

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

PERMIT ISSUED
 MAR 29 2011
 CITY OF PORTLAND

Job No: 2011-1189 FAFS	Date Applied: 02/10/11	CBL: 326 - - B - 009 - 001 - - - -	
SEQUENCE 1 HVAC REVIEW		Location of Construction: 50 INDUSTRIAL WAY	Owner Name: * 50 INDUSTRIAL WAY LLC
Business Name:	Contractor Name: MAINE FIRE PROTECTION (PD INDUSTRIES)	Owner Address: 50 INDUSTRIAL WAY PORTLAND, ME - MAINE 04103	Phone:
Lessee/Buyer's Name:	Contractor Address: PO BOX 1050, BANGOR, ME 04401	Phone: 942-8809	Zone: I-M
Past Use: ALLAGASH BREWERY	Proposed Use: SAME: ALLAGASH BREWERY - TO ADD SPRINKLER SYSTEM	Permit Type: BLDG - FIRE SUPPRESSION SYSTEM	CEO District:
	Cost of Work: 4000.00	Fire Dept: <input checked="" type="checkbox"/> Approved w/ conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: F-2/S Type: Suppression
	Signature: <i>[Signature]</i> (58)		Signature: <i>[Signature]</i>
Proposed Project Description: 50 Industrial w/ permit#'s 10-067 & 10-1138 - new sprinkler system		Pedestrian Activities District (P.A.D.) 3/15/11	

Permit Taken By:	Zoning Approval		
1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. 2. Building Permits do not include plumbing, septic or electrical work. 3. 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.	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Date: <i>[Signature]</i> 2/10/11	Zoning Appeal <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:	Historic Preservation <input checked="" type="checkbox"/> Not in Dist or Landmark <input type="checkbox"/> Does not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>[Signature]</i>
	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	PHON

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.**

1. Final - Commercial

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

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Director of Planning and Urban Development
Penny St. Louis

Job ID: 2011-01-247-ALTCOMM

Located At: 50 INDUSTRIAL

CBL: 326 - - B - 009 - 001 - - - -

Conditions of Approval:

Fire

1. The sprinkler system shall be installed in accordance with NFPA 13.
2. The Fire Department will require Knox locking caps on all Fire Department Connections on the exterior of the building.
3. Installation of a sprinkler or fire alarm system requires a Knox Box to be installed per city ordinance.
4. System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.
5. Sprinkler system shall be electrically supervised by the fire alarm system.

Building

1. Sprinkler systems to be designed and installed per IBC 2009 standards Sec. 903.3.1.

Fire conditions

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2011-1189 FAFS

Job Summary Report
Job ID: 2011-01-247-ALTCOMM

Report generated on Feb 10, 2011 2:14:35 PM

Job Type:	Adds/Alter Remodel Only Non-Res & NonHskp	Job Description:	50 Industrial w/ permit#'s 10-067 & 10-1138	Job Year:	2010
Building Job Status Code:	In Review	Pin Value:	431	Tenant Name:	Allagash Brewery
Job Application Date:		Public Building Flag:	N	Tenant Number:	
Estimated Value:	4,000	Square Footage:			
Related Parties:		* 50 INDUSTRIAL WAY LLC		<i>Property Owner</i>	
		MAINE FIRE PROTECTION SYSTEMS - MAINE SYSTEMS		<i>ELECTRICAL CONTRACTOR</i>	
		Norris Inc - Melissa Peters		<i>GENERAL CONTRACTOR</i>	
		Langford & Low - & LOW LANGFORD		<i>GENERAL CONTRACTOR</i>	

Job Charges

Fee Code Description	Charge Amount	Permit Charge Adjustment	Net Charge Amount	Payment Date	Receipt Number	Payment Amount	Payment Adjustment Amount	Net Payment Amount	Outstanding Balance
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Location ID: 34610

Location Details

Alternate Id	Parcel Number	Census Tract	GIS X	GIS Y	GIS Z	GIS Reference	Longitude	Latitude
N15012	326 B 009 001		U				-70.317677	43.703214

