

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

# CITY OF PORTLAND

## BUILDING INSPECTION

# PERMIT

Permit Number: 100180

Please Read Application And Notes, If Any, Attached

This is to certify that Knecht Gerald C /Eastern Fire Protection Co., Inc

has permission to Install Fire Suppression System in the basement.

AT 341 Fore St CBL 029 B004010

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.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and written permission procured before this building or part thereof is lathed or otherwise closed-in. 24 HOUR 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. CAPT. R. Bouchard  
Health Dept. \_\_\_\_\_  
Appeal Board \_\_\_\_\_  
Other \_\_\_\_\_

PERMIT ISSUED  
MAR 29 2010  
CITY OF PORTLAND

*Janne Banka* 3/4/10  
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: 10-0180	Issue Date:	CBL: 029 B004010
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Location of Construction: 341 Fore St	Owner Name: <i>Boothby SQ Prop</i> <del>Knecht Gerald C</del>	Owner Address: 333 Fore St # 9	Phone:
Business Name: Siam City Restaurant	Contractor Name: Eastern Fire Protection Co., Inc.	Contractor Address: 170 Kittyhawk Ave., PO Box0139 Au	Phone 2077841507
Lessee/Buyer's Name	Phone:	Permit Type: Fire Suppression System	Zone: <i>B-3</i>

Past Use: Commercial / restaurant "Shima" (permit #10-0129)	Proposed Use: Restaurant / Install Fire Suppression System in the basement.	Permit Fee: \$50.00	Cost of Work: \$3,000.00	CEO District: 1
Proposed Project Description: Install Fire Suppression System in the basement.		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <i>* See Conditions</i>	INSPECTION: Use Group: <i>A</i> Type: <i>Sprinkler</i> <i>IBC-2003</i> <i>AMB 3/15/10</i>	
		Signature: <i>(Signature)</i>	Signature: <i>(Signature)</i>	
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: <i>gg</i>	Date Applied For: <i>02/26/2010</i>	<b>Zoning Approval</b>		
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<ol style="list-style-type: none"> <li>This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</li> <li>Building permits do not include plumbing, septic or electrical work.</li> <li>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..</li> </ol>	<b>Special Zone or Reviews</b> <input type="checkbox"/> Shorcland <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"/> <i>Ok w/ conditions</i> Date: <i>3/1/10</i> <i>AMB</i>	<b>Zoning Appeal</b> <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: _____	<b>Historic Preservation</b> <i>yes</i> <input type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>3/3/10</i> <i>STH</i>
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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

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

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

Permit No: 10-0180	Date Applied For: 02/26/2010	CBL: 029 B004010
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Location of Construction: 341 Fore St	Owner Name: Knecht Gerald C	Owner Address: 333 Fore St # 9	Phone:
Business Name: Siam City Restaurant	Contractor Name: Eastern Fire Protection Co., Inc.	Contractor Address: 170 Kittyhawk Ave., PO Box0139 Au	Phone (207) 784-1507
Lessee/Buyer's Name	Phone:	Permit Type: Fire Suppression System	

Proposed Use: Restaurant / Install Fire Suppression System in the basement.	Proposed Project Description: Install Fire Suppression System in the basement.
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Dept: Historic      Status: Approved      Reviewer: Scott Hanson      Approval Date: 03/03/2010  
 Note:      Ok to Issue:

Dept: Zoning      Status: Approved with Conditions      Reviewer: Ann Machado      Approval Date: 03/01/2010  
 Note:      Ok to Issue:

- 1) ANY exterior work requires a separate review and approval thru Historic Preservation. This property is located within an Historic District.
- 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 with Conditions      Reviewer: Jeanine Bourke      Approval Date: 03/15/2010  
 Note:      Ok to Issue:

- 1) Sprinkler systems to be designed and installed per IBC 2003 standards Sec. 903.3.1

Dept: Fire      Status: Approved with Conditions      Reviewer: Capt Keith Gautreau      Approval Date: 03/04/2010  
 Note:      Ok to Issue:

- 1) System acceptance and commissioning must be co-ordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.
- 2) Application requires State Fire Marshal approval.
- 3) 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.
- 4) The Fire alarm and Sprinkler systems shall be reviewed by a licensed contractor[s] for code compliance. Compliance letters are required.
- 5) The sprinkler system shall be installed in accordance with NFPA 13.
- 6) Fire department connection type and location shall be approved in writing by fire prevention bureau.

