

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT

PERMIT ISSUED

This is to certify that HARBORVIEW APTSLLC

Located At 127 YORK

Job ID: 2011-02-415-MF-5+

CBL: 044 - - A - 005 - 001 - - - - -

MAR - 9 2011

City of Portland

has permission to Interior renovations and addition of rear decks at 2nd & 3rd floors
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

James Biv

Fire Prevention Officer

James Ranta 3/9/11

Code Enforcement Officer / Plan Reviewer

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

SCANNED



July 15, 2011

Mr. Jonathan Culley
Red Fern Properties

Reference:
Existing Fire Escapes
127-129 York Street
Portland, Maine 04101

Structural Integrity Job: #10-0142

Dear Jonathan,

As requested I am writing this memo regarding the existing fire escapes at the above referenced site.

The opinions expressed are based on limited visual observations during my visit to the site on multiple occasions and my knowledge of structures, their components, and the related building codes. No calculations or physical testing were performed to determine the adequacy of the complete structural systems. Architectural/life safety conditions are not included in this report. No warranty expressed or implied, as to the condition of the structure, is intended.

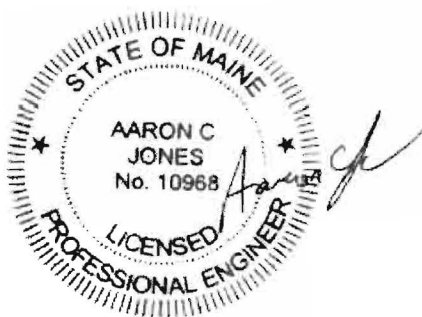
After visiting the above referenced site and observing the escape in its current condition with the recent repairs, I certify that the fire escape is in good condition and is structurally sound for use as an emergency exit.

Do not hesitate to call with any questions, comments, or if I can be of further assistance.

Sincerely,

A handwritten signature in cursive script that reads "Aaron C. Jones".

Aaron C. Jones, P.E., SECB, LEED AP BD+C
President



City of Portland, Maine - Building or Use Permit Application

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

PERMIT ISSUED

MAR - 9 2011

Job No: 2011-02-415-MF-5+	Date Applied: 2/09/2011	CBL: 044 - - A - 005 - 001 - - - - -		
Location of Construction: 127 YORK	Owner Name: HARBORVIEW DEVELOPMENT LLC	Owner Address: PO BOX 8816, PORTLAND, ME 04104	City of Portland	
Business Name:	Contractor Name: Culley, Joanthan	Contractor Address:	Phone: 776-9715	
Lessee/Buyer's Name:	Phone:	Permit Type: BLDG - Building Int alterations and new rear 3 story decks	Zone: R-6	
Past Use: 12 residential dwelling units	Proposed Use: Same: 12 residential D U (condo conv #2011-01-210)- to add 3 story rear decks and interior renovaitons	Cost of Work: 140,000.00	CEO District:	
		Fire Dept: <input checked="" type="checkbox"/> Approved w/conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: R-2 Type: 3B IBC 2009	
		Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	
Proposed Project Description: 127 York Street - to add 3 story rear decks and interior renovations.		Pedestrian Activities District (P.A.D.)		
Permit Taken By:		Zoning Approval		

<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building Permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.</p>	<p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetlands</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan <i>→ required</i></p> <p><input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM</p> <p>Date: <i>ok with conditng</i> <i>S 2/14/11</i></p>	<p>Zoning Appeal</p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date:</p>	<p>Historic Preservation</p> <p><input checked="" type="checkbox"/> Not in Dist or Landmark</p> <p><input type="checkbox"/> Does not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>[Signature]</i></p>
	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 appication 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

Sends PDF to Lannie on 2/9/11
email



General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

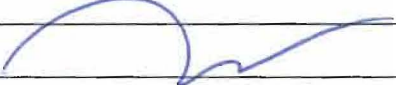
Location/Address of Construction: <u>127 York Street</u>		
Total Square Footage of Proposed Structure/Area <u>Existing 8,823 sq ft</u>	Square Footage of Lot <u>21,239 sq ft</u>	
Tax Assessor's Chart, Block & Lot Chart# <u>44</u> Block# <u>A</u> Lot# <u>415</u> <u>044 A 005</u>	Applicant <u>must be owner, Lessee or Buyer</u> Name <u>Harborview Development LLC</u> Address <u>P.O. Box 8816</u> City, State & Zip <u>Portland, ME 04104</u>	Telephone: <u>207-776-9715</u>
Lessee/DBA (If Applicable) RECEIVED FEB - 9 2011	Owner (if different from Applicant) Name Address City, State & Zip	Cost Of Work: \$ <u>140,000</u> C of O Fee: \$ _____ Total Fee: \$ <u>1,420.00</u>
	Current legal use (i.e. single family) <u>12-unit multi-family</u> If vacant, what was the previous use? _____ Proposed Specific use: _____ Is property part of a subdivision? _____ If yes, please name _____ Project description: <u>Renovation and condo conversion (applied under separate application) of brick 12-unit multi-family. New kitchens, baths, sprinklers, cosmetic decks.</u>	
Contractor's name: <u>Redfern Properties LLC</u>		
Address: <u>P.O. Box 8816</u>		
City, State & Zip: <u>Portland, ME 04104</u>		Telephone: _____
Who should we contact when the permit is ready: <u>Jonathan Culley</u>		Telephone: <u>207-776-9715</u>
Mailing address: <u>P.O. Box 8816 Portland, ME 04104</u>		

See letter under self permit

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature:  Date: 2/9/2011

This is not a permit; you may not commence ANY work until the permit is issued



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: 2011-02-415-MF-5+

Located At: 127 YORK

CBL: 044 - - A - 005 - 001 - - - -

Conditions of Approval:

Zoning

1. This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.
2. This is NOT an approval for an additional dwelling unit. You SHALL NOT add any additional kitchen equipment including, but not limited to items such as stoves, microwaves, refrigerators, or kitchen sinks, etc. without special approvals.
3. Separate permits shall be required for future decks, sheds, pools, and/or garages.
4. This property shall remain a 12 residential unit condominium (#2011-01-210) building. Any change of use shall require a separate permit application for review and approval.
5. It is understood that separate reviews are required under site plan review for the 3 story rear decks.
6. The 3 story rear decks SHALL NOT have any interconnecting stairways to the ground level. Any change to these decks shall require a separate review and approval.

Fire

1. Structure shall comply with City Code Chapter 10.
2. Separate permits are required for: sprinkler, fire alarm, electrical, HVAC, plumbing.
3. The structure shall have a supervised NFPA 13R sprinkler system.
4. A fire alarm system is required. Initiation shall be by manual pull stations and the sprinkler shall be supervised for water flow and supervisory signals.
5. Hardwired photoelectric smoke alarms are required in each bedroom and outside of each bedroom in the living area. New smoke alarms shall be interconnected within each dwelling. See City Code for specifics.
6. Hardwired Carbon Monoxide alarms with battery backup are required in the dwelling units.

Building

1. Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.
2. Those renovating dwelling shall install a CO detector in each area within or giving access to bedrooms. That detection must be powered by the electrical service in the building and battery.
3. All penetrations between dwelling units and dwelling units and common areas shall be protected with approved firestop materials, and recessed lighting/vent fixtures shall not reduce the (1 hour) required rating per Sec. 712 of IBC.
4. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, including pellet/wood stoves, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.

5. Per the owner, some existing wall partitions will be modified to meet the 1 hour rated wall assembly #3.
6. As agreed with the owner, structural specs for the sizing of all interior beams shall be submitted prior to their installation.
7. No storage areas have been designated nor are allowed in the basement. Plans shall be submitted for review if this space is to be occupied, including storage.
8. The new deck guardrails shall have openings less than 4".

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. Footings/Setbacks
 2. Deck Framing
 3. Close in prior to insulation or drywall
 4. Final/Certificate of Occupancy (Condos)

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.

Jeanie Bourke - LVL detail, 127 York St.

From: "Jonathan Culley" <jonathan@redfernproperties.com>
To: "Jeanie Bourke" <jmb@portlandmaine.gov>
Date: 4/19/2011 4:42 PM
Subject: LVL detail, 127 York St.
Attachments: Document(72).pdf

Jeanie,

When you issued the building permit for 127 York, you asked for some additional detail on a structural header. I had Aaron Jones of Structural Integrity inspect the condition once we got the wall opened up. The direction he gave us is in the attached letter. Please add to the file. Thank you and please let me know if you have any questions.

Jonathan Culley
Redfern Homes LLC | Redfern Properties LLC
Cell: 207-776-9715
Office: 207-221-5746
Fax: 207-221-2822
jonathan@redfernproperties.com
www.redfernhomes.com
www.redfernproperties.com

044-A-005

From: Aaron Jones [mailto:aaron@structuralinteg.com]
Sent: Wednesday, April 13, 2011 6:01 PM
To: 'Jonathan Culley'
Subject: RE: LVL detail, 127 York St.

Let's try this
Thanks
Aaron

Aaron C. Jones, P.E., SECB, LEED AP BD+C
Structural Integrity Consulting Engineers, Inc.
77 Oak Street
Portland, ME 04101
p. 207-774-4614
f. 866-793-7835
aaron@structuralinteg.com
www.structuralinteg.com

RECEIVED
APR 20 2011
Dept. of Building Inspections
City of Portland Maine

Structural Integrity

Consulting Engineers, Inc.

April 13, 2011

Mr. Jonathan Culley
Red Fern Properties

Reference:
New Beam at Opening in Existing Bearing Wall
127 York Street
Portland, Maine 04101

Structural Integrity Job: #10-0142

Dear Jonathan,

As requested I am writing this memo regarding the installation of a new beam at a small opening in a main level bearing wall at 127 York Street.

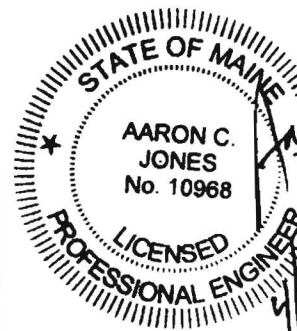
Please add a triple 9 1/2" deep LVL dropped beam as shown in the attached sketch. The new dropped beam should stack over three new stud pack posts which will stack over the existing main level girder, columns and foundation.

Do not hesitate to call with any questions, comments, or if I can be of further assistance.

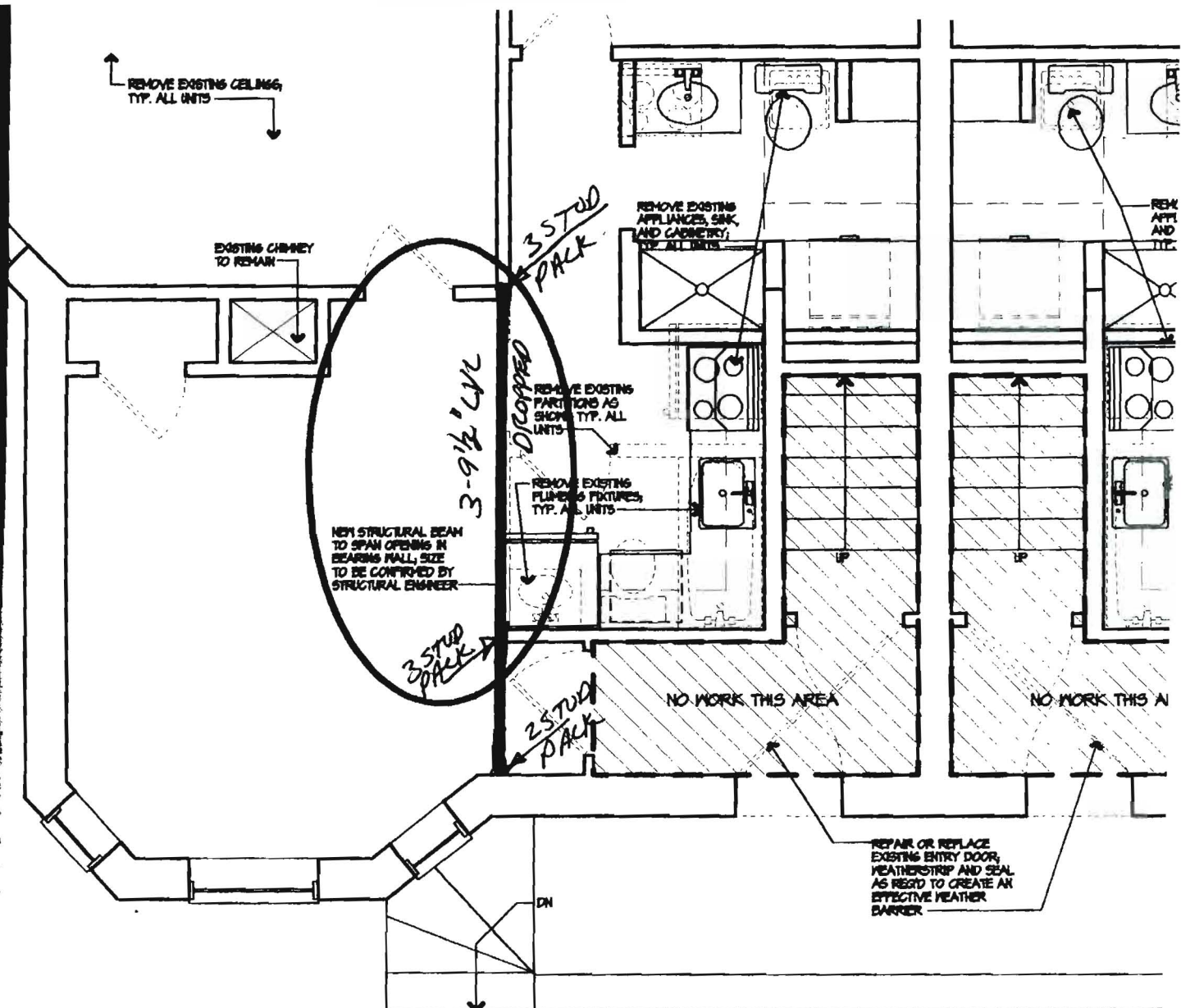
Sincerely,



Aaron C. Jones, P.E., SECB, LEED AP BD+C
President



RECEIVED
APR 20 2011
Dept. of Building Inspections
City of Portland Maine



127 YORK STREET

PORT LAND, ME 04101

4/13/11

page 2 of 2

RECEIVED

APR 20 2011

Dept. of Building Inspections
City of Portland Maine

Job Summary Report
Job ID: 2011-02-415-MF-5+

Report generated on Feb 14, 2011 2:57:47 PM

Job Type:	Multi-Family 5+	Job Description:	127 York Street	Job Year:	2011
Building Job Status Code:	Initiate Plan Review	Pin Value:	652	Tenant Name:	
Job Application Date:		Public Building Flag:	N	Tenant Number:	
Estimated Value:	140,000	Square Footage:			
Related Parties:		APTS HARBORVIEW		<i>Property Owner</i>	
		- Joanthan Culley		<i>PLUMBING 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
Job Valuation Fees	\$1,420.00		\$1,420.00						\$1,420.00

Location ID: 6322

Location Details

Alternate Id	Parcel Number	Census Tract	GIS X	GIS Y	GIS Z	GIS Reference	Longitude	Latitude
N10506	044 A 005 001		M				-70.258851	43.650726

Location Type	Subdivision Code	Subdivision Sub Code	Related Persons	Address(es)
1				127 YORK STREET WEST

Location Use Code	Variance Code	Use Zone Code	Fire Zone Code	Inside Outside Code	District Code	General Location Code	Inspection Area Code	Jurisdiction Code
ELEVEN TO TWENTY FAMILY		RESIDENTIAL					DISTRICT 3	WEST END

Structure Details

Structure: Condo Conv - 12 Units

Occupancy Type Code:

Structure Type Code	Structure Status Type	Square Footage	Estimated Value	Address
Muti-Family 5+ Building	0			127 YORK STREET WEST

Longitude	Latitude	GIS X	GIS Y	GIS Z	GIS Reference	User Defined Property	Value

Permit #: 20111259

Permit Data

Not in history
Not Condos yet - permit issued 2/3/2011 - # 2011-01-210
(No C-60)

Marge Schmuckal - 127 York Street, new decks

From: "Jonathan Culley" <jonathan@redfernproperties.com>
To: "'Barbara Barhydt'" <BAB@portlandmaine.gov>
Date: 2/14/2011 3:55 PM
Subject: 127 York Street, new decks
CC: "'Marge Schmuckal'" <MES@portlandmaine.gov>

Barbara,

We are renovating the existing building at 127 York St (in advance of the new development at 121 York). We have applied for a building permit for the renovations, which include two new exterior decks to the rear of the building. Marge just informed me that these will require Planning review. Can you please advise as to what type of review is required and what I can do to begin the process.

Thank you for any assistance!

Jonathan Culley
Redfern Homes LLC | Redfern Properties LLC
Cell: 207-776-9715
Office: 207-221-5746
Fax: 207-221-2822
jonathan@redfernproperties.com
www.redfernhomes.com
www.redfernproperties.com

$8' \times 10' = 80^\# \times 6 =$
(2 series of 3
Story Deck)

480[#] total



P.O. Box 8816
Portland, ME 04104
Office: 207-221-5746
Fax: 207-221-2822
www.redfernproperties.com

February 9, 2011

City of Portland
Planning and Development Department
Inspections Division
389 Congress Street
Room 315
Portland, ME 04101

Dear Inspections Division:

Please find attached a Building Permit Application for interior renovations as well as new exterior decks at 127 York Street. Per the notes on the attached architects drawings, we intend to install an NFPA-13R Automatic Sprinkler System in the building and a new NFPA rated fire alarm system. Ben Wallace of the Portland Fire Department has visited the building and has given us guidance on the sprinkler system and the fire alarm system requirements. The sprinkler and fire alarm systems will be permitted separately by our respective sub-contractors.

Our plumbing, heating, and electrical sub-contractors will also be pulling separate permits. Our electrician has been consulting with Brian Laflamme of your office on the scope of electrical renovations.

Finally, we would like to begin work as soon as possible. In particular we would like to remove ceilings to facilitate sprinkler system installation. If you are able to issue a demolition permit in advance of the building permit, this would be very helpful.

Please do not hesitate to contact us with questions, comments, or to request additional information. Thank you for your consideration of this application.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jonathan Culley", is written over a light blue circular stamp.

Jonathan Culley



Administrative Authorization Application

Portland, Maine
Planning and Urban Development Department, Planning Division

PROJECT NAME: 127 York Street, New Exterior Decks

PROJECT ADDRESS: 127 York Street, Portland **CHART/BLOCK/LOT:** 44-A-5

APPLICATION FEE: Attached (\$50.00)

PROJECT DESCRIPTION: (Please Attach Sketch/Plan of the Proposal/Development)

RECEIVED

CONTACT INFORMATION:

MAR - 3 2011

OWNER/APPLICANT

CONSULTANT/AGENT

Name: Harborview Development LLC
Address: c/o Jonathan Culley
 P.O. Box 8816, Portland, ME 04104
Work #: 207-221-5746
Cell #: 207-776-9715
Fax #: 207-221-2822
Home #:
E-mail: jonathan@redfernproperties.com

Name: _____
Address: _____

Work #: _____
Cell #: _____
Fax #: _____
Home #: _____
E-mail: _____



Dept. of Building Inspections
City of Portland Maine

Criteria for an Administrative Authorizations:
(see section 14-523(4) on pg .2 of this appl.)

- a) Is the proposal within existing structures?
- b) Are there any new buildings, additions, or demolitions?
- c) Is the footprint increase less than 500 sq. ft.?
- d) Are there any new curb cuts, driveways or parking areas?
- e) Are the curbs and sidewalks in sound condition?
- f) Do the curbs and sidewalks comply with ADA?
- g) Is there any additional parking?
- h) Is there an increase in traffic?
- i) Are there any known stormwater problems?
- j) Does sufficient property screening exist?
- k) Are there adequate utilities?
- l) Are there any zoning violations?
- m) Is an emergency generator located to minimize noise?
- n) Are there any noise, vibration, glare, fumes or other impacts?

Applicant's Assessment Planning Division
Y(yes), N(no), N/A

<u>NO</u>	<u>No</u>
<u>NEW DECKS</u>	<u>Yes</u>
<u>YES ~ 160sf</u>	<u>Yes - 6 decks 500 sq ft 2480 Total</u>
<u>NO</u>	<u>N</u>
<u>N/A</u>	<u>Y</u>
<u>N/A</u>	<u>Y</u>
<u>N/A</u>	<u>N</u>
<u>NO</u>	<u>N</u>
<u>NO</u>	<u>N</u>
<u>YES</u>	<u>Y</u>
<u>YES</u>	<u>Y</u>
<u>NO</u>	<u>N</u>
<u>N/A</u>	<u>N/A</u>
<u>NO</u>	<u>N/A</u>

Signature of Applicant: 	Date: 2/17/2011
Planning Division Use Only Authorization Granted <input checked="" type="checkbox"/> Partial Exemption <input type="checkbox"/> Exemption Denied <input type="checkbox"/> <i>with standard conditions</i>	
Standard Condition of Approval: The applicant shall obtain all required City Permits, including building permits from the Inspection Division (Room 315, City Hall (874-8703)) prior to the start of any construction.	
Planner's Signature: 	Date: 2/23/11

IMPORTANT NOTICE TO APPLICANT: The granting of an Administrative Authorization to exempt a development from site plan review does not exempt this proposal from other approvals or permits, nor is it an authorization for construction. You should first check with the Building Inspections Office, Room 315, City Hall (207)874-8703, to determine what other City permits, such as a building permit, will be required.

**PROVISION OF PORTLAND CITY CODE
 14-523 (SITE PLAN ORDINANCE)
 RE: Administrative Authorization**

Sec. 14-523 (b). Applicability

No person shall undertake any development identified in Section 14-523 without obtaining a site plan improvement permit under this article. (c) Administrative Authorization. Administrative Authorization means the Planning Authority may grant administrative authorization to exempt a development proposal from complete or partial site plan review that meets the standards below, as demonstrated by the applicant.

1. The proposed development will be located within existing structures, and there will be no new buildings, demolitions, or building additions other than those permitted by subsection b of this section;
2. Any building addition shall have a new building footprint expansion of less than five hundred (500) square feet;
3. The proposed site plan does not add any new curb cuts, driveways, or parking areas; the existing site has no more than one (1) curb cut and will not disrupt the circulation flows and parking on-site; and there will be no drive-through services provided;
4. The curbs and sidewalks adjacent to the lot are complete and in sound condition, as determined by the public works authority, with granite curb with at least four (4) inch reveal, and sidewalks are in good repair with uniform material and level surface and meet accessibility requirements of the Americans with Disabilities Act;
5. The use does not require additional or reduce existing parking, either on or off the site, and the project does not significantly increase traffic generation;
6. There are no known stormwater impacts from the proposed use or any existing deficient conditions of stormwater management on the site;
7. There are no evident deficiencies in existing screening from adjoining properties; and
8. Existing utility connections are adequate to serve the proposed development and there will be no disturbance to or improvements within the public right-of-way
9. There are no current zoning violations;
10. Any emergency generators are to be located to minimize noise impacts to adjoining properties and documentation that routine testing of the generators occur on weekdays between the hours of 9 a.m. to 5 p.m. Documentation pertaining to the noise impacts of the emergency generator shall be submitted; and
11. There is no anticipated noise, vibration, glare, fumes or other foreseeable impacts associated with the project.

- a. **Filing the Application.** An applicant seeking an administrative authorization under this subsection shall submit an administrative authorization application for review, detailing the site plan with dimensions of proposed improvements and distances from all property lines, and stating that the proposal meets all of the provisions in standards 1-11 of Section 14-423 (b)1 **The application must be accompanied by an application fee of \$50.**
- b. **Review.** Upon receipt of such a complete application, the Planning Authority will process it and render a written decision of approval, approval with conditions or denial, with all associated findings.
- c. **Decision.** If a full administrative authorization is granted, the application shall be approved without further review under this article, and no performance guarantee shall be required. In the event that the Planning Authority determines that standards a and b of Section 14-523 (b) (1) and at least four (4) of the remaining standards have been met, the Planning Authority shall review the site plan according to all applicable review standards of Section 14-526 that are affected by the standards in this subsection that have not been met. If an exemption or partial exemption from site plan review is not granted, the applicant must submit a site plan application that will undergo a

LAUNDRY

WM3455HW WM3455HS

Front Load Compact Washer/Dryer Combo



CAPACITY

Capacity* IEC 2.7 cu.ft.

APPEARANCE

Design Look Front Control

Intelligent Electronic Controls with LED Display
Dial-A-Cycle™

-
-

ENERGY

Energy Star Compliant

-

WASH/DRY PROGRAMS

9 Wash Cycles Cotton/Normal, Perm. Press, Delicates, Hand Wash/Wool, Drain & Spin, Baby Wear, Speed Wash, Sanitary, Bulky/Large

6 Dry Cycles Speed Dry, Sanitary, Cotton/Normal, Perm. Press, Baby Wear, Drain & Spin

5 Wash/Rinse Temps Extra Hot/Cold, Hot/Cold, Warm/Warm, Warm/Cold, Cold/Cold

Spin Speeds Extra High (1300 max), High, Medium, Low, No Spin

No. of Water Levels Automatically adjusts to size of load

9 Options Prewash, Extra Rinse, Stain Cycle, Rinse & Spin, Water Plus, Tub Clean, Delay Wash (up to 19 hours), Child Lock, Custom Program

FABRIC CARE FEATURES

Ventless Condensing Drying System

-

SenseClean™ System

-

Sensor Dry

-

CONVENIENCE FEATURES

3 Tray Dispenser Prewash, Main Wash, Softener

-

LoDecibel™ Quiet Operation

-

End of Cycle Beeper

-

Child Lock

-

Auto Suds Removal

-

Forced Drain System

-

Status Indicator(s)

-

Internal Water Heater (1000W)

-

Leveling Legs

4 Adjustable Legs

MOTOR AND AGITATOR

Motor Type Direct Drive Motor

Motor Speed Variable

Axis Horizontal

MATERIALS AND FINISHES

NeveRust™ Stainless Steel Drum

-

Cabinet

Painted Steel

Control Panel

Plastic

Top Plate

LPM Board

Transparent Door Glass

-

Door Rim

Chrome

Available Colors

White (W), Silver (S)

POWER SOURCE

Ratings CSA Listed

Electrical Requirements / Type 120V, 12 Amps / Electric

DIMENSIONS

Product (WxHxD) 24" x 33 1/2" x 25 1/4"

(45"D with door open)

Carton (WxHxD) 26" x 35 3/4" x 27 3/4"

Weight: Product / Shipping 159 lbs. / 168 lbs.

WARRANTY

1 Year Parts and Labor,

10 Years Motor, Lifetime on Drum

UPC CODES

WM3455HW Combo Washer & Dryer – White 048231 010818

WM3455HS Combo Washer & Dryer – Silver 048231 011327



Control Panel



www.LG.com

LG Electronics U.S.A., Inc.

1000 Sylvan Avenue Englewood Cliffs, NJ 07632

Customer Service and Technical Support: (800) 243-0000

Dimensions and weights are approximate. Design, features and specifications subject to change without notice.

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LAUNDRY

WM3455HW WM3455HS

Front Load Compact Washer/Dryer Combo

HIGHLIGHTS

Ventless Condensing Dryer
SenseClean™
LoDecibel™ Quiet Operation



FEATURES

- 2.7 cu.ft. Capacity (IEC)
- Direct Drive Motor (10 year Warranty)
- 1300 RPM
- LoDecibel™ Quiet Operation
- Highly Energy and Water Efficient
- SenseClean™
- 9 Washing Cycles
- 6 Drying Cycles
- 5 Temperature Levels
- Sanitary Cycle
- Delay Wash (up to 19 hours)
- Upfront Electronic Control Panel with LED Display and Dial-A-Cycle™
- Chrome Rimmed Door with Glass
- Ventless Condensing Drying System



IS IT A WASHER? OR SOMETHING BETTER?

LG's all-in-one washer and dryer combo does it all in just one machine. It's great for those who want to be able to do laundry at home but do not have an external venting source which conventional dryers require. Perfect for homes, apartments, businesses and vacation homes where space is valuable.

Available colors:

White

Silver

4/20/11 See Structural Eng. spec for wall opening

4-25-11 Close in day for 109 York until, 2, 3 only

with sprinkler system
Spoke with Capt. Grobman along to use 20ma doors
WPA

SITE LOCATION MAP:



SOURCE: MAPQUEST.COM

MAGNETIC NORTH 2005



PRELIMINARY

GENERAL NOTES:

1. RECORD OWNER OF PARCEL: HARBORVIEW APARTMENTS LLC BOOK 27577 PAGE 165 AS RECORDED IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS (C.C.R.D.).
2. BEARINGS ARE BASED UPON A MAGNETIC OBSERVATION TAKEN AT THE TIME OF THIS SURVEY, UTILIZING THE FOLLOWING EQUIPMENT:
LIETZ SDRKISHA SET 4 TOTAL STATION, LIETZ SDR 33 DATA COLLECTOR, HAND-HELD MAGNETIC COMPASS.
3. AREA OF SUBJECT PARCELS: LOT 044-A-004= 14,117 SQ. FT., LOT 044-A-005=7122 SQUARE FEET.
4. REFERENCE IS MADE TO THE FOLLOWING PLANS:
a.) CITY OF PORTLAND TAX MAP 44, SUBJECT LOTS SHOWN AS BLOCK A. LOTS 004 AND 005.
5. THERE WERE APPARENT EASEMENTS OR RESTRICTIONS BURDENING OR BENEFITING SUBJECT PROPERTY AT THE TIME OF THIS SURVEY:
a.) A SEWER EASEMENT BENEFITING THE PARCEL IDENTIFIED AS BELONGING TO BETHANY R. CARY AS DESCRIBED IN DEED BOOK 22276, PAGE 211.

ZONING:

R-6 RESIDENTIAL ZONE:
MINIMUM LOT SIZE: 4500 SQUARE FEET
MINIMUM STREET FRONTAGE: 40 FEET
FRONT YARD SETBACK: 10 FEET
REAR YARD SETBACK: 20 FEET
SIDE YARD SETBACK: 10 FEET
MINIMUM LOT WIDTH: 50 FEET
MAXIMUM HEIGHT: 45 FEET

FLOOD NOTE:

BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS IN ZONE C OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 230051 138, WHICH BEARS AN EFFECTIVE DATE OF JULY 17, 1986 AND IS NOT IN A SPECIAL FLOOD HAZARD AREA.

LEGEND:

CRS ● Capped 5/8" Rebor Set With # 2303.	(50.00') Distance from reference Plan or deed.
IPF ○ Iron Pipe Found	N/F Now Or Formerly
MONF □ Monument Found	12345/99 Deed Book/Page of Local Registry
△ High Water Survey Point	① Plot Number (Ref 4a)
• Bolt Found	— Edge of traveled way
— Abutter Line	— E — Overhead Utility
— Property Line	— Utility Pole
— Street Line	Z Indicates Ownership in Common
— Setback Line	
— Old Lot Line	

BOUNDARY SURVEY/SITE PLAN
AT 121 YORK STREET, PORTLAND, MAINE
FOR: **RED FERN PROPERTIES LLC**

REVISIONS:

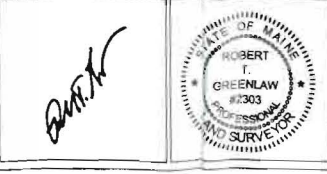
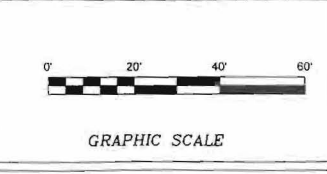
STATE OF MAINE, CUMBERLAND SS REGISTRY OF DEEDS
RECEIVED 2011
AT : H M. AND RECORDED IN
PLAN BOOK PAGE
REVISION 01-09-2011: ADDED PROPOSED DECKS
LOCATION: 121-125 YORK STREET PORTLAND, MAINE

STATE OF MAINE, CUMBERLAND SS
REGISTRY OF DEEDS

RECEIVED 2011

AT : H M. AND RECORDED IN

PLAN BOOK PAGE



CERTIFICATE:

I HEREBY CERTIFY THAT THIS SURVEY CONFORMS TO THE MAINE BOARD OF LICENSURE FOR PROFESSIONAL LAND SURVEYORS' STANDARDS OF PRACTICE AS ADOPTED APRIL 01, 2001 WITH THE FOLLOWING EXCEPTIONS:

a) NO WRITTEN REPORT
b) NO NEW DESCRIPTION

ROBERT T. GREENLAW P.L.S., #2303
V. PRESIDENT BACK BAY BOUNDARY, INC. DATE: JANUARY 09, 2011

PREPARED BY:
ROBERT T. GREENLAW PLS
LAND SURVEYING
134 PORTLAND AVE
OLD ORCHARD BEACH MAINE
BOBGREENLAW@MYAIRPOINT.NET
207-749-9471

DRAWN BY: RJM
CHECKED BY: DWD
SCALE: 1" = 20'
DATE OF SURVEY: 10/20/2010
JOB NUMBER: 121 YORK ST
SHEET: 1 OF 1
DRAWER: 2005 NO: 002

SITE LOCATION MAP:



SOURCE: MAPQUEST.COM



PRELIMINARY

GENERAL NOTES:

- RECORD OWNER OF PARCEL, HARBORVIEW APARTMENTS LLC BOOK 27577 PAGE 165 AS RECORDED IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS (C.C.R.D.).
- BEARINGS ARE BASED UPON A MAGNETIC OBSERVATION TAKEN AT THE TIME OF THIS SURVEY, UTILIZING THE FOLLOWING EQUIPMENT:
LEITZ SOKKISHA SET 4 TOTAL STATION, LEITZ SGR 33 DATA COLLECTOR, HAND-HELD MAGNETIC COMPASS
- AREA OF SUBJECT PARCELS: LOT 044-A-004= 14,117 SQ. FT., LOT 044-A-005=7122 SQUARE FEET
- REFERENCE IS MADE TO THE FOLLOWING PLANS:
a.) CITY OF PORTLAND TAX MAP 44, SUBJECT LOTS SHOWN AS BLOCK A, LOTS 004 AND 005.
- THERE WERE APPARENT EASEMENTS OR RESTRICTIONS BURDENING OR BENEFITING SUBJECT PROPERTY AT THE TIME OF THIS SURVEY:
a.) A SEWER EASEMENT BENEFITING THE PARCEL IDENTIFIED AS BELONGING TO BETHANY R. CARY AS DESCRIBED IN DEED BOOK 22276, PAGE 211.