Location Type	Subdivision Code	Subdivision Sub Code	Related Persons	Address(es)
1				50 INDUSTRIAL WAY

Location Use Code	Variance Code	Use Zone Code	Fire Zone Code	Inside Outside Code	District Code	General Location Code	Inspection Area Code	Jurisdiction Code
MANUFACTURING & CONSTRUCT		INDUSTRIAL-MODERATE IMPCT					DISTRICT 8	RIVERSIDE

Structure Details

Structure: Allagash Brewery

Occupancy Type Code:

Structure Type Code	Structure Status Type	Square Footage	Estimated Value	Address
Industrial Building	0			50 INDUSTRIAL WAY

Longitude	Latitude	GIS X	GIS Y	GIS Z	GIS Reference	User Defined Property	Value
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Job Summary Report
Job ID: 2011-01-247-ALTCOMM

Report generated on Feb 10, 2011 2:14:35 PM

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Fee Code Description	Charge Amount	Permit Charge Adjustment	Permit Charge Adj Remark	Payment Date	Receipt Number	Payment Amount	Payment Adjustment Amount	Payment Adj Comment
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Waiting for electronic plans



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.

Installation address: 50 Industrial Way CBL: 326 3009

Exact location: (within structure) New Addition

Type of occupancy(s) (NFPA & ICC): NFPA 13 OH2 Beverage Manufacturer

Building owner: Allagash Brewery

Managing Supervisor (RMS): Christopher Mahoux License No: 789

Supervisor phone: (207) 942-8809 E-mail: Cmahoux@me-fire-pro.com

Installing contractor: Maine Fire Protection 1030 License No: 1
(P.O. Industries) 70 Box 1083
207 942-8809 Bangor 04401 E-mail: Service@me-fire-pro.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 this system is designed to: 13 Edition: 2010

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

Download a new copy of this document from 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.

COST OF WORK: \$ 8960

PERMIT FEE: 110.00

(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)

RECEIVED

FEB 10 2011

Dept. of Building Inspections
City of Portland Maine

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: [Signature] Date: 2/8/11



State of Maine
Department of Public Safety



Fire Sprinkler System Permit

9390

Allagash Brewery Addition

Located at: 50 Industrial way Portland, ME
In the Town of: Portland
Occupancy/Use: brewery
Type of System: NFPA 13

Permission is hereby given to:

PD Industries, Inc./ Maine Fire Protection System

6 Dowd Road
Bangor, ME 04401
Contractor License # 1

to begin installation according to plans submittal approved by the Office of State Fire Marshal.
The submittal is filed under log # 2111038 , 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. 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 1/31/2011 for a fee paid of \$100.00

This permit will expire at midnight on Saturday, July 30, 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 work is fairly continuous.

Anne H. Jordan
Commissioner

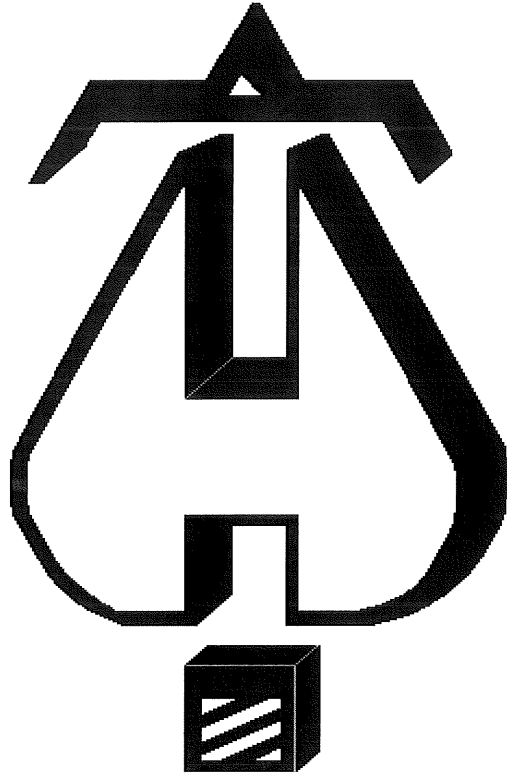
The type of Fire Department Connection and its location is to be according to the Local Fire Department