**Comments:**

3/3/2010-gg: received from historic on 03/03/10.



# 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: 339 Fore St CBL: 029 3004 009

Exact location: (within structure) Basement

Type of occupancy(s) (NFPA & ICC): \_\_\_\_\_

Building owner: Jewell & Knecht

Managing Supervisor: \_\_\_\_\_ License No: \_\_\_\_\_

Supervisor phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Installing contractor: Eastern Fire Protection License No: \_\_\_\_\_

Contractor phone: 207-784-1507 E-mail: hutchinson JJ@teamaster.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 13 Edition: 2007

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

Download a new copy of this document from Inspection Division on-line at [www.portlandmaine.gov](http://www.portlandmaine.gov) for every submittal. Attach all design information and complete approved submittals as may be required by the State Fire Marshal's Office on 11X17 copies or 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, 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).

COST OF WORK: <u>\$ 3000.00</u>
PERMIT FEE: <u>\$ 50.00</u>
(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)

Applicant signature: [Signature] Date: 2-24-10

**RECEIVED**  
FEB 23 2010  
Dept. of Building Inspections  
City of Portland Maine



# EASTERN FIRE PROTECTION

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

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

# LETTER OF TRANSMITTAL

DATE	2-24-10	JOB NO.	4528
ATTENTION			
RE:	339 Fore St		
	2010 sprinkler upgrade		

TO Portland Building Inspection Dept.  
389 Congress St RM 315  
Portland, ME 04101

**WE ARE SENDING YOU**  Attached  Under separate cover via \_\_\_\_\_ the following items:

- Shop drawings  Descriptive data  Hydraulic calculations  
 Copy of letter  Literature  \_\_\_\_\_

QUANTITY	DRAWING NO.	DATE	DESCRIPTION	STATUS
2	10F1	2-24-10	Shop Drawings	C
1			Basement level Hydraulic Calc	
1			Check For Permit Fee # 106502	

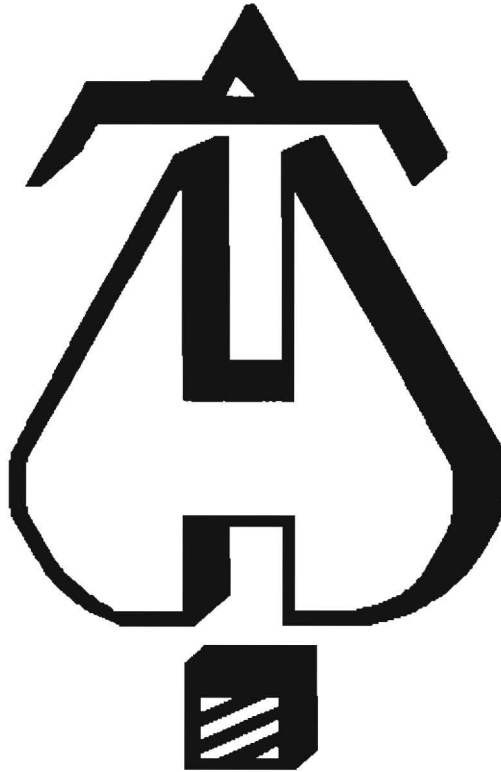
- Status code      A. Approved      D. Corrected & resubmitted  
                          B. Approved as noted      E. For your files  
                           Submitted for approval      F. Refer to remarks

Please return 1 letter ~~copies~~ each indicating your approval and/or comments.

