

Please Read
Instructions And
Notes, If Any,
Attached

BUILDING INSPECTION

PERMIT

Permit Number: 081570

I hereby certify that 16 CASCO STREET LLC / Nor Inc.

request permission to Install a Fire Alarm System throughout the building.

16 CASCO ST

CE 037 C010001

provided that the person or persons, firm or corporation accepting this permit shall comply with all the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating construction, maintenance and use of buildings and structures, and of the application on file in this department.

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

Notification of inspection must be given and written permission procured before this building or part thereof is lath or other work is red-in. 24 HOUR NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Dept. _____

With Dept. _____

Local Board _____

Other _____

Department Name

Chris S. [Signature] 1/5/09
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

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

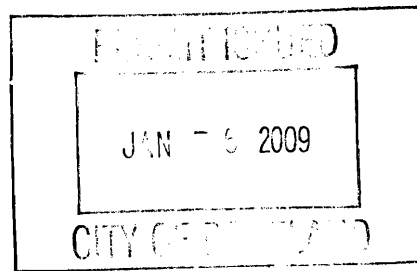
Permit No: 08-1570	Issue Date: 01/05/09	CBL: 037 C010001
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Location of Construction: 16 CASCO ST	Owner Name: 16 CASCO STREET LLC	Owner Address: 477 CONGRESS ST	Phone: 207-883-3473
Business Name:	Contractor Name: Norris, Inc.	Contractor Address: 2257 W Broadway, PO Box 2551 Sout	Phone: 2078833473
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	Zone: B-3

Past Use: Commercial	Proposed Use: Commercial - Install a Fire Alarm System throughout the Building.	Permit Fee: \$130.00	Cost of Work: \$11,000.00	CEO District: 1
Proposed Project Description: Install a Fire Alarm System throughout the Building.		FIRE DEPT: <input checked="" type="checkbox"/> Approved See <input type="checkbox"/> Denied with conditions	INSPECTION: Use Group: B Type: 3B NFPA-72/IBC-2003	
		Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i> 1/5/09	
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)				
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied				
Signature: _____ Date: _____				

Permit Taken By: lmd	Date Applied For: 12/19/2008	Zoning Approval		
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<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 information may invalidate a building permit and stop all work..</p>	<p>Special Zone or Reviews</p> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan <p>Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/></p> <p>Date: <i>[Signature]</i> 12/29/09</p>	<p>Zoning Appeal</p> <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 <p>Date: _____</p>	<p>Historic Preservation</p> <input checked="" type="checkbox"/> Not in District 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 <p>Date: <i>[Signature]</i></p>
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CERTIFICATION

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

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

 X Final inspection of barriers or alarm systems

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection.

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.

Melissa Petrus
Signature of Applicant/Designee

1/6/09
Date

[Signature]
Signature of Inspections Official

1/6/09
Date

City of Portland, Maine - Building or Use Permit

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

Permit No: 08-1570	Date Applied For: 12/19/2008	CBL: 037 C010001
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Location of Construction: 16 CASCO ST	Owner Name: 16 CASCO STREET LLC	Owner Address: 477 CONGRESS ST	Phone: 207-883-3473
Business Name:	Contractor Name: Norris, Inc.	Contractor Address: 2257 W Broadway, PO Box 2551 Sout	Phone: (207) 883-3473
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	

Proposed Use: Commercial - Install a Fire Alarm System throughout the Building.	Proposed Project Description: Install a Fire Alarm System throughout the Building.
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Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 12/29/2009

Note:**Ok to Issue:**

- 1) This property shall remain a commercial building. Any change of use shall require a separate permit application for review and approval.
- 2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

Dept: Building**Status:** Approved with Conditions**Reviewer:** Chris Hanson**Approval Date:** 01/05/2009**Note:****Ok to Issue:**

- 1) Fire Alarm systems shall be installed per Sec. 907 of the IBC 2003
- 2) Equipment must be installed in compliance with the manufacturer's specifications

Dept: Fire**Status:** Approved with Conditions**Reviewer:** Capt Greg Cass**Approval Date:** 12/30/2008**Note:****Ok to Issue:**

- 1) The Fire alarm and Sprinkler systems shall be reviewed by a licensed contractor[s] for code compliance. Compliance letters are required.
- 2) The fire alarm system shall comply with NFPA 72

Comments:

12/29/2008-mes: On this date I found this permit in the Fire basket that had never been zoned, so I zoned it and returned it to the Fire Dept basket. The permit was never logged into the Fire review, so I did that.



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>16 Casco St. Portland,</u>		
Total Square Footage of Proposed Structure/Area	Square Footage of Lot	Number of Stories
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# <u>087 e 610</u>	Applicant * <u>must be owner, Lessee or Buyer*</u> Name <u>Norris Inc.</u> Address <u>2257 West Broadway S. Portland</u> City, State & Zip <u>S. Portland, ME. 04106.</u>	Telephone: <u>(207) 883-3473</u>
Lessee/DBA (If Applicable) <u>DEC 18</u>	Owner (if different from Applicant) Name <u>16 Casco St. LLC</u> Address <u>477 Congress St.</u> City, State & Zip <u>Portland, ME. 04101</u>	Cost Of Work: \$ <u>11,000</u> C of O Fee: \$ _____ Total Fee: \$ <u>130</u>
Current legal use (i.e. single family) <u>Commercial</u> Number of Residential Units _____ If vacant, what was the previous use? _____ Proposed Specific use: _____ Is property part of a subdivision? _____ If yes, please name _____ Project description: <u>install fire alarm system</u>		
Contractor's name: <u>Same as applicant</u> Address: _____ City, State & Zip _____ Telephone: _____ Who should we contact when the permit is ready: <u>Melissa Peters</u> Telephone: <u>883-3473</u> Mailing address: _____		

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: Melissa Peters

Date: 12/19/08

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



Prepared For Tomorrow; Delivered Today

LOSS PREVENTION

BUILDING AUTOMATION

COMMUNICATIONS

SUBMITTAL PACKAGE

Project: 16 Casco Street ~ Portland

System: Fire Alarm System

**Submitted
By:** Norris Inc.
2257 West Broadway
South Portland, Maine 04106
Telephone: (800) 370-3473

**Project
Manager:** Zach Davis

**Electrical
Contractor:** NBBR
1208 River Road
Clinton, ME. 04927

Date: December 19, 2008

www.norrisinc.com

S. Portland Maine Office
PO Box 2551
2257 West Broadway
South Portland, ME 04106
Toll Free 1-800-370-3473
Fax 207-879-0540

Bangor Maine Office
54 Perry Rd
Bangor, ME 04401
Toll Free 1-888-312-3473
Fax 207-947-1219

New Hampshire Office
1 Bayside Rd
Greenland, NH 03840
Toll Free 1-877-577-3473
Fax 603-431-2397

Vermont Office
PO Box 633
Middlebury, VT 05753
Phone 1-802-388-3473
Fax 802-388-3472



Company Profile

"We are extremely proud to represent the highest quality manufacturers integrating life safety, alarm and communication systems throughout northern New England."

-- Bradford Norris, President --

Mission Statement

Provide quality engineered systems, exceptional service.

Goal

Learn...Continually Improve...Exceed Expectations

Founded in 1979 Norris Inc. has grown to become Northern New England's leading integrated system contracting and supply company. Norris Inc. is an innovated proactive organization with extensive experience in integration interdisciplinary building management systems. Our local and national affiliations assure that your project will be done properly regardless of size representing leading manufacturers our comprehensive products provide outstanding quality reliability and performance... surpassing customer application requirements and exceeding the stringent requirements of Underwriters Laboratories, National Fire Protection Association and other codes. We maintain an exceptional level of quality and provide the highest levels of customer service. Our knowledgeable technical support will insure the great service you deserve. Whether your needs involve industrial, commercial, institutional, or educational applications, you can trust that Norris Inc. has the complete resources it takes to provide the right solution right away.

www.norrisinc.com

S. Portland, Maine Office
PO Box 2551
2257 West Broadway
South Portland, ME 04106
Toll Free 1-800-370-3473
Fax 207-879-0540

Bangor Maine Office
54 Perry Rd
Bangor, ME 04401
Toll Free 1-888-312-3473
Fax 207-947-1219

New Hampshire Office
1 Bayside Rd
Greenland, NH 03840
Toll Free 1-877-577-3473
Fax 603-431-2397

Vermont Office
PO Box 633
Middlebury, VT 05753
Phone 1-802-388-3473
Fax 802-385-1174

Applicant ID No: 238321-001
Service Center No 0
Expires: 31-MAR-2009

CERTIFICATE OF COMPLIANCE

THIS IS TO CERTIFY that the Alarm Service Company indicated below is included by Underwriters Laboratories Inc. (UL) in its Product Directories as eligible to use the UL Listing Mark in connection with Certificated Alarm Systems. The only evidence of compliance with UL's requirements is the issuance of a UL Certificate for the Alarm System and the Certificate is current under UL's Certificate Verification Service.

Listed Service From: **SCARBOROUGH, ME**

Alarm Service Company: (238321-001)

NORRIS INC
2257 W BROADWAY
SOUTH PORTLAND ME 04106

Service Center: (238321-001)

NORRIS INC
2257 W BROADWAY
SOUTH PORTLAND ME 04106

The Alarm Service Company is Listed in the following Certificate Service Categories:

<u>File - Vol No.</u>	<u>CCN</u>	<u>Listing Category</u>
S5129 - 1	UUJS	[Signal and Fire Alarm Equipment and Services] (Protective Signaling Services) Local, Auxiliary, Remote Station and Proprietary

***THIS CERTIFICATE EXPIRES ON 31-MAR-2009 ***

"LOOK FOR THE UL ALARM SYSTEM CERTIFICATE"



Engineering Manager
20-MAR-2008



NFPA recognizes

NORRIS INC

*as a member in good standing, entitled
to all rights and privileges of membership.*


James M. Shannon, *President*

January 22, 2003
Date of Issue

NATIONAL SYSTEMS CONTRACTORS ASSOCIATION

NSCA Membership Certificate

This is to certify that

Norris Inc

is an official member of the
National Systems Contractors Association
on this the

First of December

Nancy Emerson

Nancy Emerson
President

Chuck R. Wilson

Chuck Wilson
Executive Director

NSCA
NATIONAL SYSTEMS CONTRACTORS ASSOCIATION



This is to certify that

NORRIS, INC.

is an authorized Engineered Systems Distributor for NOTIFIER

During the Year of 2008

Signed for and on behalf of NOTIFIER

Vice President Domestic Sales

Norris Inc

2257 West Broadway
South Portland, ME 04106

303690SP

12/19/2008 Page: 1
1-800-370-3473

**** SUBMITTAL ****

NEW CUSTOMER

Daryl Norton

653-1515

NEWCUS.