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 Licensing and Inspections Unit 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 on date of _____

RMS for this job: Maheux Christopher E

RMS Signature: _____



... Fire Protection by Computer Design

Maine Fire Protection
P.O. Box 1050
Bangor, ME 04401
(207) 942-8809

Job Name : Allagash Brewery Addition
Drawing :
Location : 50 Industrial way, Portland, ME
Remote Area : 1
Contract :
Data File : 613.wx1

Water Supply Curve (C)

Maine Fire Protection
Allagash Brewery Addition

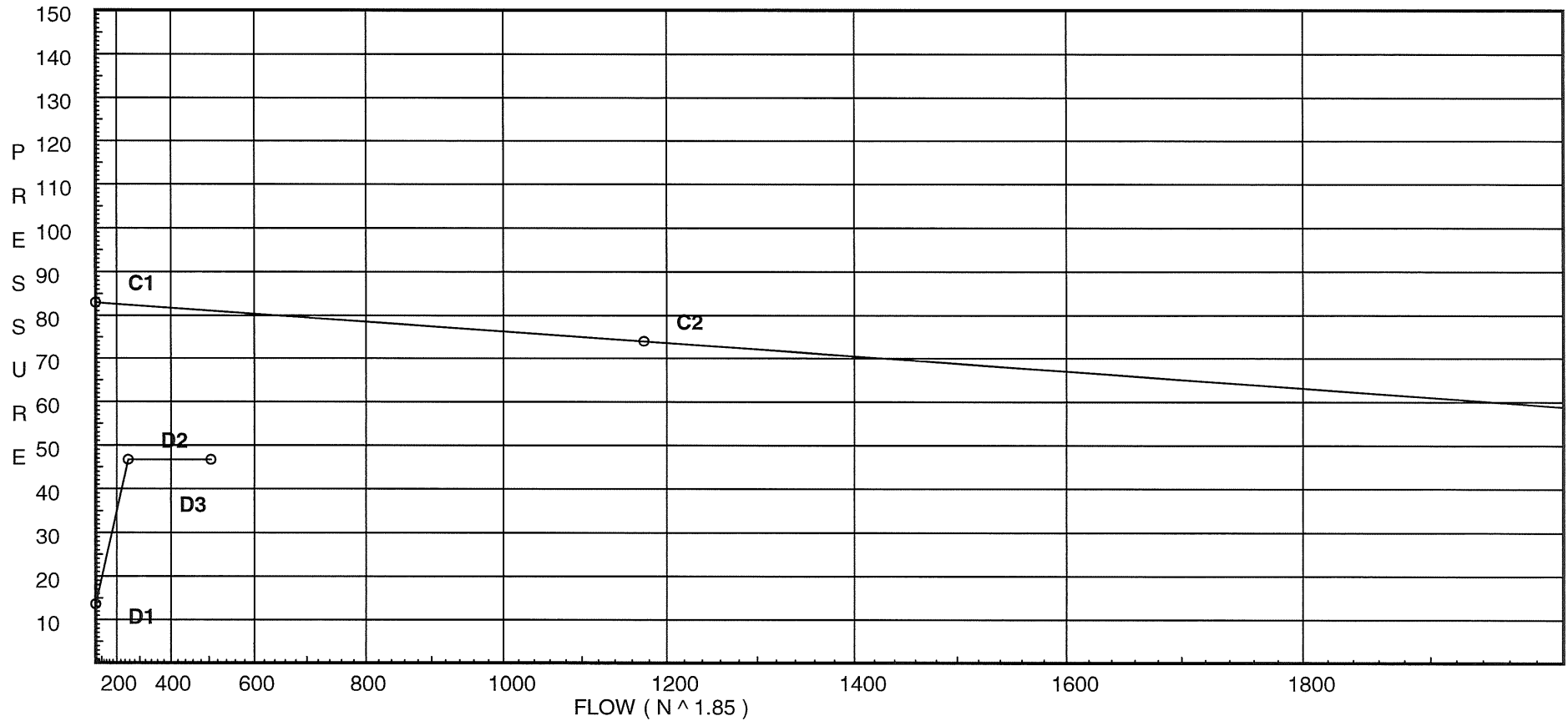
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Date 121010