ZONING:

R-6 RESIDENTIAL ZONE:
MINIMUM LOT SIZE: 4500 SQUARE FEET
MINIMUM STREET FRONTAGE: 40 FEET
FRONT YARD SETBACK: 10 FEET
REAR YARD SETBACK: 20 FEET
SIDE YARD SETBACK: 10 FEET
MINIMUM LOT WIDTH: 50 FEET
MAXIMUM HEIGHT: 45 FEET

FLOOD NOTE:

BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS IN ZONE C OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 230051-13B, WHICH BEARS AN EFFECTIVE DATE OF JULY 17, 1986 AND IS NOT IN A SPECIAL FLOOD HAZARD AREA.

LEGEND:

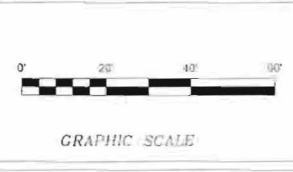
CRS	Capped 5/8" Rebar Set With # 2303	(5000') Distance from reference Point or diest
IFP	Iron Pipe Found	N/F Not Formerly
MONF	Monument Found	12345/99 Deed Book/Page of Local Registry
△	High Water Survey Point	⊙ Plot Number (Ref 4a)
●	Ball Found	— Edge of traveled way
—	Abutter Line	— Overhead Utility
—	Property Line	— Utility Pole
—	Street Line	Z Indicates Demeritis in Common
—	Setback Line	
—	Old Lot Line	

BOUNDARY SURVEY/SITE PLAN
AT 121 YORK STREET, PORTLAND, MAINE
FOR: RED FERN PROPERTIES LLC

REVISIONS:

STATE OF MAINE, CUMBERLAND SS REGISTRY OF DEEDS	RECEIVED _____ 2011
AT _____ H _____ M AND RECORDED IN PLAN BOOK _____ PAGE _____	
RE-REVISED 01-29-2011; ADDED PROPOSED DECKS	
LOCATION: 121-125 YORK STREET PORTLAND, MAINE	

STATE OF MAINE, CUMBERLAND SS
REGISTRY OF DEEDS

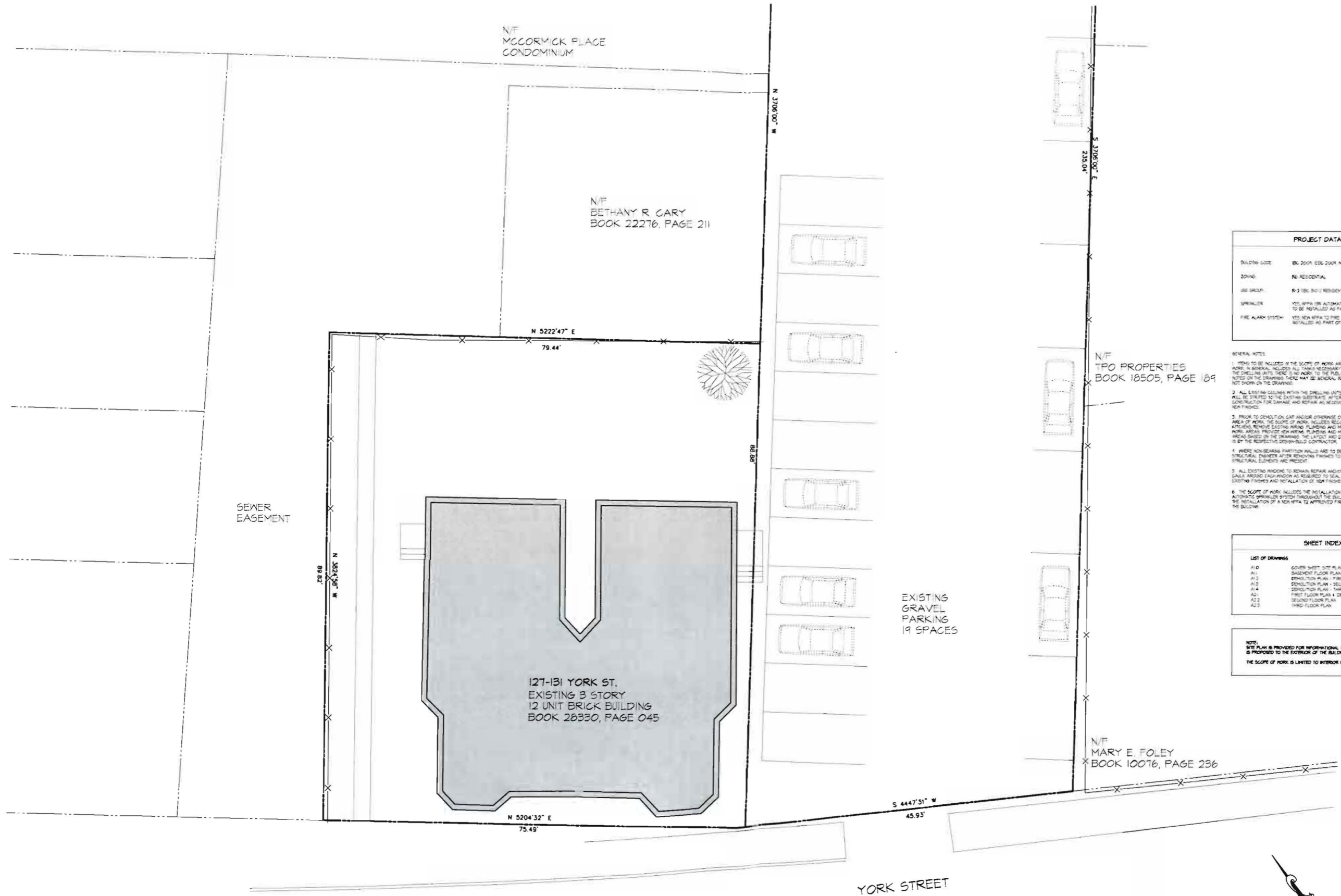


CERTIFICATE:

I HEREBY CERTIFY THAT THIS SURVEY CONFORMS TO THE MAINE BOARD OF LICENSURE FOR PROFESSIONAL LAND SURVEYORS' STANDARDS OF PRACTICE AS ADOPTED APRIL 01, 2001 WITH THE FOLLOWING EXCEPTIONS:
a) NO WRITTEN REPORT
b) NO NEW DESCRIPTION
ROBERT T. GREENLAW PLS., #2303
V. PRESIDENT BAIK BAY BOUNDARY, INC. (DATE: JANUARY 09, 2011)

PREPARED BY:
ROBERT T. GREENLAW PLS
LAND SURVEYING
134 PORTLAND AVE
OLD ORCHARD BEACH MAINE
ROBGREENLAW@YIPPOINT.NET
207-749-3471

DRAWN BY: RJM
CHECKED BY: DMJ
SCALE: 1" = 20'
DATE OF SURVEY: 10/28/2010
JOB NUMBER: 121 YORK ST
SHEET: 1 OF 1
DRAWER: 2005 NO. 002



N/F MCCORMICK PLACE CONDOMINIUM

N/F BETHANY R. CARY BOOK 22276, PAGE 211

N 5222'47" E
79.44'

127-131 YORK ST.
EXISTING 3 STORY
12 UNIT BRICK BUILDING
BOOK 28330, PAGE 045

N 5204'32" E
75.49'

S 4447'31" W
45.93'

EXISTING GRAVEL PARKING
19 SPACES

N/F TPO PROPERTIES BOOK 18505, PAGE 189

N/F MARY E. FOLEY BOOK 10076, PAGE 236

SEWER EASEMENT

PROJECT DATA	
BUILDING CODE:	BC 2009, ESC 2009, NFA 10 LIFE SAFETY CODE 2008
ZONING:	R-2 RESIDENTIAL
USE GROUP:	R-2 (BC 301) RESIDENTIAL USE
SPRINKLER:	YES, NFA OR AUTOMATIC SPRINKLER SYSTEM TO BE INSTALLED AS PART OF WORK
FIRE ALARM SYSTEM:	YES, NFA NFA TO FIRE ALARM SYSTEM TO BE INSTALLED AS PART OF WORK

- GENERAL NOTES:
1. ITEMS TO BE INCLUDED IN THE SCOPE OF WORK AND SHOWN ON THE DRAWINGS, THE WORK, IN GENERAL, INCLUDES ALL TASKS NECESSARY TO REPAIR AND/OR RENOVATE THE EXISTING BUILDING. THERE IS NO WORK TO BE DONE IN THE PUBLIC AREAS OR ADJACENT AREAS. NOTES ON THE DRAWINGS THAT MAY BE SUBJECT TO REPAIR ITEMS IN COMMON AREAS NOT SHOWN ON THE DRAWINGS.
 2. ALL EXISTING COLLARS WITHIN THE DRILLING UNITS AS WELL AS THE COMMON AREAS WILL BE STRIPPED TO THE EXISTING SUBSTRATE AFTER REMOVING FINISHES. PROTECT EXISTING CONSTRUCTION FOR DAMAGE AND REPAIR AS NECESSARY PRIOR TO INSTALLATION OF NEW FINISHES.
 3. PRIOR TO DEMOLITION, LEAK AND/OR OTHER DISSEMINATION ALL UTILITIES TO THE AREA OF WORK. THE SCOPE OF WORK INCLUDES RECONFIGURATION OF BATHS AND KITCHENS, REMOVE EXISTING PAVING, PLUMBING AND MECHANICAL SYSTEMS WITHIN THESE WORK AREAS. PROVIDE NEW PAVING, PLUMBING AND MECHANICAL SYSTEMS IN THESE AREAS BASED ON THE DRAWINGS, THE LAYOUT AND DESIGN FOR THE ITEMS LISTED ABOVE IS BY THE RESPECTIVE SUBCONTRACTOR.
 4. WHERE NON-BEARING PARTITION WALLS ARE TO BE REMOVED CONSULT WITH STRUCTURAL ENGINEER AFTER REMOVING FINISHES TO VERIFY THAT NO ADDITIONAL STRUCTURAL ELEMENTS ARE PRESENT.
 5. ALL EXISTING FINISHES TO REMAIN, REPAIR AND/OR REPLACE SHALL AS REQUIRED. CALLS AROUND EACH FINISH AS REQUIRED TO SEAL AIR LEAKS AFTER THE REMOVAL, EXISTING FINISHES AND INSTALLATION OF NEW FINISHES.
 6. THE SCOPE OF WORK INCLUDES THE INSTALLATION OF A NEW NFA OR APPROVED AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE BUILDING. ALSO INCLUDES THE INSTALLATION OF A NEW NFA OR APPROVED FIRE ALARM SYSTEM THROUGHOUT THE BUILDING.

SHEET INDEX	
LIST OF DRAWINGS	
A1.0	COVER SHEET, SITE PLAN & GENERAL NOTES
A1.1	DEMOLITION PLAN - FIRST FLOOR
A1.2	DEMOLITION PLAN - SECOND FLOOR
A1.3	DEMOLITION PLAN - THIRD FLOOR
A1.4	FIRST FLOOR PLAN & DETAILS
A1.5	SECOND FLOOR PLAN
A1.6	THIRD FLOOR PLAN

NOTE:
SITE PLAN IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. NO WORK IS PROPOSED TO THE EXTERIOR OF THE BUILDING OR TO THE SITE.
THE SCOPE OF WORK IS LIMITED TO INTERIOR RENOVATION ONLY.

KBA
kevin brownie
ARCHITECTURE
207, 847, 3489
kevin@kevinbrownie
architecture.com
335 main street s.s. 5
yarmouth, me 04096

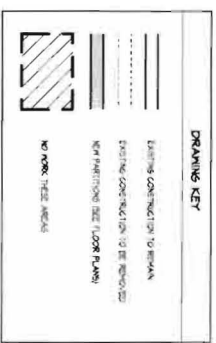
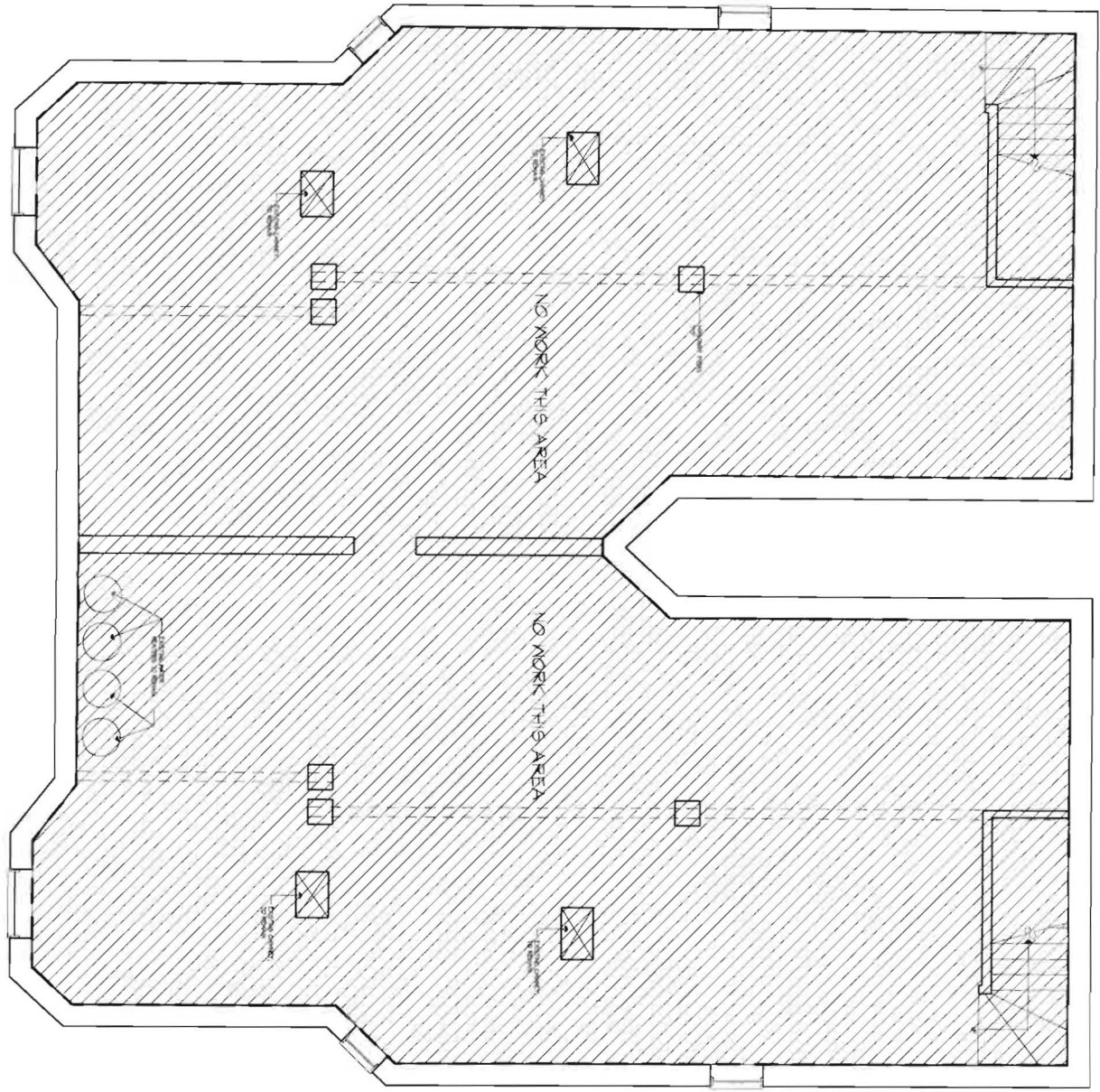
REVISIONS:
28-11 PERMIT SET

CONSULTANTS:

127 YORK STREET
INTERIOR RENOVATIONS
CLIENT: REDHEM PROPERTIES LLC
ADDRESS: 127 YORK STREET
PORTLAND, ME 04101

COVER SHEET
DATE: 28-11
PROJECT NO.: 2011-02
DRAWN: KVB
SCALE: 1/8" = 1'-0"

A1.0



CONTRACTOR SHALL REASURE AND VERIFY ALL DIMENSIONS AT THE WORK.
THE DRAWING IS A PART OF A FULL SET OF DRAWINGS. CONSULT THE CONTRACT DOCUMENTS FOR THE WORK OF THIS PROJECT. THE ARCHITECT/OWNER ACCEPTS NO RESPONSIBILITY FOR THE DESIGN AND SPECIFICATIONS.
COPYRIGHT 2011 © KBA & KEVIN BROWNE ARCHITECTS, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF Kevin Browne Architects, Inc. OR KEVIN BROWNE ARCHITECTURE.

A1.1

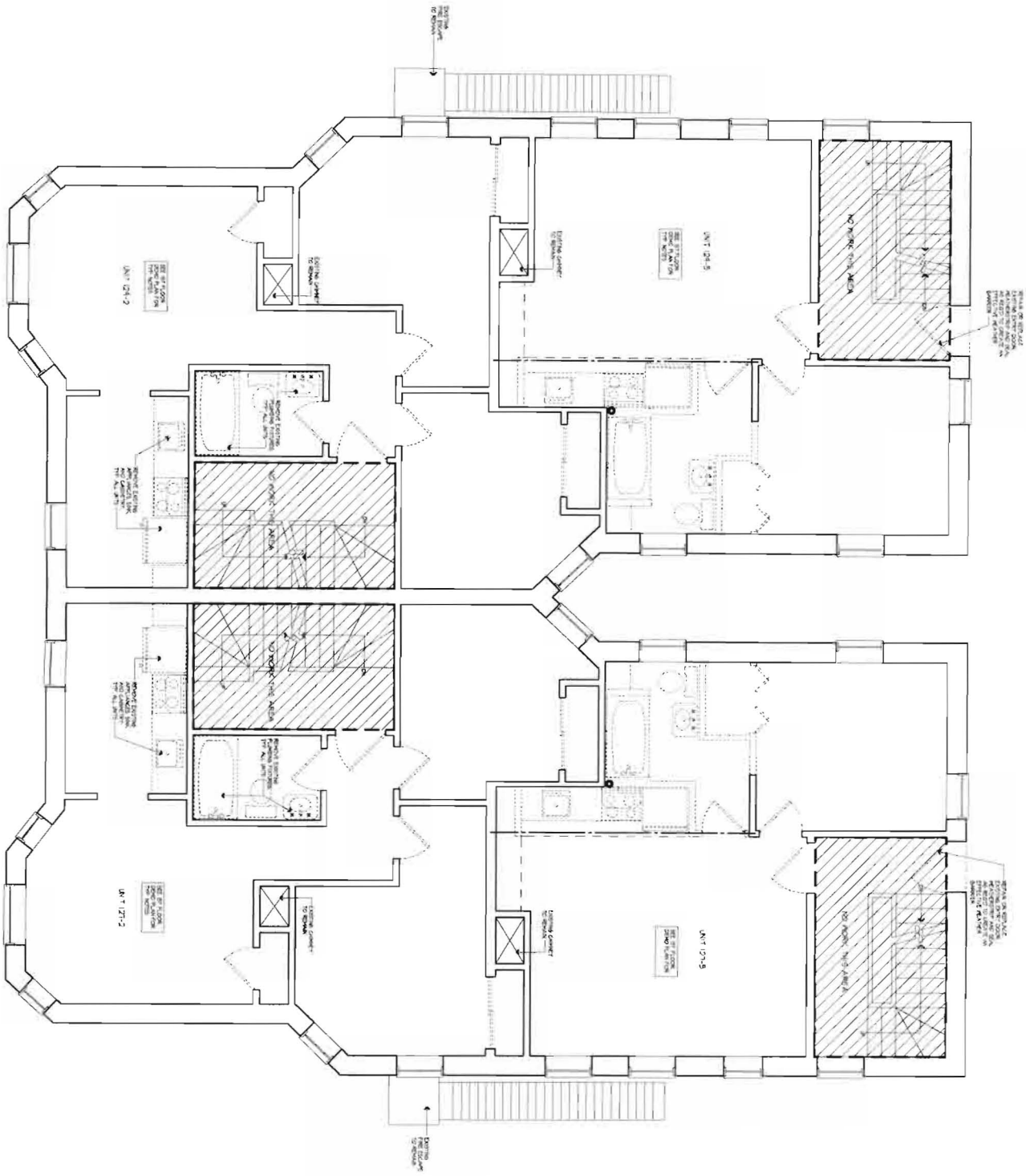
BASEMENT FLOOR PLAN
DATE: 2-8-11
PROJECT NO.: 2011-02
DRAWN: KWB
SCALE: 1/4" = 1'-0"

127 YORK STREET
INTERIOR RENOVATIONS
ADDRESS:
127 YORK STREET
PORTLAND, ME 04101
CLIENT:
REDFERN PROPERTIES LLC

CONSULTANTS:

REVISIONS
2-8-11 PERMIT SET

KBA kevin browne ARCHITECTURE
325 main street ste. 6
yarmouth, me 04096
207 . 847 . 3499
kevin@kevinbrowne
architecture.com



DRAWING KEY

	EXISTING CONSTRUCTION TO REMAIN
	EXISTING CONSTRUCTION TO BE REMOVED
	NEW PARTITIONS (SEE FLOOR PLANS)
	WORK NEED AREAS

NOTE: ALL WORK SHALL BE IN ACCORDANCE WITH THE 2011 INTERNATIONAL BUILDING CODE (IBC) AND ALL APPLICABLE LOCAL ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT PROPERTIES AND PUBLIC AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL HISTORIC AND CULTURAL RESOURCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ENVIRONMENTAL RESOURCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ARCHITECTURAL AND ARTISTIC FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL LANDSCAPE AND PLANTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND SERVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL STRUCTURAL AND MECHANICAL SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ELECTRICAL AND COMMUNICATIONS SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL FIRE AND LIFE SAFETY SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ACCESSIBILITY FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SECURITY FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SPECIAL FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL OTHER FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL OTHER FEATURES.

CONTRACTOR SHALL PROTECT AND VERIFY ALL DIMENSIONS AT THE WORK.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT PROPERTIES AND PUBLIC AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL HISTORIC AND CULTURAL RESOURCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ENVIRONMENTAL RESOURCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ARCHITECTURAL AND ARTISTIC FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL LANDSCAPE AND PLANTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES AND SERVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL STRUCTURAL AND MECHANICAL SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ELECTRICAL AND COMMUNICATIONS SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL FIRE AND LIFE SAFETY SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ACCESSIBILITY FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SECURITY FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SPECIAL FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL OTHER FEATURES.

A1.3

**DEMOLITION PLAN
SECOND FLOOR**
DATE: 2-8-11 DRAWN: KWB
PROJECT NO.: 2011-02 SCALE: 1/4" = 1'-0"

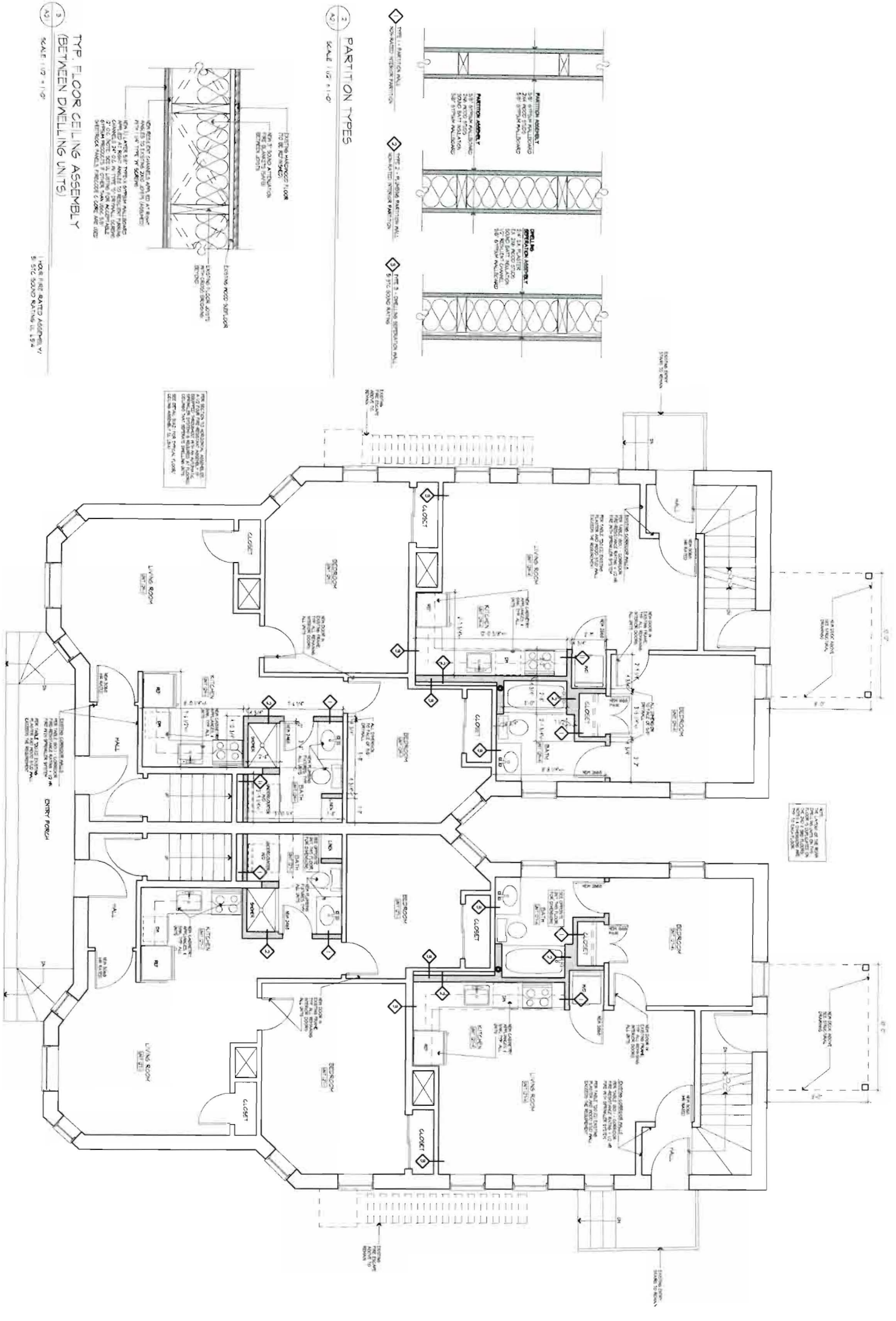
127 YORK STREET
INTERIOR RENOVATIONS
ADDRESS: 127 YORK STREET
PORTLAND, ME 04101
CLIENT: REDFERN PROPERTIES LLC

CONSULTANTS:

REVISIONS:
2-8-11 PERMIT SET

KBA kevin browne ARCHITECTURE
325 main street ste. 6
yarmouth, me 04096
207 . 847 . 3499
kevin@kevinbrowne
architecture.com

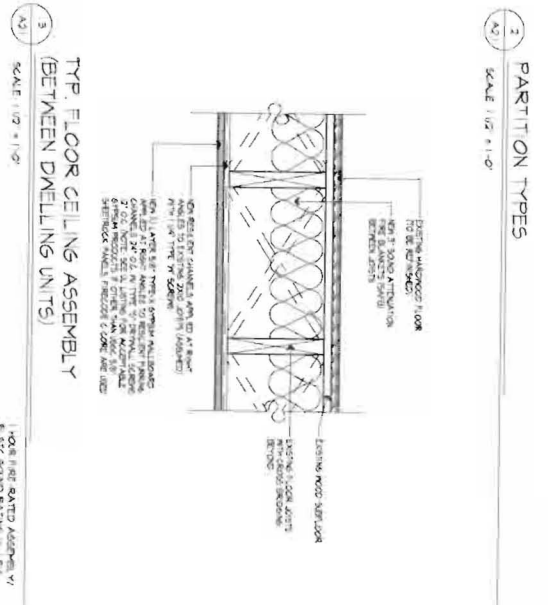
1 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



DRAWING KEY

	EXISTING CONSTRUCTION TO REMAIN
	NEW PARTITION SEE FLOOR PLAN

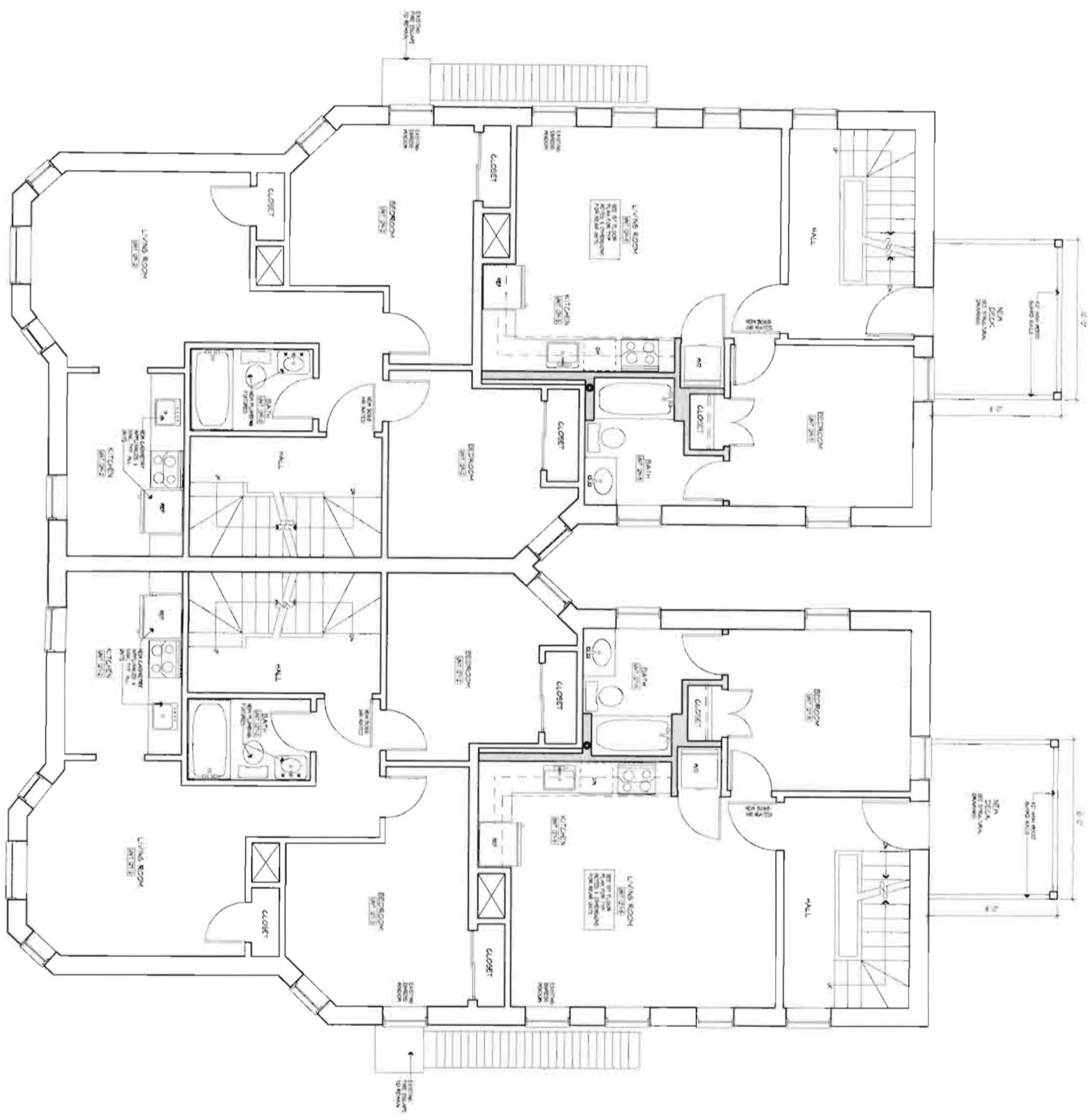
NOTES:
1. ALL INTERIOR DOORS AND ALL EXISTING DOORS SHALL MATCH THE
2. ALL NEW DOORS SHALL BE 1 3/4" MIN. THICKNESS
3. ALL NEW DOORS SHALL BE 1 3/4" MIN. THICKNESS
4. ALL NEW DOORS SHALL BE 1 3/4" MIN. THICKNESS
5. ALL NEW DOORS SHALL BE 1 3/4" MIN. THICKNESS