Purchase Order #: 7063

:

16 Casco St. Portland

Qty Description

- 1 addr. fire alarm control panel
- 2 Battery 18 ah
- 2 MOD TO MOD 8C 2'RADIONICS CORD
- 2 SFS MT 8C RJ31X UL (917UL)
- 4 Pull Station Dual Action Addressable
- 7 Intelligent Addressable Photo detector, with base.
- 4 Intelligent Addressable Thermal detector w/ base.
- 4 Addressable Relay Module (elevator recall)
- 4 Addressable Mini Module (sprinkler)
- 9 Strobe, adjustable candela
- 7 Horn Strobe, adjustable candela
- 1 Surface Mount Knox Box
- 1 Lift Cover for Knox Box
- 1 Misc Materials

⇒ FireWarden-100-2(E)

Intelligent Addressable FACP with Built-In Communicator

NOTIFIER[®]
by Honeywell

Addressable

General

The Notifier FireWarden-100-2 (NFW2-100) 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.

The SLC (Signaling Line Circuit) of the FireWarden-100-2 operates using a Rapid Group Polling communication protocol technology that polls multiple devices simultaneously for a quicker device response time. This patented technology allows a fully-loaded panel with up to 198 devices to report an incident and activate the notification circuits in under 10 seconds. With this improved polling, devices can be wired on standard twisted, unshielded wire up to a distance of 10,000 feet. (Consult the wire table on page 3 for specific installation instructions.)

The FireWarden-100-2'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.

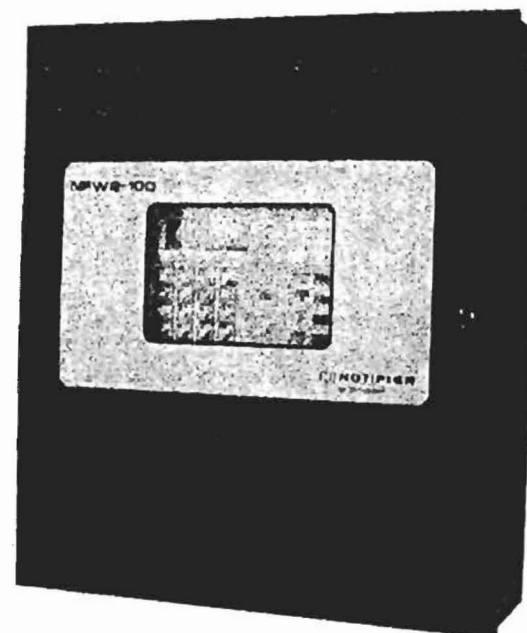
Available accessories include LED, graphic and LCD annunciators, and reverse polarity/city box transmitter.

The panel is 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.

NOTE: Unless otherwise specified, the terms FireWarden-100-2 is used in this document to refer to both the FireWarden-100-2 and the FireWarden-100-2E FACPs (Fire Alarm Control Panels).

Features

- Listed to UL standard 864, 9th edition.
- On-board DACT.
- Four Style Y (Class B) or two Class A (Style Z) NAC circuits.
- Selectable strobe synchronization for System Sensor, Wheelock, and Gentex devices.
- Remote Acknowledge, Silence, Reset and Drill via addressable monitor modules.
- Up to 32 annunciators or remote annunciators via EIA-485.
- EIA-232 printer/PC interface (variable baud rate) on main circuit board.
- 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.



7101cov.jpg

- 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 wire table on page 3.

NOTIFICATION APPLIANCE CIRCUITS (NACS):

- Four onboard NACs with additional NAC capability using output control modules (NC-100).
- 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 or total 24VDC system power shared between all NAC circuits and auxiliary power outputs is 3.6 amps. (System power increases to 6.6 amps with optional XRM-24 transformer.)

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.
- Two programmable Form-C relay outputs.

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. Use the table below to determine the specific wiring requirements for the SLC.

SLC Wire Requirements	Distance in Feet (m)	Wire Size	Wire Type
Twisted-pair, unshielded	10,000 feet (3,048 m)	12 AWG (3.31 mm ²)	<i>Non-Plenum (FPLR):</i> Genesis 4315, Belden 5020UL
			<i>Plenum (FPLP):</i> Genesis 4515, Belden 6020UL
Twisted-pair, unshielded	8,000 feet (2,438 m)	14 AWG (2.08 mm ²)	<i>Non-Plenum (FPLR):</i> Genesis 4313, Belden 5120UL
			<i>Plenum (FPLP):</i> Genesis 4513, Belden 6120UL
Twisted-pair, unshielded	4,875 feet (1,486 m)	16 AWG (1.31 mm ²)	<i>Non-Plenum (FPLR):</i> Genesis 4311, Belden 5220UL
			<i>Plenum (FPLP):</i> Genesis 4511, Belden 6220UL
Twisted-pair, unshielded	3,225 feet (983 m)	18 AWG (0.821 mm ²)	<i>Non-Plenum (FPLR):</i> Genesis 4306, Belden 5320UL
			<i>Plenum (FPLP):</i> Genesis 4506, Belden 6320UL

FireWarden-100-2 Wire Requirements



July 7, 2000

DN-1109 • E-200

 **PS Series Batteries**

Section: Power Supplies

GENERAL

Power-Sonic PS Series batteries provide secondary power for the whole series of NOTIFIER fire alarm control panels.

FEATURES

- Provide secondary power for control panels.
- Gelled electrolyte.
- Sealed and maintenance-free.
- Overcharge protected.
- Extended shelf life.
- Easy handling with leakproof construction.
- Ruggedly constructed, high-impact case (ABS, polystyrene, or polypropylene depending on model).
- Long service life.
- Compact design.

CAPACITY

Battery capacity, expressed in ampere-hours (AH), is the product of a discharge current and the length of time that the current is discharged. Batteries are rated according to their performance during 20 hours of discharge at a constant current.

The rated capacity of a battery is determined by subjecting it to a constant discharge current for 20 hours at 68°F (20°). After 20 hours the voltage across the terminals is measured. The discharge current which causes a reading of 1.72 volts per cell (5.16 V on a 6 V battery and 10.32 V on a 12 V battery) is called the rated current. This current multiplied by 20 is the rated capacity of the battery.

APPLICATIONS

Use the PS Series batteries to provide backup power for control panels. Select batteries based on current requirements for your system and the capacity of its charger. These batteries can be used over a temperature range of -76°F to +140°F (-60°C to +60°C).

CONSTRUCTION

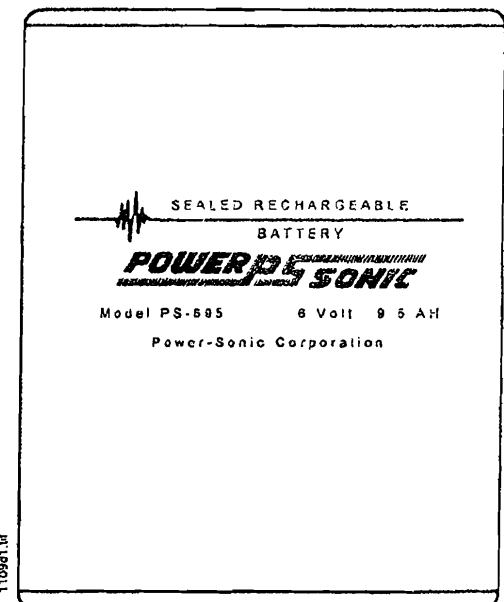
The sealed construction of the Power-Sonic battery allows trouble-free, safe operation in any position. There is no need to add electrolyte, as gases generated during overcharge are recombined in a unique "Oxygen Cycle." The battery is sealed, leakproof, and maintenance-free. The case is of high-impact materials with high resistance to chemicals and flammability.

INSTALLATION

All panels have space reserved for batteries. See the appropriate panel installation manual for battery size restrictions. Typical inter-connection diagrams are shown in the literature accompanying each control panel.

**LISTED**

MH14328 (S)

**The PS-695 Battery**

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. For more information, contact NOTIFIER. Phone: (203) 484-7161 FAX: (203) 484-7118

**NOTIFIER**

One Fire-Lite Place, Northford, Connecticut 06472

ISO 9001
CERTIFIED
ENGINEERING & MANUFACTURING



June 15, 2005

DN-7001 • A1-380

NOT-BG12LX

Addressable Manual Pull Station for FireWarden-100

Section: Addressable

Patented, U.S. Patent No. D428,351; 6,380,846
U.S. Patent Pending: 09/686,286

GENERAL

The NOTIFIER NOT-BG12LX 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 NOTIFIER's addressable FireWarden-100 fire alarm control panel. Because the NOT-BG12LX is addressable, the control panel can display the exact location of the activated manual pull station. This leads fire service personnel quickly to the location of the alarm.

FEATURES

- Aesthetically pleasing, highly visible, dual-action design.
- Meets ADA 5 lb. maximum pull force.
- Easily operated (dual-action).
- Attractive shape and textured finish.
- Mounts, semi-flush, to a standard single-gang (2.125" [5.398 cm] minimum depth), double-gang, or 4.0" (10.16 cm) square electrical box.
- When the handle latches in down position, the word "ACTIVATED" appears at the top of the handle in bright yellow to clearly indicate the station has been operated.
- Key/lock reset; needs only a 1/4-turn to lock/unlock.
- Includes Braille text on station handle.
- Captive screw terminals wire-ready for easy connection to SLC loop (accepts up to 12 AWG/3.1 mm² wire).
- Optional trim ring (BG-TR).
- Meets UL 38, Standard for Manually Actuated Signaling Boxes.
- Maintenance personnel can open station (for inspection and testing) without causing an alarm condition.
- Built-in bicolored LED, which is visible through the handle of the station, flashes red in normal operation and latches on steady red when in alarm.

ENGINEERING SPECIFICATIONS

Manual Fire Alarm Stations shall be non-code, 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 LEXAN® (or polycarbonate equivalent) 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 4.0" (10.16

LEXAN® is a registered trademark of GE Plastics, a subsidiary of General Electric Company.

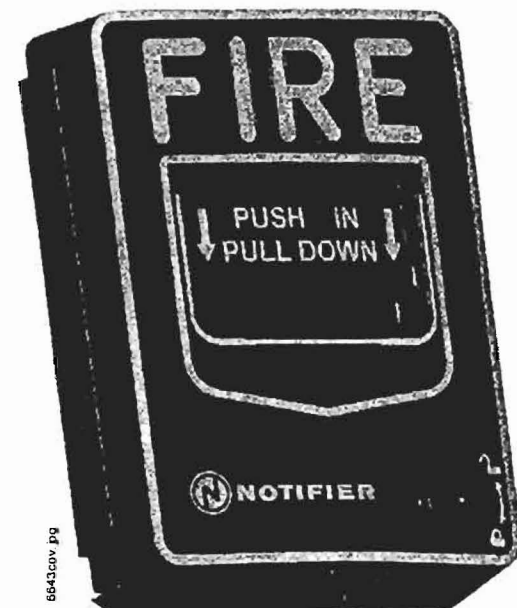
MEA
67-02-E Vol. IV



LISTED
S692



California
State Fire
Marshal
7150-0028:199



The NOT-BG12LX
Addressable Manual Pull Station

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.