City Water Supply:

C1 - Static Pressure : 83
C2 - Residual Pressure: 74
C2 - Residual Flow : 1174

Demand:

D1 - Elevation : 13.643
D2 - System Flow : 254.651
D2 - System Pressure : 46.688
Hose (Demand) : 250
D3 - System Demand : 504.651
Safety Margin : 34.424



Fittings Used Summary

Maine Fire Protection
Allagash Brewery Addition

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Fitting Legend		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
Abbrev.	Name																				
E	NFPA 13 90' Standard Elbow	1	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61
F	NFPA 13 45' Elbow	1	1	1	1	2	2	3	3	3	4	5	7	9	11	13	17	19	21	24	28
Fsp	Flow Switch Potter VSR	Fitting generates a Fixed Loss Based on Flow																			
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
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

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.

Pressure / Flow Summary - STANDARD

Maine Fire Protection
Allagash Brewery Addition

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Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
17	31.5	5.6	11.69	na	19.15	0.15	113.6	7.0
18	31.5	5.6	11.85	na	19.27	0.15	113.6	7.0
19	31.5	5.6	12.4	na	19.72	0.15	113.6	7.0
12	31.5	5.6	10.85	na	18.45	0.15	123	7.0
13	31.5		10.88	na				
14	31.5	5.6	10.96	na	18.54	0.15	123	7.0
15	31.5	5.6	11.35	na	18.86	0.15	123	7.0
16	31.5	5.6	12.17	na	19.54	0.15	123	7.0
8	31.5	5.6	13.46	na	20.54	0.15	123	7.0
9	31.5		13.53	na				
10	31.5	5.6	13.58	na	20.64	0.15	123	7.0
11	31.5	5.6	14.05	na	20.99	0.15	123	7.0
1	31.5	5.6	12.02	na	19.41	0.15	113.6	7.0
2	31.5	5.6	12.18	na	19.54	0.15	113.6	7.0
3	31.5	5.6	12.74	na	19.99	0.15	113.6	7.0
4	30.0		14.39	na				
5	30.0		14.48	na				
6	30.0		14.91	na				
7	30.0		16.16	na				
W2	30.0		23.75	na				
TOR	10.0		38.49	na				
BOR	6.0		43.83	na				
W1	4.0		44.87	na				
TEST	0.0		46.69	na	250.0			