CONTRACTOR SHALL REPAIR AND VERIFY ALL DIMENSIONS AT THE WORK.
THE DRAWING IS A PART OF A SET OF CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS AT THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

<p>A2.1</p>	<p>FIRST FLOOR PLAN</p> <p>DATE: 2-8-11 DRAWN: KWB PROJECT NO.: 2011-02 SCALE: 1/4" = 1'-0"</p>	<p>127 YORK STREET INTERIOR RENOVATIONS</p> <p>ADDRESS: 127 YORK STREET PORTLAND, ME 04101</p> <p>CLIENT: REFERN PROPERTIES LLC</p>	<p>CONSULTANTS:</p>	<p>REVISIONS: 2-8-11 PERMIT SET</p>	<p>KBA kevin browne ARCHITECTURE</p> <p>207 . 847 . 3499 kevin@kevinbrowne architecture.com</p> <p>325 main street ste. 6 yarmouth, me 04096</p>
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SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"



DRAWING KEY

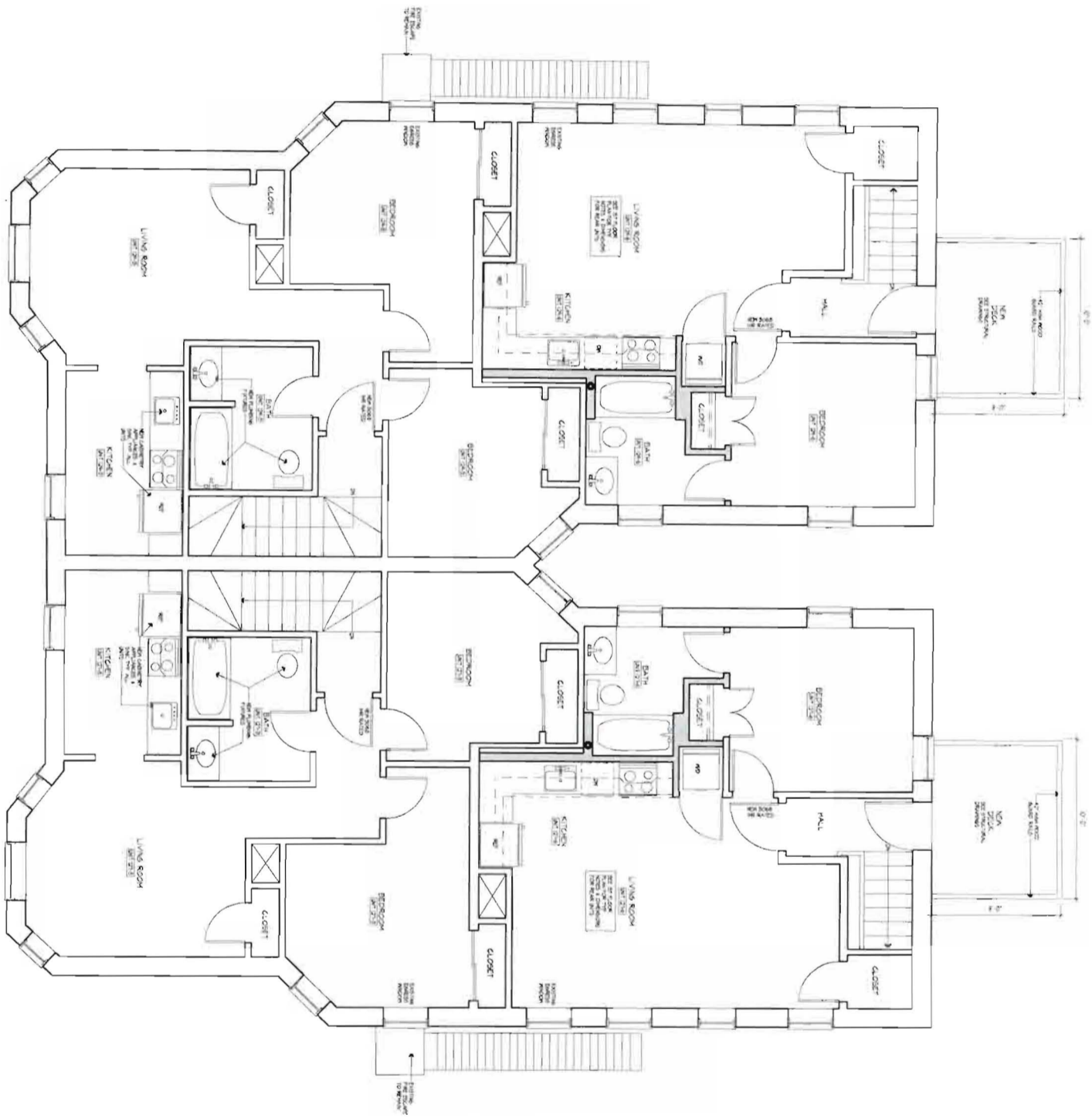
	EXISTING CONSTRUCTION TO REMAIN
	NEW CONSTRUCTION
	REMOVE EXISTING

NOTE: ALL INTERIOR DOORS WILL BE EXISTING UNLESS NOTED OTHERWISE. ALL NEW DOORS WILL BE 1 3/4" x 6'6" x 2 1/2" SCHEDULE 40 STEEL FRAME WITH 1 3/4" x 6'6" x 2 1/2" SCHEDULE 40 STEEL CASE. ALL NEW DOORS WILL BE 1 3/4" x 6'6" x 2 1/2" SCHEDULE 40 STEEL FRAME WITH 1 3/4" x 6'6" x 2 1/2" SCHEDULE 40 STEEL CASE. ALL NEW DOORS WILL BE 1 3/4" x 6'6" x 2 1/2" SCHEDULE 40 STEEL FRAME WITH 1 3/4" x 6'6" x 2 1/2" SCHEDULE 40 STEEL CASE.

CONTRACTOR SHALL REASSEMBLE AND VERIFY ALL DIMENSIONS AT THE WORK.
THE DRAWING IS A PART OF A SET OF CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS SHALL BE USED TO DETERMINE THE SCOPE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AT THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AT THE WORK.

A2.2	<p>SECOND FLOOR PLAN</p> <p>DATE: 2-8-11 DRAWN: KWR PROJECT NO.: 2011-02 SCALE: 1/4" = 1'-0"</p>	<p>127 YORK STREET INTERIOR RENOVATIONS</p> <p>ADDRESS: 127 YORK STREET PORTLAND, ME 04101</p> <p>CLIENT: REFERN PROPERTIES LLC</p>	CONSULTANTS:	<p>REVISIONS: 2-8-11 PERMIT SET</p>	<p>kevin browne ARCHITECTURE 207.847.3499 kevin@kevinbrownearchitecture.com 325 main street ste. 6 yarmouth, me 04096</p>
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THIRD FLOOR PLAN
SCALE: 1/8" = 1'-0"



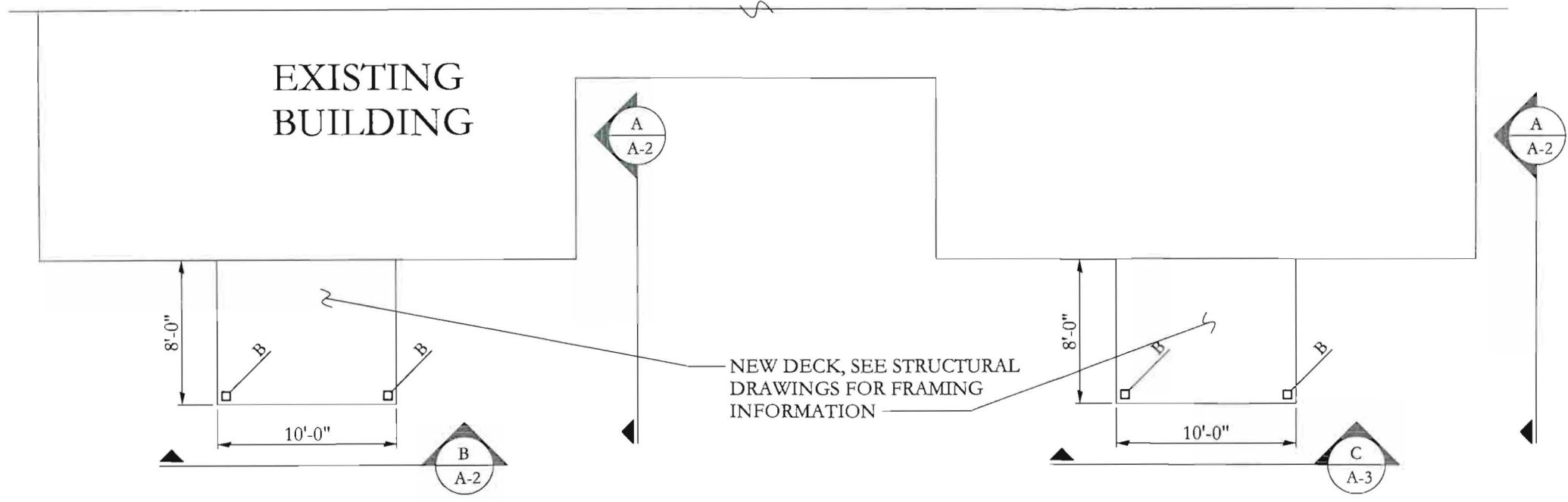
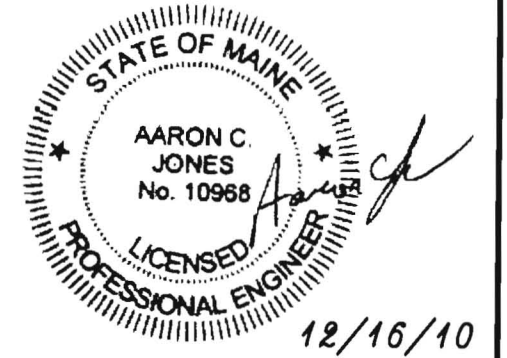
DRAWING KEY	
	EXISTING CONSTRUCTION TO REMAIN
	NEW CONSTRUCTION SEE FLOOR PLANS

NOTES:
ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE BOOK, WITH THE EXCEPTIONS NOTED ON THE DRAWINGS.
ALL NEW WORK SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE BOOK, WITH THE EXCEPTIONS NOTED ON THE DRAWINGS.
A NEW 2" APPROVED FIRE RATED SYSTEM TO BE INSTALLED THROUGHOUT BUILDING.

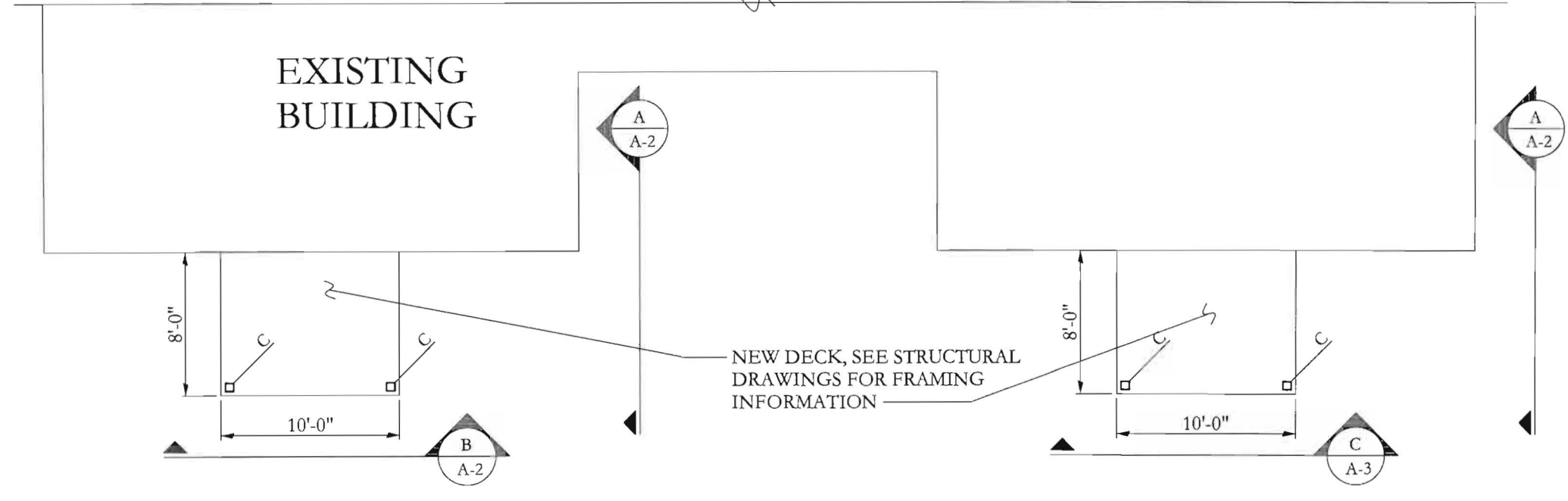
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE WORK SITE.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.

CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.

A2.3	THIRD FLOOR PLAN	127 YORK STREET INTERIOR RENOVATIONS	CONSULTANTS:	REVISIONS 2-8-11 PERMIT SET	kevin browne ARCHITECTURE 325 main street ste. 6 yarmouth, me 04096 207 . 847 . 3499 kevin@kevinbrowne architecture.com
	DATE: 2-8-11 PROJECT NO.: 2011-02	DRAWN: KWB SCALE: 1/8" = 1'-0"	ADDRESS: 127 YORK STREET PORTLAND, ME 04101	CLIENT: REDERN PROPERTIES LLC	



THIRD FLOOR DECK PLAN
SCALE 1/8"=1'-0"

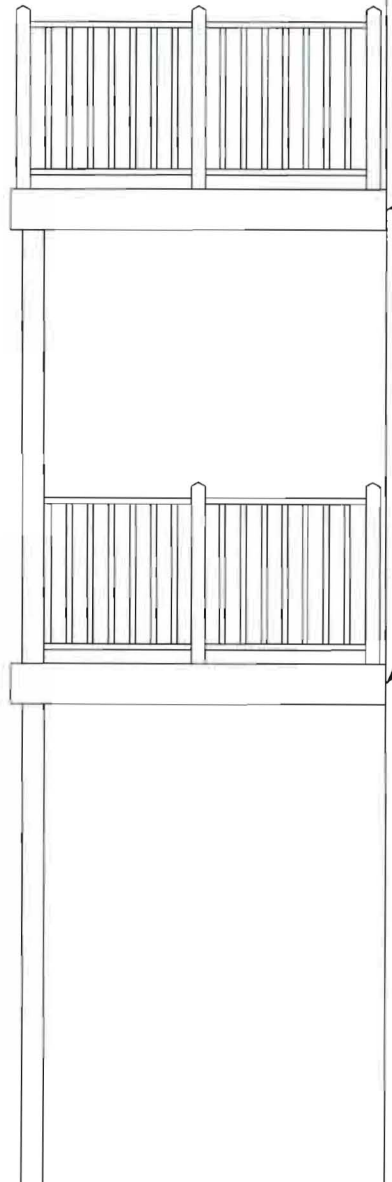
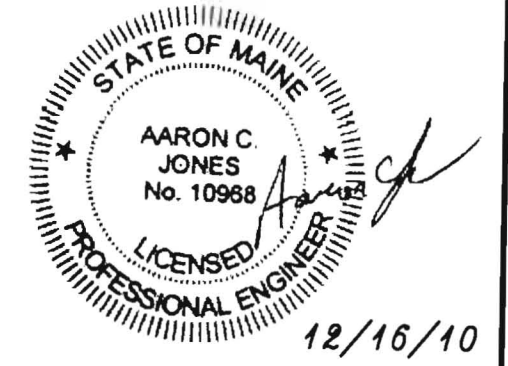


SECOND FLOOR DECK PLAN
SCALE 1/8"=1'-0"

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City of Portland Maine

Architectural Drawing Index	
A-1	Deck Plans
A-2	Elevations
A-3	Elevations

Drawing: Deck Plans	Date: 12/16/10	Scale: 1/8"=1'-0"	Project: Exterior Deck Replacement Harbor View Danforth St. Portland, ME		77 Oak Street Portland, ME, 04101 p. 207-774-4614 f. 866-793-7835 www.structuralinteg.com	A-1
	Issued:					



NEW DECK, SEE STRUCTURAL DRAWINGS FOR FRAMING INFORMATION



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City of Portland Maine

A
A-2

DECK SIDE ELEVATION

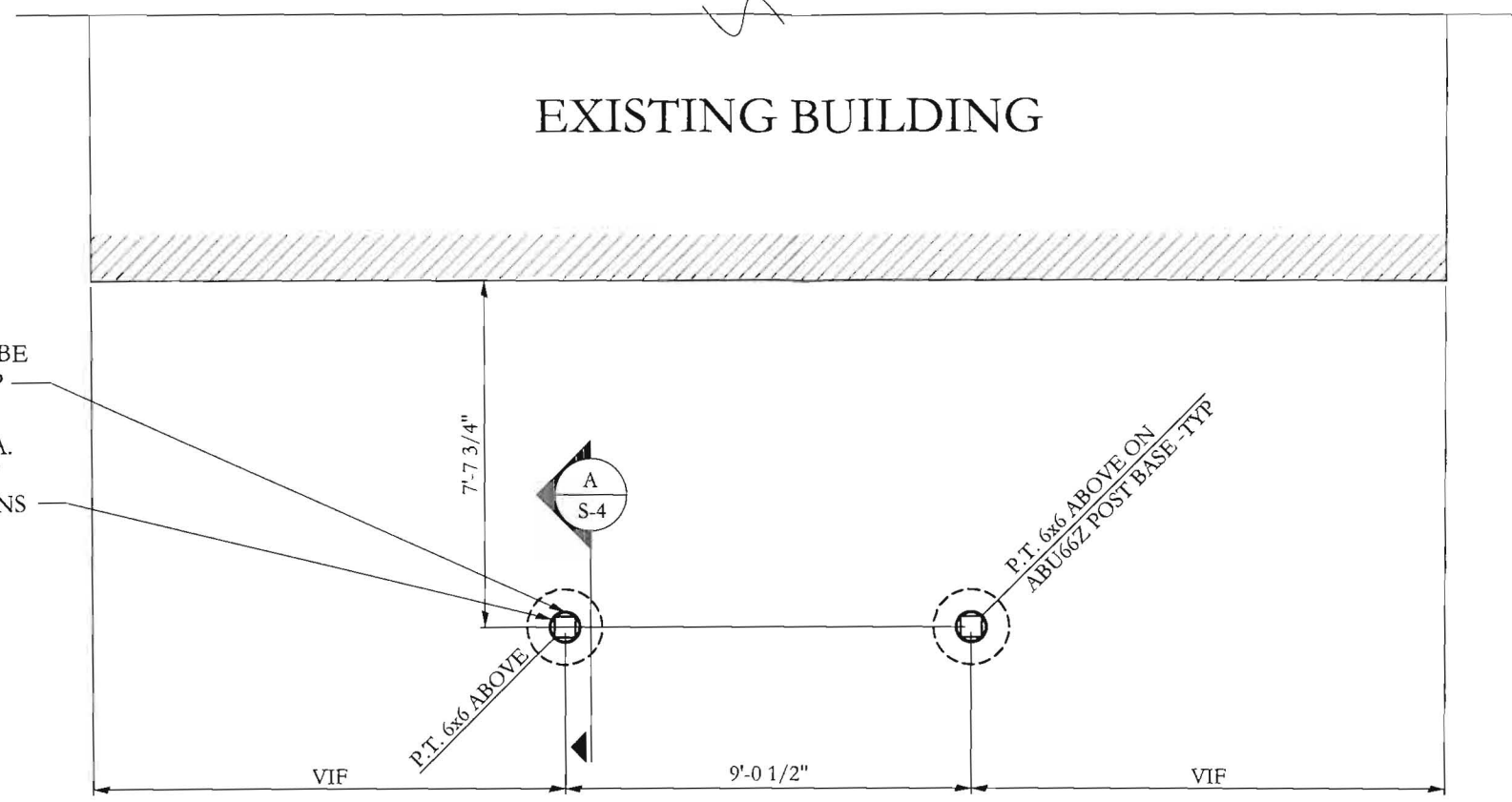
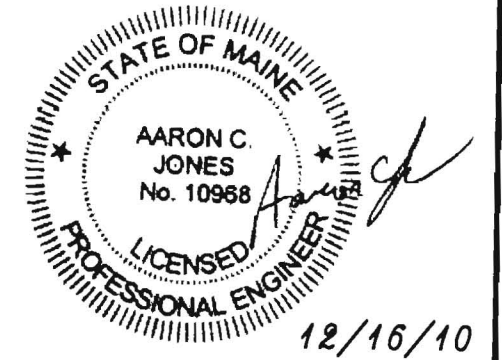
SCALE 1/4"=1'-0"

B
A-2

DECK FRONT ELEVATION

SCALE 1/4"=1'-0"

Drawing: Deck Elevations	Date: 12/16/10	Scale: 1/4"=1'-0"	Project: Exterior Deck Replacement Harbor View Danforth St. Portland, ME		77 Oak Street Portland, ME, 04101 p. 207-774-4614 f. 866-793-7835 www.structuralinteg.com BUILD WITH CONFIDENCE <small>© 2010 Structural Integrity Consulting Engineers, Inc.</small> SI # 10-0142	A-2
	Issued:					



T.O. PIER ELEVATION SHALL BE 6" ABOVE FINISH GRADE -TYP

8" DIA. CONC. PIER ON 20" DIA. BIGFOOT FOOTING FORM W/ (2) #4 VERT. -TYP (4) LOCATIONS

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City of Portland Maine

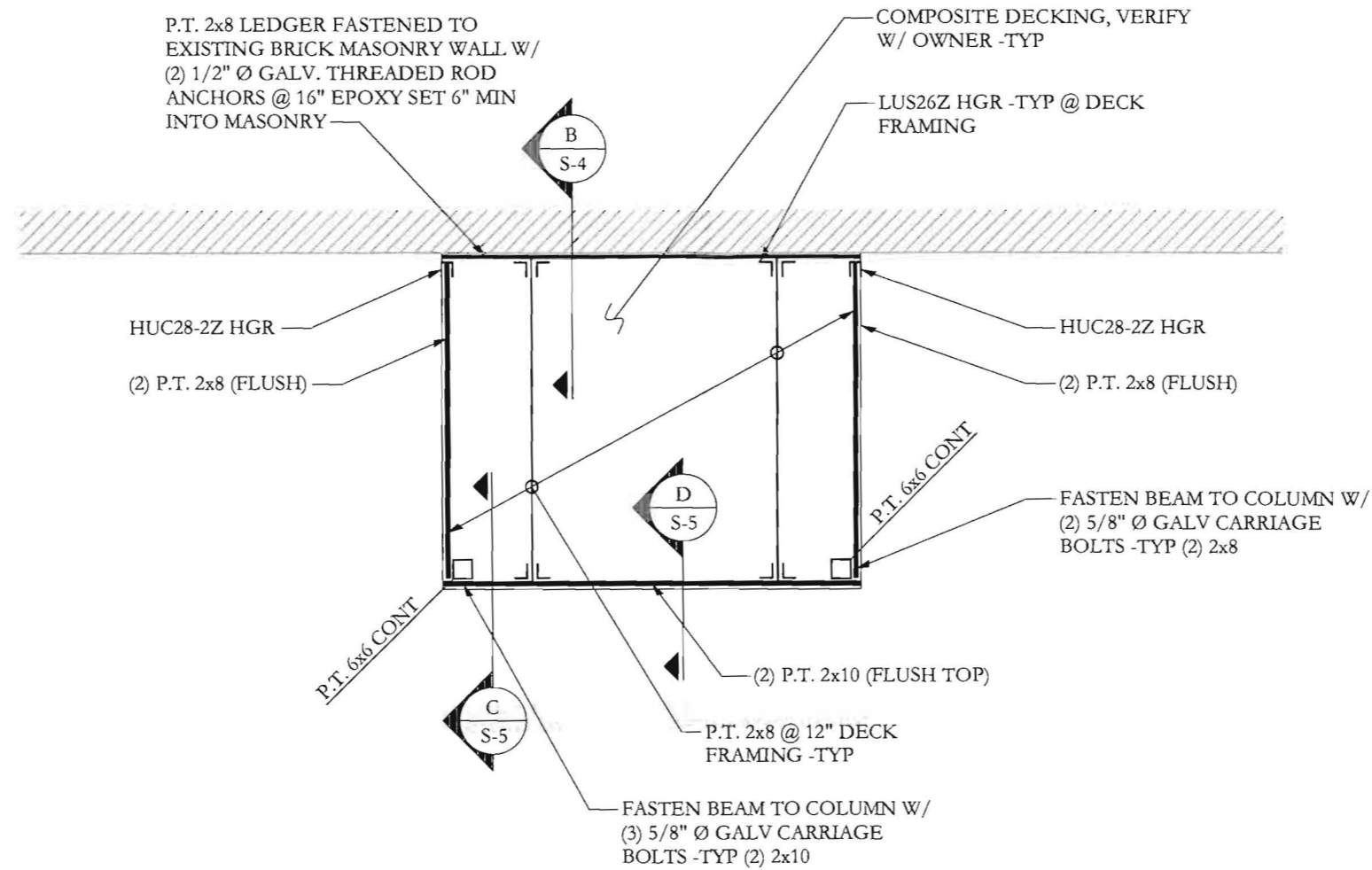
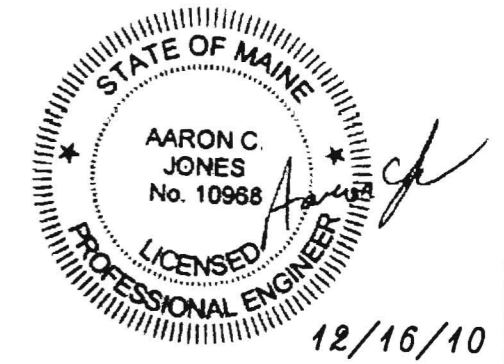
FRAMING PLAN SYMBOLS KEY	
□	WOOD POST
←	JOIST BEARING
⊥	FLUSH FRAMED JOIST BEARING WITH HANGER



TYPICAL DECK FOUNDATION PLAN

- NOTES: SCALE 1/4"=1'-0"
1. ALL FRAMING TO BE PRESSURE TREATED OR NATURALLY DECAY RESISTANT.
 2. ALL EXPOSED CONNECTORS TO BE GALVANIZED -TYP

Drawing: Typical Deck Foundation Plan	Date: 12/16/10	Scale: 1/4"=1'-0"	Project: Exterior Deck Replacement Harbor View Danforth St. Portland, ME	 77 Oak Street Portland, ME, 04101 p. 207-774-4614 f. 866-793-7835 www.structuralinteg.com BUILD WITH CONFIDENCE © 2010 Structural Integrity Consulting Engineers, Inc. SI # 10-0142	S-1
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City of Portland Maine

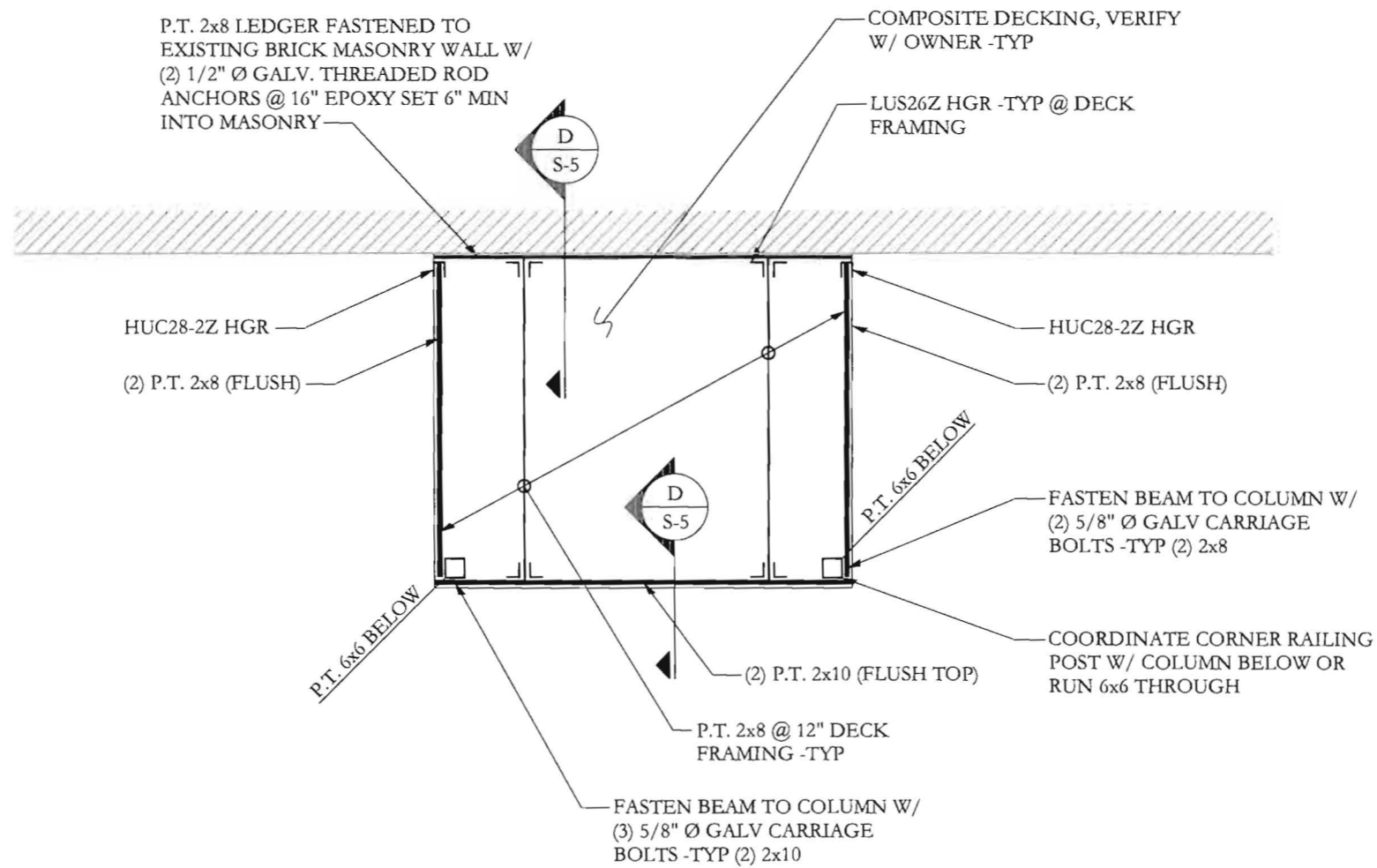
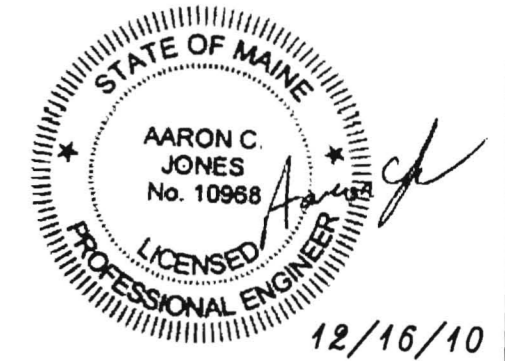
FRAMING PLAN SYMBOLS KEY	
□	WOOD POST
←	JOIST BEARING
┌	FLUSH FRAMED JOIST BEARING WITH HANGER