**REMARKS** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**COPY TO** \_\_\_\_\_

**SIGNED** *[Signature]*



... Fire Protection by Computer Design

EASTERN FIRE PROTECTION.  
172 KITTYHAWK AVE.  
P.O. BOX 1390  
AUBURN, MAINE, 04211  
207-784-1507

Job Name : 339 FORE ST BASEMENT  
Building : 1OF1  
Location : 339 FORE ST PORTLAND MAINE  
System : 1  
Contract : AU-4528-10  
Data File : 339 FORE ST BASEMENT.WXF

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**HYDRAULIC CALCULATIONS**  
*for*

**Project name:** 339 FORE ST SIAM CITY RESTURANT  
**Location:** 339 FORE ST PORTLAND MAINE  
**Drawing no:** 1OF1  
**Date:** 2/24/10

**Design**

**Remote area number:** 1  
**Remote area location:** BASEMENT  
**Occupancy classification:** ORDINARY HAZARD GROUP I  
**Density:** .15 - Gpm/SqFt  
**Area of applicatlon:** 910 - SqFt  
**Coverage per sprinkler:** 115 - SqFt  
**Type of sprinklers calculated:** TY-FRB  
**No. of sprinklers calculated:** 15  
**In-rack demand:** - GPM  
**Hose streams:** 250 - GPM  
**Total water required (including hose streams):** 575.207 - GPM @ 70.581 - Psi  
**Type of system:** WET  
**Volume of dry or preaction system:** - Gal

**Water supply information**

**Date:** 6/10/93  
**Location:** HYDRANTS ON MIDDLE ST  
**Source:** PORTLAND WATER DISTRICT

**Name of contractor:** EASTERN FIRE PROTECTION  
**Address:** 170 KITTYHAWK AVE AUBURN MAINE  
**Phone number:** 207-784-1507  
**Name of designer:** JJH

**Authority having jurisdiction:**

**Notes: (Include peaking information or gridded systems here.)**  
REMOTE AREA REDUCED PER NFPA #13 SESECTION 11.2.3.2.3.1

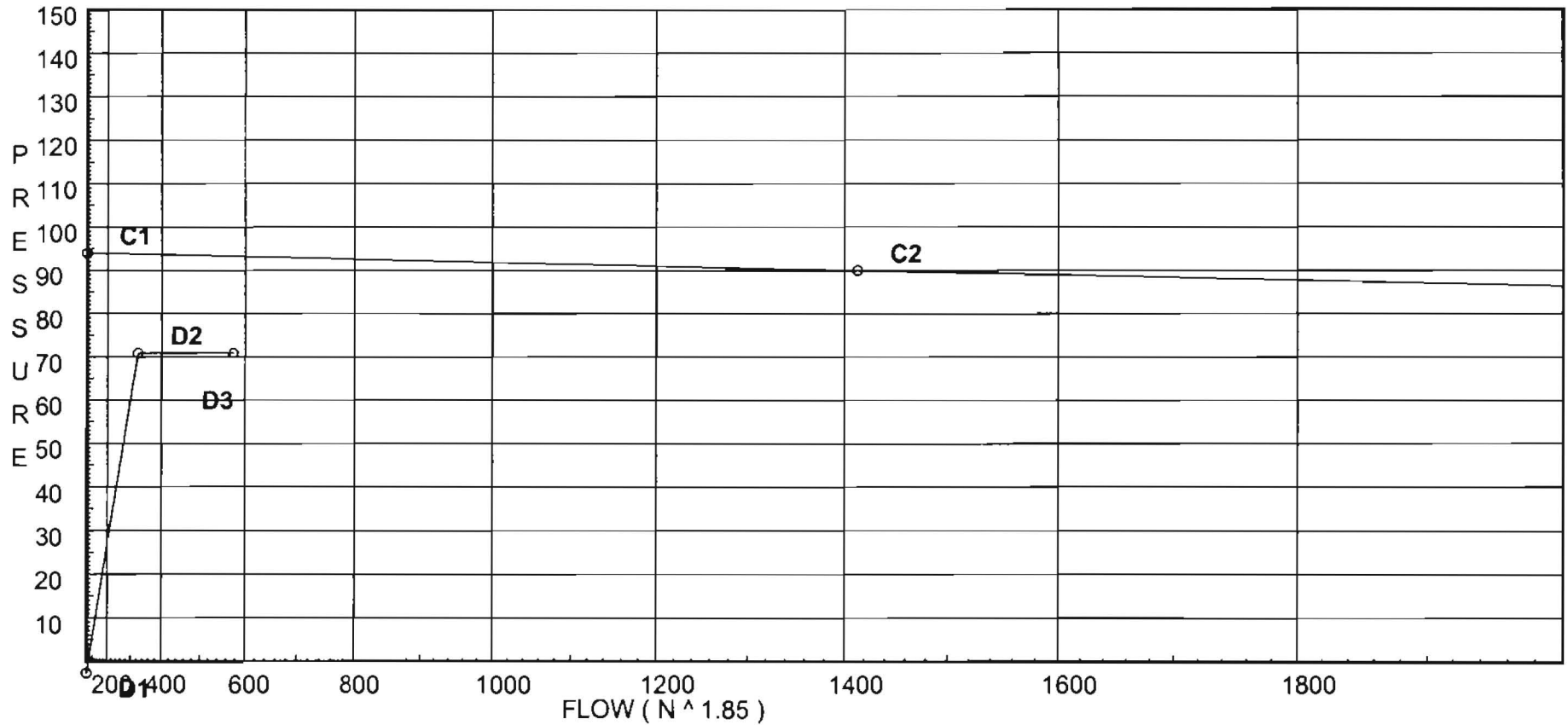
Water Supply Curve (C)

