusted in the calculation for CFactors of other than 120 and diameters other than Sched 40 per NFPA.

EASTERN FIRE PROTECTION DELEHANTY HOUSE

Page 4 Date

SI	IP	PI	V	Δ	NΔ	V/	YSIS	
J	Jr	r_L	-	\sim		4	1010	

Node at Source	Static Pressure	Residual Pressure	Flow	Available Pressure	Total Demand	Required Pressure
TEST	63.0	60	838.0	62.994	28.67	58.267

NODE ANALYSIS

Node Tag	Elevation	Node Type	Pressure at Node	Discharge at Node	Notes
1	134.75	4.4	10.1	13.98	
2	127.0		14.22		
1A	134.75	4.4	11.13	14.68	
3	127.0		15.07		
4	117.5		19.88		
5	117.5		20.58		
TOR	117.5		21.28		
BFP	114.0		25.96		
DOM	111.0		31.99		
BASE	111.0		33.02		
T1	111.0		57.61		
TEST	109.5		58.27		

EASTERN FIRE PROTECTION DELEHANTY HOUSE

Page 5 Date

Node1	Elev1	K	Qa	Nom	Fitting	_	Pipe	CFact	Pt			
to Node2	Elev2	Fact	Qt	Act	or Eqv.	Ln.	Ftng's Total	Pf/Ft	Pe Pf	*****	Notes	*****
1	134.750	4.40	13.98	1	1N	7.0	9.790	150	10.100			
to					10	5.0	12.000		3.357			
2	127		13.98	1.101		0.0	21.790	0.0351	0.764	Vel = 4.7	1	
2	127		0.0	1.25	30	18.0	50.000	150	14.221			
to					1N	8.0	26.000		0.0			
3	127		13.98	1.394		0.0	76.000	0.0111	0.845	Vel = 2.9	4	
			0.0									
3			13.98						15.066	K Factor =	3.60	
1A	134.750	4.40	14.68	1	1N	7.0	8.000	150	11.134			
to						0.0	7.000		3.357			
3	127		14.68	1.101		0.0	15.000	0.0383	0.575	Vel = 4.9	5	
3	127		13.99	1.25	1N	8.0	8.750	150	15.066			
to						0.0	8.000		4.114			
4	117.500		28.67	1.394		0.0	16.750	0.0420	0.704	Vel = 6.0	3	
4	117.500		0.0	1.25	1E	3.0	1.500	120	19.884			
to					1T	6.0	9.000		0.0			
5	117.500		28.67	1.38		0.0	10.500	0.0666	0.699	Vel = 6.1	5	
5	117.500		0.0	1.5	1E	4.0	18.290	120	20.583			
to						0.0	4.000		0.0		_	
TOR	117.500		28.67	1.61		0.0	22.290	0.0314	0.701	Vel = 4.5	2	
TOR	117.500		0.0	1.5	1Fsp	0.0	5.000	120	21.284			
to			00.07	4.04		0.0	0.0	0.0044	4.516	* Fixed los		
BFP	114		28.67	1.61		0.0	5.000	0.0314	0.157	Vel = 4.5	2	
BFP	114		0.0	1.5	1E	4.0	2.000	120	25.957			
to	444		00.07	4.04	1Zaa	0.0	4.000	0.0045	5.847	* Fixed los		
DOM	111		28.67	1.61		0.0	6.000	0.0315	0.189	Vel = 4.5	2	
DOM	111		0.0	1.5		0.0	1.000	150	31.993			
to	444		00.07	4 505		0.0	0.0	0.0000	1.000	* Fixed los		
BASE	111		28.67	1.505		0.0	1.000	0.0290	0.029	Vel = 5.1		
BASE	111		0.0	1	1T	3.801	70.000	150	33.022			
to T1	111		20.67	0.011		0.0	3.801 73.801	0 2224	0.0	Vol = 44.4	1	
	111		28.67	0.911	40	0.0		0.3331	24.586	Vel = 14.1		
T1	111		0.0	8	1G		000.000	140	57.608			
to	100 500		20.67	0 27	2L		158.155	0	0.650	Val = 0.4	7	
TEST	109.500		28.67	8.27	2T	110.7091	130.133	0	0.009	Vel = 0.1	/	
TEOT			0.0						E0 007	V Faster	0.70	
TEST			28.67						58.267	K Factor =	3.76	