TYPICAL SECOND FLOOR DECK FRAMING PLAN

NOTES: SCALE 1/4"=1'-0"
 1. ALL FRAMING TO BE PRESSURE TREATED OR NATURALLY DECAY RESISTANT.
 2. ALL EXPOSED CONNECTORS TO BE GALVANIZED -TYP

Drawing: <h2 style="text-align: center;">Typical Second Floor Deck Framing Plan</h2>	Date:	Scale:	Project: <h2 style="text-align: center;">Exterior Deck Replacement</h2> Harbor View Danforth St. Portland, ME	 BUILD WITH CONFIDENCE <small>© 2010 Structural Integrity Consulting Engineers, Inc.</small> SI # 10-0142	S-2
	12/16/10	1/4"=1'-0"			



FRAMING PLAN SYMBOLS KEY	
□	WOOD POST
←	JOIST BEARING
⊥	FLUSH FRAMED JOIST BEARING WITH HANGER

RECEIVED

MAR - 8 2011

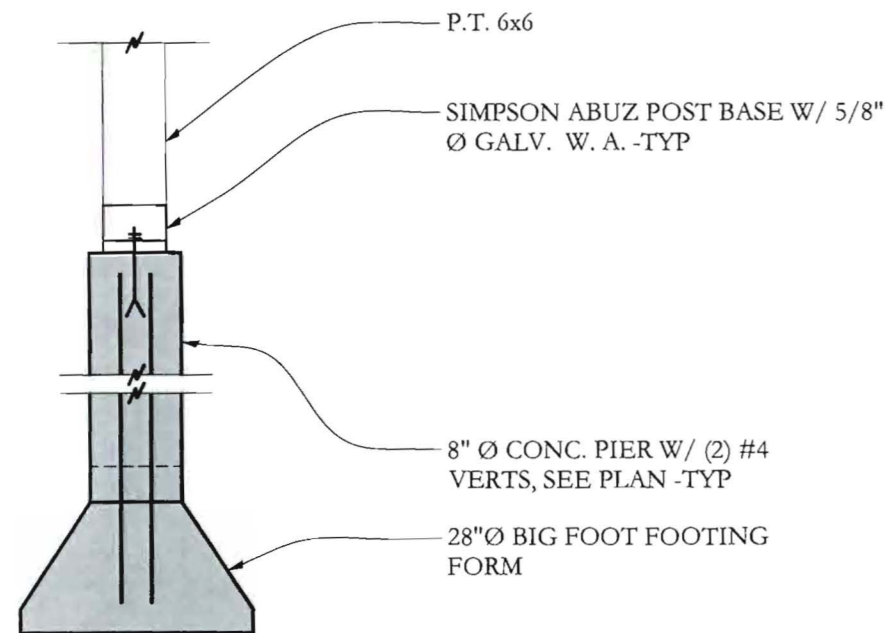
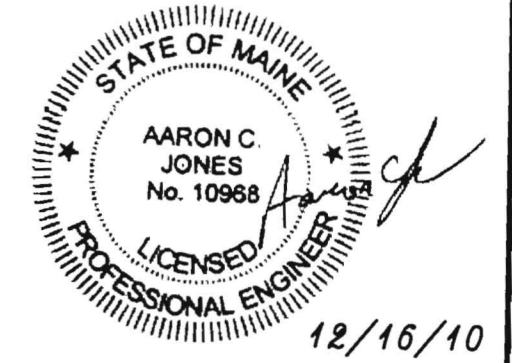
Dept. of Building Inspections
City of Portland Maine



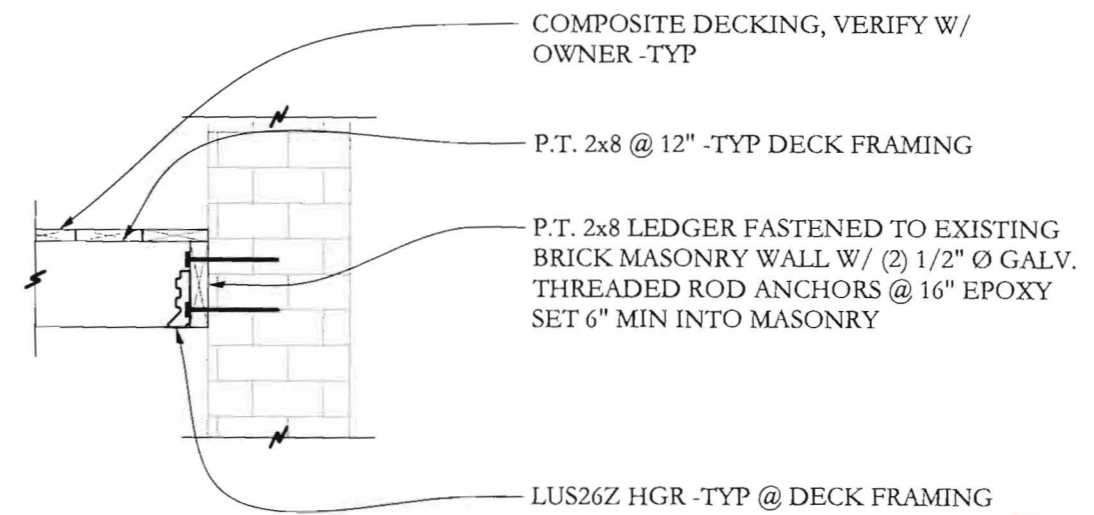
TYPICAL THIRD FLOOR DECK FRAMING PLAN

- NOTES: SCALE 1/4"=1'-0"
1. ALL FRAMING TO BE PRESSURE TREATED OR NATURALLY DECAY RESISTANT.
 2. ALL EXPOSED CONNECTORS TO BE GALVANIZED -TYP

Drawing: Typical Third Floor Deck Framing Plan	Date: 12/16/10	Scale: 1/4"=1'-0"	Project: Exterior Deck Replacement Harbor View Danforth St. Portland, ME	 77 Oak Street Portland, ME, 04101 p. 207-774-4614 f. 866-793-7835 www.structuralinteg.com BUILD WITH CONFIDENCE © 2010 Structural Integrity Consulting Engineers, Inc. SI # 10-0142	S-3
Issued:					



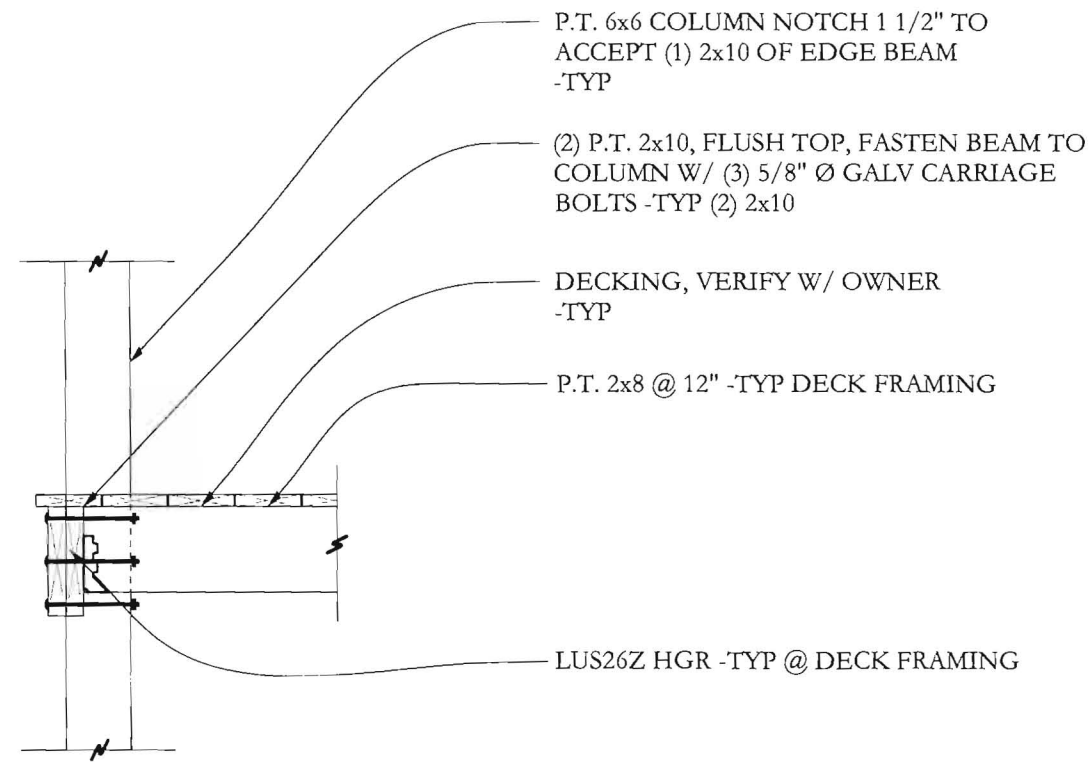
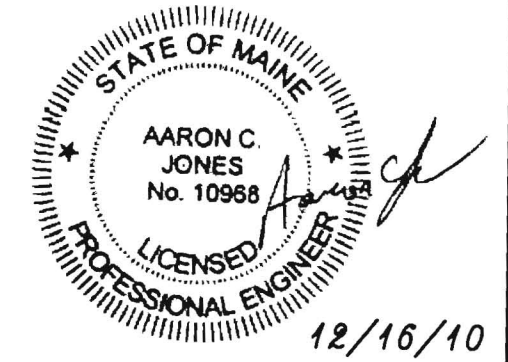
SECTION A
S-4 3/4"=1'-0



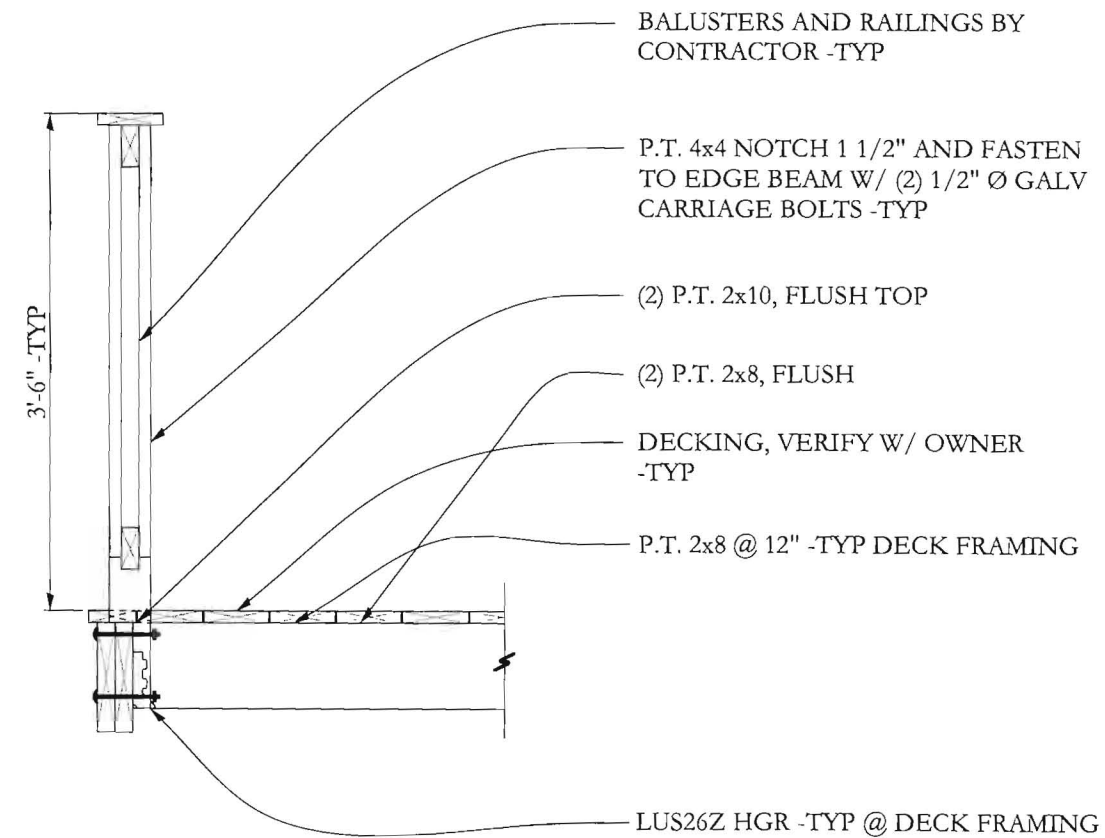
SECTION B
S-4 3/4"=1'-0

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Dept. of Building Inspections
City of Portland Maine

SECTIONS	Drawing:	Date: 12/16/10	Scale: 3/4"=1'-0"	Project: <u>Exterior Deck Replacement</u>	 77 Oak Street Portland, ME, 04101 p. 207-774-4614 f. 866-793-7835 www.structuralinteg.com BUILD WITH CONFIDENCE <small>© 2010 Structural Integrity Consulting Engineers, Inc.</small> SI # 10-0142	S-4
	Issued:	Harbor View Danforth St. Portland, ME				



SECTION C
S-5 3/4"=1'-0



SECTION D
S-5 3/4"=1'-0

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City of Portland Maine

Drawing:
SECTIONS

Date:
12/16/10

Scale:
3/4"=1'-0"

Issued:

Project:
Exterior Deck Replacement
Harbor View
Danforth St.
Portland, ME

Structural Integrity
Consulting Engineers, Inc.

77 Oak Street
Portland, ME, 04101
p. 207-774-4614
f. 866-793-7835
www.structuralinteg.com

BUILD WITH CONFIDENCE
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SI # 10-0142

S-5

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-05-1127-FAFS	Date Applied: 5/18/2011	CBL: 044 - - A - 005 - 001 - - - - -	
Location of Construction: 127 YORK ST	Owner Name: HARBORVIEW APTS LLC	Owner Address: PO Box 8816 Portland, ME 04104	Phone:
Business Name:	Contractor Name: Sprinkler Systems, Inc. – Scott Garland	Contractor Address: PO Box 1285, Lewiston, ME 04243	Phone: 207-782-0104
Lessee/Buyer's Name:	Phone:	Permit Type: FIRE SYS WB - Fire Suppression Water Based	Zone: R-6
Past Use: 12 Residential Condos	Proposed Use: 12 residential condos – install water based fire suppression system	Cost of Work: 6000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved <i>w/ conditions</i> <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: Type:
		Signature: <i>Bjansen</i> (58)	Signature:
Proposed Project Description: 127-129 York Street – install water based fire suppression system		Pedestrian Activities District (P.A.D.)	
Permit Taken By:	Zoning Approval		

	Special Zone or Reviews	Zoning Appeal	Historic Preservation
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 informatin may invalidate a building permit and stop all work.	<input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan <input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM Date: <i>Ok w/ condition</i> <i>5/25/11 ABM</i>	<input checked="" 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:	<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>ABM</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
------------------------	---------	------	-------

Sprinkler Systems, Inc.

P.O. Box 1285

Lewiston, ME 04243-1285

Letter of Transmittal

DATE	4-12-11	JOB #	11027
ATTENTION:	INSPECTIONS		
RE:	127-129 YORK STREET PORTLAND, ME		

TO: CITY OF PORTLAND
RM 315 - INSPECTIONS
PORTLAND, ME

WE ARE SENDING YOU:

- Attached Under separate cover via _____ the following items:
 Shop drawings Prints Plans Samples Specifications Wavier or Liens
 Copy of letter Change order Signed Contracts H2O CALLS, PERMIT CHECK, ETC

COPIES	DATE	NO.	DESCRIPTION
1c	3-22-11	1323	SPRINKLER SHOP DRAWINGS
1c	3-18-11	14965	HYDRAULIC CALCULATIONS PACKAGE
1c	3-22-11	-	FLOW TEST MAP - PWD
1c	3-22-11	1323	11X17 REDUCED SPRINKLER DRAWINGS
1c	4-9-11	9462	STATE FIRE MARSHAL'S PERMIT
1c	3-29-11	26534	PERMIT CHECK FOR PWD
1c	5-18-11	-	PORTLAND PERMIT APPLICATION

THESE ARE TRANSMITTED as checked below:

- For your approval Approved as submitted Resubmit _____ copies for approval
 For your use Approved as noted Submit _____ copies for distribution

REMARKS:

Please return 1 permit

THANK YOU,
SLOTT E. CARLAND, SGT, PMS

SIGNED:

PMS: MUA.

will email PDF



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: 127-129 York Street CBL: 044 A005

Exact location: (within structure) Entire

Type of occupancy(s) (NFPA & ICC): Residential - Condominiums

Building owner: Redfern Properties LLC, PO Box 8816, Portland, ME 04104

Managing Supervisor (RMS): Scott E. Garland License No: 278

Supervisor phone: 207-775-1521 E-mail: scottssi@maine.rr.com

Installing contractor: Sprinkler Systems Inc. License No: 093

Contractor phone: 207-782-0104 775-1521 E-mail: _____

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: NFPA 13-R Edition: 2007

*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.

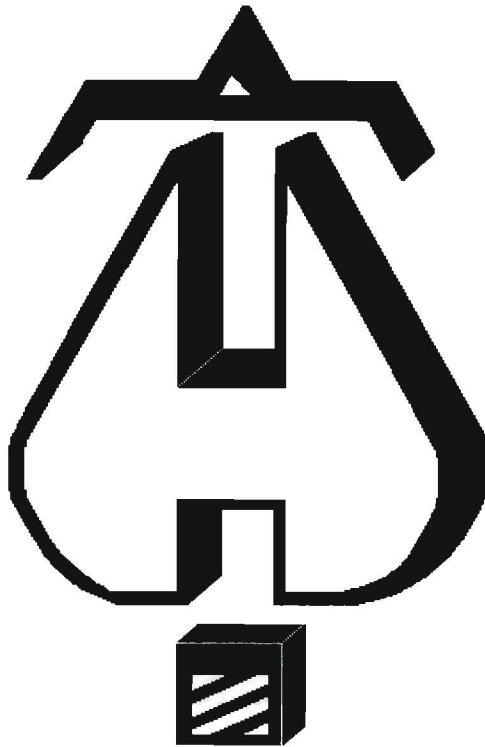
COST OF WORK: <u>\$6,000.00</u>
PERMIT FEE: <u>\$80.00</u>
(<small>\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000</small>)
RECEIVED
MAY 18 2011
Dept. of Building Inspections City of Portland Maine

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: _____ Date: 5-18-2011



... Fire Protection by Computer Design

Sprinkler Systems, Inc.
2-4 Avon Street
P.O. Box 1285
Lewiston, Maine 04240
207-782-0104

Job Name : 127-129 York St.
Building : ENTIRE
Location : 127-129 YORK STREET, PORTLAND, ME 04101
System : 1 OF 1
Contract : 11027
Data File : 127-129YORKST1.WXF

HYDRAULIC DESIGN INFORMATION SHEET

Name - 127-129 YORK STREET Date - 3-22-2011
 Location - 127-129 YORK STREET, PORTLAND, ME 04101
 Building - ENTIRE System No. - 1 OF 1
 Contractor - OWNER Contract No. - 11027
 Calculated By - KRISTOPHER J. FISH Drawing No. - 1-3 OF 3
 Construction: (X) Combustible () Non-Combustible Ceiling Height 8-6
 OCCUPANCY - RESIDENTIAL - CONDOMINIUMS

S Type of Calculation: ()NFPA 13 Residential (X)NFPA 13R ()NFPA 13D
 Y Number of Sprinklers Flowing: ()1 ()2 (X)4 ()
 S ()Other
 T ()Specific Ruling Made by Date
 E
 M Listed Flow at Start Point - 13 Gpm System Type
 Listed Pres. at Start Point - 7 Psi (X) Wet () Dry
 D MAXIMUM LISTED SPACING 16 x 16 () Deluge () PreAction
 E Domestic Flow Added - Gpm Sprinkler or Nozzle
 S Additional Flow Added - Gpm Make RELIABLE Model FIRES49
 I Elevation at Highest Outlet - 72.333Feet Size 1/2X1/2 K-Factor 4.9
 G Note:DESIGN AREA #1 - THIRD FLOOR Temperature Rating 155 DEG
 N

Calculation Gpm Required 56.27 Psi Required 59.531 AT BASE OF RISER
 Summary C-Factor Used: Overhead 150 Underground 150

W Water Flow Test: Pump Data: Tank or Reservoir:
 A Date of Test - 5-31-2002 Rated Cap. Cap.
 T Time of Test - @ Psi Elev.
 E Static (Psi) - 76 Elev.
 R Residual (Psi) - 74 Other Well
 Flow (Gpm) - 963 Proof Flow Gpm
 S Elevation - 70.5

P Location: WATER WAS FLOWED FROM HYD #327 ON PARK ST OPPOSITE GRAY ST FROM AN
 P 8" CIRCULATING CITY MAIN. TEST GUAGE READ FROM HYD #135 ON DANFORTH ST.
 L Source of Information: PORTLAND WATER DISTRICT
 Y

Fittings Used Summary

Sprinkler Systems, Inc.
127-129 York St.

Page 3
Date 3-18-2011

Fitting Legend

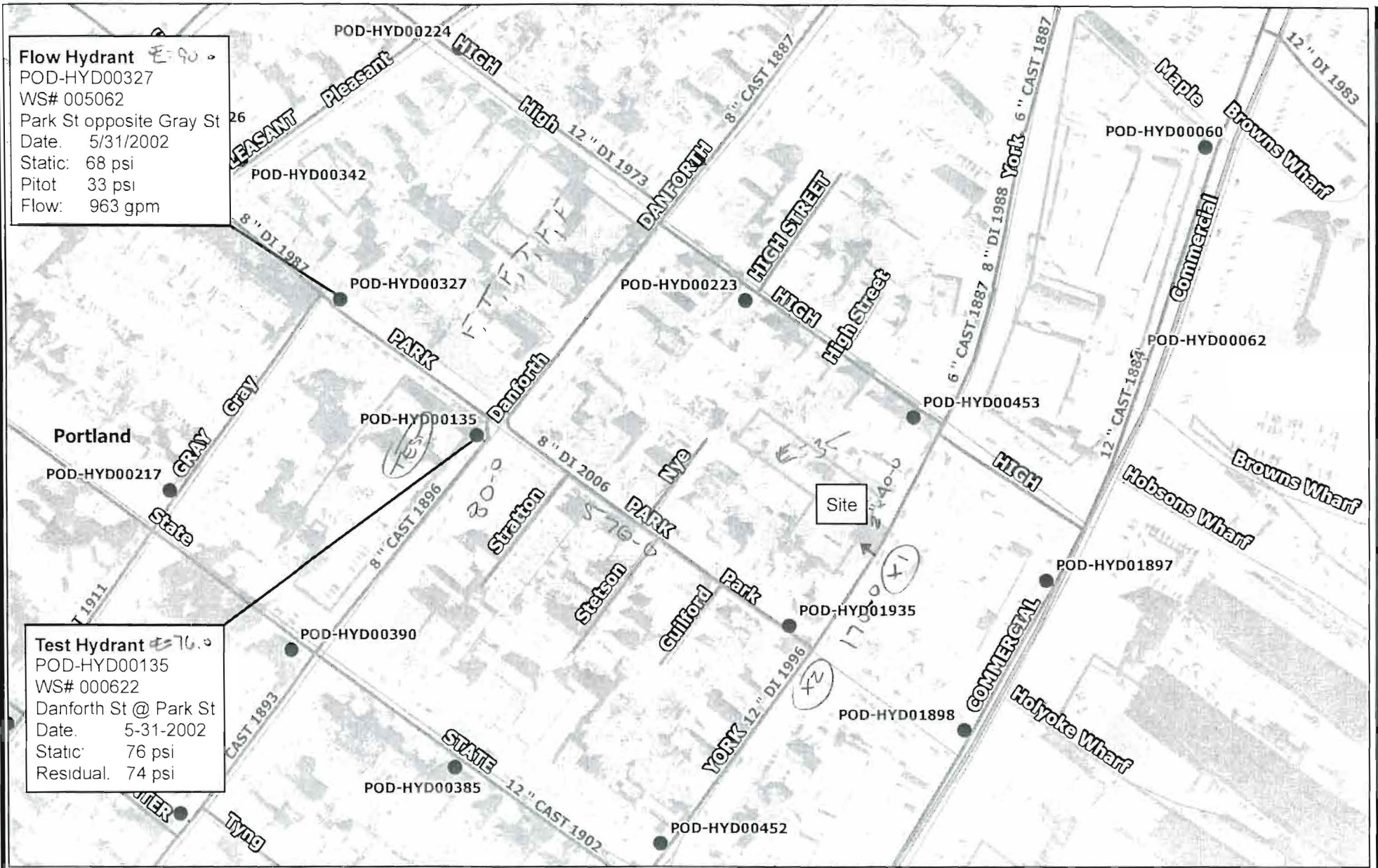
Abbrev.	Name	½	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8	10	12	14	16	18	20	24
E	90° Standard Elbow	2	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61
F	45° Elbow	1	1	1	1	2	2	3	3	3	4	5	7	9	11	13	17	19	21	24	28
G	Generic Gate Valve	0	0	0	0	0	1	1	1	1	2	2	3	4	5	6	7	8	10	11	13
T	90° Flow Thru Tee	3	4	5	6	8	10	12	15	17	20	25	30	35	50	60	71	81	91	101	121
Z	Generic Flow Switch	2	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61

Units Summary

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

Flow Hydrant ± 90.0
 POD-HYD00327
 WS# 005062
 Park St opposite Gray St
 Date: 5/31/2002
 Static: 68 psi
 Pitot: 33 psi
 Flow: 963 gpm

Test Hydrant ± 76.0
 POD-HYD00135
 WS# 000622
 Danforth St @ Park St
 Date: 5-31-2002
 Static: 76 psi
 Residual: 74 psi



York Street

Portland

PORTLAND WATER DISTRICT
 225 Douglass Street
 Portland, ME 04104

Scale 0 200 Feet
 1 inch = 200 feet

Legend

⊕ Blow Off	⊕ Fire Service	○ Air Valve	● Sleeve
⊙ By Pass	● Hydrant Control	○ Gate Change	• Tee
⊗ Distribution	⊕ Service	● Material Change	● Hydrants
⊠ End of Main	● Transmission	▲ Reducer	

Disclaimer: This map is suitable for preliminary study and analysis and is based on PWD record information. PWD is not liable for any damages whatsoever resulting from inaccurate data or from errors made in the location and marking of its infrastructure.

Drawn By: MAV
Prepared for: Scott

Scale: As Noted
Date: 03/22/2011



State of Maine
Department of Public Safety
Fire Sprinkler System Permit



9462

127-129 York Street

Located at: 127-129 York Street
 In the Town of: Portland
 Occupancy/Use: Condominiums
 Type of System: NFPA 13R

Permission is hereby given to:

Sprinkler Systems, Inc.
 PO Box 1285
 Lewiston, ME 042431285
 Contractor License # 93

to begin installation according to plans submittal approved by the Office of State Fire Marshal. The submittal is filed under log # **2111111**, 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 **4/9/2011** for a fee paid of **\$112.00**

*This permit will expire at midnight on **Thursday, October 06, 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.

John E. Morris
 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: Garland Scott E.

RMS Signature: _____

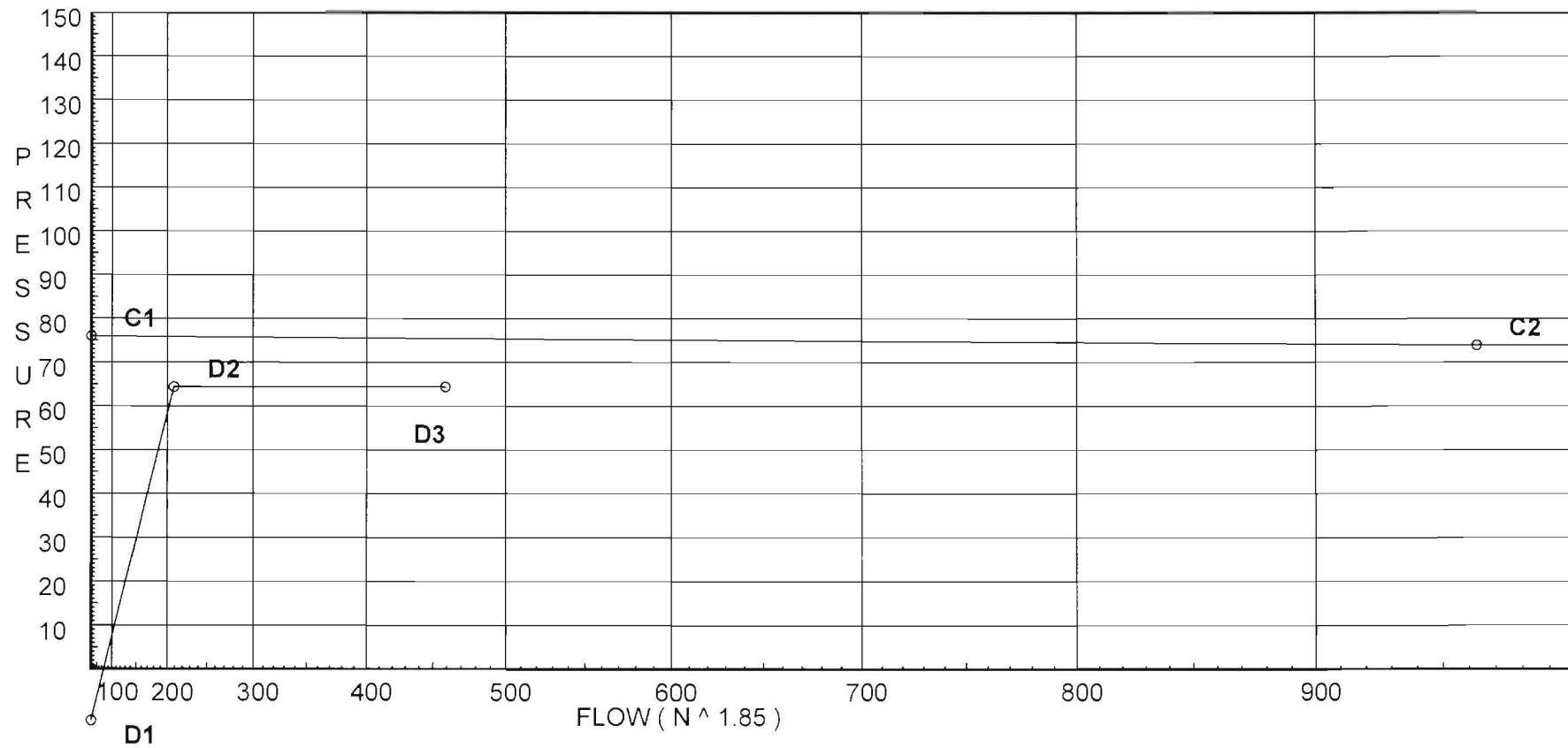
Water Supply Curve (C)

Sprinkler Systems, Inc.
127-129 York St.

Page 14
Date 3-18-2011

City Water Supply:
C1 - Static Pressure : 76
C2 - Residual Pressure: 74
C2 - Residual Flow : 963

Demand:
D1 - Elevation : -11.549
D2 - System Flow : 208.913
D2 - System Pressure : 64.407
Hose (Adj City) :
Hose (Demand) : 250
D3 - System Demand : 458.913
Safety Margin : 11.085



Pressure / Flow Summary - STANDARD

Sprinkler Systems, Inc.
127-129 York St.

Page 4
Date 3-18-2011

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
TYP	0.0	4.9	7.0	na	12.96	0.05	259.284	7.0
1	72.333	K = K @ DRP	7.3	na	12.96			
2	72.333	K = K @ DRP	7.57	na	13.2			
3	72.333	K = K @ DRP	8.69	na	14.14			
4	72.333	K = K @ DRP	11.06	na	15.96			
A	72.333		10.01	na				
B	72.333		12.17	na				
C	72.333		23.84	na				
DT	44.333		48.88	na				
D	43.333		54.61	na				
L	43.333		54.68	na				
J	43.333		54.92	na				
K	43.333		55.52	na				
RT	43.333		57.34	na				
RM	38.917		59.53	na				
RB	36.0		66.82	na				
X1	29.5		71.27	na				
X2	70.5		53.52	na				
TEST	70.5		53.54	na	100.0			

The maximum velocity is 20.89 and it occurs in the pipe between nodes DT and D

Final Calculations - Hazen-Williams

Sprinkler Systems, Inc.
127-129 York St.