ELECTRICAL SPECIFICATIONS

Normal operating voltage: 24 VDC.

Maximum SLC loop voltage: 28.0 VDC.

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. For more information, contact NOTIFIER. Phone: (203) 484-7161 FAX: (203) 484-7118



12 Clintonville Road, Northford, Connecticut 06472





June 15, 2005

DN-6995 • A1-310

NP-100 and NP-100T Addressable Photoelectric Detectors

Section: Addressable

GENERAL

The NP-100 and NP-100T 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 NOTIFIER's FireWarden-100 Addressable Fire Alarm Control Panel (FACP). The NP-100T 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 RA400Z).

FEATURES

SLC loop:

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

Addressing:

- Addressable by device.
- Direct Decade 01 – 99 (FireWarden-100) entry of address.

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:

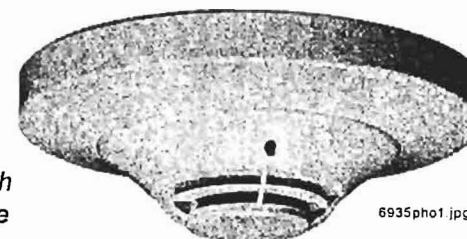
- Sealed against back pressure.
- Direct surface mounting or electrical box mounting.
- Mounts to: single-gang box, 3.5" (8.89 cm) or 4.0" (10.16 cm) octagonal box, or 4.0" (10.16 cm) square electrical box (using a plaster ring — included).

Other system features:

- Fully coated circuit boards and superior RF/transient

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State Fire
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7272-0028:231MARYLAND
State Fire Marshal
Permit # 2173MEA
243-02-E Vol. IINP-100
with
B710LP
base

6934pho1.jpg

NP-100T with
B710LP base

6935pho1.jpg

protection.

- 94-V0 plastic flammability rating.
- Low standby current.

Options:

- Remote LED output connection (P/N RA400Z).

SPECIFICATIONS

Voltage range: 15 – 32 VDC (peak).**Standby current:** 300 μ A @ 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 B710LP base.**Height:** 2.1" (5.33 cm) installed in B710LP base.**Weight:** 3.6 oz. (102 g).**Operating temperature range:** for NP-100: 0°C to 49°C (32°F to 120°F); for NP-100T: 0°C to 38°C (32°F to 100°F).**Temperature:** 0°C – 49°C (32°F – 120°F).**Relative humidity:** 10% – 93%, non-condensing.

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12 Clintonville Road, Northford, Connecticut 06472





June 15, 2005

DN-6997 • A1-320

NH-100 Series Intelligent Addressable Thermal (Heat) Detectors for FireWarden-100

Section: Addressable

GENERAL

The NOTIFIER NH-100 Series thermal detectors are addressable sensors that use a state-of-the-art thermistor sensing circuit for fast response. These sensors are designed to provide open-area protection and are intended for use with the FireWarden-100 Fire Alarm Control Panel (FACP).

Both the NH-100 and NH-100R sensors provide fixed temperature alarm detection at 135°F/57°C. The NH-100R sensor responds to rate-of-rise conditions of greater than 15°F/8.3°C per minute. These thermal detectors provide cost effective, addressable property protection in a variety of applications.

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 RA400Z).

FEATURES

SLC loop:

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

Addressing:

- Addressable by device.
- Direct Decade 01 – 99 (FireWarden-100) entry of address.

Architecture:

- Sleek, low-profile, stylish design.
- State-of-the-art thermistor technology for fast response.
- Integral communications and built-in device-type identification.
- Built-in tamper resistant feature.
- Built-in functional test switch activated by external magnet.

Operation:

- Factory preset at 135°F (57°C).
- Rate-of-rise model (NH-100R), 15°F (8.3°C) per minute.
- 360°-field viewing angle of the visual alarm indicators (two bicolor LEDs). LEDs blink green in Normal condition and turn on steady red in Alarm.
- Visible LEDs "blink" every time the unit is addressed.

Mechanicals:

- Sealed against back pressure.
- SEMS screws for wiring of the separate base.
- Designed for direct-surface or electrical-box mounting.
- Plugs into separate base for ease of installation and maintenance.

**MEA**
387-02-E Vol. IICalifornia
State Fire
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6936pho1.jpg

NH-100 with B710LP base

- Separate base allows interchange of photoelectric, ionization and thermal sensors.

Other system features:

- Remote test feature from the panel.
- Walk test with address display.
- Low standby current.
- 94-5V plastic flammability rating.

Options:

- Remote LED output connection to optional RA400Z remote LED annunciator.
- Recessed (RMK400) or surface (SMK400) base mounting kits.

SPECIFICATIONS

Diameter: 6.1" (15.5 cm) installed in B710LP.**Height:** 2.1" (5.33 cm).**Weight:** 4.8 oz. (137 g).**Installation temperature:** -4°F to 100°F (-20°C to 38°C).**Humidity range:** 10% to 93% relative humidity (noncon-

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12 Clintonville Road, Northford, Connecticut 06472





June 15, 2005

DN-7000 • A1-360

NC-100 and NC-100R Control and Relay Modules for the FireWarden-100

Section: Addressable

GENERAL

The **NC-100 Addressable Control Module** provides NOTIFIER's **FireWarden-100** intelligent control panels a supervised Class B (Style Y) or Class A (Style Z) circuit for Notification Appliances (horns, strobes, etc.). Addressability allows the NC-100 to be activated, either manually or through panel programming, on a select (zone or area of coverage) basis.

The **NC-100R Addressable Relay Module** provides the FireWarden-100 system with two isolated sets of Form-C dry-contact outputs for activating a variety of auxiliary devices, such as fans, dampers, door holders, control equipment, etc. Addressability allows the dry contact to be activated, either manually or through panel programming, on a select basis.

FEATURES

- Built-in type identification automatically identifies these devices to the control panel.
- Internal circuitry and relay powered directly by two-wire SLC loop. The NC-100 module requires power (for horns, strobes, etc.).
- Integral LED "blinks" green each time a communication is received from the control panel and turns on steady when activated.
- High noise immunity (EMF/RFI).
- The NC-100 may be used to switch 24-volt NAC power.
- Wide viewing angle of LED.
- SEMS screws with clamping plates for wiring ease.
- Direct Decade 01-99 (FireWarden-100) entry of address.

APPLICATIONS

The NC-100 is used to switch 24 VDC audible/visual power. The NC-100R may be programmed to operate dry contacts for door holders, Air Handling Unit shutdown, etc.

CONSTRUCTION

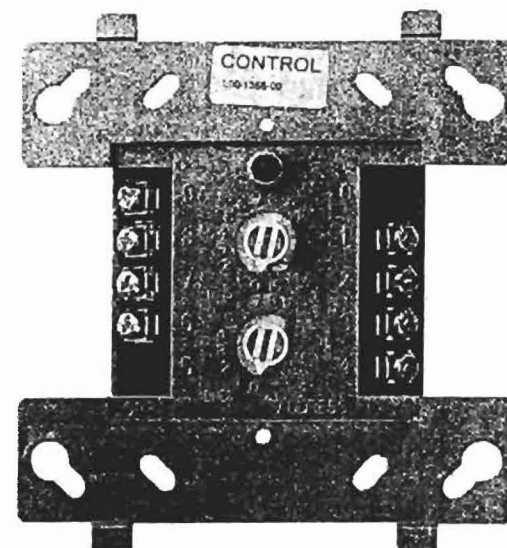
- The face plate is made of off-white Noryl®.
- Controls include two rotary switches for direct-dial entry of address (01-99 on the FireWarden-100).
- The NC-100 is configured for a single Class B (Style Y) or Class A (Style Z) Notification Appliance Circuit.
- The NC-100R provides two Form-C dry contacts that switch together.

OPERATION

Each NC-100 or NC-100R uses one of 99 (FireWarden-100) possible module addresses on a SLC loop. It responds to regular polls from the control panel and reports its type and status, including the open/normal/short status of its Notification Appliance Circuit (NAC). The LED blinks with each poll received. On command, it activates

California
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MEA
72-01-E Vol. II

NC-100 and NC-100R module

its internal relay. The NC-100 supervises Class B (Style Y) or Class A (Style Z) notification or control circuits.

Upon code command from the panel, the NC-100 will disconnect the supervision and connect the external power supply in the proper polarity across the load device. The disconnection of the supervision provides a positive indication to the panel that the control relay actually turned ON. The external power supply is always relay isolated from the communication loop so that a trouble condition on the external power supply will never interfere with the rest of the system.

Rotary switches set a unique address for each module. The address may be set before or after mounting. The built-in TYPE CODE (not settable) will identify the module to the control panel, so as to differentiate between a module and a sensor address.

Noryl® is a registered trademark of GE Plastics, a subsidiary of General Electric Company.

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June 15, 2005

DN-6999 • A1-350

Addressable Monitor Modules for the FireWarden-100:

NMM-100, NMM-100P, NZM-100, NDM-100

Section: Addressable

GENERAL

Four different monitor modules are available for NOTIFIER's FireWarden-100 intelligent fire alarm control panels to suit a variety of applications. Monitor modules are used to supervise a circuit of dry-contact input devices, such as conventional heat detectors and pull stations, or monitor and power a circuit of two-wire smoke detectors (NZM-100).

NMM-100 — The NMM-100 Monitor Module is a standard-sized module (typically mounts to a 4.0" [10.16 cm] square box) that supervises either a Class A (Style D) or Class B (Style B) circuit of dry-contact input devices.

NMM-100P — The NMM-100P is a Miniature Monitor Module (a mere 1.3" (3.302 cm) H x 2.75" (6.985 cm) W x 0.5" (1.270 cm) D) used to supervise a Class B (Style B) circuit. Its compact design allows the NMM-100P to be mounted in a single-gang box behind the device it is monitoring.

NZM-100 — The NZM-100 Interface Module is a standard-sized module used to monitor and supervise compatible two-wire, 24 volt, smoke detectors on a Class A (Style D) or Class B (Style B) circuit.

NDM-100 — The NDM-100 Dual Monitor Module is a standard-sized module (typically mounts to a 4.0" [10.16 cm] square box) that supervises two Class B (Style B) circuits of dry-contact input devices.

NMM-100 MONITOR MODULE

- Built-in type identification automatically identifies this device as a monitor module to the control panel.
- Powered directly by two-wire SLC loop. No additional power required.
- High noise (EMF/RFI) immunity.
- SEMS screws with clamping plates for ease of wiring.
- Direct Decade 01 – 99 (FireWarden-100) entry of address.
- LED flashes red during normal operation and latches on steady to indicate alarm.

The **NMM-100 Monitor Module** is intended for use in intelligent, two-wire systems, where the individual address of each module is selected using the built-in rotary switches. It provides either a two-wire or four-wire Class A or Class B fault-tolerant Initiating Device Circuit (IDC) for normally-open-contact fire alarm and supervisory devices.