EASTERN FIRE PROTECTION.  
339 FORE ST BASEMENT

Page 2  
Date 2/23/10

City Water Supply:  
C1 - Static Pressure : 94  
C2 - Residual Pressure: 90  
C2 - Residual Flow : 1413

Demand:  
D1 - Elevation : -2.599  
D2 - System Flow : 325.207  
D2 - System Pressure : 70.851  
Hose ( Adj City ) :  
Hose ( Demand ) : 250  
D3 - System Demand : 575.207  
Safety Margin : 22.390





Fitting Legend		½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24	
Abbrev.	Name																					
E	90° Standard Elbow	2	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61	
G	Generic Gate Valve	0	0	0	0	0	1	1	1	1	2	2	3	4	5	6	7	8	10	11	13	
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	
Zac	Ames 2000SS	Fitting generates a Fixed Loss Based on Flow																				

Units Summary

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

**SUPPLY ANALYSIS**

<i>Node at Source Pressure</i>	<i>Static Pressure</i>	<i>Residual Pressure</i>	<i>Flow</i>	<i>Available Pressure</i>	<i>Total Demand</i>	<i>Required</i>
MAIN	94.0	90	1413.0	93.241	575.21	70.851

**NODE ANALYSIS**

<i>Node Tag</i>	<i>Elevation</i>	<i>Node Type</i>	<i>Pressure at Node</i>	<i>Discharge at Node</i>	<i>Notes</i>
UP1	0.0	5.6	9.49	17.25	
UP2	0.0	5.6	9.49	17.25	
DR1	0.0	5.6	9.49	17.25	
1	106.83	5.6	10.18	17.87	
2	106.83	5.6	10.98	18.56	
3	106.83	5.6	13.97	20.93	
7	109.0	5.43	18.66	23.47	K=K @ LN1
6	109.0	5.6	17.47	23.41	
7A	109.0		19.53		
4	109.0	5.6	20.01	25.05	
5	109.0	5.6	21.1	25.72	
A1	109.0		22.34		
8A	109.0	5.43	20.04	24.32	K=K @ LN3
8	109.0	5.6	20.88	25.59	
9	109.0	5.6	10.77	18.38	
10	109.0	5.43	13.07	19.64	K=K @ LN2
14	109.0	5.6	9.49	17.25	
15	109.0	5.6	10.48	18.13	
15A	109.0		14.56		
11	109.0	5.43	15.7	21.52	K=K @ LN3
12	109.0	5.43	21.8	25.37	K=K @ LN3
A	109.0		24.74		
B	109.0		26.24		
C	109.0		26.9		
TOR	109.0		64.07		
BASE	100.0		71.84		
M	100.0		72.08	250.0	
M1	105.0		74.44		
MAIN	115.0		70.85		