Page 5
Date 3-18-2011

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftnng's Total	Pt Pe Pf	Pt Pv Pn	***** Notes *****
TYP to	12.96	1.101	1T 9.563	0.333	7.000		K Factor = 4.90
DRP	12.96	0.0305	0.0	9.562	0.0		Vel = 4.37
	0.0						
	12.96				7.302		K Factor = 4.80
1 to	12.96	1.101	1E 3.825	5.000	7.302		K Factor @ node DRP
2	12.96	0.0305	0.0	3.825	0.0		Vel = 4.37
2 to	13.21	1.101	0.0	8.825	0.269		K Factor @ node DRP
3	13.21	0.0305	0.0	10.000	7.571		Vel = 8.82
3 to	26.17	0.1119	0.0	0.0	0.0		K Factor @ node DRP
A	14.14	1.101	1E 3.825	1.500	8.690		Vel = 13.58
	40.31	0.2486	0.0	3.825	0.0		
	0.0			5.325	1.324		
	40.31				10.014		K Factor = 12.74
4 to	15.96	1.101	1T 9.563	15.167	11.063		K Factor @ node DRP
B	15.96	0.0448	0.0	9.562	0.0		Vel = 5.38
	0.0			24.729	1.108		
	15.96				12.171		K Factor = 4.57
A to	40.31	1.101	0.0	8.667	10.014		
B	40.31	0.2489	0.0	0.0	0.0		Vel = 13.58
B to	15.96	1.101	1T 9.563	15.750	12.171		
C	15.96	0.0305	0.0	9.562	0.0		Vel = 18.96
C to	56.27	0.4611	0.0	0.0	11.672		
DT	0.0	1.101	0.0	25.312	23.843		Vel = 18.96
DT to	56.27	0.4611	0.0	0.0	12.127		
D	0.0	1.049	1T 5.0	1.000	48.881		Vel = 20.89
D to	56.27	0.8818	0.0	5.000	0.433		
L	0.0	1.61	0.0	6.000	5.291		Vel = 8.87
L to	56.27	0.1094	0.0	0.667	0.073		
J	0.0	2.067	0.0	7.500	54.678		Vel = 5.38
J to	56.27	0.0324	0.0	0.0	0.243		
K	0.0	2.067	0.0	18.333	54.921		Vel = 5.38
	56.27	0.0325	0.0	0.0	0.0		
				18.333	0.595		

Final Calculations - Standard

Sprinkler Systems, Inc.
127-129 York St.

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Date 3-18-2011

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	***** Notes *****
K	0.0	2.067	1T 10.0	46.250	55.516		
to		120	0.0	10.000	0.0		
RT	56.27	0.0324	0.0	56.250	1.824		Vel = 5.38
RT	0.0	2.157	1Z 6.153	4.417	57.340		
to		120	0.0	6.153	1.913		
RM	56.27	0.0263	0.0	10.570	0.278		Vel = 4.94
RM	0.0	2.635	0.0	2.917	59.531		
to		120	0.0	0.0	7.263		* Fixed loss = 6
RB	56.27	0.0099	0.0	2.917	0.029		Vel = 3.31
RB	0.0	1.959	1E 5.818	40.000	66.823		
to		150	1T 11.635	18.616	2.815		
X1	56.27	0.0279	1G 1.164	58.616	1.634		Vel = 5.99
X1	0.0	12.34	1T 93.767	170.000	71.272		
to		140	0.0	93.767	-17.757		
X2	56.27	0.0	0.0	263.767	0.001		Vel = 0.15
X2	0.0	8.27	4F 56.936	650.000	53.516		
to		140	2T 110.709	167.645	0.0		
TEST	56.27	0.0	0.0	817.645	0.023		Vel = 0.34
	100.00						Qa = 100.00
	156.27				53.539		K Factor = 21.36

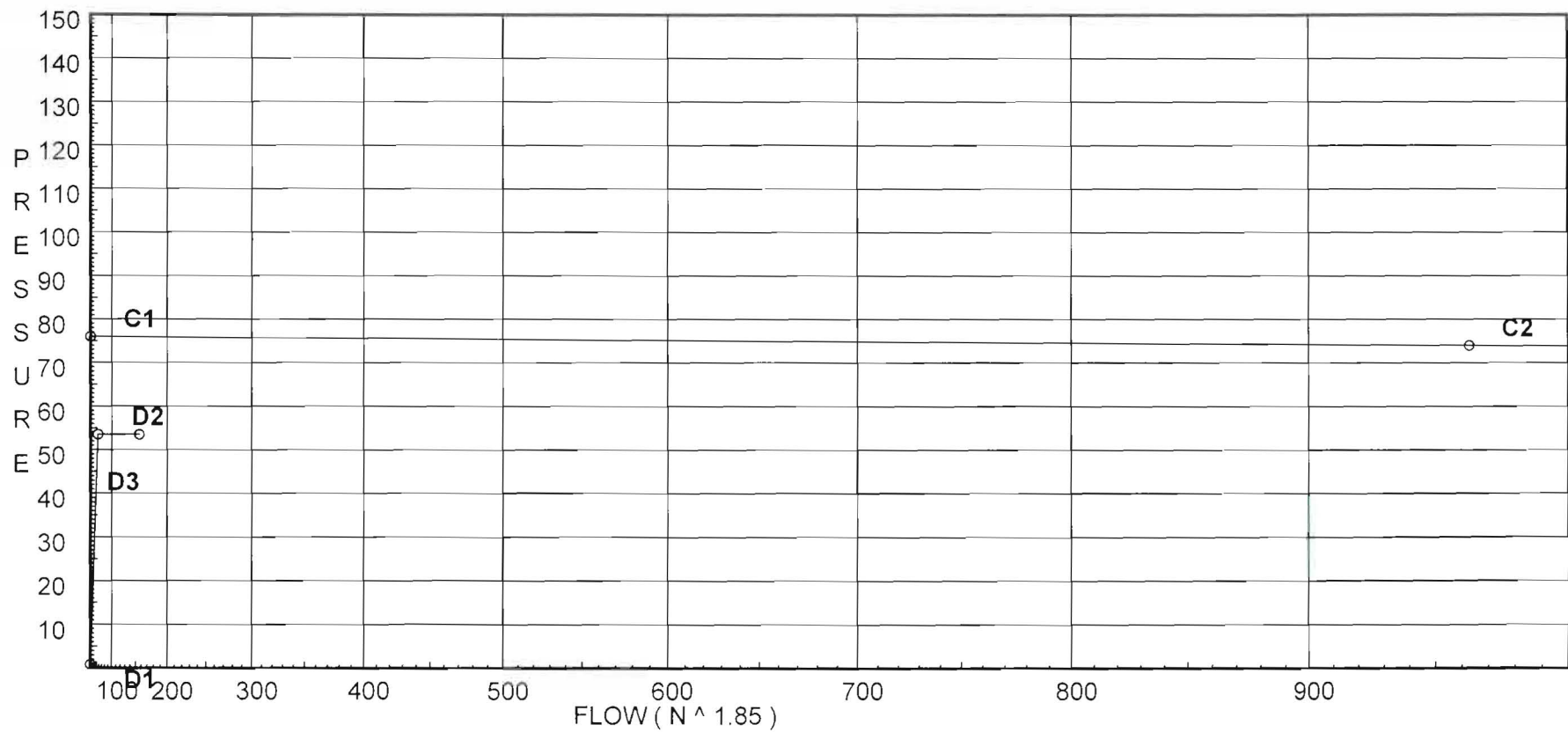
Water Supply Curve (C)

Sprinkler Systems, Inc.
127-129 York St.

Page 7
Date 3-18-2011

City Water Supply
C1 - Static Pressure : 76
C2 - Residual Pressure: 74
C2 - Residual Flow : 963

Demand:
D1 - Elevation : 0.794
D2 - System Flow : 56.265
D2 - System Pressure : 53.539
Hose (Adj City) :
Hose (Demand) : 100
D3 - System Demand : 156.265
Safety Margin : 22.392





... Fire Protection by Computer Design

Sprinkler Systems, Inc.
2-4 Avon Street
P.O. Box 1285
Lewiston, Maine 04240
207-782-0104

Job Name : 127-129 York St.
Building : ENTIRE
Location : 127-129 YORK STREET, PORTLAND, ME 04101
System : 1 OF 1
Contract : 11027
Data File : 127-129YORKST2.WXF

Hydraulic Design Information Sheet

Name - 127-129 YORK STREET Date - 3-22-2011
 Location - 127-129 YORK STREET, PORTLAND, ME 04101
 Building - ENTIRE System No. - 1 OF 1
 Contractor - OWNER Contract No. - 11027
 Calculated By - KRISTOPHER J. FISH Drawing No. - 1 OF 3
 Construction: (X) Combustible () Non-Combustible Ceiling Height - OWJ
 Occupancy - ORDINARY HAZARD GROUP 1 - BASEMENT MECHANICAL

S (X) NFPA 13 () Lt. Haz. Ord.Haz.Gp. (X) 1 () 2 () 3 () Ex.Haz.
 Y () NFPA 231 () NFPA 231C () Figure Curve
 S Other
 T Specific Ruling Made By Date
 E
 M Area of Sprinkler Operation - 900 SF System Type Sprinkler/Nozzle
 Density - .15 (X) Wet Make RELIABLE
 D Area Per Sprinkler - 108 SF () Dry Model F1FR
 E Elevation at Highest Outlet - 43.833 () Deluge Size 1/2X1/2
 S Hose Allowance - Inside () Preaction K-Factor 5.6
 I Rack Sprinkler Allowance - () Other Temp.Rat.200 DEG
 G Hose Allowance - Outside - 250 GPM AT TEST
 N
 Note DESIGN AREA #2 - BASEMENT

Calculation Flow Required - 208.91 Press Required - 52.984 AT BASE OF RISER
 Summary C-Factor Used: 120 Overhead 150 Underground

W Water Flow Test: Pump Data: Tank or Reservoir:
 A Date of Test - 5-21-2002 Cap. -
 T Time of Test - Rated Cap.- Elev.-
 E Static Press - 76 @ Press -
 R Residual Press - 74 Elev. - Well
 Flow - 963 Proof Flow
 S Elevation - 70.5

U
 P Location - WATER WAS FLOWED FROM HYD #327 ON PARK ST OPPOSITE GRAY ST FROM AN
 P 8" CIRCULATING CITY MAIN. TEST GUAGE READ FROM HYD #135 ON DANFORTH ST.
 L Source of Information - PORTLAND WATER DISTRICT
 Y

C Commodity Class Location
 O Storage Ht. Area Aisle W.
 M Storage Method: Solid Piled % Palletized % Rack
 M
 () Single Row () Conven. Pallet () Auto. Storage () Encap.
 S R () Double Row () Slave Pallet () Solid Shelf () Non
 T A () Mult. Row () Open Shelf
 O C
 R K Flue Spacing Clearance:Storage to Ceiling
 A Longitudinal Transverse
 G
 E Horizontal Barriers Provided:

Pressure / Flow Summary - STANDARD

Sprinkler Systems, Inc.
127-129 York St.

Page 10
Date 3-18-2011

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Reg.
TYP	0.0	5.6	8.37	na	16.2	0.15	108	8.369
TYP1	0.0	5.6	8.37	na	16.2	0.15	108	8.369
5	43.833	K = K @ DRP	11.06	na	18.12			
ET	43.833		11.52	na				
6	43.833	K = K @ DRP	8.84	na	16.2			
7	43.833	K = K @ DRP	10.38	na	17.56			
FT	43.833		11.23	na				
8	43.833	K = K @ DRP	9.58	na	16.87			
9	43.833	K = K @ DRP	10.86	na	17.96			
GT	43.833		11.76	na				
10	43.833	K = K @ DRP	11.12	na	18.17			
11	43.833	K = K @ DRP	12.59	na	19.33			
HT	43.833		13.62	na				
12	43.833	K = K @ DRP1	13.08	na	19.47			
13	43.833	K = K @ DRP1	13.83	na	20.02			
14	43.833	K = K @ DRP1	15.41	na	21.13			
LT	43.833		16.39	na				
15	43.833	K = K @ DRP	19.55	na	24.09			
JT	43.833		20.0	na				
E	43.333		12.01	na				
F	43.333		12.03	na				
G	43.333		12.6	na				
H	43.333		14.55	na				
D	43.333		18.02	na				
L	43.333		18.34	na				
J	43.333		20.53	na				
K	43.333		27.26	na				
RT	43.333		47.92	na				
RM	38.917		52.98	na				
RB	36.0		60.58	na				
X1	29.5		81.89	na				
X2	70.5		64.14	na				
TEST	70.5		64.41	na	250.0			

The maximum velocity is 22.24 and it occurs in the pipe between nodes RB and X1

Final Calculations - Hazen-Williams

Sprinkler Systems, Inc.
127-129 York St.

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Date 3-18-2011

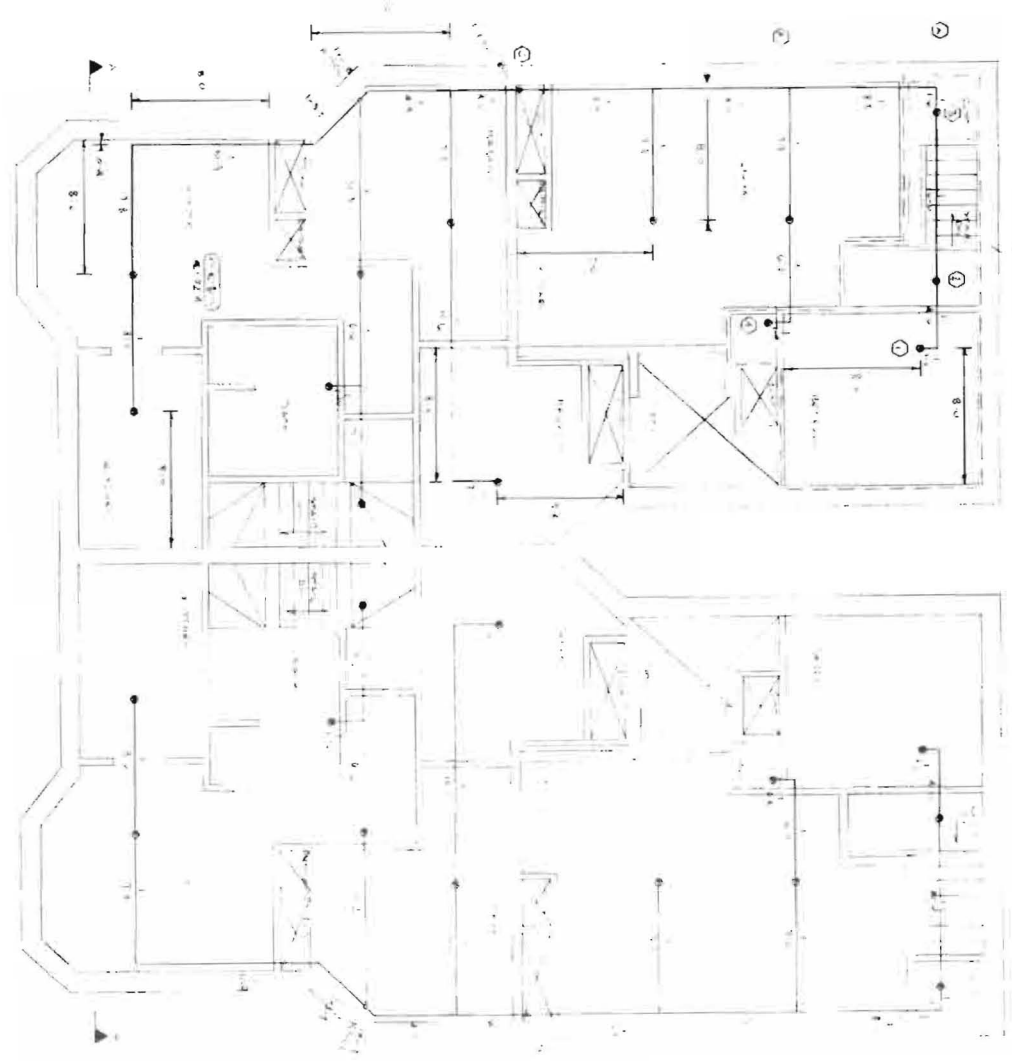
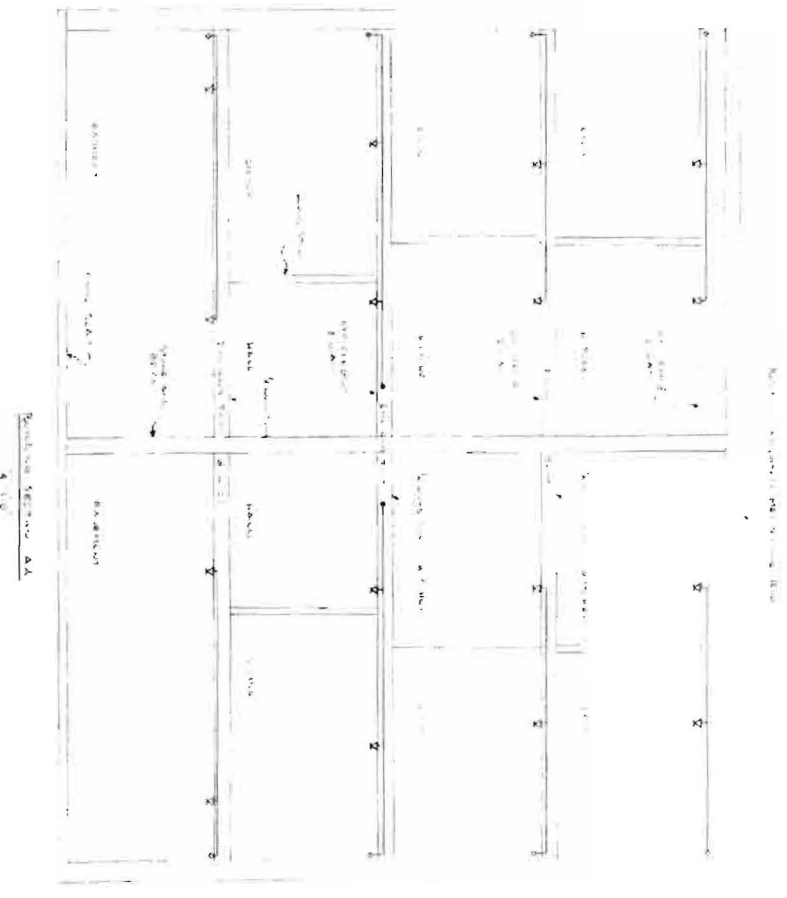
Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	***** Notes *****
TYP to DRP	16.20 16.2 0.0 16.20	1.049 120 0.0881	1T 5.0 0.0	0.333 5.000 5.333	8.369 0.0 0.470		K Factor = 5.60 Vel = 6.01
TYP1 to DRP1	16.20 16.2 0.0 16.20	1.049 120 0.0881	1E 2.0 1T 5.0 0.0	0.833 7.000 7.833	8.369 0.0 0.690		K Factor = 5.45 K Factor = 5.60 Vel = 6.01
5 to ET	18.12 18.12	1.049 120 0.1085	1E 2.0 0.0	2.250 2.000 4.250	11.060 0.0 0.461		K Factor @ node DRP Vel = 6.73
ET to E	0.0 18.12 18.12	1.049 120 0.1084	1E 2.0 0.0	0.500 2.000 2.500	11.521 0.217 0.271		Vel = 6.73
6 to 7	16.20 16.2	1.049 120 0.0881	1E 2.0 0.0	15.500 2.000 17.500	8.839 0.0 1.542		K Factor @ node DRP Vel = 6.01
7 to FT	17.56 33.76	1.38 120 0.0902	1E 3.0 0.0	6.417 3.000 9.417	10.381 0.0 0.849		K Factor @ node DRP Vel = 7.24
FT to F	0.0 33.76 0.0 33.76	1.38 120 0.0900	1T 6.0 0.0	0.500 6.000 6.500	11.230 0.217 0.585		Vel = 7.24
8 to 9	16.87 16.87	1.049 120 0.0950	0.0 0.0	13.500 0.0 13.500	9.580 0.0 1.282		K Factor @ node DRP Vel = 6.26
9 to GT	17.95 34.82	1.38 120 0.0955	1E 3.0 0.0	6.417 3.000 9.417	10.862 0.0 0.899		K Factor @ node DRP Vel = 7.47
GT to G	0.0 34.82 0.0 34.82	1.38 120 0.0954	1T 6.0 0.0	0.500 6.000 6.500	11.761 0.217 0.620		Vel = 7.47
10 to 11	18.17 18.17	1.049 120 0.1090	0.0 0.0	13.500 0.0 13.500	11.117 0.0 1.471		K Factor @ node DRP Vel = 6.75

Final Calculations - Standard

Sprinkler Systems, Inc.
127-129 York St.

Page 12
Date 3-18-2011

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	***** Notes *****
11	19.33	1.38	1E 3.0	6.417	12.588		K Factor @ node DRP
to		120	0.0	3.000	0.0		
HT	37.5	0.1095	0.0	9.417	1.031		Vel = 8.04
HT	0.0	1.38	1T 6.0	0.500	13.619		
to		120	0.0	6.000	0.217		
H	37.5	0.1094	0.0	6.500	0.711		Vel = 8.04
	0.0						
	37.50				14.547		K Factor = 9.83
12	19.47	1.049	0.0	6.000	13.085		K Factor @ node DRP1
to		120	0.0	0.0	0.0		
13	19.47	0.1238	0.0	6.000	0.743		Vel = 7.23
13	20.01	1.38	0.0	13.167	13.828		K Factor @ node DRP1
to		120	0.0	0.0	0.0		
14	39.48	0.1205	0.0	13.167	1.586		Vel = 8.47
14	21.14	1.38	1E 3.0	0.667	15.414		K Factor @ node DRP1
to		120	0.0	3.000	0.0		
LT	60.62	0.2662	0.0	3.667	0.976		Vel = 13.00
LT	0.0	1.38	1T 6.0	0.500	16.390		
to		120	0.0	6.000	0.217		
L	60.62	0.2662	0.0	6.500	1.730		Vel = 13.00
	0.0						
	60.62				18.337		K Factor = 14.16
15	24.09	1.38	1E 3.0	6.417	19.547		K Factor @ node DRP
to		120	0.0	3.000	0.0		
JT	24.09	0.0483	0.0	9.417	0.455		Vel = 5.17
JT	0.0	1.38	1T 6.0	0.500	20.002		
to		120	0.0	6.000	0.217		
J	24.09	0.0482	0.0	6.500	0.313		Vel = 5.17
	0.0						
	24.09				20.532		K Factor = 5.32
E	18.12	1.61	0.0	1.750	12.009		
to		120	0.0	0.0	0.0		
F	18.12	0.0131	0.0	1.750	0.023		Vel = 2.86
F	33.76	1.61	0.0	6.000	12.032		
to		120	0.0	0.0	0.0		
G	51.88	0.0943	0.0	6.000	0.566		Vel = 8.18
G	34.82	1.61	0.0	8.000	12.598		
to		120	0.0	0.0	0.0		
H	86.7	0.2436	0.0	8.000	1.949		Vel = 13.66
H	37.50	1.61	0.0	7.333	14.547		
to		120	0.0	0.0	0.0		
D	124.2	0.4737	0.0	7.333	3.474		Vel = 19.57



1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES AND STANDARDS.
 2. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE LOCAL FIRE DEPARTMENT.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL FIRE DEPARTMENT.
 4. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.
 5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL AREAS AT ALL TIMES.
 6. ALL WASTE AND DEBRIS SHALL BE REMOVED FROM THE SITE DAILY.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES.
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SPRINKLER SYSTEMS INC.

1000 WEST 10TH AVENUE
DENVER, COLORADO 80202

TEL: (303) 733-1111
FAX: (303) 733-1112

WWW.SPRINKLERSYSTEMS.COM

PROJECT NO.	DATE
CLIENT	SCALE
DESIGNER	PROJECT
CHECKED	DATE
APPROVED	DATE

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND

BUILDING PERMIT

This is to certify that HARBORVIEW APTS LLC

Located At 127 YORK ST

Job ID: 2011-07-1785-HVAC

CBL: 044 - - A - 005 - 001 - - - -

has permission to Install a Solaia cast iron gas boiler in the basement vented to the chimney 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

[Signature] 8/3/11
Code Enforcement Officer / Plan Reviewer

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

SCANNED

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-07-1785-HVAC	Date Applied: 7/27/2011 25	CBL: 044 - - A - 005 - 001 - - - - -	
Location of Construction: 127 YORK ST	Owner Name: HARBORVIEW APTS LLC	Owner Address: 277 TUTTLE RD CUMBERLAND CTR, ME - MAINE 04021	Phone:
Business Name:	Contractor Name: Tim Delane's Burner Service	Contractor Address: 87 Maggie LN, Portland, ME 04103	Phone: 831-5974
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: R-6
Past Use: 12 residential dwelling units	Proposed Use: Same: 12 residential dwelling units - to install Solaia CSL 8350 heating system	Cost of Work: \$24,000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved w/conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: R-2 Type: HVAC Time: 2009 Signature: JMB
Proposed Project Description: install SOLAIA CSL 8350 in Basement		Pedestrian Activities District (P.A.D.)	
Permit Taken By: Lannie		Zoning Approval	

Special Zone or Reviews	Zoning Appeal	Historic Preservation
<input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan <input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM Date: <i>7/29/11</i>	<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:	<input 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:

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 at completion of work

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: 2011-07-1785-HVAC

Located At: 127 YORK

CBL: 044 - - A - 005 - 001 - - - -

Conditions of Approval:

Fire

2. Installation shall comply with City Code Chapter 10.
3. Fuel-fired boilers shall be protected in accordance with NFPA 101, *Life Safety Code*.
4. Installation shall comply with NFPA 211, *Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances*; NFPA 54, *National Fuel Gas Code*; NFPA 70, *National Electrical Code*; and the manufacturer's published instructions.

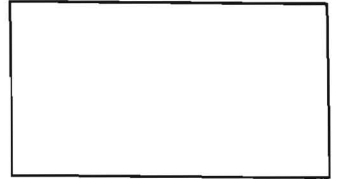
Building

1. The installation must comply with the State of Maine Gas Regulations.
2. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, including pellet/wood stoves, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.
3. The appliance and venting shall be installed in accordance with the manufacturer's specifications the UL listing, IMC 2003 and NFPA 211



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL 127-129 YORK ST 44A-5 Use of Building RESIDENTIAL Date 7-25-11

Name and address of owner of appliance 127/129 YORK ST REDFERN PROPERTIES

Installer's name and address TIM DELANEY DBA DELANEYS BURNER SERVICE
87 MAGGIE LN PORTLAND ME 04103 Telephone 831-5974

Location of appliance:

- Basement
- Attic
- Floor
- Roof

Type of Fuel:

- Gas
- Oil
- Solid Fuel

Appliance Name: SOLATA CSL 8350

U.L. Approved Yes No

Will appliance be installed in accordance with the manufacture's installation instructions? Yes No

IF NO Explain: _____

The Type of License of Installer:

- Master Plumber # _____
- Solid Fuel # _____
- Oil # _____
- Gas # PNT 4547
- Other _____

Type of Chimney:

- Masonry Lined
Factory built _____
- Metal
Factory Built U.L. Listing # _____
- Direct Vent
Type _____ UL# _____

Type of Fuel Tank

- Oil
- Gas NAT

Size of Tank N/A

Number of Tanks N/A

Distance from Tank to Center of Flame N/A feet.

Cost of Work: \$ 27,000

Permit Fee: \$ 260

Approved

Fire: _____

Ele.: _____

Bldg.: _____

Approved with Conditions

- See attached letter or requirement

Inspector's Signature _____

Date Approved _____

Signature of Installer _____

White - Inspection

Yellow - File

Pink - Applicant's

Gold - Assessor's Copy



7-28-11

INSTALLATION AND OPERATOR'S MANUAL



CSL6230 THRU CSL12590 CAST IRON BOILERS

Keep these instructions with the boiler at all times for
future reference

BOYERTOWN FURNACE Co.
PO Box 100
BOYERTOWN, PA 19512
1-610-369-1450

www.boyertownfurnace.com

Boiler Components

INSPECT FOR DAMAGE. All equipment is carefully manufactured, inspected, and packaged by experienced workers. Our responsibility ceases upon-delivery of the skidded boiler and component boxes to the carrier in good condition. ANY CLAIMS FOR DAMAGE OR SHORTAGES IN SHIPMENT MUST BE FILED IMMEDIATELY against the carrier by the consignee.

The boiler is shipped in multiple packages consisting of the following items:

1. Assembled casting strapped to a skid.
2. Cabinet parts box. See jacket assembly instructions for a complete listing of all items included.
3. Burner/Parts Box – Includes burner, aquastats, low water cutoff, safety relief valve, drain valve and associated trim piping. See packing list included in box for a complete list of all components.

Installation Clearances

Warning: Boilers in rooms shall be installed with the clearances from combustible materials not less than indicated below. Combustible materials are those made of or surfaced with wood, compressed paper, plant fibers, plastics, or other material that will ignite and burn, whether flame proofed or not, or whether plastered or not.

The boiler must not be installed on combustible flooring. The boiler is approved for installation on non combustible flooring only. The boiler must not be installed on carpeting or vinyl flooring

Minimum clearances to combustible construction are as follows:

TOP - 24 IN.
FRONT - 24 IN.
FLUE CONNECTOR SINGLE WALL VENT PIPING - 18 IN.
REAR - 6 IN.
SIDES - 6 IN.

Consult NFPA-31 for construction techniques where the above minimum clearances cannot be obtained

Minimum recommended clearances for service and access are as follows:

TOP - 24 IN.
FRONT - 24 IN. FROM BURNER
FLUE CONNECTOR - 18 IN.
REAR - 18 IN.
SIDES - 12 IN.

Ventilation and Combustion Air

Warning: This boiler must be supplied with combustion and ventilation air in accordance with ANSI Z223.1/NFPA54 and all applicable local codes. Air openings to combustion area must not be obstructed. Adequate combustion air must be supplied at all times. Ventilation of boiler room must be adequate enough to provide sufficient air for combustion. Never use an exhaust fan in the boiler room. The boiler room must never be under a negative pressure or improper burner operation, flue gas leakage and carbon monoxide emissions may occur.

Opening sizes must comply with state or local codes. In their absence, use the following when the boiler is installed in a confined room:

When a boiler is located in an unconfined space in a building of conventional frame or masonry construction infiltration may provide adequate air for combustion and ventilation. If there is any doubt, install air supply provisions for combustion and ventilation air.

When a boiler is located in a confined space and air for combustion and room ventilation is from inside buildings, the confined space shall be provided with two permanent openings, one starting 12 inches from the top and one 12 inches from the bottom of the enclosed space. Each opening shall have a minimum free area of 1 square inch per one thousand (1,000) BTU/HR of the total input rating of all appliances in the enclosed space, but must not be less than one hundred (100) square inches. These openings must freely communicate with the interior areas having adequate infiltration from the outside.

When a boiler is installed in a confined space, or in a building of unusually tight construction, air for combustion and room ventilation must be obtained from the outdoors by means of two permanent openings one starting 12 inches from the top and one 12 inches from the bottom of the enclosed space. When air is taken through the outside wall or vertical ducts, at least one square inch of free opening must be provided per 4000 Btu/Hr. When air is taken through horizontal ducts at least one square inch of free opening must be provided per 2000Bth/Hr. The minimum dimensions of rectangular air ducts shall not be less than 3 inches.

In calculating free area using louvers, grills or screens for the above, consideration shall be given to their blocking effect. Screens used shall not be smaller than ¼ inch mesh. If free area through a design of louver or grill is known, it should be used in calculating the opening size required to provide the free area specified. If the design and free area is not known, it may be assumed that wood louvers will have 20-25% free area and metal louvers and grills will have 60-75% free area.

Louvers and grills shall be fixed in the open position or interlocked with the boiler so that they are opened automatically during boiler operation.

Boiler Location

Warning: Never install the boiler on top of combustibile flooring. Never install the boiler in an area where combustibile materials, gasoline or any other products containing flammable vapors or liquids are stored.

Locate the boiler in an area that provides good access to the unit. To provide the best possible serviceability the boiler should be installed using the minimum recommended service and accessibility clearances as previously listed. Under no circumstances should the unit be installed next to combustibile materials with clearances less than listed in installation clearances above.

The boiler should be installed on a level, flat concrete floor or pad that is structurally sound and will support the combined weight of the boiler when filled with water. This boiler is designed to be installed on noncombustibile flooring only.

The boiler should be installed as close to the chimney as possible while still being located centrally to the piping system.