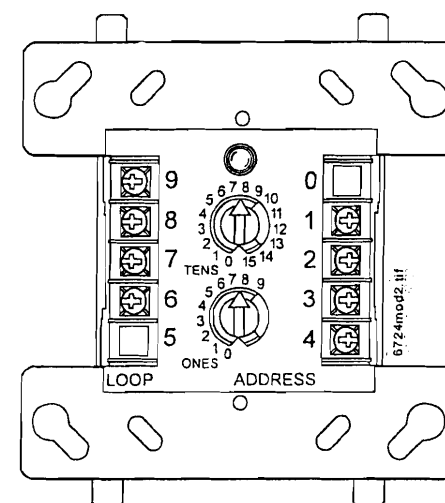
NMM-100 Applications — Use to monitor a zone of four-wire smoke detectors, manual fire alarm pull stations, waterflow devices, or other normally-open dry-contact alarm activation devices. May also be used to monitor normally-open supervisory devices with special supervisory indication at the control panel. Monitored circuit may be wired as an NFPA Style B (Class B) or Style D (Class D) Initiating Device Circuit. A 47K ohm End-of-Line Resistor (provided) terminates the Style B circuit. No resistor is re-



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72-01-E Vol. II
(except NDM-100)



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(except NDM-100)



NMM-100 and NZM-100

quired for supervision of the Style D circuit. Maximum IDC resistance is 1,500 ohms.

NMM-100 Operation — Each NMM-100 uses one of 99 (FireWarden-100) available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC). A flashing LED indicates that the module is in communication with the control panel. The LED latches steady on alarm (subject to current limitations on the loop).

NMM-100 Specifications

Nominal operating voltage: 15 to 32 VDC.

Maximum current draw: 5.1 mA (LED on).

Average operating current: 400 µA (LED flashing).

EOL resistance: 47K ohms.

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

Humidity range: 10% to 93% noncondensing.

Dimensions: 4.5" (11.43 cm) high x 4.0" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4.0" (10.16 cm) square x 2.125" (5.398 cm) deep box.

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NDM-100 DUAL MONITOR MODULE

- Built-in type identification automatically identifies this device as two monitor modules to the control panel.
- Powered directly by the two-wire SLC loop. No additional power required.
- High noise (EMF/RFI) immunity.
- SEMS screws with clamping plates for ease of wiring.
- Direct-dial entry of address 01 – 99 (FireWarden-100) uses two addresses per module.
- LED flashes red during normal operation and latches on steady red to indicate alarm.

The NDM-100 Dual Monitor Module is intended for use in intelligent, two-wire systems, where the individual address of each module is selected using the built-in rotary switches. It provides two independent two-wire fault-tolerant Initiating Device Circuits (IDCs) at two separate, consecutive addresses. It is capable of monitoring normally open-contact fire alarm and supervisory devices, or either normally open or normally closed devices for non-fire applications.

NDM-100 Applications — Use to monitor a zone of four-wire smoke detectors, manual fire alarm pull stations, waterflow devices, or other normally-open dry-contact alarm activation devices. May also be used to monitor normally-open supervisory devices with special supervisory indication at the control panel. Monitored circuit may be wired as an NFPA Style B (Class B) Initiating Device Circuit. The 47K ohm End-of-Line Resistors (provided) terminate the Style B circuit. Maximum IDC resistance is 1,500 ohms.

NDM-100 Operation — Each NDM-100 uses two of 99 (FireWarden-100) available module addresses on an SLC loop. It responds to regular polls from the control panel and reports its type and the status (open/normal/short) of its Initiating Device Circuit (IDC). A flashing LED indicates that the module is in communication with the control panel. The LED latches steady on alarm (subject to current limitations on the loop).

NDM-100 Specifications

Nominal operating voltage: 15 to 32 VDC.

Maximum current draw: 5.1 mA (LED on).

Average operating current: 750 μ A (LED flashing).

EOL resistance: 47K ohms.

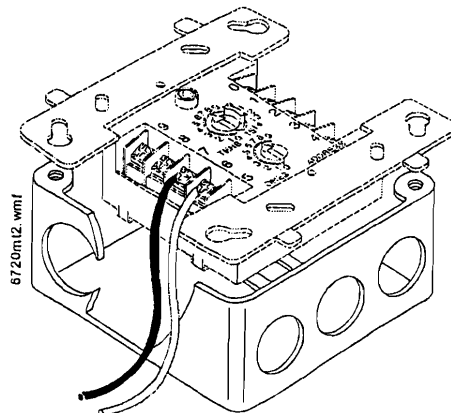
Maximum IDC wire resistance: 1,500 ohms.

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

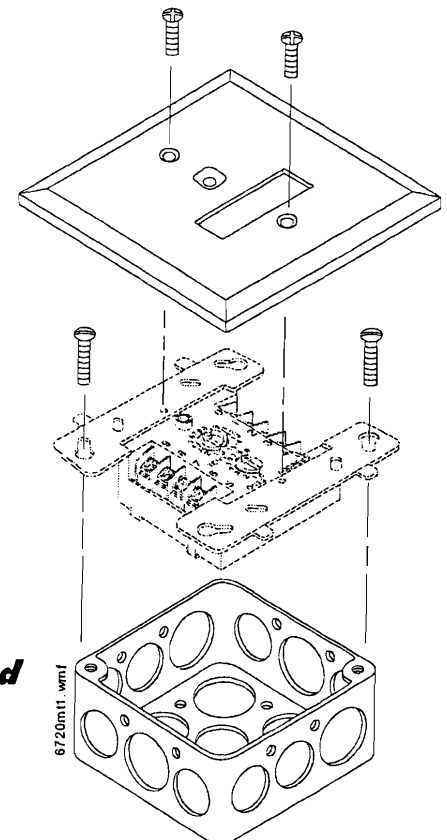
Humidity range: 10% to 93% noncondensing.

Dimensions: 4.5" (11.43 cm) high x 4.0" (10.16 cm) wide x 1.25" (3.175 cm) deep. Mounts to a 4.0" (10.16 cm) square x 2.125" (5.398 cm) deep box.

Accessories: SMB500 electrical box.



MOUNTING DIAGRAMS for standard-sized modules



INSTALLATION

NMM-100, NZM-100, and NDM-100 modules mount directly to a standard 4.0" (10.16 cm) square, 2.125" (5.398 cm) deep, electrical box. They may also be mounted to the SMB500 surface-mount box. Mounting hardware and installation instructions are provided with each module. All wiring must conform to applicable local codes, ordinances, and regulations. These modules are intended for power-limited wiring only.

The *NMM-100P* module is intended to be wired and mounted without rigid connections inside a standard electrical box. All wiring must conform to applicable local codes, ordinances and regulations.

ARCHITECTS'/ENGINEERS' SPECIFICATIONS

Specifications of these and all NOTIFIER products are available from NOTIFIER.

PRODUCT LINE INFORMATION

NMM-100	Monitor module.
NMM-100P	Mini monitor module.
NZM-100	Two-wire detector monitor module.
NDM-100	Dual monitor module.
SMB500	Optional surface-mount backbox.



March 30, 2004

DN-5765 • J-120

Wheelock RSS and RSSP Series Single- and Multi-Candela Strobes and Strobe Plates

Section: Audio/Visual Devices

GENERAL

Wheelock's patented Series RSS Strobe Appliances and Series RSSP Strobe Plates have lower current draw while maintaining outstanding performance, reliability and cost effectiveness. These versatile appliances will satisfy virtually all requirements for indoor, wall or ceiling mount applications.

Strobe options for wall mount models include 15/75 or Wheelock's Patented MCW multi-candela strobe with field selectable candela settings of 15/30/75/110cd, Ceiling mount models include the patented MCC multi-candela ceiling strobe with field selectable intensities of 15/30/75/95cd or the high intensity MCCH strobe with field selectable 115/177cd.

All models may be synchronized when used in conjunction with the Wheelock **SM**, **DSM** Sync Modules or a Power Supplies with Wheelock's Patented Sync Protocol. Synchronized strobes can eliminate possible restrictions on the number of strobes in the field of view. Wheelock's synchronized strobes offer an easy way to comply with ADA recommendations concerning photosensitive epilepsy as well as meeting the requirements of NFPA 72.

Wheelock's Series RSS Strobes employ a Patented Integral Strobe Mounting Plate that can be mounted to a single gang, double gang, 4" square, 100mm European backboxes or the SHBB surface backbox. If the flush backbox has side or top space between it and the finished wall, the **NATP** (Notification Appliance Trimplate) may be used. It provides an additional .65" of trim for the Appliance. An attractive cover plate is provided for a clean, finished appearance on all models.

The Series RSSP Multi-Candela Strobe Plates are a cost effective way to retrofit required wall strobe appliances to bells, horns, chimes, multitones or speakers and easily mounts to standard 4" backboxes or for surface mount use with Wheelock's SBL2 surface backbox.

FEATURES

- Wall mount Multi-Candela models are available with Field Selectable Candela Settings of 15/30/ 75/110cd or 135/185cd. Single Candela models are available in 15/75cd
- Ceiling mount Multi-Candela models are available with field selectable candela settings of 15/30/75/95cd or 115/177cd.
- Strobes produce 1 flash per second over the regulated voltage range
- 12 and 24 VDC models with wide UL "Regulated Voltage" using filtered (DC) or unfiltered VRMS input voltage
- Synchronize with Wheelock SM, DSM or Power Supplies with built-in sync protocol

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7125-0785:141

MEA151-92-E Vol. XIX, XX
Vol. XXIV (RSS-24MCW-FR, -FW)

Series RSS



RSS Round

Multi-Candela Indicator
(bottom of Strobe Lens)

Series RSSP

- ADA/NFPA/UFC/ANSI compliant. Meets OSHA 29 Part 1910.165

GENERAL NOTES

- RSS/RSSP Series strobe products are listed under UL 1971 for indoor use with a temperature range of 32°F to 120°F (0°C to 49°C) and maximum humidity of 93% (± 2%).
- "**Regulated voltage range**" is the newest terminology used by UL to identify the voltage range. Prior to this change, UL used the terminology "Listed voltage range."

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WIRING DIAGRAMS

FIGURE 1: RSS/RSSP device.

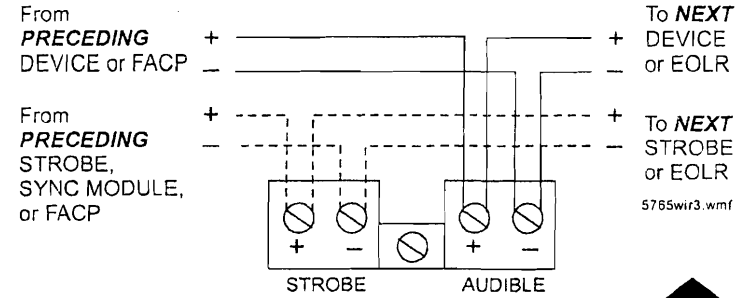
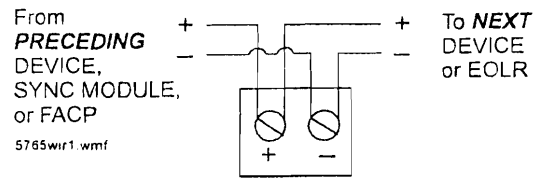


FIGURE 2: Strobe/plate assembly with audible and visible operating in unison.