The maximum velocity is 14.98 and it occurs in the pipe between nodes 7 and W2

Final Calculations - Hazen-Williams

Maine Fire Protection
Allagash Brewery Addition

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Date 121010

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
17	19.15	1.682		0.0	12.620	11.694			K Factor = 5.60	
to		120.0		0.0	0.0	0.0				
18	19.15	0.0121		0.0	12.620	0.153			Vel = 2.77	
18	19.27	1.682		0.0	12.620	11.847			K Factor = 5.60	
to		120.0		0.0	0.0	0.0				
19	38.42	0.0437		0.0	12.620	0.551			Vel = 5.55	
19	19.72	1.682	1T	9.9	5.370	12.398			K Factor = 5.60	
to		120.0		0.0	9.900	0.650				
5	58.14	0.0940		0.0	15.270	1.435			Vel = 8.39	
	0.0									
	58.14					14.483			K Factor = 15.28	
12	18.45	1.682		0.0	2.450	10.855			K Factor = 5.60	
to		120.0		0.0	0.0	0.0				
13	18.45	0.0110		0.0	2.450	0.027			Vel = 2.66	
13	0.0	1.682		0.0	7.000	10.882				
to		120.0		0.0	0.0	0.0				
14	18.45	0.0113		0.0	7.000	0.079			Vel = 2.66	
14	18.54	1.682		0.0	9.450	10.961			K Factor = 5.60	
to		120.0		0.0	0.0	0.0				
15	36.99	0.0407		0.0	9.450	0.385			Vel = 5.34	
15	18.86	1.682		0.0	9.450	11.346			K Factor = 5.60	
to		120.0		0.0	0.0	0.0				
16	55.85	0.0873		0.0	9.450	0.825			Vel = 8.06	
16	19.54	1.682	1T	9.9	3.830	12.171			K Factor = 5.60	
to		120.0		0.0	9.900	0.650				
6	75.39	0.1520		0.0	13.730	2.087			Vel = 10.89	
	0.0									
	75.39					14.908			K Factor = 19.53	
8	20.54	1.682		0.0	5.630	13.455			K Factor = 5.60	
to		120.0		0.0	0.0	0.0				
9	20.54	0.0137		0.0	5.630	0.077			Vel = 2.97	
9	0.0	1.682		0.0	3.820	13.532				
to		120.0		0.0	0.0	0.0				
10	20.54	0.0139		0.0	3.820	0.053			Vel = 2.97	
10	20.64	1.682		0.0	9.450	13.585			K Factor = 5.60	
to		120.0		0.0	0.0	0.0				
11	41.18	0.0496		0.0	9.450	0.469			Vel = 5.95	
11	21.00	1.682	1T	9.9	3.830	14.054			K Factor = 5.60	
to		120.0		0.0	9.900	0.650				
7	62.18	0.1064		0.0	13.730	1.461			Vel = 8.98	
	0.0									
	62.18					16.165			K Factor = 15.47	
1	19.41	1.682		0.0	12.620	12.020			K Factor = 5.60	
to		120.0		0.0	0.0	0.0				
2	19.41	0.0123		0.0	12.620	0.155			Vel = 2.80	
2	19.54	1.682		0.0	12.620	12.175			K Factor = 5.60	
to		120.0		0.0	0.0	0.0				
3	38.95	0.0448		0.0	12.620	0.566			Vel = 5.62	

Final Calculations - Hazen-Williams

Maine Fire Protection
Allagash Brewery Addition

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Date 121010

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
3 to 4	19.99 58.94	1.682 120.0 0.0964	1E	4.95 0.0 0.0	5.370 4.950 10.320	12.741 0.650 0.995			K Factor = 5.60 Vel = 8.51	
4 to 5	0.0 58.94	2.635 120.0 0.0108		0.0 0.0 0.0	9.000 0.0 9.000	14.386 0.0 0.097			Vel = 3.47	
5 to 6	58.15 117.09	2.635 120.0 0.0386		0.0 0.0 0.0	11.000 0.0 11.000	14.483 0.0 0.425			Vel = 6.89	
6 to 7	75.39 192.48	2.635 120.0 0.0967		0.0 0.0 0.0	13.000 0.0 13.000	14.908 0.0 1.257			Vel = 11.32	
7 to W2	62.17 254.65	2.635 120.0 0.1623	1T	16.474 0.0 0.0	30.250 16.474 46.724	16.165 0.0 7.585			Vel = 14.98	
W2 to TOR	0.0 254.65	4.26 120.0 0.0157	4E 1Fsp	52.668 0.0 0.0	144.000 52.668 196.668	23.750 11.662 3.078			* Fixed loss = 3 Vel = 5.73	
TOR to BOR	0.0 254.65	4.26 120.0 0.0157	3E 1Zac	39.501 0.0 0.0	4.000 39.501 43.501	38.490 4.662 0.681			* Fixed loss = 2.93 Vel = 5.73	
BOR to W1	0.0 254.65	6.16 140.0 0.0020	1E	20.084 0.0 0.0	70.000 20.084 90.084	43.833 0.866 0.176			Vel = 2.74	
W1 to TEST	0.0 254.65	12.34 140.0 0.0001	5E 3F	210.976 60.949 0.0	950.000 271.925 1221.925	44.875 1.732 0.081			Vel = 0.68	
	250.00 504.65					46.688			Qa = 250.00 K Factor = 73.86	