Boiler Block Assembly

All boilers are shipped as an assembled block. If it is necessary to split the block into sections for installation purposes reassemble the sections as follows:

To assemble split blocks, move the sections into line facing each other. Sections may be slid along boards placed beneath the sections. Inspect nipple ports for damage or burrs. Remove any burrs by brushing the ports very lightly. Remove old section sealant from the castings. Wipe the push nipples and nipple ports with a clean cloth. Apply a film of nipple compound to both nipple and port. Install the nipple in the port and then seal by hitting with a rubber mallet. Apply section sealant to one section only and slide the sections together. Install the four draw rods. Draw the sections together until the sections make iron to iron contact at a point around the top and bottom ports of each section. Check to ensure that the combustion chamber is sealed using a flash light or other lighting device. Place the light into the combustion chamber

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT

This is to certify that HARBORVIEW APARTMENTS LLC

Located At 127 YORK ST

Job ID: 2011-04-859-FAFS

CBL: 044 - - A - 005 - 001 - - - -

has permission to install a new fire alarm 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

SCANNED

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-04-859-FAFS	Date Applied: 4/22/2011	CBL: 044 - - A - 005 - 001 - - - - -	
Location of Construction: 127 YORK ST	Owner Name: HARBORVIEW APTS LLC	Owner Address: 277 TUTTLE RD CUMBERLAND CTR, ME 04021	Phone:
Business Name:	Contractor Name: Cunningham Security	Contractor Address: 10 Princes Point Rd., Yarmouth ME 04096	Phone: (207) -846-3350
Lessee/Buyer's Name:	Phone:	Permit Type: FIRE ALARM - Fire Alarm	Zone: R-6
Past Use: 12 residential Dwelling units	Proposed Use: 12 residential dwelling units -- install a fire alarm	Cost of Work: 8000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved w/conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: Type:
		Signature: <i>Bjarnes</i>	Signature:
Proposed Project Description: 127 York St. - install fire alarm		Pedestrian Activities District (P.A.D.)	

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 informatin 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 ___ Maj ___ Min ___ MM Date: 4/25/11 <i>OK w/conditions ABN</i>	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>ABN</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.**

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: 2011-04-859-FAFS

Located At: 127 YORK ST

CBL: 044 - - A - 005 - 001 - - - -

Conditions of Approval:

Fire

The fire alarm system shall comply with the City of Portland Standard for Signaling Systems for the Protection of Life and Property. All fire alarm installation and servicing companies shall have a Certificate of Fitness from the Fire Department.

The new automatic sprinkler system shall be supervised by the fire alarm system.

In field installation shall be installed per code as conditions dictate.

Records cabinet, FACP, annunciator(s), and pull stations shall be keyed alike.

Central Station monitoring for addressable fire alarm systems shall be by point.

All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FACP labeled "FIRE ALARM RECORDS".

Installation of a Fire Alarm system requires a Knox Box to be installed per city ordinance.

System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.

Fire Alarm system shall be maintained. If system is to be off line over 4 hours a fire watch shall be in place. Dispatch notification required 874-8576.

legal use 12 d.u.
#69-0517
2010-210

Job Summary Report
Job ID: 2011-04-859-FAFS

Report generated on Apr 25, 2011 9:24:18 AM

Job Type:	Fire Alarm / Suppression	Job Description:	127 York St.	Job Year:	2011
Building Job Status Code:	Initiate Plan Review	Pin Value:	1203	Tenant Name:	
Job Application Date:		Public Building Flag:	N	Tenant Number:	
Estimated Value:	8,000	Square Footage:			
Related Parties:		APTS HARBORVIEW		<i>Property Owner</i>	
		Cunningham Security - Cunningham Security		<i>FIRE ALARM INSTALLER</i>	
		Cunningham Security			

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: 6322

Location Details

Alternate Id	Parcel Number	Census Tract	GIS X	GIS Y	GIS Z	GIS Reference	Longitude	Latitude
N10506	044 A 005 001		M				-70.258851	43.650726

Location Type	Subdivision Code	Subdivision Sub Code	Related Persons	Address(es)
1				127 YORK STREET WEST

Location Use Code	Variance Code	Use Zone Code	Fire Zone Code	Inside Outside Code	District Code	General Location Code	Inspection Area Code	Jurisdiction Code
ELEVEN TO TWENTY FAMILY		RESIDENTIAL					DISTRICT 3	WEST END

Structure Details

Structure: Condo Conv - 12 Units GG

Occupancy Type Code:

Structure Type Code	Structure Status Type	Square Footage	Estimated Value	Address
Mutli-Family 5+ Building	0			127 YORK STREET WEST

Longitude	Latitude	GIS X	GIS Y	GIS Z	GIS Reference	User Defined Property	Value
						Alarms Commercial	0
						Alarms Commercial	1
						Number of Bathtubs and Showers	22
						Number of Clothes Washers	2



Fire Alarm 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.

*multi units
Tapes ok*

Installation address: 127 York Street CBL: 044A005001

Exact location: (within structure) Basement Boiler Room

Type of occupancy(s) (NFPA & ICC): 12 Unit Residential

Building owner: Harborview Development LLC

System Designer (point of contact): Michael Major
Must be

Designer phone: 207-846-3350 E-mail: mmajor@cunninghamsecurity.com

Installing contractor: Cunningham Security Systems Certificate of Fitness No: 1004

Contractor phone: 07-846-3350 E-mail: michelle@cunninghamsecurity.com

This is a new application: YES NO New AES Master Box: YES NO
(Include Master Box approval form)

Amendment to an existing permit: YES NO Permit no: _____

The following documents shall be provided with this application:

- Floor plans
- Wiring diagram
- Annunciator details
- Input/ Output Matrix
- Equipment data sheets
- Electrical Permit Pulled (check alarm/com)
- Scope of Work
- 11 1/2 x 17s
- pdf copy (may be e-mailed)
- Designer qualifications
- Battery/ voltage drop calcs

Master box approval only: YES NO
(If yes check *New AES Master Box* above)

COST OF WORK: \$7900

PERMIT FEE: 100.00
(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)

RECEIVED

APR 22 2011

Dept. of Building Inspections
City of Portland Maine

The **designer** shall be the responsible party for this application. Download a new copy of this application at www.portlandmaine.gov/fire for every submittal. Submit all plans in electronic PDF in addition to readable 11 1/2 x 17s to the Building Inspections Department, 389 Congress Street, Room 315, Portland, Maine 04101.

Prior to acceptance of any fire alarm 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 the *City of Portland Technical Standard for Signaling Systems for the Protection of Life and Property*, available at www.portlandmaine.gov/fire.

Applicant signature: *Michael Major* Date: 4/21/11

CUNNINGHAM

Security Systems

10 Princes Point Road Yarmouth Maine 04096
207-846-3350

Scope Of Work

The project at 127 York Street is the provision of a completely new fire alarm system to monitor the new sprinkler system currently being installed, provide smoke detection in the stairways and basement, and to provide occupant notification in the residential condominium units. As per your agreement with the building owner, there are no horn/strobes in the stairways and no system heat or smoke detectors in the units. There will be 120V interconnected smoke detectors in all of the units.

ANN-80

80-Character LCD Serial Annunciator



Annunciators

General

The ANN-80 annunciator is a compact, backlit, 80-character LCD fire annunciator that mimics the Fire Alarm Control Panel (FACP) display. It provides system status indicators for AC Power, Alarm, Trouble, Supervisory, and Alarm Silenced conditions. The ANN-80 and the FACP communicate over a two-wire serial interface employing the ANN-BUS communication format. Connected devices are powered, via two additional wires, by either the host FACP or a remote UL-listed, filtered power supply. ANN-80 is red; for white, order ANN-80-W.

The ANN-80 displays English-language text of system point information including device type, zone, independent point alarm, trouble or supervisory status, as well as any custom alpha labels programmed into the control panel. It includes control switches for remote control of critical system functions. (A keyswitch prevents unauthorized operation of the control switches.)

Up to eight ANN-80s may be connected to the ANN-BUS of each FACP. No programming is required, which saves time during system commissioning.

Features

- Listed to UL Standard 864, 9th Edition.
- Backlit 80-character LCD display (20 characters x 4 lines).
- Mimics all display information from the host panel.
- Control switches for System Acknowledge, Signal Silence, Drill, and Reset.
- Control switches can be independently enabled or disabled at the FACP.
- Keyswitch enables/disables control switches and mechanically locks annunciator enclosure
- Keyswitch can be enabled or disabled at the FACP.
- Enclosure supervised for tamper.
- System status LEDs for AC Power, Alarm, Trouble, Supervisory, and Alarm Silence.
- Local sounder can be enabled or disabled at the FACP.
- ANN-80 connects to the ANN-BUS terminal on the FACP and requires minimal panel programming.
- Displays device type identifiers, individual point alarm, trouble, supervisory, zone, and custom alpha labels.
- Time-and date display field.
- Surface mount directly to wall or to single, double, or 4" square electrical box.
- Semi-flush mount to single, double, or 4" square electrical box. Use ANN-SB80KIT for angled view mounting.
- Can be remotely located up to 6,000 feet (1,800 m) from the panel.
- Backlight turns off during AC loss to conserve battery power but will turn back on if an alarm condition occurs.
- May be powered by 24 VDC from the host FACP or by remote power supply (requires 24 VDC).
- Up to eight ANN-80s can be connected on the ANN-BUS.

Controls and Indicators

- AC Power
- Alarm
- Trouble



52417cov.jpg

- Supervisory
- Alarm Silenced

Specifications

- **Operating voltage range:** 18 VDC to 28 VDC.
- **Current consumption @ 24 VDC nominal** (filtered and non-resettable): 40 mA maximum.
- **Ambient temperature:** 32°F to 120°F (0°C to 49°C).
- **Relative humidity:** 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F).
- 5.375" (13.65 cm.) high x 6.875" (17.46 cm.) wide x 1.375" (3.49 cm.) deep.
- For use indoors in a dry location.
- All connections are power-limited and supervised.

Agency Listings and Approvals

The listings and approvals below apply to the ANN-80. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL:** S2424
- **FM approved**
- **CSFM:** 7120-0075:211
- **MEA:** 442-06-E

The ANN-BUS

POWERING THE DEVICES ON THE ANN-BUS FROM AUXILIARY POWER SUPPLY

The ANN-BUS can be powered by an auxiliary power supply when the maximum number of ANN-BUS devices exceeds the ANN-BUS power requirements. See the FACP manual for more information.

ANN-BUS DEVICE ADDRESSING

Each ANN-BUS device requires a unique address (ID Number) in order to communicate with the FACP. A maximum of 8 devices can be connected to the FACP ANN-BUS communication circuit. See the FACP manual for more information.

WIRE REQUIREMENTS: COMMUNICATIONS CIRCUIT

The ANN-80 connects to the FACP ANN-BUS communications circuit. To determine the type of wire and the maximum wiring distance that can be used with FACP ANN-BUS accessory modules, it is necessary to calculate the total worst case current draw for all modules on a single 4-conductor bus. The total worst case current draw is calculated by adding the individual worst case currents for each module.

NOTE: For total worst case current draw on a single ANN-BUS refer to appropriate FACP manual.

After calculating the total worst case current draw, the following table specifies the maximum distance the modules can be located from the FACP on a single wire run. The table ensures 6.0 volts of line drop maximum. In general, the wire length is limited by resistance, but for heavier wire gauges, capacitance is the limiting factor.

These cases are marked in the chart with an asterisk (*). Maximum length can never be more than 6,000 feet (1,800 m), regardless of gauge used. See table below.

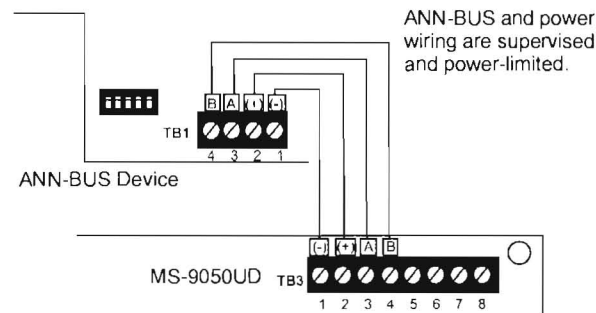
WIRE REQUIREMENTS: POWER CIRCUIT

- 14 to 18 AWG (0.75 - 2.08 mm²) wire for 24 VDC power circuit is acceptable. Power wire distance limitation is set by 1.2 volt maximum line drop from source to end of circuit.
- All connections are power-limited and supervised.
- A maximum of eight ANN-80 modules may be connected to this circuit.

Communication Pair Wiring Distance: FACP to Last ANN-BUS Module				
Total Worst Case Current Draw (amps)	22 Gauge	18 Gauge	16 Gauge	14 Gauge
0.100	1,852 ft.	4,688 ft.	* 6,000 ft.	*6,000 ft.
0.200	926 ft.	2,344 ft.	3,731 ft.	5,906 ft.
0.300	617 ft.	1,563 ft.	2,488 ft.	3,937 ft.
0.400	463 ft.	1,172 ft.	1,866 ft.	2,953 ft.
0.500	370 ft.	938 ft.	1,493 ft.	2,362 ft.
0.600	309 ft.	781 ft.	1,244 ft.	1,969 ft.
0.700	265 ft.	670 ft.	1,066 ft.	1,687 ft.
0.800	231 ft.	586 ft.	933 ft.	1,476 ft.
0.900	206 ft.	521 ft.	829 ft.	1,312 ft.
1.000 (max.)	185 ft.	469 ft.	746 ft.	1,181 ft.

WIRING CONFIGURATION

The following figure illustrates the wiring between the FACP and ANN-BUS devices.



FACP Wiring to ANN-BUS Device

ORDERING OPTIONS:

- ANN-80:** Red 80 character LCD Annunciator.
- ANN-80-W:** White, 80 character LCD Annunciator.
- ANN-SB80KIT-R:** Red surface mount backbox with angled wedge.
- ANN-SB80KIT-W:** White surface mount backbox with angled wedge.

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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.



Made in the U.S. A.

For more information, contact Fire•Lite Alarms. Phone: (800) 627-3473, FAX: (877) 699-4105. www.firelite.com

MS-9200UDLS(E) Rev 3

Intelligent Addressable FACP with Built-In Communicator



Addressable Fire Alarm Control Panel

General

The Fire•Lite MS-9200UDLS Rev 3 with Version 5.0 firmware is a combination FACP (Fire Alarm Control Panel) and DACT (Digital Alarm Communicator/Transmitter) all on one circuit board. This compact intelligent addressable control panel has an extensive list of powerful features.

While the MS-9200UDLS Rev 3 may be used with an SLC configured in the CLIP (Classic Loop Interface Protocol) mode, it can also operate in LiteSpeed™ mode—Fire•Lite's latest polling technology—for a quicker device response time. LiteSpeed's patented technology polls 10 devices at a time. This improvement allows a fully-loaded panel with up to 198 devices to report an incident and activate the notification circuits in under 10 seconds. With Litespeed polling, devices can be wired on standard twisted, unshielded wire up to a distance of 10,000 feet.

The MS-9200UDLS Rev 3's quick-remove chassis protects the electronics during construction. The backbox can be installed allowing field wiring to be pulled. When construction is completed, the electronics can be quickly installed with just two bolts.

New features for Rev 3 with Version 5.0 firmware include removable terminal blocks, improved transient protection, additional secondary ANN-BUS, and increased power for the resettable and remote sync outputs.

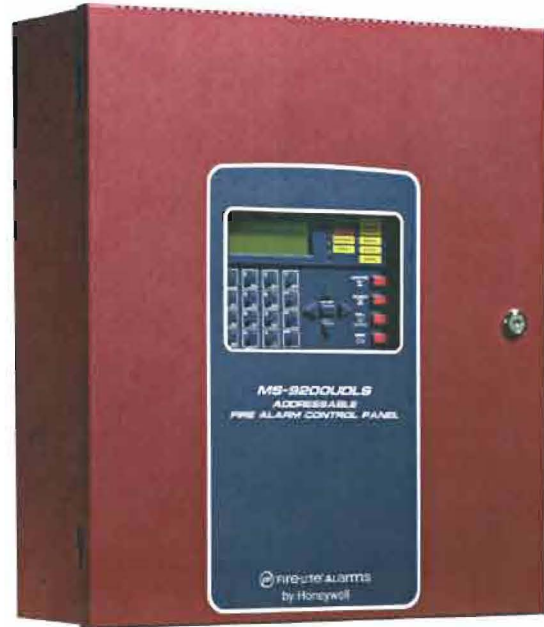
Available accessories include ANN-BUS devices as well as ACS LED, graphic and LCD annunciators, and reverse polarity/city box transmitter.

The integral DACT transmits system status (alarms, supervisories, troubles, AC loss, etc.) to a Central Station via the public switched telephone network. It also allows remote and local programming of the control panel using the PS-Tools Upload/Download utility. In addition, the control panel may be programmed or interrogated off-site via the public switched telephone network. Any personal computer with Windows® XP or greater, a compatible modem, and PS-Tools—the Fire•Lite Upload/Download software kit—may serve as a Service Terminal. This allows download of the entire program or upload of the entire program, history file, walktest data, current status and system voltages. The panel can also be programmed through the FACP's keypad or via a standard PS-2 computer keyboard, which can be plugged directly into the printed circuit board. This permits easy typing of address labels and other programming information.

Version 5.0 firmware supports the following: Primary and Secondary ANN-bus devices, AD355 (LiteSpeed), USB port, NAC circuit diagnostics, a new report has been added to the walktest that lists untested devices, new device types added: audio telephone type code for ACC 25/50ZST, Photo Supervisory and auto-resettable Drill (non-latching).

The FireWatch Series internet monitoring modules IPDACT-2 and IPDACT-2UD permit monitoring of alarm signals over the Internet saving the monthly cost of two dedicated business telephone lines. Although not required, the secondary telephone line may be retained providing backup communication over the public switched telephone line.

NOTE: Unless otherwise specified, the term MS-9200UDLS is used in this document to refer to both the MS-9200UDLS and the MS-9200UDLS(E) FACP's (Fire Alarm Control Panels).



Features

- Listed to UL standard 864, 9th edition.
- On-board DACT.
- Remote site or local USB port upload/download, using PS-Tools.
- Four (4) Style Y (Class B) NAC circuits, which can be converted to four (4) Style Z (Class A) circuits with optional ZNAC-92 converter module. (Up to 6.0 amps total NAC power when using optional XRM-24B.)
- Selectable strobe synchronization for System Sensor, Wheelock, and Gentex devices.
- Remote Acknowledge, Silence, Reset and Drill via addressable monitor modules or LCD-80F, ANN-80 or Legacy ACS Annunciators.
- ANN-BUS for connection to following optional modules (cannot be used if ACS annunciators are used):
 - ANN-80(-W) Remote LCD Annunciator
 - ANN-I/O LED Driver
 - ANN-S/PG Printer Module
 - ANN-RLY Relay Module
 - ANN-LED Annunciator Module
 - ANN-RLED Annunciator Module alarms only
 - ROME Relay Option Module Enclosure
- ACS/TERM:
 - ACS Annunciators: Up to 32 Legacy ACM Series annunciators (ACM-16AT or ACM-32 series). Cannot be used if ANN-BUS devices are used.
 - Terminal-mode Annunciators: Up to 32 Legacy LCD-80F remote annunciators.

- EIA-232 printer/PC interface (variable baud rate) on main circuit board, for use with optional UL-listed printer PRN-6F.
- Integral 80-character LCD display with backlighting.
- Real-time clock/calendar with automatic daylight savings control.
- Detector sensitivity test capability (NFPA 72 compliant).
- History file with 1,000-event capacity.
- Maintenance alert warns when smoke detector dust accumulation is excessive.
- Automatic device type-code verification.
- One person audible or silent walk test with walk-test log and printout.
- Point trouble identification.
- Waterflow (nonsilenceable) selection per monitor point.
- System alarm verification selection per detector point.
- PAS (Positive Alarm Sequence) and presignal delay per point (NFPA 72 compliant).

NOTE: Only detectors may participate in PAS.

SLC LOOP:

- SLC can be configured for NFPA Style 4, 6, or 7 operation.
- SLC supports up to 198 addressable devices per loop (99 detectors and 99 monitor, control, or relay modules).
- SLC loop maximum length 10,000 ft. (3,000 m.).
See *installation manual for wire tables*.

NOTIFICATION APPLIANCE CIRCUITS (NACS):

- Four onboard NACs with additional NAC capability using output control modules (CMF-300 or CMF-300-6). The four Class B NACs can be converted to four Class A NACs with optional ZNAC-92 converter module.
- Silence Inhibit and Auto Silence timer options.
- Continuous, March Time, Temporal or California code for main circuit board NACs with two-stage capability.
- Selectable strobe synchronization per NAC.
- 2.5 amps maximum per each NAC circuit.

NOTE: Maximum 24VDC system power output is shared among all NAC circuits and 24VDC special-application auxiliary power outputs. Total available output is 3.0 amps. Using the optional XRM-24B transformer increases 24VDC output to 6.0 amps.

PROGRAMMING AND SOFTWARE:

- Autoprogram (learn mode) reduces installation time.
- Custom English labels (per point) may be manually entered or selected from an internal library file.
- Three Form-C relay outputs (two programmable).
- 99 software zones.
- Continuous fire protection during online programming at the front panel.
- Program Check automatically catches common errors not linked to any zone or input point.
- **OFFLINE PROGRAMMING:** Create the entire program in your office using a Windows®-based software package (order programming kit PS-Tools, separately). Upload/download system programming locally to the MS-9200UDLS Rev 3 in less than one minute.
- USB upload/download programming with standard Male-A to Male-B cable.

User Interface

LED INDICATORS

- AC Power (green)
- Fire Alarm (red)

- Supervisory (yellow)
- Alarm Silenced (yellow)
- System Trouble (yellow)
- Maintenance/Presignal (yellow)
- Disabled (yellow)
- Battery Fault (yellow)
- Ground Fault (yellow)

KEYPAD CONTROLS

- Acknowledge/Step
- Alarm Silence
- Drill
- System Reset (lamp test)
- 16-key alpha-numeric pad (similar to telephone keypad)
- 4 cursor keys
- Enter

Product Line Information

MS-9200UDLS: 198-point addressable Fire Alarm Control Panel, one SLC loop. Includes 80-character LCD display, single printed circuit board mounted on chassis, and cabinet. 120 VAC operation.

MS-9200UDLSE: Same as **MS-9200UDLS**, except with 240 VAC operation.

4XTMF Reverse Polarity Transmitter Module: Provides supervised output for local energy municipal box transmitter, alarm, and trouble.

ZNAC-92: Optional converter module which converts four (4) Style Y (Class B) NAC circuits to four (4) Style Z (Class A) circuits.

PK-CD Programming software for Windows®-based PC computer (cable not included), available on www.firelite.com.

DP-9692: Optional dress panel for MS-9200UDLS Rev 3.

TR-CE: Optional trim Ring for semi-flush mounting.

BB-26: Battery backbox, holds up to two 25 AH batteries and CHG-75.

BB-55F: Battery box, houses two 55 AH batteries.

CHG-75: Battery charger for lead-acid batteries with a rating of 25 to 75 AH.

CHG-120F: Remote battery charging system for lead-acid batteries with a rating of 55 to 120 AH. Requires additional BB-55F for mounting.

BAT Series: Batteries, see data sheet DF-52397.

XRM-24B(E): Optional transformer. Increases system power output to 6.0 amps. Use XRM-24BE with MS-9200UDLS Rev 3(E).

PRT/PK-CABLE: Cable printer/personal computer interface cable; required for printer or for local upload/download programming and updating panel firmware.

PRN-6F: UL listed compatible event printer. Uses tractor-fed paper.

IPDACT-2/2UD, IPDACT Internet Monitoring Module: Mounts in bottom of enclosure with optional mounting kit (PN IPBRKT). Connects to primary and secondary DACT telephone output ports for internet communications over customer provided ethernet internet connection. Requires compatible Teldat VisorALARM Central Station Receiver. Can use DHCP or static IP. (See *data sheet DF-60407 or DF-52424 for more information.*)

IPBRKT: Mounting kit for IPDACT-2/2UD in common enclosure.

IPSPLT: Y-adaptor option allows connection of both panel dialer outputs to one IPDACT-2/2UD cable input.

COMPATIBLE ANNUNCIATORS

ANN-80(-W): LCD Annunciator is a remote LCD annunciator that mimics the information displayed on the FACP LCD display. Recommended wire type is un-shielded. (Basic model is red; order -W version for white; see DF-52417.)

ANN-LED: Annunciator Module provides three LEDs for each zone: Alarm, Trouble and Supervisory. Ships with red enclosure (see DF-60241).

ANN-RLED: Provides alarm (red) indicators for up to 30 input zones or addressable points. (See DF-60241).

ANN-RLY: Relay Module, which can be mounted inside the cabinet, provides 10 programmable Form-C relays. (See DF-52431.)

ROME: Relay Option Module Enclosure. Provides one **ANN-RLY** Relay Module already installed. The ROME Series provides mounting space for one additional Relay Module or one addressable Multi-module. (See *Installation Sheet PN 53530*.)

ANN-S/PG: Serial/Parallel Printer Gateway module provides a connection for a serial or parallel printer. (See DF-52429.)

ANN-I/O: LED Driver Module provides connections to a user supplied graphic annunciator. (See DF-52430.)

ACM-BRF: Relay module provides 8 Form-C 5.0 amp relays.

ACS-LED Zone Series: LED-type fire annunciators capable of providing up to 99 software zones of annunciation. Available in increments of 16 or 32 points to meet a variety of applications.

LDM Graphic Series: Lamp Driver Module series for use with custom graphic annunciators.

LCD-80F (Liquid Crystal Display) point annunciator: 80-character, backlit LCD-type fire annunciators capable of displaying English-language text.

NOTE: For more information on Compatible Annunciators for use with the MS-9200UDLS Rev 3, see the following data sheets (document numbers) ACM-BRF (DF-51555), ACS/ACMSeries (DF-52378), LDM Series (DF-51384), LCD-80F (DF-52185).

LITESPEED COMPATIBLE ADDRESSABLE DEVICES

All feature a polling LED and rotary switches for addressing.

CP355: Addressable low-profile ionization smoke detector.

SD355: Addressable low-profile photoelectric smoke detector.

SD355T: Addressable low-profile photoelectric smoke detector with thermal sensor.

SD355R: Addressable remote test capable detector for use with D355PL or DNR(W) duct smoke detector housings.

H355: Fast-response, low-profile heat detector.

H355R: Fast-response, low-profile heat detector with rate-of-rise option.

H355HT: Fixed high-temperature detector that activates at 190F/88C.

AD355(A): Low-profile, intelligent, "Adapt" multi-sensor detector (B350LP base included).

BEAM355: Intelligent beam smoke detector.

BEAM355S: Intelligent beam smoke detector with integral sensitivity test.

D355PL: Innovair Flex low-flow non-relay duct-detector housing. SD355R included.

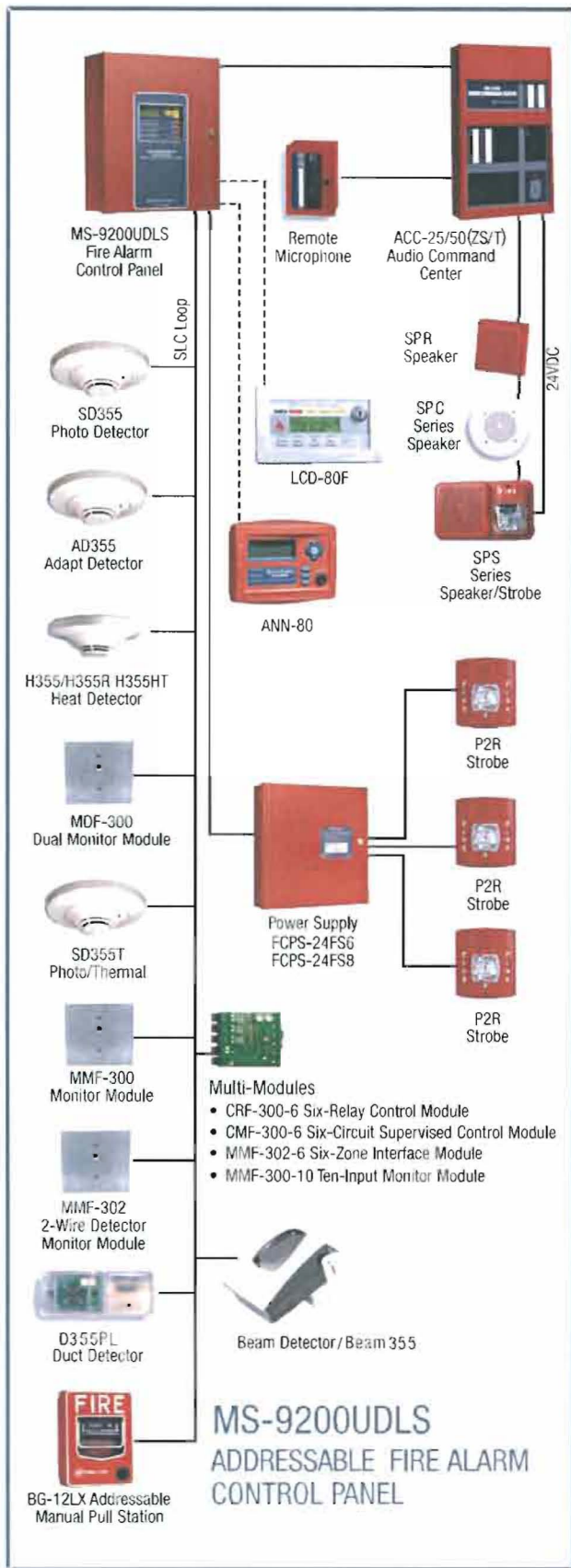
DNRW: Innovair Flex low-flow non-relay duct-detector housing, with NEMA-4 rating. Watertight. (Order SD355R separately.)

MMF-300: Addressable Monitor Module for one zone of normally-open dry-contact initiating devices. Mounts in standard 4.0" (10.16 cm.) box. Includes plastic cover plate and end-of-line resistor. Module may be configured for either a Style B (Class B) or Style D (Class A) IDC.

MDF-300: Dual Monitor Module. Same as MMF-300 except it provides two Style B (Class B) only IDCs.

MMF-301: Miniature version of MMF-300. Excludes LED and Style D option. Connects with wire pigtails. May mount in device backbox.

MMF-302: Similar to MMF-300, but may monitor up to 20 conventional two-wire detectors. Requires resettable 24 VDC power. Consult factory for compatible smoke detectors.



CMF-300: Addressable Control Module for one Style Y/Z (Class B/A) zone of supervised polarized Notification Appliances. Mounts directly to a 4.0" (10.16 cm.) electrical box. Notification Appliance Circuit option requires external 24 VDC to power notification appliances.

CRF-300: Addressable relay module containing two isolated sets of Form-C contacts, which operate as a DPDT switch. Mounts directly to a 4.0" (10.16 cm.) box, surface mount using the SMB500.

BG-12LX: Addressable manual pull station with interface module mounted inside.

I300: Fault Isolator Module. This module isolates the SLC loop from short circuit conditions (required for Style 6 or 7 operation).

SMB500: Used to mount all modules except the MMF-301 and M301.

MMF-300-10: Ten-input monitor module. Mount one or two modules in a BB-2F cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-6F.

MMF-302-6: Six-zone interface module for compatible conventional two-wire detectors. Mount one or two modules in a BB-2F cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-6F.

CMF-300-6: Six-circuit supervised control module. Mount one or two modules in a BB-2F cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-6F.

CRF-300-6: Six Form-C relay control module. Mount one or two modules in a BB-2F cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-6F.

NOTE: 1) For more information on Compatible Addressable Devices for use with the MS-9200UDLS Rev 3, see the following data sheets (document numbers): AD355 (DF-52324), BG-12LX (DF-52013), CMF-300-6 (DF-52365), CRF-300-6 (DF-60379), CMF/CRF Series (DF-52130), CP355 (DF-52383), D355PL (DF-52398), H355 Series (DF-52385), I300 (DF-52389), MMF-300 Series/MDF-300 (DF-52121), MMF-300-10 (DF-52347), MMF-302-6 (DF-52356), SD355/SD355T (DF-52384). 2) Legacy 300 Series detection devices such as the CP300/CP350, SD300(T)/SD350(T) and older modules such as the M300, M301, M302, C304, and BG-10LX are **not compatible** with LiteSpeed polling. If the SLC contains one of these devices, polling must be set for standard LiteSpeed protocol. Please consult factory for further information on previous 300 Series devices.