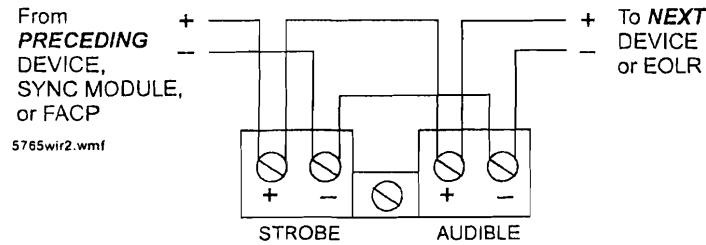
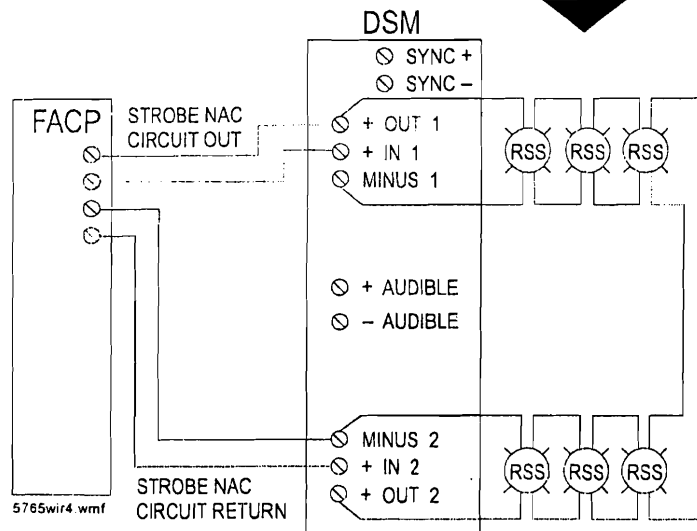


FIGURE 3: Strobe/plate assembly with audible and visible operating independently.

FIGURE 4: RSS/RSSP devices synchronized with DSM Module; single Class "A" NAC circuit.

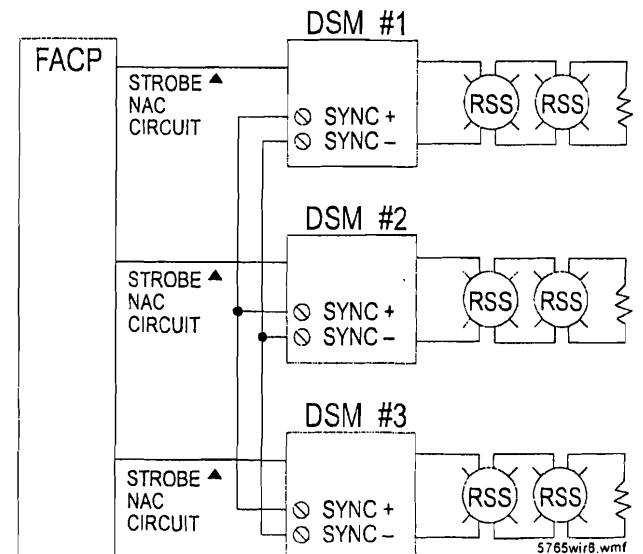
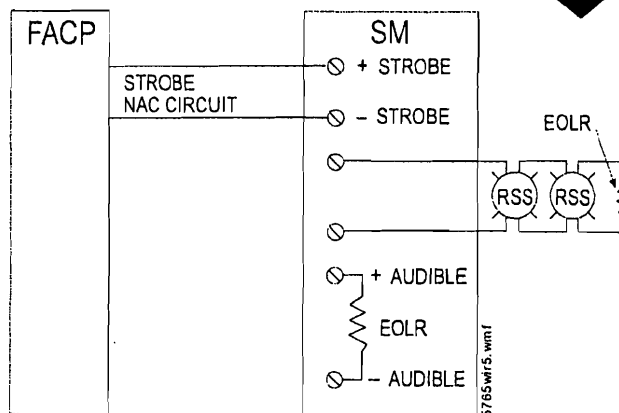


For details on using SM or DSM Sync Modules Installation instructions #P83123 (for SM) or #P83177 (for DSM).

FIGURE 6: RSS/RSSP devices synchronized with multiple DSM Modules.

INTERCONNECTING WIRING SHOWN. MAXIMUM OF TWENTY (20) DSM MODULES.

FIGURE 5: RSS/RSSP devices synchronized with SM Module single Class "B" NAC circuit.





March 30, 2004

DN-6601 • J-134

Wheelock
NS Series horn Strobes
and NH Series Horns
Section: Audio/Visual Devices

GENERAL

The Wheelock Series NS Horn Strobe Appliances will satisfy virtually all requirements for indoor, wall mount applications.

The Series NH Horn and the horn portion of the Series NS include a selectable continuous horn tone or temporal pattern (Code 3) with selectable dBA settings of 90 or 95 dBA.

Strobe options include 1575cd or Wheelock's patented Multi-Candela strobe with field selectable candela settings of 15/30/75/110cd.

These versatile Horn Strobe Appliances may be synchronized when used in conjunction with the Wheelock SM or DSM Sync Modules or a Power Supply with the Wheelock patented Sync Protocol. Additionally, the audible may be silenced while maintaining strobe activation.

All models of the Series NS and NH are designed for maximum performance, reliability and cost-effectiveness while meeting or exceeding the latest requirements of NFPA 72/ANSI 117.1/UFC and UL Standards 1971 and 464 as well as meeting ADA requirements concerning photosensitive epilepsy.

FEATURES

- Field Selectable Candela Settings 15/30/75/110cd (24 VDC Multi-Candela models) or 1575cd in 12 or 24 VDC
- Selectable Continuous Horn or Temporal (Code 3)
- 2 Selectable dBA settings of 90 and 95 dBA in both tones
- 12 and 24 VDC models with UL "Regulated Voltage" using filtered DC or unfiltered VRMS input voltage
- Patented Universal Mounting Plate
- Wall Mount
- ADA/NFPA/UFC/ANSI compliant
- Complies with OSHA 29, Part 1910.165
- NH horn is selectable 12 or 24 VDC in 1 unit
- Synchronize with Wheelock SM or DSM Sync Module or the Power Supply with built-in sync protocol
- Patent pending Universal Mounting Plate for single-gang, double-gang, 4" (10.16 cm) square, or 100 mm European backboxes, or Wheelock's SHBB shallow surface backbox.
- Fast installation with IN/OUT screw terminals using #12 to #18 AWG wires

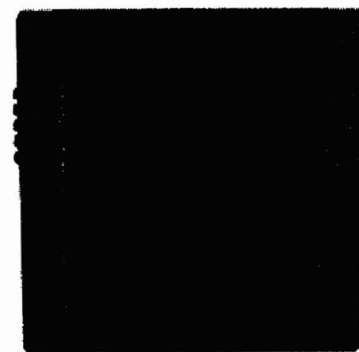
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MEA
151-92-E

NS Horn Strobe

NH Horn

**Multi-Candela Indicator**
(bottom of Strobe Lens)

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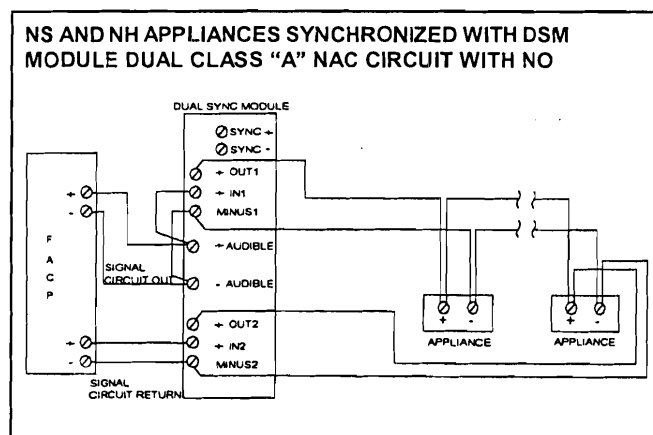
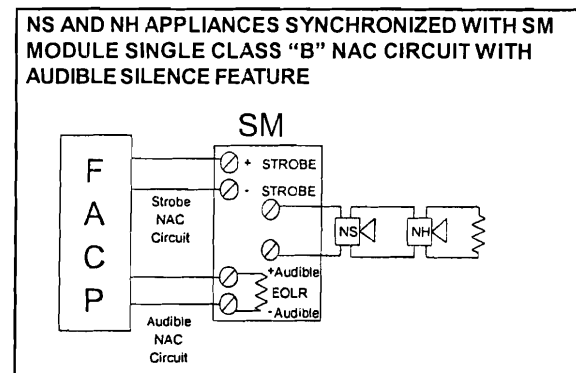
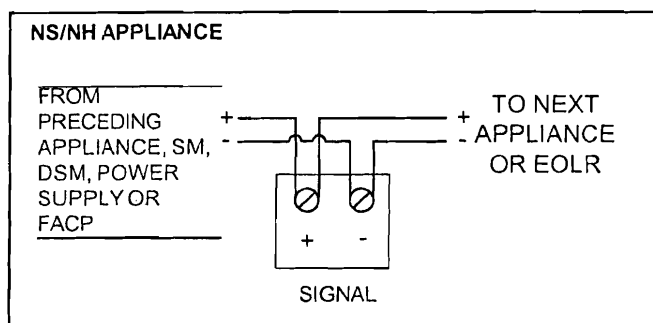
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⚠ WARNING: CONTACT WHELOCK FOR THE CURRENT INSTALLATION INSTRUCTIONS (P83983) SERIES NS-24MCW, (P84234) SERIES NS-12 AND 24 VDC SINGLE CANDELA MODELS, (P83600) SERIES NH AND "GENERAL INFORMATION" SHEET (P82380) ON THESE PRODUCTS. THESE DOCUMENTS UNDERGO PERIODIC CHANGES. IT IS IMPORTANT THAT YOU HAVE CURRENT INFORMATION ON THESE PRODUCTS. THESE MATERIALS CONTAIN IMPORTANT INFORMATION THAT SHOULD BE READ PRIOR TO SPECIFYING OR INSTALLING THESE PRODUCTS, INCLUDING:

- TOTAL CURRENT REQUIRED BY ALL APPLIANCES CONNECTED TO SYSTEM SECONDARY POWER SOURCES.
- FUSE RATINGS ON NOTIFICATION APPLIANCE CIRCUITS TO HANDLE PEAK CURRENTS FROM ALL APPLIANCES ON THOSE CIRCUITS.
- COMPOSITE FLASH RATE FROM MULTIPLE STROBES WITHIN A PERSON'S FIELD OF VIEW.
- ADDING, REPLACING OR CHANGING APPLIANCES OR CHANGING CANDELA SETTINGS WILL AFFECT CURRENT DRAW. RECALCULATE CURRENT DRAW TO INSURE THAT THE TOTAL AVERAGE CURRENT AND TOTAL PEAK REQUIRED BY ALL APPLIANCES DO NOT EXCEED THE RATED CAPACITY OF THE POWER SOURCES OR FUSES.
- THE VOLTAGE APPLIED TO THESE PRODUCTS MUST BE WITHIN THEIR "REGULATED VOLTAGE RANGE".
- INSTALLATION OF 110 CANDELA STROBE PRODUCTS IN SLEEPING AREAS.
- INSTALLATION IN OFFICE AREAS AND OTHER SPECIFICATION AND INSTALLATION ISSUES.
- THESE APPLIANCES ARE NOT DESIGNED TO BE USED ON CODED SYSTEMS IN WHICH THE APPLIED VOLTAGE IS CYCLED ON AND OFF.
- FAILURE TO COMPLY WITH THE INSTALLATION INSTRUCTIONS OR GENERAL INFORMATION SHEETS COULD RESULT IN IMPROPER INSTALLATION, APPLICATION, AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.
- CONDUCTOR SIZE (AWG), LENGTH AND AMPACITY SHOULD BE TAKEN INTO CONSIDERATION PRIOR TO DESIGN AND INSTALLATION OF THESE PRODUCTS, PARTICULARLY IN RETROFIT INSTALLATIONS.