EASTERN FIRE PROTECTION.  
339 FORE ST BASEMENT

Node1 to Node2	Elev1 Elev2	K Fact	Qa Qt	Nom Act	Fitting or Eqv.	Ln.	Pipe Ftng's Total	CFact Pf/Ft	Pt Pe Pf	*****	Notes	*****
UP1 to LN1	0 0	5.60	17.25 17.25	1	1T	5.0 0.0 0.0	1.000 5.000 6.000	120 0.0988	9.489 0.0 0.593			Vel = 6.40
LN1			0.0 17.25						10.082		K Factor = 5.43	
UP2 to LN2	0 0	5.60	17.25 17.25	1	1T	5.0 0.0 0.0	1.000 5.000 6.000	120 0.0988	9.489 0.0 0.593			Vel = 6.40
LN2			0.0 17.25						10.082		K Factor = 5.43	
DR1 to LN3	0 0	5.60	17.25 17.25	1	1T	5.0 0.0 0.0	1.000 5.000 6.000	120 0.0988	9.489 0.0 0.593			Vel = 6.40
LN3			0.0 17.25						10.082		K Factor = 5.43	
1 to 2	106.830 106.830	5.60	17.87 17.87	1		0.0 0.0 0.0	7.580 0.0 7.580	120 0.1057	10.182 0.0 0.801			Vel = 6.63
2 to 3	106.830 106.830	5.60	18.56 36.43	1		0.0 0.0 0.0	7.580 0.0 7.580	120 0.3946	10.983 0.0 2.991			Vel = 13.52
3 to 7	106.830 109	5.60	20.93 57.36	1.25	4E	12.0 0.0 0.0	11.420 12.000 23.420	120 0.2404	13.974 -0.940 5.629			Vel = 12.30
7 to 7A	109 109	5.43	23.47 80.83	1.25		0.0 0.0 0.0	1.920 0.0 1.920	120 0.4536	18.663 0.0 0.871			K = K @ LN1 Vel = 17.34
7A			0.0 80.83						19.534		K Factor = 18.29	
6 to 7A	109 109	5.60	23.41 23.41	1	1T	5.0 0.0 0.0	6.830 5.000 11.830	120 0.1741	17.474 0.0 2.060			Vel = 8.69
7A to A	109 109		80.83 104.24	1.25	1T	6.0 0.0 0.0	1.170 6.000 7.170	120 0.7258	19.534 0.0 5.204			Vel = 22.36
A			0.0 104.24						24.738		K Factor = 20.96	
4 to A1	109 109	5.60	25.05 25.05	1	1T	5.0 0.0 0.0	6.830 5.000 11.830	120 0.1973	20.006 0.0 2.334			Vel = 9.30
			0.0									