Wiring Requirements

While shielded wire is not required, it is recommended that all SLC wiring be twisted-pair to minimize the effects of electrical interference. Wire size should be no smaller than 18 AWG (0.78 mm²) and no larger than 12 AWG (3.1 mm²). The wire size depends on the length of the SLC circuit. Refer to the panel manual for wiring details.

SYSTEM SPECIFICATIONS

System Capacity

- Intelligent Signalling Line Circuits..... 1
- Addressable device capacity 198
- Programmable software zones..... 99
- ACS Annunciators 32
- ANN-bus devices..... 16

Electrical Specifications

AC Power: MS-9200UDLS Rev 3: 120 VAC, 60 Hz, 3.0 amps. MS-9200UDLS Rev 3E: 240 VAC, 50 Hz, 1.5 amps. Wire size: minimum 14 AWG (2.00 mm²) with 600 V insulation.

Battery charger capacity: 7 AH - 18 AH batteries. Up to two 18 Ah batteries can be housed in the FACP cabinet. Larger batteries require an external battery charger such as the CHG-75 or CHG-120, and a separate battery cabinet such as the BB-26 or NFS-LBB.

Communication Loop: Supervised and power-limited.

Notification Appliance Circuits: Each terminal block provides connections for two Style Y (Class B) for a total of four Style Y (Class B) or with an optional ZNAC-92 module converts to four Style Z (Class A) NACs. Maximum signaling current per circuit: 2.5 amps. End-of-Line Resistor: 4.7K ohm, 1/2 watt (P/N 71252 UL listed) for Style Y (Class B) NAC. Refer to panel documentation and *Fire-Lite Device Compatibility Document* for listed compatible devices.

Two Programmable Relays and One Fixed Trouble Relay: Contact rating: 2.0 amps @ 30 VDC (resistive), 0.5 amps @ 30 VAC (resistive). Form-C relays.

Special Application Non-resettable Power (24 VDC Nominal): Jumper selectable (JP4) for conversion to resettable power output. Up to 1.0 amp total DC current available from each output. Power-limited.

Special Application Resettable Power (24 VDC nominal): Jumper selectable (JP6) for conversion to non-resettable power. Up to 1.0 amp total DC current available. Refer to the *Fire-Lite Device Compatibility Document* for listed compatible devices.

Remote Sync Output: Remote power supply synchronization output. Nominal special application power: 24 VDC. Maximum current: 300 mA. End-of-Line Resistor: 4.7K ohm. Output linked to NAC 1 control. Supervised and power-limited.

Telephone Interface: Unless used with Teldat VISORALARM, requires dedicated business telephone number with a minimum of 5 volts DC (off-hook voltage). Obtain dedicated phone line directly from your local phone company. Do not use shared phone lines or PBX (digital) type phone line extensions.

Cabinet Specifications

Door: 19.26" (48.92 cm.) high x 16.82" (42.73 cm.) wide x 0.12" (.30 cm.) deep. **Backbox:** 19.00" (48.26 cm.) high x

16.65" (42.29 cm.) wide x 5.20" (13.34 cm.) deep. **Trim Ring (TR-CE):** 22.00" (55.88 cm.) high x 19.65" (49.91 cm.) wide.

Shipping Specifications

Weight: 26.9 lbs. (12.20 kg.) **Dimensions:** 20.00" (50.80 cm.) high x 22.5" (57.15 cm.) wide x 8.5" (21.59 cm.) deep.

Temperature and Humidity Ranges

This system meets NFPA requirements for operation at 0 – 49°C/32 – 120°F and at a relative humidity 93% ± 2% RH (noncondensing) at 32°C ± 2°C (90°F ± 3°F). However, the useful life of the system's standby batteries and the electronic components may be adversely affected by extreme temperature ranges and humidity. Therefore, it is recommended that this system and its peripherals be installed in an environment with a normal room temperature of 15 – 27°C/60 – 80°F.

NFPA Standards

The MS-9200UDLS Rev 3 complies with the following NFPA 72 Fire Alarm Systems requirements:

- **LOCAL** (Automatic, Manual, Waterflow and Sprinkler Supervisory).
- **AUXILIARY** (Automatic, Manual and Waterflow) (requires 4XTMF).
- **REMOTE STATION** (Automatic, Manual, Waterflow and Sprinkler Supervisory) (Where a DACT is not accepted, the alarm, trouble and supervisory relays may be connected to UL 864 listed transmitters. For reverse polarity signaling of alarm and trouble, 4XTMF is required.)
- **PROPRIETARY** (Automatic, Manual, Waterflow and Sprinkler Supervisory).
- **CENTRAL STATION** (Automatic, Manual, Waterflow and Sprinkler Supervisory).
- **OT, PSDN** (Other Technologies, Packet-switched Data Network)

Agency Listings and Approvals

The listings and approvals below apply to the basic MS-9200UDLS Rev 3 control panel. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S624
- **FM approved**
- **CSFM:** 7165-0075:0208
- **MEA:** 120-06-E

For ULC-listed version, see DF-60599.

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www.firelite.com

MMF-300-10(A)

Ten-Input Monitor Module



Addressable Devices

General

The **MMF-300-10 ten-input monitor module** is an interface between a control panel and normally open contact devices in intelligent alarm systems such as pull stations, security contacts, or flow switches.

The first address on the MMF-300-10 is set from 01 to 150 and the remaining modules are automatically assigned to the next nine higher addresses. Provisions are included for disabling a maximum of two unused addresses.

The supervised state (normal, open, or short) of the monitored device is sent back to the panel. A common SLC input is used for all modules, and the initiating device loops share a common supervisory supply and ground — otherwise each monitor operates independently from the others.

Each MMF-300-10 module has panel-controlled green LED indicators. The panel can cause the LEDs to blink, latch on, or latch off.

NOTE: Unless otherwise specified, the term **MMF-300-10** is used in this data sheet to refer to both the MMF-300-10 and the MMF-300-10A (ULC-listed version).

Features

- Listed to UL Standard 864, 9th edition.
- Ten addressable Class B or five addressable Class A initiating device circuits.
- Removable 12 AWG (3.25 mm²) to 18 AWG (0.9 mm²) plug-in terminal blocks.
- Status indicators for each point.
- Unused addresses may be disabled.
- Rotary address switches.
- Class A or Class B operation.
- Flexible mounting options.
- Mounting hardware included.

Specifications

Standby current: 3.5 mA (SLC current draw with all addresses used; if some addresses are disabled, the standby current decreases).

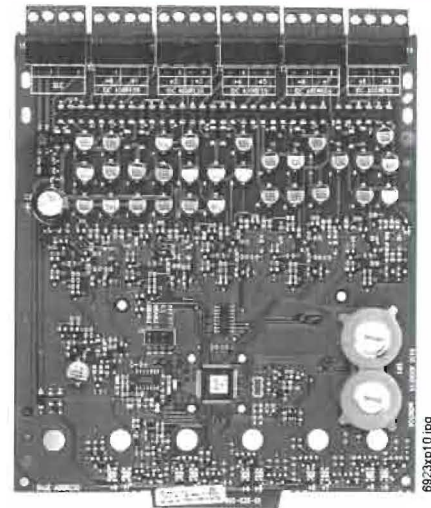
Alarm current: 55 mA (assumes all ten LEDs solid ON).

Temperature range: 32°F to 120°F (0°C to 49°C) for UL applications; -10°C to +55°C for EN54 applications.

Humidity: 10% to 85% noncondensing for UL applications; 10% to 93% noncondensing for EN54 applications.

Dimensions: 6.8" (172.72 mm) high x 5.8" (147.32 mm) wide x 1.25" (31.75 mm) deep.

Shipping weight: 0.76 lb. (0.345 kg) including packaging.



Mounting options:

- CHS-6 chassis: Up to 6 modules.
- BB-6F cabinet: Up to 6 modules.
- BB-2F cabinet: One or two modules.

Wire gauge: 12 AWG (3.25 mm²) to 18 AWG (0.9 mm²).

Power-limited circuits must employ type FPL, FPLR, or FPLP cable as required by Article 760 of the NEC.

MMF-300-10 is shipped in Class B position; remove shunt for Class A operation.

Maximum SLC wiring resistance: 40 or 50 ohms, panel dependent.

Maximum IDC wiring resistance: 1500 ohms.

Maximum IDC voltage: 10.2 VDC.

Maximum IDC current: 240 μ A.

Agency Listings and Approvals

The listings and approvals below apply to the MMF-300-10(A) Ten-Input Monitor Module. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S2424
- **ULC Listed:** S2424
- **CSFM approved:** 7300-0075:205
- **FM approved**
- **MEA approved:** 55-02-E

Product Line Information

MMF-300-10: Ten-input monitor module.

MMF-300-10A: Same as above with ULC Listing.

BB-2F: Optional cabinet for one or two modules. **Dimensions, DOOR:** 9.234" (23.454 cm) wide (9.484" [24.089 cm] including hinges), x 12.218" (31.0337 cm) high, x 0.672" (1.7068 cm) deep; **BACKBOX:** 9.0" (22.860 cm) wide (9.25" [23.495 cm] including hinges), x 12.0" (30.480 cm) high x 2.75" (6.985 cm); **CHASSIS (installed):** 7.150" (18.161 cm) wide overall x 7.312" (18.5725 cm) high interior overall x 2.156" (5.4762 cm) deep overall.

BB-6F: Optional cabinet for up to six modules mounted on CHS-6 chassis (*below*). **Dimensions, DOOR:** 24.0" (60.96 cm) wide x 12.632" (32.0852 cm) high, x 1.25" (3.175 cm) deep, hinged at bottom; **BACKBOX:** 24.0" (60.96 cm) wide x 12.550" (31.877 cm) high x 5.218" (13.2537 cm) deep.

CHS-6: Chassis, mounts up to six modules in BB-6F.

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Made in the U.S. A.



Selectable-Output Horns, Strobes, and Horn Strobes

SpectrAlert® Advance selectable-output horns, strobes, and horn strobes are rich with features guaranteed to cut installation times and maximize profits.



SPECTRAlert
ADVANCE
From System Sensor

Features

- Plug-in design with minimal intrusion into the back box
- Tamper-resistant construction
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Field-selectable candela settings on wall and ceiling units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185
- Horn rated at 88+ dBA at 16 volts
- Rotary switch for horn tone and three volume selections
- Universal mounting plate for wall and ceiling units
- Mounting plate shorting spring checks wiring continuity before device installation
- Electrically compatible with existing SpectrAlert products
- Compatible with MDL sync module

The SpectrAlert Advance series offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry. With white and red plastic housings, wall and ceiling mounting options, and plain and FIRE-printed devices, SpectrAlert Advance can meet virtually any application requirement.

Like the entire SpectrAlert Advance product line, horns, strobes, and horn strobes include a variety of features that increase their application versatility while simplifying installation. All devices feature plug-in designs with minimal intrusion into the back box, which make installations fast and foolproof while virtually eliminating costly and time-consuming ground faults. Furthermore, a universal mounting plate with an onboard shorting spring tests wiring continuity before the device is installed, protecting devices from damage.

In addition, field-selectable candela settings, automatic selection of 12- or 24-volt operation, and a rotary switch for horn tones with three volume selections enables installers to easily adapt devices to suit a wide range of application requirements.

Agency Listings



SpectrAlert Advance Specifications

Architect/Engineer Specifications

General

SpectrAlert Advance horns, strobes, and horn strobes shall mount to a standard 4 × 4 × 1½-inch back box, 4-inch octagon back box, or double-gang back box. Two-wire products shall also mount to a single-gang 2 × 4 × 1½-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance products, when used with the Sync-Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync-Circuit Module, 12-volt-rated notification appliance circuit outputs shall operate between 9 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 17 and 33 volts. Indoor SpectrAlert Advance products shall operate between 32 and 120 degrees Fahrenheit from a regulated DC or full-wave rectified unfiltered power supply. Strobes and horn strobes shall have field-selectable candela settings including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185.

Strobe

The strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

Horn Strobe Combination

The horn strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 and UL 464 and shall be approved for fire protective service. The horn strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The horn shall have three audibility options and an option to switch between a temporal three-pattern and a non-temporal (continuous) pattern. These options are set by a multiple position switch. On four-wire products, the strobe shall be powered independently of the sounder. The horn on horn strobe models shall operate on a coded or non-coded power supply.

Synchronization Module

The module shall be a System Sensor Sync-Circuit model MDL listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1 Hz and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn strobe models over a single pair of wires. The module shall mount to a 4¼ × 4¼ × 2½-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

Physical/Electrical Specifications

Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
Humidity Range	10 to 93% non-condensing
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 12 DC/FWR or regulated 24 DC/FWR ¹
Operating Voltage Range ²	8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
Input Terminal Wire Gauge	12 to 18 AWG
Ceiling-Mount Dimensions (including lens)	6.8" diameter × 2.5" high (173 mm diameter × 64 mm high)
Wall-Mount Dimensions (including lens)	5.6" L × 4.7" W × 2.5" D (142 mm L × 119 mm W × 64 mm D)
Horn Dimensions	5.6" L × 4.7" W × 1.3" D (142 mm L × 119 mm W × 33 mm D)
Wall-Mount Back Box Skirt Dimensions (BBS-2, BBSW-2)	5.9" L × 5.0" W × 2.2" D (151 mm L × 128 mm W × 56 mm D)
Ceiling-Mount Back Box Skirt Dimensions (BBSC-2, BBSCW-2)	7.1" diameter × 2.2" high (180 mm diameter × 57 mm high)
Wall-Mount Trim Ring Dimensions (sold as a 5 pack) (TR-HS, TRW-HS)	5.7" L × 4.8" W × 0.35" D (145 mm L × 122 mm W × 9 mm D)
Ceiling-Mount Trim Ring Dimensions (sold as a 5 pack) (TRC-HS, TRCW-HS)	6.9" diameter × 0.35" high (175 mm diameter × 9 mm high)

Notes:

1. Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.
2. P, S, PC, and SC products will operate at 12 V nominal only for 15 and 15/75 cd.

UL Current Draw Data

UL Max. Strobe Current Draw (mA RMS)						UL Max. Horn Current Draw (mA RMS)					
	Candela	8-17.5 Volts		16-33 Volts		Sound Pattern	dB	8-17.5 Volts		16-33 Volts	
		DC	FWR	DC	FWR			DC	FWR	DC	FWR
Standard	15	123	128	66	71	Temporal	High	57	55	69	75
Candela Range	15/75	142	148	77	81	Temporal	Medium	44	49	58	69
	30	NA	NA	94	96	Temporal	Low	38	44	44	48
	75	NA	NA	158	153	Non-temporal	High	57	56	69	75
	95	NA	NA	181	176	Non-temporal	Medium	42	50	60	69
	110	NA	NA	202	195	Non-temporal	Low	41	44	50	50
	115	NA	NA	210	205	Coded	High	57	55	69	75
	135	NA	NA	228	207	Coded	Medium	44	51	56	69
High Candela Range	150	NA	NA	246	220	Coded	Low	40	46	52	50
	177	NA	NA	281	251						
	185	NA	NA	286	258						

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, Standard Candela Range (15-115 cd)										
DC Input	8-17.5 Volts				16-33 Volts					
	15	15/75	15	15/75	30	75	95	110	115	
Temporal High	137	147	79	90	107	176	194	212	218	
Temporal Medium	132	144	69	80	97	157	182	201	210	
Temporal Low	132	143	66	77	93	154	179	198	207	
Non-Temporal High	141	152	91	100	116	176	201	221	229	
Non-Temporal Medium	133	145	75	85	102	163	187	207	216	
Non-Temporal Low	131	144	68	79	96	156	182	201	210	
FWR Input										
Temporal High	136	155	88	97	112	168	190	210	218	
Temporal Medium	129	152	78	88	103	160	184	202	206	
Temporal Low	129	151	76	86	101	160	184	194	201	
Non-Temporal High	142	161	103	112	126	181	203	221	229	
Non-Temporal Medium	134	155	85	95	110	166	189	208	216	
Non-Temporal Low	132	154	80	90	105	161	184	202	211	

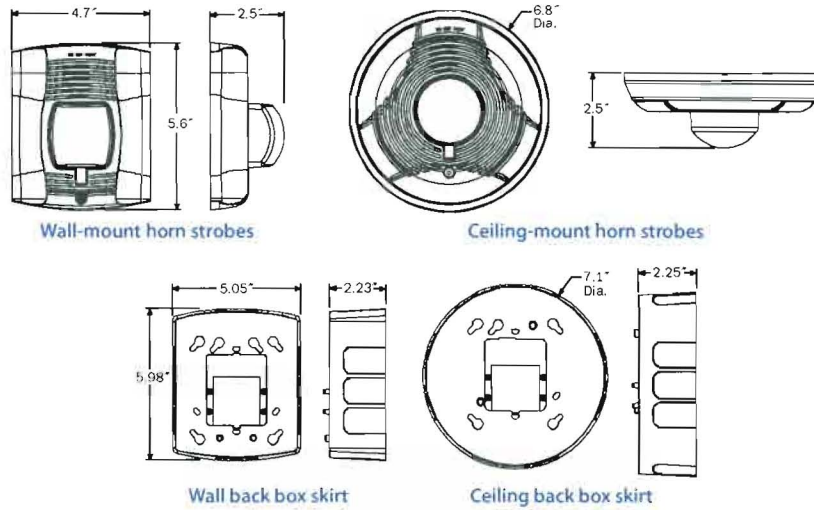
UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, High Candela Range (135-185 cd)										
DC Input	16-33 Volts				FWR Input	16-33 Volts				
	135	150	177	185		135	150	177	185	
Temporal High	245	259	290	297	Temporal High	215	231	258	265	
Temporal Medium	235	253	288	297	Temporal Medium	209	224	250	258	
Temporal Low	232	251	282	292	Temporal Low	207	221	248	256	
Non-Temporal High	255	270	303	309	Non-Temporal High	233	248	275	281	
Non-Temporal Medium	242	259	293	299	Non-Temporal Medium	219	232	262	267	
Non-Temporal Low	238	254	291	295	Non-Temporal Low	214	229	256	262	

Horn Tones and Sound Output Data

Horn and Horn Strobe Output (dBA)										
Switch Position	Sound Pattern	dB	8-17.5 Volts		16-33 Volts		24-Volt Nominal			
			DC	FWR	DC	FWR	Reverberant		Anechoic	
							DC	FWR	DC	FWR
1	Temporal	High	78	78	84	84	88	88	99	98
2	Temporal	Medium	74	74	80	80	86	86	96	96
3	Temporal	Low	71	73	76	76	83	80	94	89
4	Non-Temporal	High	82	82	88	88	93	92	100	100
5	Non-Temporal	Medium	78	78	85	85	90	90	98	98
6	Non-Temporal	Low	75	75	81	81	88	84	96	92
7 ¹	Coded	High	82	82	88	88	93	92	101	101
8 ¹	Coded	Medium	78	78	85	85	90	90	97	98
9 ¹	Coded	Low	75	75	81	81	88	85	96	92

¹Settings 7, 8, and 9 are not available on 2-wire horn strobe.

SpectrAlert Advance Dimensions



SpectrAlert Advance Ordering Information

Model	Description
Wall Horn Strobes	
P2R**	2-Wire Horn Strobe, Standard cd, Red
P2RH*	2-Wire Horn Strobe, High cd, Red
P2W*	2-Wire Horn Strobe, Standard cd, White
P2WH*	2-Wire Horn Strobe, High cd, White
P4R*	4-Wire Horn Strobe, Standard cd, Red
P4RH	4-Wire Horn Strobe, High cd, Red
P4W	4-Wire Horn Strobe, Standard cd, White
Wall Strobes	
SR**	Strobe, Standard cd, Red
SRH**	Strobe, High cd, Red
SW*	Strobe, Standard cd, White
SWH*	Strobe, High cd, White
Ceiling Horn Strobes	
PC2R*	2-Wire Horn Strobe, Standard cd, Red
PC2RH	2-Wire Horn Strobe, High cd, Red
PC2W**	2-Wire Horn Strobe, Standard cd, White
PC2WH*	2-Wire Horn Strobe, High cd, White
PC4R	4-Wire Horn Strobe, Standard cd, Red
PC4RH	4-Wire Horn Strobe, High cd, Red
PC4W	4-Wire Horn Strobe, Standard cd, White

Model	Description
Ceiling Strobes	
SCR	Strobe, Standard cd, Red
SCRH	Strobe, High cd, Red
SCW*	Strobe, Standard cd, White
SCWH	Strobe, High cd, White
Horns	
HR	Horn, Red
HW	Horn, White
Accessories	
BBS-2	Back Box Skirt, Wall, Red
BBSW-2	Back Box Skirt, Wall, White
BBSC-2	Back Box Skirt, Ceiling, Red
BBSCW-2	Back Box Skirt, Ceiling, White
TR-HS	Trim Ring, Wall, Red
TRW-HS	Trim Ring, Wall White
TRC-HS	Trim Ring, Ceiling, Red
TRCW-HS	Trim Ring, Ceiling, White

Notes:

* Add "-P" to model number for plain housing (no "FIRE" marking on cover), e.g., P2R-P.

† Add "-SP" to model number for "FUEGO" marking on cover, e.g., P2R-SP.

** Standard cd† refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings. *High cd† refers to strobes that include 135, 150, 177, and 185 candela settings.



3825 Ohio Avenue • St. Charles, IL 60174
Phone: 800 SENSOR2 • Fax: 630-377-6495

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A05-0195-007-4/09-#212

BG-12LX

Addressable Manual Pull Station



Addressable Devices

General

The Fire-Lite BG-12LX is a state-of-the-art, dual-action (i.e., requires two motions to activate the station) pull station that includes an addressable interface (mounted inside) for Fire-Lite's addressable fire alarm control panels (FACPs). Because the BG-12LX is addressable, the control panel can display the exact location of the activated manual station. This leads fire personnel quickly to the location of the alarm.

Features

- Maintenance personnel can open station for inspection and address setting without causing an alarm condition.
- Built-in bicolor LED, which is visible through the handle of the station, flashes in normal operation and latches steady red when in alarm.
- Handle latches in down position and the word "ACTIVATED" appears to clearly indicate the station has been operated.
- Captive screw terminals wire-ready for easy connection to SLC loop (accepts up to 12 AWG/3.25 mm² wire).
- Can be surface mounted (with SB-10 or SB-I/O) or semi-flush mounted. Semi-flush mount to a standard single-gang, double-gang, or 4" (10.16 cm) square electrical box.
- Smooth dual-action design.
- Meets ADAAG controls and operating mechanisms guidelines (Section 4.1.3[13]); meets ADA requirement for 5 lb. maximum activation force.
- Highly visible.
- Attractive shape and textured finish.
- Key reset.
- Includes Braille text on station handle.
- Optional trim ring (BG12TR).
- Meets UL 38, Standard for Manually Actuated Signaling Boxes.

Construction

Shell, door, and handle are molded of durable polycarbonate material with a textured finish.

Specifications

- **Shipping Weight:** 9.6 oz. (272.15 g)
- **Normal operating voltage:** 24 VDC.
- **Maximum SLC loop voltage:** 28.0 VDC.
- **Maximum SLC loop current:** 230 μ A.
- **Temperature Range:** 32°F to 120°F (0°C to 49°C)
- **Relative Humidity:** 10% to 93% (noncondensing)
- **For use indoors in a dry location**

Installation

The BG-12LX will mount semi-flush into a single-gang, double-gang, or standard 4" (10.16 cm) square electrical outlet box, or will surface mount to the model SB-10 or SB-I/O surface backbox. If the BG-12LX is being semi-flush mounted, then the optional trim ring (BG12TR) may be used. The BG12TR is



FLPullStation.jpg

usually needed for semi-flush mounting with 4" (10.16 cm) or double-gang boxes (not with single-gang boxes).

Operation

Pushing in, then pulling down on the handle causes it to latch in the down/activated position. Once latched, the word "ACTIVATED" (in bright yellow) appears at the top of the handle, while a portion of the handle protrudes from the bottom of the station. To reset the station, simply unlock the station with the key and pull the door open. This action resets the handle; closing the door automatically resets the switch.

Each manual station, on command from the control panel, sends data to the panel representing the state of the manual switch. Two rotary decimal switches allow address settings (1 – 159 with Breakaway Tab removed for MS-9600 Series, 1 – 99 and MS-9200UDLS, 1 – 50 for MS-9050UD).

Architectural/Engineering Specifications

Manual Fire Alarm Stations shall be non-coded, with a key-operated reset lock in order that they may be tested, and so designed that after actual Emergency Operation, they cannot be restored to normal except by use of a key. An operated station shall automatically condition itself so as to be visually detected as activated. Manual stations shall be constructed of red-colored polycarbonate material with clearly visible operating instructions provided on the cover. The word FIRE shall appear on the front of the stations in white letters, 1.00 inches (2.54 cm) or larger. Stations shall be suitable for surface mounting on matching backbox SB-10 or SB-I/O; or semi-flush mounting on a standard single-gang, double-gang, or 4" (10.16 cm) square electrical box, and shall be installed within

the limits defined by the Americans with Disabilities Act (ADA) or per national/local requirements. Manual Stations shall be Underwriters Laboratories listed.

Manual stations shall connect with two wires to one of the control panel SLC loops. The manual station shall, on command from the control panel, send data to the panel representing the state of the manual switch. Manual stations shall provide address setting by use of rotary decimal switches.

Product Line Information

BG-12LX: Dual-action addressable pull station. Includes key locking feature.

SB-10: Surface backbox; metal.

SB-I/O: Surface backbox; plastic.

BG12TR: Optional trim ring.

17003: Keys, set of two.

Agency Listings and Approvals

In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listed:** S711
- **MEA:** 67-02-E
- **CSFM:** 7150-0075:0184
- **FDNY:**
- **FM Approved**

Patented: U.S. Patent No. D428,351; 6,380,846; 6,314,772; 6,632,108.

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www.firelite.com

SD355(A), SD355T(A), SD355R(A)

Addressable Photoelectric Smoke Detectors

df-52384:b • E-160



Addressable Devices

General

The **SD355(A)** and **SD355T(A)** addressable, low-profile plug-in photoelectric detectors use a state-of-the-art photoelectric sensing chamber with communications to provide open area protection and are used exclusively with Fire•Lite's Addressable Fire Alarm Control Panels (FACPs). The **SD355T(A)** adds thermal sensors that will alarm at a fixed temperature of 135°F (57°C). Since these detectors are addressable, they will help emergency personnel quickly locate a fire during its early stages, potentially saving precious rescue time while also reducing property damage. Two LEDs on each sensor light to provide a local, visible sensor indication. Remote LED annunciator capability is available as an optional accessory (P/N **RA100Z(A)**). The **SD355R** is a remote test capable detector for use with **D355PL** or **DNR(W)** duct smoke detector housings.

Features

SLC loop:

- Two-wire loop connection.
- Unit uses base for wiring.

Addressing:

- Addressable by device.
- Direct Decade entry of address: 01 – 99 with MS-9200 series, and 01 – 159 with MS-9600 series.

Architecture:

- Unique single-source, dual-chamber design to respond quickly and dependably to a broad range of fires.
- Sleek, low-profile design.
- Integral communications and built-in type identification.
- Built-in tamper-resistant feature.
- Removable cover and insect-resistant screen for simple field cleaning.

Operation:

- Withstands air velocities up to 4,000 feet-per-minute (20 m/sec.) without triggering a false alarm.
- Factory preset at 1.5% nominal sensitivity for panel alarm threshold level.
- Visible LED "blinks" when the unit is addressed (communicating with the fire panel) and latches on in alarm.

Mechanicals:

- Sealed against back pressure.
- Direct surface mounting or electrical box mounting.
- Mounts to: single-gang box, 3.5" (8.89 cm) or 4.0" (10.16 cm) octagonal box, or 4.0" (10.16 cm) square electrical box (using a plaster ring — included).

Other system features:

- Fully coated circuit boards and superior RF/transient protection.
- 94-V0 plastic flammability rating.
- Low standby current.

Options:

- Remote LED output connection (P/N RA100Z).



SD355 with B350LP base



SD355T with B350LP base

Applications

Use photoelectric detectors in life-safety applications to provide a broad range of fire-sensing capability, especially where smoldering fires are anticipated. Ionization detectors are often better than photoelectric detectors at sensing fast, flaming fires.

Construction

These detectors are constructed of off-white LEXAN®. SD355(T) plug-in, low-profile smoke detectors are designed to commercial standards and offer an attractive appearance.

Installation

SD355(T) plug-in detectors use a detachable mounting base to simplify installation, service and maintenance. Mount base on box which is at least 1.5 inches (3.81 cm) deep. Suitable boxes include:

- 4.0" (10.16 cm) square box with plaster ring.
- 4.0" (10.16 cm) octagonal box.
- 3.5" (8.89 cm) octagonal box.
- Single-gang box.

NOTE: Because of the inherent supervision provided by the SLC loop, **end-of-line resistors** are not required. Wiring "T-taps" or branches are permitted for Style 4 (Class B) wiring. SD355R mounts in a D355PL or DNR(W) duct detector housing.

Operation

Each SD355/T/R uses one of 99 possible addresses on the MS-9200 series and up to 318 (159 on each loop) on the MS-9600 series Signaling Line Circuit (SLC). It responds to regular polls from the system and reports its type and status.

The SD355/T/R addressable photoelectric sensor's unique unipolar chamber responds quickly and uniformly to a broad range of smoke conditions and can withstand wind gusts up to 4,000 feet-per-minute (20 m/sec.) without sending an alarm level signal. Because of its unipolar chamber, the SD355/T/R is approximately two times more responsive than most photoelectric sensors. This makes it a more stable detector.

Detector Sensitivity Test

Each detector can have its sensitivity tested (required per NFPA 72, Chapter 14 on *Inspection, Testing and Maintenance*) when installed/connected to a MS-9200 series or MS-9600 series addressable fire alarm control panel. The results of the sensitivity test can be printed off the MS-9200 series or MS-9600 series for record keeping.

Specification

Voltage range: 15 – 32 VDC (peak).

Standby current: 300 µA @ 24 VDC.

LED current: 6.5 mA @ 24 VDC (latched "ON").

Air velocity: 4,000 ft./min. (20 m/sec.) maximum.

Diameter: 6.1" (15.5 cm) installed in B350LP base.

Height: 2.1" (5.33 cm) installed in B350LP base.

Weight: 3.6 oz. (102 g).

Operating temperature range: for **SD355(A):** 0°C to 49°C (32°F to 120°F); for **SD355T(A):** 0°C to 38°C (32°F to 100°F). **SD355R(A):** installed in a DNR(W) -20°C to 70°C (-4°F to 158°F).

Temperature: 0°C – 49°C (32°F – 120°F).

Relative humidity: 10% – 93%, non-condensing.

Listings

Listings and approvals below apply to the SD355(A) and SD355T(A) detectors. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL Listed, file S1059.
- ULC Listed, file S1059.
- CSFM approved: file 7272-0075:194.
- MEA approved: file 243-02-E.
- FM approved.

Product Line Information

NOTE: "A" suffix indicates ULC-Listed model.

SD355: Addressable photoelectric detector; B350LP base included.

SD355A: Same as SD355 with ULC Listing (B350LPA base included).

SD355T: Same as SD355 but with **thermal** element; B350LP base included.

SD355TA: Same as SD355T with ULC Listing (B350LPA base included).

SD355R: Remote test capable addressable photoelectric detector for use with a D355PL or DNR(W) duct detector housing.

B350LP(A): Plug-in detector base. Dimensions: 6.1" (15.5 cm). Mounting: 4.0" (10.16 cm) square box with or without plaster ring, 4.0" (10.16 cm) octagonal box, 3.5" (8.89 cm) octagonal box, or single-gang box. All mounting boxes have a minimum depth of 1.5" (3.81 cm).

B224RB(A): Plug-in System Sensor **relay** detector base. **Diameter:** 6.2" (15.75 cm). **Mounting:** 4.0" (10.16 cm) square box with or without plaster ring, 4.0" (10.16 cm) octagonal box, or 3.5" (8.89 cm) octagonal box. All mounting boxes have a minimum depth of 1.5" (3.81 cm).

B224BI(A): Plug-in System Sensor **isolator** detector base. Maximum 25 devices between isolator bases (see *DF-52389*). **Diameter:** 6.2" (15.75 cm). **Mounting:** 4.0" (10.16 cm) square box with or without plaster ring, 4.0" (10.16 cm) octagonal box, or 3.5" (8.89 cm) octagonal box. All mounting boxes have a minimum depth of 1.5" (3.81 cm).

B200SR: Sounder base capable of producing temporal-3 or steady sound output.