WIRING DIAGRAMS



NOTE: NS/NH must be set on Code 3 horn tone to achieve synchronized temporal (Code 3) tone. Refer to installation instruction (P83983, P83600 respectively).

* For detail using SM or DSM Sync Module refer to Data Sheet S3000 or Installation Instructions P83123 for SM and P83177 for DSM.



Knox-Box® 3200 Series LIFT-OFF DOOR MODEL

High Security Industrial/Government Key Box

Recessed Mount
with Face Flange



Surface Mount

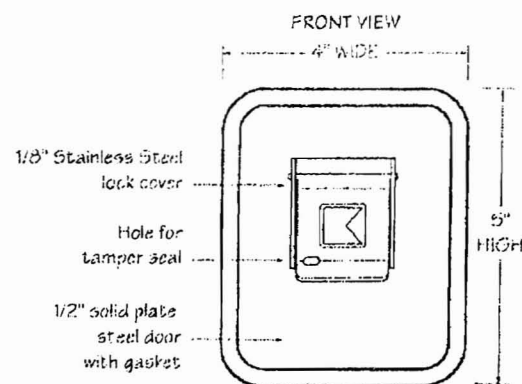
The number one high-security KNOX-BOX® key box is used for most commercial applications including businesses, schools, government and public buildings, community associations and apartment complexes. The 3200 Series KNOX-BOX with lift-off door holds keys, access cards and other small items necessary for emergency access.

Features and Benefits

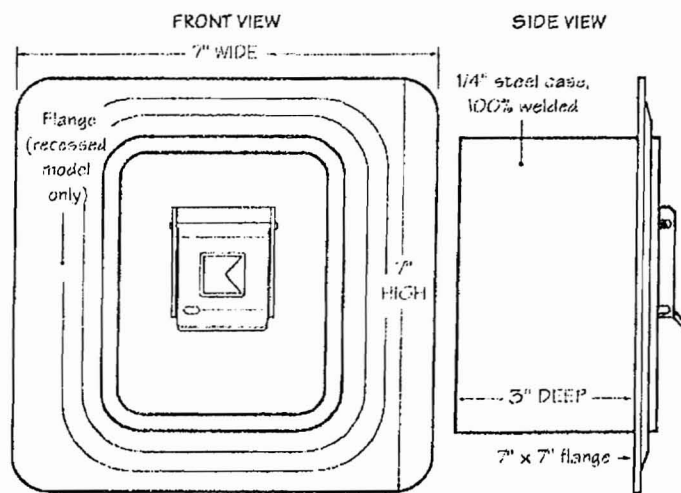
- Holds up to 10 keys or 3 access cards in interior compartment
- Ensures high security with UL[®] Listed Medeco lock
- Includes a Knox-Coat[®] proprietary finishing process that protects Knox products up to four times better than standard powder coat
- Resists moist conditions with a weather resistant door gasket
- Colors: Black, Dark Bronze or Aluminum
- Weight: Surface mount - 8 lbs.
Recessed mount - 9 lbs.

Options

- Alarm tamper switches (UL Listed)
- Additional rust and corrosion protection (Aluminization)
- Recessed Mounting Kit (RMK) for recessed models only



3200 Surface Mount



3200 Recessed Mount

Ordering Specifications

To insure procurement and delivery of the 3200 Series KNOX-BOX, it is suggested that the following specification paragraph be used:

KNOX-BOX surface/recessed mount with lift-off door, with/without UL Listed tamper switches. 1/4" plate steel housing, 1/2" thick steel door with interior gasket seal. Box and lock UL Listed. Lock has 1/8" thick stainless steel dust cover with tamper seal mounting capability.

Exterior Dimensions: Surface mount - 5"H x 4"W x 3 1/4"D
Recessed mount - 7"H x 7"W x 3 1/4"D

Lock: UL Listed. Double-action rotating tumblers and hardened steel pins accessed by a biased cut key.

Finish: Knox-Coat[®] proprietary finishing process

Colors: Black, Dark Bronze or Aluminum

P/N: 3200 Series KNOX-BOX (mlr's cat. ID)

Mlr's Name: **KNOX COMPANY**



System Power Requirements

NFW-50 Fire Alarm Control Panel

Protected Premises: <u>16 Casco St.</u>	Date: <u>12/19/2008</u>
Address: _____	
City: <u>Portland</u>	State: <u>Maine</u> Zip: _____
Prepared By: <u>Norris Inc.</u>	Phone: <u>(207)-883-3473</u>
Address: <u>2257 West Broadway</u>	Email: _____
City: <u>South Portland</u>	State: <u>Maine</u> Zip: <u>04106</u>

AC Branch Current Requirements 3.00 AMPS @ 120 VAC

Current required by source to power the fire alarm system.

Primary Standby Load 0.13 Amps

Current load on the primary power supply during non-alarm conditions.

Primary Alarm Load 2.07 Amps

Current load on the primary power supply during alarm conditions.

Secondary Load Requirements 3.83 Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load 0.126 A	x	Required Standby Time 24 hours	3.02
Secondary Alarm Load 2.070 A	x	Required Alarm Time (hours) 0.084 hours	0.17
Auxiliary Power Supply Load 0.000 A	x	Required Alarm Time (hours) 0.084 hours	0.00
Total Secondary Load			3.20
Derating factor			x 1.2
Secondary Load Requirements			3.83

AH

Battery Selection 18 Amp Hours

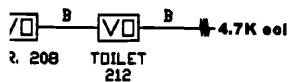
Select batteries from the list below.

18 AH BAT-12180 Battery (12 volt)

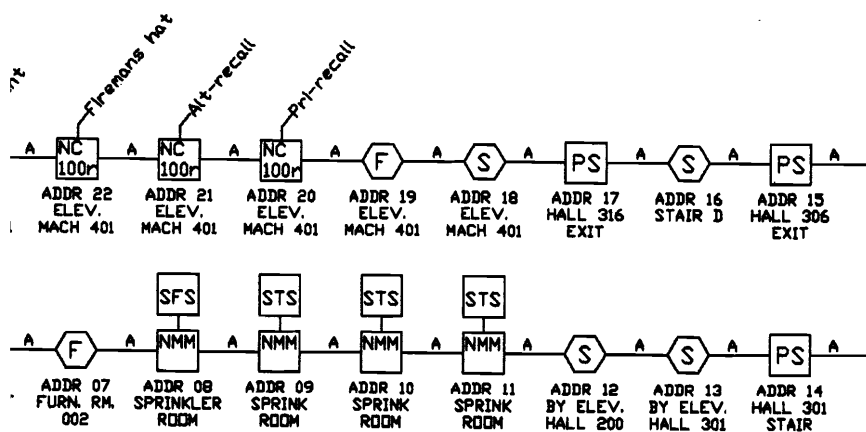
- Two Four (two 12VDC sets in parallel)

Important! Wiring connections must have correct polarity.

-4.7K eol



4.7K eol



Coordinate terminations with telephone representative. Must be completed before fire alarm service visit for final certification.

FROM FACP TO CH BLOCK AREA

FURNISHED BY OTHER

PUNCH
DOWN
BLOCK

Important! Duplicate Addresses on devices of different style are NOT allowed on this panel. All electronic devices MUST be placed in a heated room with temperature above 32 degrees. Never run wires parallel to any other wiring. Make sure to always run cables in separate raceways. Fire alarm wiring can emit noise that may effect other devices. Shielded cable can be used if cable is run near sensitive equipment.

LEGEND

MOUNTING HEIGHT			
48 INCHES	PS	PULL STATION	
	S	SMOKE DETECTOR	
	R	HEAT DETECTOR RATE OF RISE	
	F	HEAT DETECTOR FIXED TEMP	
	120v RT	REMOTE TEST/INDICATOR	
	DS	DUCT SMOKE DETECTOR	Note: Remove J1 jumper
80 INCHES	VO	VISUAL ONLY	
80 INCHES	AV	AUDIO / VISUAL	
	NZM 100	ZONE MODULE	
	NC-100	CONTROL MODULE	
	NMM	MONITOR MODULE	100=4 SQUARE, 100p=minimod
	NC 100r	RELAY MODULE	
	STS	SPRINKLER TAMPER	
	SFS	SPRINKLER FLOW	
	DH	DOOR HOLDER 120V AC	

This drawing is a typical device layout, wiring is shown diagrammatically only. This drawing has been provided as an example ONLY. Riser does not necessarily indicate all devices and appliances. See floor plans and specification for location and quantities. The purchaser must accurately layout the initiating and notification devices in their proper zones/circuit. Note: All signal circuits have a combined load limitation of 2.5 amps for the 2 circuits. REMOTE power supply has a 3.0 amps limitation per circuit and an 8.0 amp combined limitation for all 4 circuits. (see chart below for current vs. candela rating)


Room Size	Candela Rating	Load (amps)
20' x 20'	15 cd	0.08 amps
28' x 28'	30 cd	0.10 amps
45' x 45'	75 cd	0.15 amps
54' x 54'	110 cd	0.20 amps

4.7k END OF LINE RESISTOR (Panel Circuits)

A	1 PR #12 AWG TWISTED-PAIR CABLE FPL GENESIS WG-4315 & WG-4515 BELDEN 5020UL & 6020UL (Up to 10,000 ft)
A	1 PR #14 AWG TWISTED-PAIR CABLE FPL GENESIS WG-4313 & WG-4513 BELDEN 5120UL & 6120UL (Up to 8,000 ft)
A	1 PR #16 AWG TWISTED-PAIR CABLE FPL GENESIS WG-4311 & WG-4511 BELDEN 5220UL & 6220UL (Up to 4,500 ft)
B	1 PR #12 AWG FPL CABLE
D	1 PR #14 AWG FPL CABLE
E	1 PR #16 AWG FPL CABLE
F	2c #12 AWG CABLE
G	2c #14 AWG CABLE
H	2c #16 AWG CABLE
J	1 CAT5 CABLE