EASTERN FIRE PROTECTION.  
339 FORE ST BASEMENT

Node1 to Node2	Elev1 Elev2	K Fact	Qa Qt	Nom Act	Fitting or Eqv.	Ln.	Pipe Ftng's Total	CFact Pf/Ft	Pt Pe Pf	***** Notes *****
A1			25.05						22.340	K Factor = 5.30
5 to A1	109 109	5.60	25.72	1	1T	5.0 0.0	1.000 5.000	120	21.097 0.0	
A1 to A	109 109		25.72	1.049		0.0	6.000	0.2072	1.243	Vel = 9.55
A1 to A	109 109		25.05	1.25	1T	6.0 0.0	6.500 6.000	120	22.340 0.0	
A			50.77	1.38		0.0	12.500	0.1918	2.398	Vel = 10.89
A			0.0 50.77						24.738	K Factor = 10.21
8A to 8	109 109	5.43	24.32	1		0.0 0.0	4.500 0.0	120	20.044 0.0	K = K @ LN3
8 to B	109 109		24.32	1.049		0.0	4.500	0.1867	0.840	Vel = 9.03
8 to B	109 109	5.60	25.59	1	1T	5.0 0.0	2.580 5.000	120	20.884 0.0	
B			49.91	1.049		0.0	7.580	0.7066	5.356	Vel = 18.53
B			0.0 49.91						26.240	K Factor = 9.74
9 to 10	109 109	5.60	18.38	1	5E	10.0 0.0	10.580 10.000	120	10.774 0.0	
10 to 15A	109 109		18.38	1.049		0.0	20.580	0.1114	2.292	Vel = 6.82
10 to 15A	109 109	5.43	19.64	1		0.0 0.0	3.500 0.0	120	13.066 0.0	K = K @ LN2
15A			38.02	1.049		0.0	3.500	0.4269	1.494	Vel = 14.11
15A			0.0 38.02						14.560	K Factor = 9.96
14 to 15	109 109	5.60	17.25	1		0.0 0.0	10.000 0.0	120	9.489 0.0	
15 to 15A	109 109		17.25	1.049		0.0	10.000	0.0989	0.989	Vel = 6.40
15 to 15A	109 109	5.60	18.13	1	1E 1T	2.0 5.0	3.920 7.000	120	10.478 0.0	
15A to 11	109 109		35.38	1.049		0.0	10.920	0.3738	4.082	Vel = 13.13
15A to 11	109 109		38.02	1.25		0.0 0.0	3.000 0.0	120	14.560 0.0	
11 to 12	109 109		73.4	1.38		0.0	3.000	0.3793	1.138	Vel = 15.74
11 to 12	109 109	5.43	21.52	1.25		0.0 0.0	10.000 0.0	120	15.698 0.0	K = K @ LN3
12 to C	109 109		94.92	1.38		0.0	10.000	0.6103	6.103	Vel = 20.36
12 to C	109 109	5.43	25.36	1.5	1T	8.0 0.0	3.420 8.000	120	21.801 0.0	K = K @ LN3
C			120.28	1.61		0.0	11.420	0.4465	5.099	Vel = 18.96
			0.0							

EASTERN FIRE PROTECTION.  
339 FORE ST BASEMENT

Node1 to Node2	Elev1 Elev2	K Fact	Qa Qt	Nom Act	Fitting or Eqv.	Ln.	Pipe Ftng's Total	CFact Pf/Ft	Pt Pe Pf	***** Notes *****
C			120.28						26.900	K Factor = 23.19
A to B	109 109		155.01	2		0.0	8.750	120	24.738	
						0.0	0.0		0.0	
B to C	109 109		155.01	2.157		0.0	8.750	0.1717	1.502	Vel = 13.61
						0.0	2.290	120	26.240	
						0.0	0.0		0.0	
C to TOR	109 109		204.92	2.157		0.0	2.290	0.2882	0.660	Vel = 17.99
						12.307	30.330	120	26.900	
						12.307	24.614		0.0	
TOR to BASE	109 100		325.21	2.157		0.0	54.944	0.6765	37.172	Vel = 28.55
						13.167	8.000	120	64.072	
						0.0	13.167		7.248	* Fixed loss = 3.35
BASE to M	100 100		325.21	4.26		0.0	21.167	0.0246	0.521	Vel = 7.32
						4.304	30.000	140	71.841	
						43.037	47.341		0.0	
M to M1	100 105		325.21	6.16		0.0	77.341	0.0031	0.237	Vel = 3.50
						43.037	450.000	140	72.078	
						20.084	63.121		-2.166	
M1 to MAIN	105 115		575.21	6.16		0.0	513.121	0.0088	4.524	Vel = 6.19
						55.354	300.000	140	74.436	
						0.0	55.354		-4.331	
MAIN			575.21	8.27		0.0	355.354	0.0021	0.746	Vel = 3.44
MAIN			0.0							
			575.21						70.851	K Factor = 68.34