ACCESSORIES:

RA100Z(A): Remote LED annunciator. 3 – 32 VDC. Mounts to a U.S. single-gang electrical box. *For use with B501(A) and B350LP(A) bases only.*

SMK400E: Surface mounting kit provides for entry of surface wiring conduit. *For use with B501(A) base only.*

RMK400: Recessed mounting kit. *For use with B501(A) base only.*

M02-04-00: Test magnet.

M02-09-00: Test magnet with telescoping handle.

XR2B: Detector removal tool. Allows installation and/or removal of detector heads from bases in high ceiling applications.

XP-4: Extension pole for XR2B. Comes in three 5-foot (1.524 m) sections.

T55-127-010: Detector removal tool without pole.

BCK-200B: Black detector covers, box of 10.

WCK-200B: White detector covers, box of 10.

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Selectable-Output Horns, Strobes, and Horn Strobes

SpectrAlert® Advance selectable-output horns, strobes, and horn strobes are rich with features guaranteed to cut installation times and maximize profits.



SPECTRAlert
ADVANCE
From System Sensor

Features

- Plug-in design with minimal intrusion into the back box
- Tamper-resistant construction
- Automatic selection of 12- or 24-volt operation at 15 and 15/75 candela
- Field-selectable candela settings on wall and ceiling units: 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185
- Horn rated at 88+ dBA at 16 volts
- Rotary switch for horn tone and three volume selections
- Universal mounting plate for wall and ceiling units
- Mounting plate shorting spring checks wiring continuity before device installation
- Electrically compatible with existing SpectrAlert products
- Compatible with MDL sync module

The SpectrAlert Advance series offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry. With white and red plastic housings, wall and ceiling mounting options, and plain and FIRE-printed devices, SpectrAlert Advance can meet virtually any application requirement.

Like the entire SpectrAlert Advance product line, horns, strobes, and horn strobes include a variety of features that increase their application versatility while simplifying installation. All devices feature plug-in designs with minimal intrusion into the back box, which make installations fast and foolproof while virtually eliminating costly and time-consuming ground faults. Furthermore, a universal mounting plate with an onboard shorting spring tests wiring continuity before the device is installed, protecting devices from damage.

In addition, field-selectable candela settings, automatic selection of 12- or 24-volt operation, and a rotary switch for horn tones with three volume selections enables installers to easily adapt devices to suit a wide range of application requirements.

Agency Listings



SpectrAlert Advance Specifications

Architect/Engineer Specifications

General

SpectrAlert Advance horns, strobes, and horn strobes shall mount to a standard 4 × 4 × 1½-inch back box, 4-inch octagon back box, or double-gang back box. Two-wire products shall also mount to a single-gang 2 × 4 × 1⅞ inch back box. A universal mounting plate shall be used for mounting ceiling and wall products. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, SpectrAlert Advance products, when used with the Sync-Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync-Circuit Module, 12-volt-rated notification appliance circuit outputs shall operate between 9 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 17 and 33 volts. Indoor SpectrAlert Advance products shall operate between 32 and 120 degrees Fahrenheit from a regulated DC or full-wave rectified unfiltered power supply. Strobes and horn strobes shall have field-selectable candela settings including 15, 15/75, 30, 75, 95, 110, 115, 135, 150, 177, and 185.

Strobe

The strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

Horn Strobe Combination

The horn strobe shall be a System Sensor SpectrAlert Advance Model _____ listed to UL 1971 and UL 464 and shall be approved for fire protective service. The horn strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The horn shall have three audibility options and an option to switch between a temporal three-pattern and a non-temporal (continuous) pattern. These options are set by a multiple-position switch. On four-wire products, the strobe shall be powered independently of the sounder. The horn on horn strobe models shall operate on a coded or non-coded power supply.

Synchronization Module

The module shall be a System Sensor Sync-Circuit model MDL listed to UL 464 and shall be approved for fire protective service. The module shall synchronize SpectrAlert strobes at 1 Hz and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn strobe models over a single pair of wires. The module shall mount to a 4¼ × 4¼ × 2⅞-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

Physical/Electrical Specifications

Standard Operating Temperature	32°F to 120°F (0°C to 49°C)
Humidity Range	10 to 93% non-condensing
Strobe Flash Rate	1 flash per second
Nominal Voltage	Regulated 12 DC/FWR or regulated 24 DC/FWR ¹
Operating Voltage Range ²	8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
Input Terminal Wire Gauge	12 to 18 AWG
Ceiling-Mount Dimensions (including lens)	6.8" diameter × 2.5" high (173 mm diameter × 64 mm high)
Wall-Mount Dimensions (including lens)	5.6" L × 4.7" W × 2.5" D (142 mm L × 119 mm W × 64 mm D)
Horn Dimensions	5.6" L × 4.7" W × 1.3" D (142 mm L × 119 mm W × 33 mm D)
Wall-Mount Back Box Skirt Dimensions (BBS-2, BBSW-2)	5.9" L × 5.0" W × 2.2" D (151 mm L × 128 mm W × 56 mm D)
Ceiling-Mount Back Box Skirt Dimensions (BBSC-2, BBSCW-2)	7.1" diameter × 2.2" high (180 mm diameter × 57 mm high)
Wall-Mount Trim Ring Dimensions (sold as a 5 pack) (TR-HS, TRW-HS)	5.7" L × 4.8" W × 0.35" D (145 mm L × 122 mm W × 9 mm D)
Ceiling-Mount Trim Ring Dimensions (sold as a 5 pack) (TRC-HS, TRCW-HS)	6.9" diameter × 0.35" high (175 mm diameter × 9 mm high)

Notes:

1. Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.
2. P, S, PC, and SC products will operate at 12 V nominal only for 15 and 15/75 cd.

UL Current Draw Data

UL Max. Strobe Current Draw (mA RMS)						UL Max. Horn Current Draw (mA RMS)					
	Candela	8-17.5 Volts		16-33 Volts		Sound Pattern	dB	8-17.5 Volts		16-33 Volts	
		DC	FWR	DC	FWR			DC	FWR	DC	FWR
Standard	15	123	128	66	71	Temporal	High	57	55	69	75
Candela Range	15/75	142	148	77	81	Temporal	Medium	44	49	58	69
	30	NA	NA	94	96	Temporal	Low	38	44	44	48
	75	NA	NA	158	153	Non-temporal	High	57	56	69	75
	95	NA	NA	181	176	Non-temporal	Medium	42	50	60	69
	110	NA	NA	202	195	Non-temporal	Low	41	44	50	50
	115	NA	NA	210	205	Coded	High	57	55	69	75
High	135	NA	NA	228	207	Coded	Medium	44	51	56	69
Candela Range	150	NA	NA	246	220	Coded	Low	40	46	52	50
	177	NA	NA	281	251						
	185	NA	NA	286	258						

UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, Standard Candela Range (15-115 cd)										
DC Input	8-17.5 Volts				16-33 Volts					
	15	15/75	15	15/75	30	75	95	110	115	
Temporal High	137	147	79	90	107	176	194	212	218	
Temporal Medium	132	144	69	80	97	157	182	201	210	
Temporal Low	132	143	66	77	93	154	179	198	207	
Non-Temporal High	141	152	91	100	116	176	201	221	229	
Non-Temporal Medium	133	145	75	85	102	163	187	207	216	
Non-Temporal Low	131	144	68	79	96	156	182	201	210	
FWR Input										
Temporal High	136	155	88	97	112	168	190	210	218	
Temporal Medium	129	152	78	88	103	160	184	202	206	
Temporal Low	129	151	76	86	101	160	184	194	201	
Non-Temporal High	142	161	103	112	126	181	203	221	229	
Non-Temporal Medium	134	155	85	95	110	166	189	208	216	
Non-Temporal Low	132	154	80	90	105	161	184	202	211	

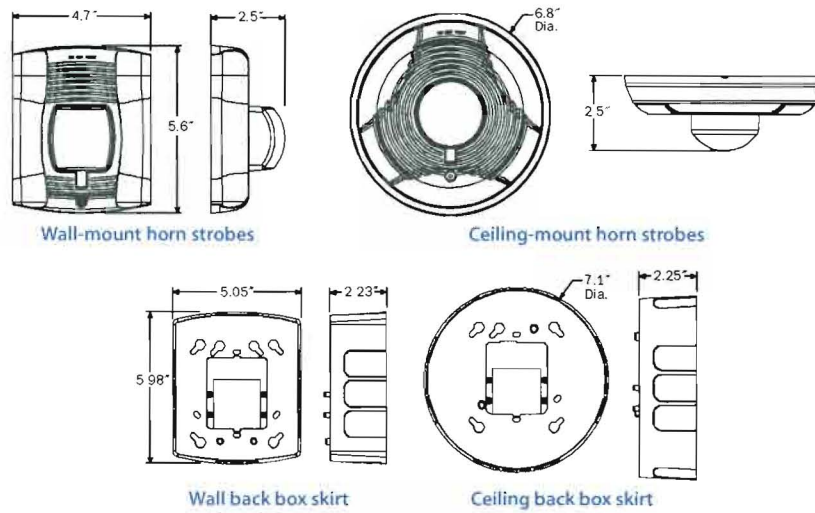
UL Max. Current Draw (mA RMS), 2-Wire Horn Strobe, High Candela Range (135-185 cd)										
DC Input	16-33 Volts				FWR Input	16-33 Volts				
	135	150	177	185		135	150	177	185	
Temporal High	245	259	290	297	Temporal High	215	231	258	265	
Temporal Medium	235	253	288	297	Temporal Medium	209	224	250	258	
Temporal Low	232	251	282	292	Temporal Low	207	221	248	256	
Non-Temporal High	255	270	303	309	Non-Temporal High	233	248	275	281	
Non-Temporal Medium	242	259	293	299	Non-Temporal Medium	219	232	262	267	
Non-Temporal Low	238	254	291	295	Non-Temporal Low	214	229	256	262	

Horn Tones and Sound Output Data

Horn and Horn Strobe Output (dBA)										
Switch Position	Sound Pattern	dB	8-17.5 Volts		16-33 Volts		24-Volt Nominal			
			DC	FWR	DC	FWR	Reverberant		Anechoic	
							DC	FWR	DC	FWR
1	Temporal	High	78	78	84	84	88	88	99	98
2	Temporal	Medium	74	74	80	80	86	86	96	96
3	Temporal	Low	71	73	76	76	83	80	94	89
4	Non-Temporal	High	82	82	88	88	93	92	100	100
5	Non-Temporal	Medium	78	78	85	85	90	90	98	98
6	Non-Temporal	Low	75	75	81	81	88	84	96	92
7 ¹	Coded	High	82	82	88	88	93	92	101	101
8 ¹	Coded	Medium	78	78	85	85	90	90	97	98
9 ¹	Coded	Low	75	75	81	81	88	85	96	92

¹Settings 7, 8, and 9 are not available on 2-wire horn strobe.

SpectrAlert Advance Dimensions



SpectrAlert Advance Ordering Information

Model	Description
Wall Horn Strobes	
P2R*†	2-Wire Horn Strobe, Standard cd†, Red
P2RH*	2-Wire Horn Strobe, High cd, Red
P2W*	2-Wire Horn Strobe, Standard cd, White
P2WH*	2-Wire Horn Strobe, High cd, White
P4R*	4-Wire Horn Strobe, Standard cd, Red
P4RH	4-Wire Horn Strobe, High cd, Red
P4W	4-Wire Horn Strobe, Standard cd, White
Wall Strobes	
SR*†	Strobe, Standard cd, Red
SRH*†	Strobe, High cd, Red
SW*	Strobe, Standard cd, White
SWH*	Strobe, High cd, White
Ceiling Horn Strobes	
PC2R*	2-Wire Horn Strobe, Standard cd, Red
PC2RH	2-Wire Horn Strobe, High cd, Red
PC2W*†	2-Wire Horn Strobe, Standard cd, White
PC2WH*	2-Wire Horn Strobe, High cd, White
PC4R	4-Wire Horn Strobe, Standard cd, Red
PC4RH	4-Wire Horn Strobe, High cd, Red
PC4W	4-Wire Horn Strobe, Standard cd, White

Model	Description
Ceiling Strobes	
SCR	Strobe, Standard cd, Red
SCRH	Strobe, High cd, Red
SCW*	Strobe, Standard cd, White
SCWH	Strobe, High cd, White
Horns	
HR	Horn, Red
HW	Horn, White
Accessories	
BBS-2	Back Box Skirt, Wall, Red
BBSW-2	Back Box Skirt, Wall, White
BBSC-2	Back Box Skirt, Ceiling, Red
BBSCW-2	Back Box Skirt, Ceiling, White
TR-HS	Trim Ring, Wall, Red
TRW-HS	Trim Ring, Wall White
TRC-HS	Trim Ring, Ceiling, Red
TRCW-HS	Trim Ring, Ceiling, White

Notes:

* Add *-P to model number for plain housing (no "FIRE" marking on cover), e.g., P2R-P

† Add *-SP to model number for "FUEGO" marking on cover, e.g., P2R-SP

‡ *Standard cd* refers to strobes that include 15, 15/75, 30, 75, 95, 110, and 115 candela settings. *High cd* refers to strobes that include 135, 150, 177, and 185 candela settings.

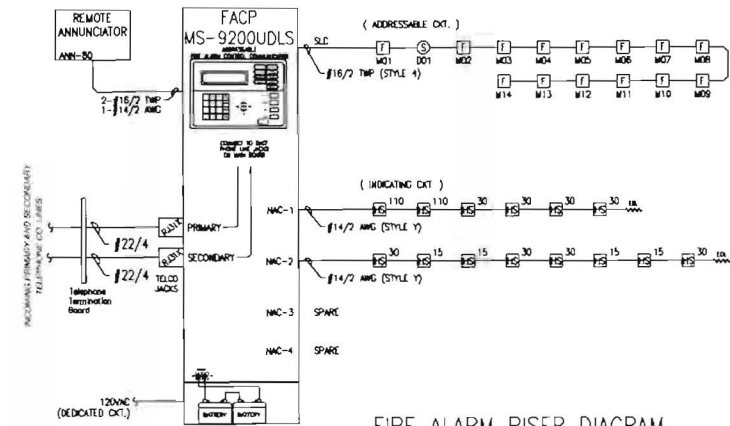
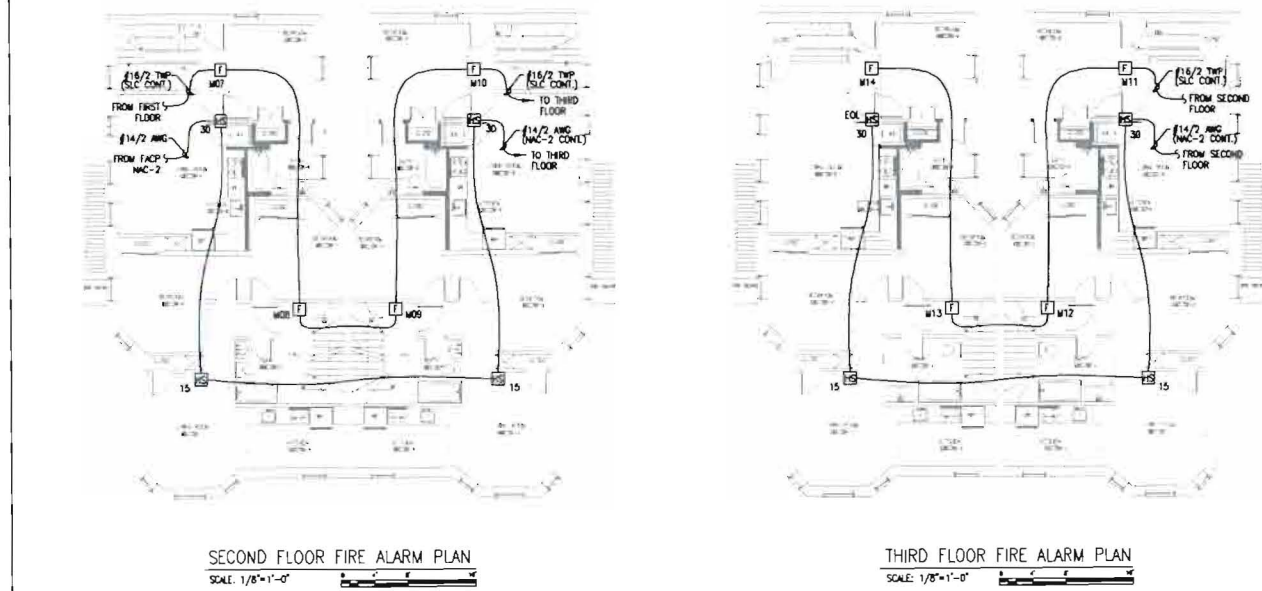
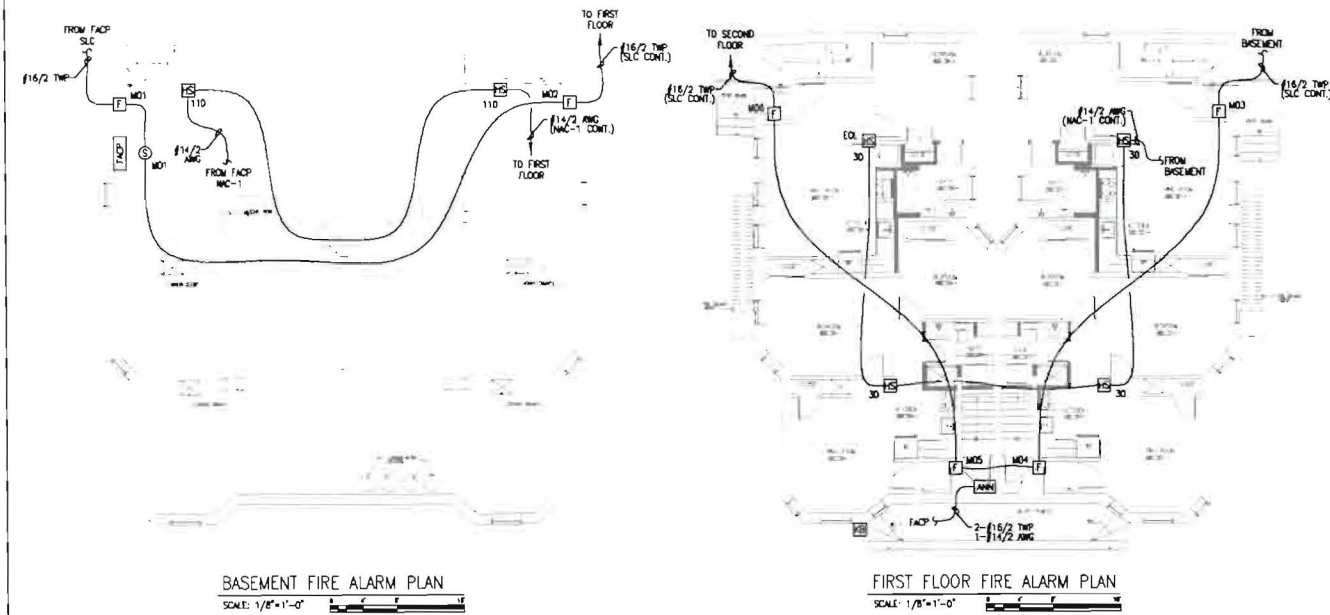


3825 Ohio Avenue • St. Charles, IL 60174
Phone: 800-SENSOR2 • Fax: 630-377-6495

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Product specifications subject to change without notice. Visit systemsensor.com for current product information, including the latest version of this data sheet.
A08-0195-007-4/09 • #2133



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- GENERAL NOTES:**
- THESE DRAWINGS ARE DIAGRAMMATIC REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
 - INSTALLATION SHALL COMPLY WITH NEC, NFPA 72 AND ALL OTHER APPLICABLE CODES AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
 - WIRING DEPICTED ON THESE PLANS IS SCHEMATIC - ACTUAL WIRE LOCATIONS MAY DIFFER FROM THESE PLANS. WIRING SHALL BE PERFORMED AS ACTUAL BUILDING CONSTRUCTION CONDITIONS ALLOW AND TO MINIMIZE PENETRATIONS THROUGH AREA SEPARATION WALLS AND FIRE WALLS, THE USE OF A RACEWAY IS PERMITTED AS LONG AS NO 110V OR HIGHER VOLTAGE CABLES ARE IN THE SAME RACEWAY.
 - FIRE RATINGS SHALL BE MAINTAINED FOR ALL PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION.
 - POWER FOR ALL FIRE ALARM PANELS AND FIRE ALARM POWER SUPPLIES MUST BE PROVIDED BY A DEDICATED AC BRANCH CIRCUIT.
 - POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST REMAIN SEPARATED IN CABINET. ALL POWER-LIMITED CIRCUIT WIRING MUST REMAIN AT LEAST 0.25" AWAY FROM ANY NONPOWER-LIMITED CIRCUIT WIRING. FURTHERMORE, ALL POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST ENTER AND EXIT THE CABINET THROUGH DIFFERENT KNOCK OUTS AND/OR SEPARATE CONDUITS.
 - WHEN UTILIZING CLASS "A" CIRCUITS, SEPARATE OUTGOING AND RETURN CONDUCTORS OF CLASS "A" CIRCUITS BY A MINIMUM OF 12" WHERE RUN VERTICALLY AND 48" WHERE RUN HORIZONTALLY.
 - WHEN UTILIZING SHIELDED CABLE THE SHIELDS THROUGH AND INSULATE AT EACH JUNCTION BOX. INSULATE AND TAPE BACK AT END.
 - ALL FIRE ALARM CABLING SHALL BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE INTENDED PURPOSE.
 - SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED AND FINAL.
 - LOCATE SMOKE DETECTORS A MINIMUM OF THREE (3) FEET FROM MECHANICAL DIFFUSERS. WALL-MOUNTED SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 4" AND A MAXIMUM OF 12" FROM CEILING. CEILING-MOUNTED SMOKE DETECTORS SHALL BE MOUNTED ON CEILINGS AND NOT ON THE BOTTOMS OF BEAMS OR JOISTS.
 - PROVIDE SYNCHRONIZATION OF ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS. PROVIDE ALL REQUIRED SYNC MODULES. PROVIDE A MULTI-SYNC MODE SLAVE CONNECTION BETWEEN ALL SYNC MODULES.
 - VERIFY ALL FIELD SELECTABLE AUDIBILITY SETTINGS OF NOTIFICATION APPLIANCES WITH FIRE ALARM CONTRACTOR.
 - UPON COMPLETION OF THE FIRE ALARM SYSTEM INSTALLATION AND PROGRAMMING, THE INSTALLING CONTRACTOR SHALL PERFORM FINAL TESTING OF THE ENTIRE SYSTEM PER ALL APPLICABLE CODES, AND SHALL COORDINATE AND PERFORM A FINAL FIRE ALARM SYSTEM INSPECTION.
 - PROVIDE OFF-SITE MONITORING AS REQUIRED BY THE INTERNATIONAL FIRE CODE, SECTION 907.15 AND THE LOCAL AUTHORITY HAVING JURISDICTION.
 - INSTALLING CONTRACTOR SHALL PHYSICALLY LABEL ALL INITIATING DEVICES AND NOTIFICATION APPLIANCE CIRCUIT END OF LINE (WHEN WIRING CLASS "B"). THESE LABELS SHALL BE IN PLACE PRIOR TO START-UP AND TESTING.

FIRE ALARM SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING
[FACP]	FIRE ALARM CONTROL PANEL	WALL-TOP @ 48" AFF
[FAPS]	FIRE ALARM POWER SUPPLY	FIELD VERIFY
[ANN]	REMOTE ANNUNCIATOR	WALL-TOP @ 48" AFF
[FSD]	FIRE/SMOKE DAMPER	BY OTHERS
[H]	HEAT DETECTOR	CEILING
[S]	SMOKE DETECTOR	CEILING
[DS]	DUCT SMOKE DETECTOR	IN DUCT
[MPS]	MANUAL PULL STATION	WALL @ 48" AFF
[CM]	CONTROL MODULE	FIELD VERIFY
[MH]	MAGNETIC DOOR HOLDER	FIELD VERIFY
[MM]	MONITOR MODULE	FIELD VERIFY
[R]	MULTI-VOLTAGE RELAY	FIELD VERIFY
[RM]	ADDRESSABLE RELAY MODULE	FIELD VERIFY
[FS]	FLOW SWITCH	BY OTHERS
[TS]	TAMPER SWITCH	BY OTHERS
[ST]	STROBE	CEILING
[SS]	SPEAKER / STROBE	CEILING
[SSS]	SPEAKER STROBE	CEILING
[H]	HORN	WALL @ 90" AFF
[HS]	HORN / STROBE	WALL @ 90" AFF
[S]	STROBE	WALL @ 90" AFF
[SP]	SPEAKER	WALL @ 90" AFF
[SSS]	SPEAKER STROBE	WALL @ 90" AFF
[KB]	KNOCK BOX	FIELD VERIFY

ABBREVIATION	DESCRIPTION
E	EXTING
G	WITH GUARD
P	PRENOTIC MOUNT
R	RESEALING (TUV)
S	SCOURER BASE
WP	WEATHERPROOF
TEL	END OF LINE RELAY
TEL	END OF LINE RESISTOR
AMC	AMERICAN WIRE GAUGE
TWP	TWISTED PAIR
TWSP	TWISTED SHIELDED PAIR
FPLR	FIRE POWER LIMITED PLENUM
FPLR	FIRE POWER LIMITED RISER
AT	ABOVE FINISHED FLOOR

OPERATIONS MATRIX

	FIRE ALARM INPUT	FIRE ALARM OUTPUT	ACTIVE ALARM INDICATOR	ACTIVE TROUBLE INDICATOR	TRANSPARENT ALARM SIGNAL	TRANSPARENT TROUBLE SIGNAL
SMOKE DETECTORS	●	●	●	●	●	●
PULL STATIONS	●	●	●	●	●	●
FIRE ALARM AC POWER FAULT	●	●	●	●	●	●
FIRE ALARM LOW BATTERY	●	●	●	●	●	●
OPEN CIRCUIT	●	●	●	●	●	●
GROUND FAULT	●	●	●	●	●	●
NAC SHORT CIRCUIT	●	●	●	●	●	●
LOSS OF AC TO BUILDING	●	●	●	●	●	●

FACP Battery Calculation 4/8/2011

PROJECT NAME: 127 YORK STREET
Required Standby Time: 24 hours
Required Alarm Time: 5 minutes

Regulated Load in Standby				
Device Type	Number of Devices	Current (amps)	Total Current (amps)	
MS-9200UDLS - Main Circuit Board	1	0.13700	=	0.13700
ANN-80 Annunciator	1	0.01500	=	0.01500
SD356 Smoke Detector	1	0.00030	=	0.00030
BG-12LX Pull Stations	14	0.00023	=	0.00322
TOTAL STANDBY LOAD				0.15552

Regulated Load in ALARM				
Device Type	Number of Devices	Current (amps)	Total Current (amps)	
MS-9200UDLS - Main Circuit Board	1	0.36000	=	0.36000
ANN-80 Annunciator	1	0.04000	=	0.04000
Max. Alarm Draw - All Addressable Devices	1	0.40000	=	0.40000
NAC-1	1	0.85200	=	0.85200
NAC-2	1	0.74400	=	0.74400
TOTAL ALARM LOAD				2.39800

Battery Requirements

Standby Load	0.15552	x	24.00000	=	3.73248
Alarm Load	2.39800	x	0.08333	=	0.19987
Total Ampere Hours (before derating factor)					3.93235
Derating Factor		x	1.2		
TOTAL AMPERE HOURS REQUIRED					4.71858
BATTERIES TO BE PROVIDED (E - 12v)					7 AB

NAC Circuit Voltage Drop Calculation 4/11/2011

Project Name: 127 YORK STREET
Circuit Number: NAC-1

Nominal System Voltage: 20.4 volts
Minimum Device Voltage: 18 volts
Distance from source to 1st device: 17
Wire Gauge for balance of circuit: 14

Max Output Current: 1.5 amps
Total Circuit Current: 0.852 amps

Device	Current	Distance previous device	Voltage at device	Drop from source	Percent Drop
Device 1	0.212		20.31	0.09	0%
Device 2	0.212	16	20.01	0.30	2%
Device 3	0.107	21	19.96	0.44	2%
Device 4	0.107	32	19.89	0.51	2%
Device 5	0.107	28	19.86	0.54	3%
Device 6	0.107	32	19.84	0.56	3%
Totals	0.852	204			

NAC Circuit Voltage Drop Calculation 4/8/2011

Project Name: 127 YORK STREET
Circuit Number: NAC-2

Nominal System Voltage: 20.4 volts
Minimum Device Voltage: 18 volts
Distance from source to 1st device: 34
Wire Gauge for balance of circuit: 14

Max Output Current: 1.0 amps
Total Circuit Current: 0.744 amps

Device	Current	Distance previous device	Voltage at device	Drop from source	Percent Drop
Device 1	0.107		20.24	0.16	1%
Device 2	0.079	34	20.11	0.29	1%
Device 3	0.079	38	19.99	0.41	2%
Device 4	0.107	34	19.89	0.51	3%
Device 5	0.107	10	19.87	0.53	3%
Device 6	0.079	34	19.81	0.59	3%
Device 7	0.079	38	19.77	0.63	3%
Device 8	0.107	34	19.75	0.65	3%
Totals	0.744	252			

CUNNINGHAM Security Systems
10 Princess Point Road, Yarmouth, Maine 04096
Office: 207.846.3350 • Fax: 207.846.6080

127 YORK STREET
PORTLAND, ME 04101
FIRE ALARM PLAN

DATE: 4/7/2011
4/11/2011

DESCRIPTION: ISSUED FOR REVIEW & APPROVAL
REVISED PER FIRE PROTECTION OFFICE REVIEW

REVISION: 0
1

DATE: 4/7/2011
REVISION: 1
SCALE: 1/8" = 1'-0"

DRAWN: JPB UNICAD JOB #11131
CHECKED: WAYNE B. HARRIS NCEIT # 90496
DATE: 4/7/2011
REVISION: 1
SCALE: 1/8" = 1'-0"

UNICAD
FA-1

PLUMBING APPLICATION

Department of Health and Human Services
Division of Environmental Health

PROPERTY ADDRESS

Town or
Plantation

129-127 York St

Street

Subdivision Lot #

Portland Me

PROPERTY OWNERS NAME

Last:
Applicant
Name

Calley

First:

Catherine John

Mailing Address of
Owner/Applicant
(If Different)

PO Box 536 Cumberland Me

Owner/Applicant Statement

I certify that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Local Plumbing Inspectors to deny a Permit

Signature of Owner/Applicant

Date

3/29/11

PORTLAND

Date
Permit
Issued:

3/29/11

PERMIT # 11588 TOWN COPY

\$

117.00

Double Fee
FEE Charged

L.P.I. #

10811

Local Plumbing Inspector Signature

44-A-5-

Caution: Inspection Required

I have inspected the installation authorized above and found it to be in compliance with the Maine Plumbing Rules.

Local Plumbing Inspector Signature

Date Approved

PERMIT INFORMATION

This Application is for

- NEW PLUMBING
 RELOCATED PLUMBING

Type of Structure To Be Served:

1. SINGLE FAMILY DWELLING
2. MODULAR OR MOBILE HOME
3. MULTIPLE FAMILY DWELLING
4. OTHER -- SPECIFY _____

Plumbing To Be Installed By:

1. MASTER PLUMBER
2. OIL BURNERMAN
3. MFG'D. HOUSING DEALER/MECHANIC
4. PUBLIC UTILITY EMPLOYEE
5. PROPERTY OWNER

LICENSE # 8167

Hook-Up & Piping Relocation
Maximum of 1 Hook-Up

HOOK-UP: to public sewer in those cases where the connection is not regulated and inspected by the local Sanitary District.

OR

HOOK-UP: to an existing subsurface wastewater disposal system.

PIPING RELOCATION: of sanitary lines, drains, and piping without new fixtures.

OR

TRANSFER FEE
[\$6.00]

Number

Column 2

Type of Fixture

Hosebib / Sillcock

Floor Drain

Urinal

Drinking Fountain

Indirect Waste

Water Treatment Softener, Filter, etc.

Grease / Oil Separator

Roof Drain

Bidet

Other: _____

Fixtures (Subtotal)
Column 2

Number

Column 1

Type of Fixture

8 Bathtub (and Shower)

4 Shower (Separate)

12 Sink

12 Wash Basin

12 Water Closet (Toilet)

12 Clothes Washer

12 Dish Washer

Garbage Disposal

Laundry Tub

Water Heater

Fixtures (Subtotal)
Column 1

Fixtures (Subtotal)
Column 2

Total Fixtures

Fixture Fee

Transfer Fee

Hook-Up & Relocation Fee

Permit Fee
(Total)

SEE PERMIT FEE SCHEDULE
FOR CALCULATING FEE