REVISION 2	DATE:
REVISION 1	DATE:
REVISION 0 SUBMITTAL	DATE: 12/10/08

SYSTEM WIRING RISER

PROJECT NAME 16 Casco St. Portland, MAINE	SCALE NTS
 Prepared For Tomorrow: Delivered Today 2257 BROADWAY, SQ. PORTLAND, MAINE	BY: EAD
	CK BY:
	SAVED AS:



ARCHITECTURE
PRESERVATION
DESIGN

800 CONGRESS STREET
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FAX 207 772-7557
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16 CASCO STREET
PORTLAND, MAINE

12/17/07: City of Portland,
Selective Demo Permit
Application

1/14/08: SFM Review

3/6/08: Revised per SFM
Comments

Title:

BASEMENT
FLOOR PLAN

Project No: 200706

Date: MARCH 6, 2008

Revisions:

PERMITTING AND
Issued For: CONSTRUCTION

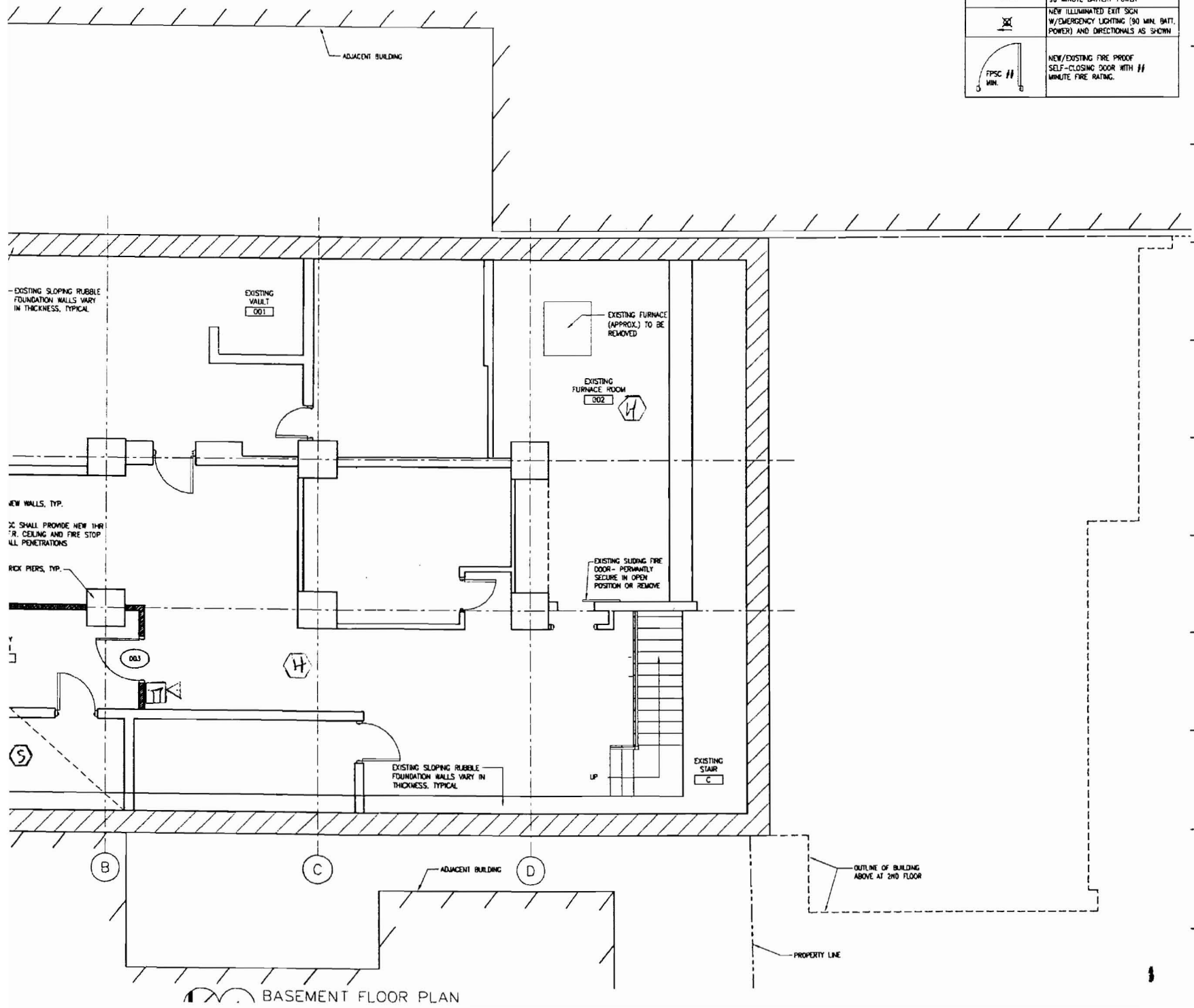
Drawing No:

A1.1

LEGEND

SYMBOL	DESCRIPTION
	EXISTING MASONRY EXTERIOR WALL TO REMAIN
	EXISTING INTERIOR PARTITION
	NEW INTERIOR PARTITION. SEE NOTE
	NEW FIRE RATED PARTITION SMOKE & FIRE STOP ALL PENETRATIONS. SEE NOTES, DETAILS.
	EXISTING FIRE RATED PARTITION (ASSUMED) G.C. SHALL CONFIRM AND SMOKE & FIRE STOP ALL PENETRATIONS. SEE NOTES FOR RED'D F.R.
	NEW FIRE EXTINGUISHER CABINET
	NEW EMERGENCY LIGHT WITH 90 MINUTE BATTERY POWER
	NEW ILLUMINATED EXIT SIGN W/EMERGENCY LIGHTING (90 MIN. BATT. POWER) AND DIRECTIONALS AS SHOWN
	NEW/EXISTING FIRE PROOF SELF-CLOSING DOOR WITH 11 MINUTE FIRE RATING.

DOOR #	SIZE	MATERIAL		FIRE RATING (MINUTES)	HARDWARE				WEATHERSTRIPPING	THRESHOLD
		DOOR	FRAME		LOCKSET	CLOSER	HINGES			
003	3'-0" x 7'-0"	HM (PTD)	HM (PTD)		●	●	●			



BASEMENT FLOOR PLAN

WARE	SET	CLOSER	HINGES	WEATHERSTRIPPING	THRESHOLD
					AL

2. INSTALL NEW NYLON/RUBBER TREAD COVERS W/ NON-SLIP MESHES.
 NEW INTERIOR PARTITIONS:
 3. 5/8" WFL STUDS (22GA) @ 16" O.C. W/ TOP & BOT RUNNERS HEIGHT 6" MIN. FINISHED CLG W/ 1/2" CNB EACH SIDE.
 PROVIDE MOISTURE RESISTANT CNB @ TOILETS, SHOWERS & SINK LOCATIONS.

EXISTING STAIR A:
 1. EXISTING WOOD RAILING AND POSTS SHALL REMAIN. CLEAN AND RESECURE ANY LOOSE ATTACHMENTS. INSTALL NEW METAL HANDRAIL AND RAIL INELL SCREEN. SEE DETAIL.

EXISTING STAIR B:
 1. EXISTING WOOD HANDRAILS SHALL REMAIN. RESET WHERE REQUIRED FOR TOP OF RAIL TO BE 3'-2" ABOVE TREAD HEIGHT. PROVIDE NEW MOUNTING BRACKETS TO REPLACE MISSING OR DAMAGED BRACKETS.

TOILET ROOM NOTES:
 SEE DWG. G12 FOR MOUNTING HEIGHTS OF FIXTURES & ACCESSORIES

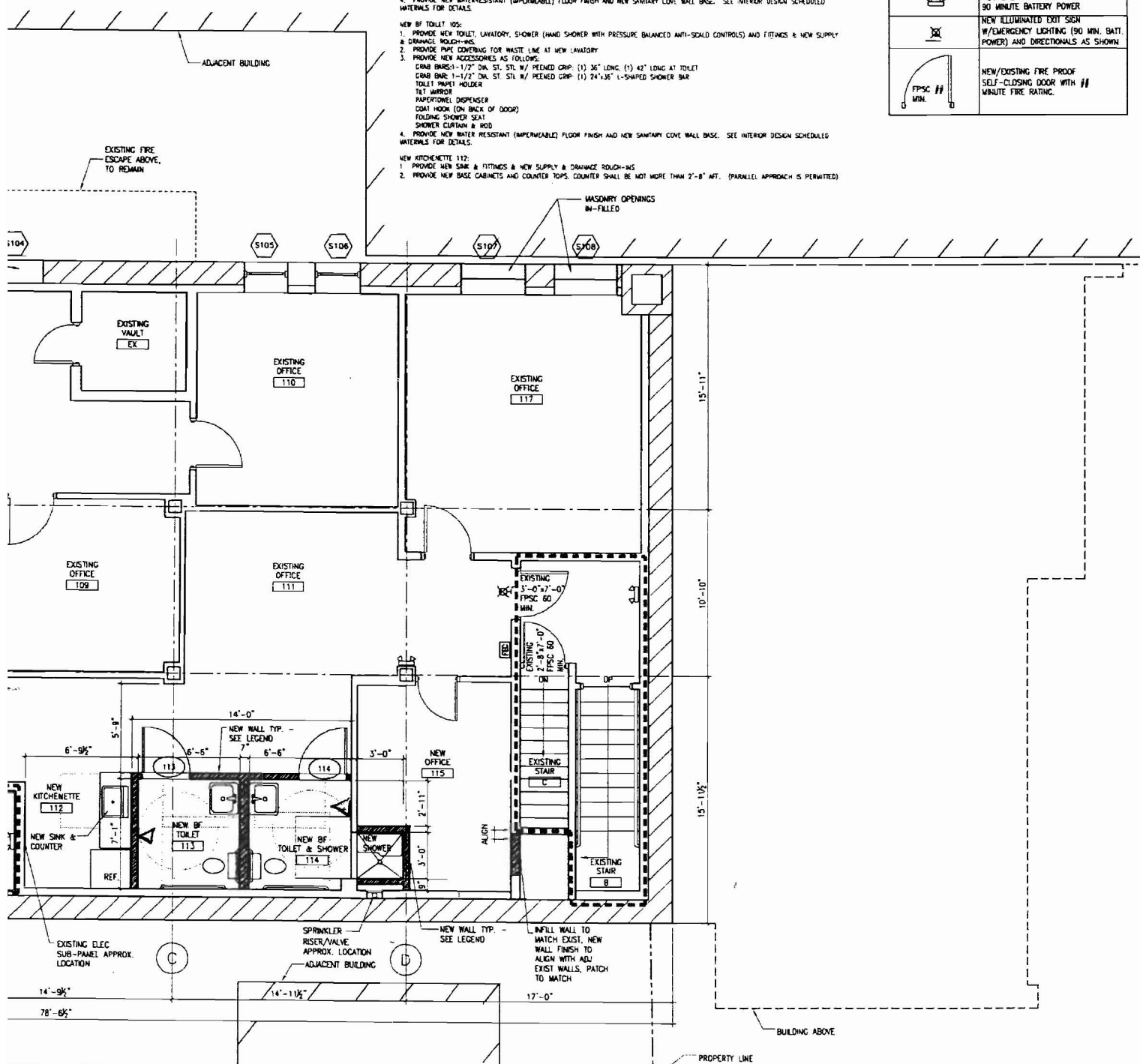
- NEW BF TOILETS ROOM 104:
 1. PROVIDE NEW TOILET, LAVATORY AND FITTINGS & NEW SUPPLY & DRAINAGE ROUGH-INS
 2. PROVIDE PIPE COVERING FOR WASTE LINE AT NEW LAVATORY
 3. PROVIDE NEW ACCESSORIES AS FOLLOWS:
 CRAB BAR: 1-1/2" DIA. ST. STL. W/ PEENED GRIP. (1) 36" LONG, (1) 42" LONG
 TOILET PAPER HOLDER
 TET WARRIOR
 PAPER/TOWEL DISPENSER
 COAT HOOK (ON BACK OF DOOR)

4. PROVIDE NEW WATER RESISTANT (IMPERMEABLE) FLOOR FINISH AND NEW SANITARY COVE WALL BASE. SEE INTERIOR DESIGN SCHEDULED MATERIALS FOR DETAILS.

- NEW BF TOILET 105:
 1. PROVIDE NEW TOILET, LAVATORY, SHOWER (HAND SHOWER WITH PRESSURE BALANCED ANTI-SOILD CONTROLS) AND FITTINGS & NEW SUPPLY & DRAINAGE ROUGH-INS
 2. PROVIDE PIPE COVERING FOR WASTE LINE AT NEW LAVATORY
 3. PROVIDE NEW ACCESSORIES AS FOLLOWS:
 CRAB BAR: 1-1/2" DIA. ST. STL. W/ PEENED GRIP. (1) 36" LONG, (1) 42" LONG AT TOILET
 CRAB BAR: 1-1/2" DIA. ST. STL. W/ PEENED GRIP. (1) 24" L-SHAPED SHOWER BAR
 TOILET PAPER HOLDER
 TET WARRIOR
 PAPER/TOWEL DISPENSER
 COAT HOOK (ON BACK OF DOOR)
 FOLDING SHOWER SEAT
 SHOWER CURTAIN & ROD
 4. PROVIDE NEW WATER RESISTANT (IMPERMEABLE) FLOOR FINISH AND NEW SANITARY COVE WALL BASE. SEE INTERIOR DESIGN SCHEDULED MATERIALS FOR DETAILS.

- NEW KITCHENETTE 112:
 1. PROVIDE NEW SINK & FITTINGS & NEW SUPPLY & DRAINAGE ROUGH-INS
 2. PROVIDE NEW BASE CABINETS AND COUNTER TOPS. COUNTER SHALL BE NOT MORE THAN 2'-8" AFT. (PARALLEL APPROACH IS PERMITTED)

	EXISTING MASONRY EXTERIOR WALL TO REMAIN
	EXISTING INTERIOR PARTITION
	NEW INTERIOR PARTITION, SEE NOTE
	NEW FIRE RATED PARTITION SMOKE & FIRE STOP ALL PENETRATIONS, SEE NOTES, DETAILS
	EXISTING FIRE RATED PARTITION (ASSUMED) G.C. SHALL CONFIRM AND SMOKE & FIRE STOP ALL PENETRATIONS. SEE NOTES FOR REQ'D F.R.
	NEW FIRE EXTINGUISHER CABINET
	NEW EMERGENCY LIGHT WITH 90 MINUTE BATTERY POWER
	NEW ILLUMINATED EXIT SIGN W/ EMERGENCY LIGHTING (90 MIN. BATT. POWER) AND DIRECTIONALS AS SHOWN
	NEW/EXISTING FIRE PROOF SELF-CLOSING DOOR WITH 90 MINUTE FIRE RATING.



ARCHITECTURE
 PRESERVATION
 DESIGN

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16 CASCO STREET
 PORTLAND, MAINE

12/17/07: City of Portland,
 Selective Demo Permit
 Application

1/14/08: SFM Review

3/6/08: Revised per SFM
 Comments

Title:

FIRST
 FLOOR PLAN

Project No: 200706

Date: MARCH 6, 2008

Revisions:

PERMITTING AND
 CONSTRUCTION
 Issued For:

Drawing No:

A1.2

DRAWING 9 of 14

FIRST FLOOR PLAN

1/4" = 1'-0"

NEW INTERIOR PARTITIONS:
 3/8" WTL STUDS (22GA) @ 16" O.C. W/ TOP & BOT RUNNERS, HECT: 6" ABV, FINISHED CLG W/ 1/2" CWB EACH SIDE.
 PROVIDE MOISTURE RESISTANT CWB @ TOILETS, SHOWERS & SINK LOCATIONS.

EXISTING STAIR A:
 1. EXISTING WOOD RAILING AND POSTS SHALL REMAIN, CLEAN AND RESECURE ANY LOOSE ATTACHMENTS, INSTALL NEW METAL HANDRAIL AND RAIL INFILL SCREEN, SEE DETAIL.

EXISTING STAIR B:
 1. EXISTING WOOD HANDRAILS SHALL REMAIN, RESET WHERE REQUIRED FOR TOP OF RAIL TO BE 3"-2" MAX. ABOVE TREAD HEIGHT, PROVIDE NEW MOUNTING BRACKETS TO REPLACE MISSING OR DAMAGED BRACKETS.

EXISTING STAIR B-1:
 1. REMOVE AND REPLACE EXISTING WOOD TREADS & RISERS.
 2. PROVIDE NEW WOOD TREADS AND RISERS.
 3. RESET OR REPLACE EXISTING METAL HANDRAILS EACH SIDE, TOP OF HANDRAIL SHALL BE 2"-8" MAX. - 3"-2" MAX. ABOVE TREAD HEIGHT.

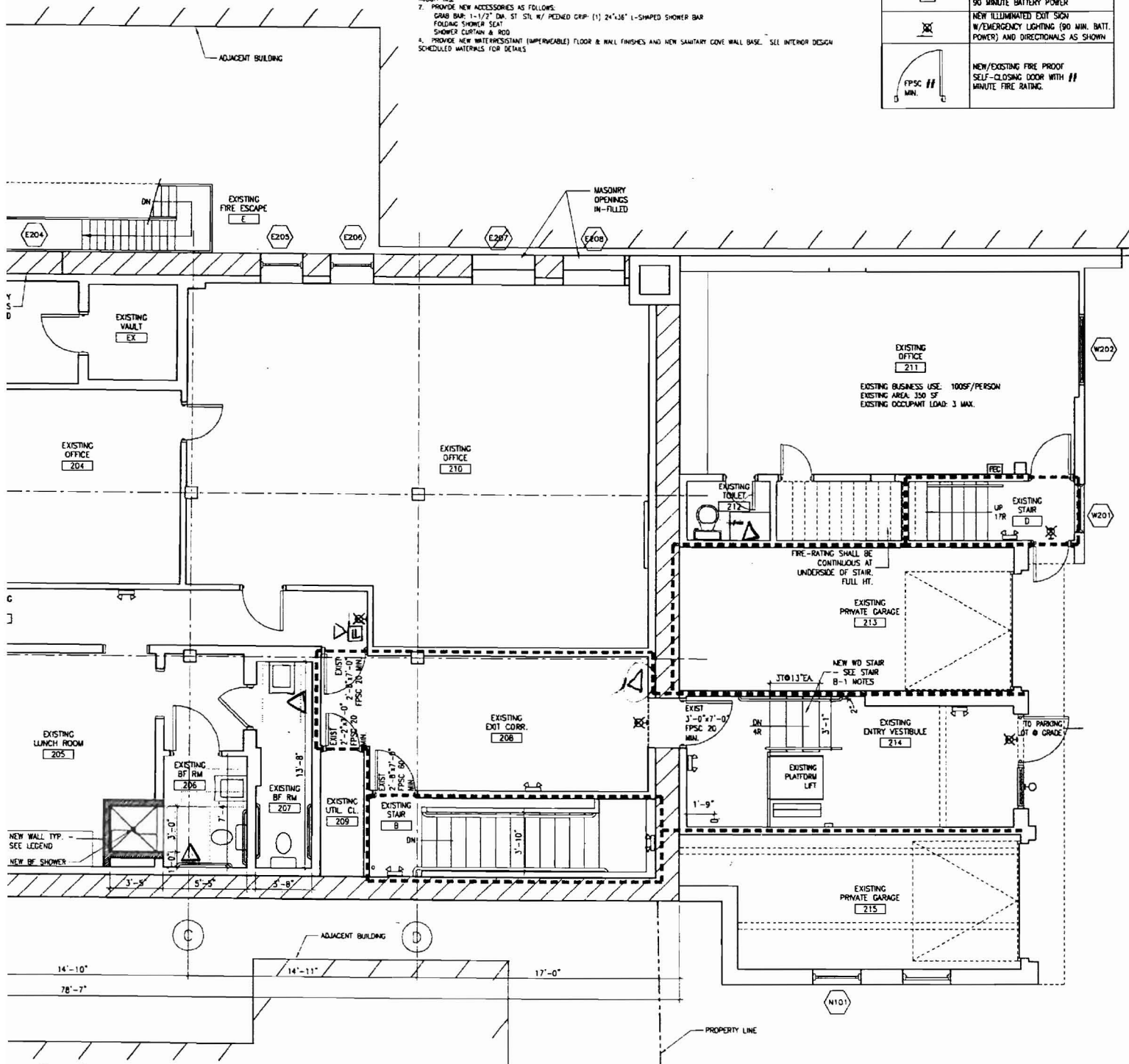
EXISTING STAIR D:
 1. SEE DETAILS FOR ALTERATION OF EXISTING UPPER STAIR RUN AND EXTERIOR ENCLOSURE.

TOILET ROOM NOTES:
 SEE DMC, CH.2 FOR MOUNTING HEIGHTS OF FIXTURES & ACCESSORIES.

EXISTING BF TOILET ROOM 208:
 1. PROVIDE SHOWER (HAND SHOWER WITH PRESSURE BALANCED ANTI-SCALD CONTROLS) AND FITTINGS & NEW SUPPLY & DRAINAGE ROUGH-INS.

2. PROVIDE NEW ACCESSORIES AS FOLLOWS:
 GRAB BAR: 1-1/2" DIA. ST. STL. W/ PEENED GRIP: (1) 24" LBS. L-SHAPED SHOWER BAR
 FOLDING SHOWER SEAT
 SHOWER CURTAIN & ROD
 4. PROVIDE NEW WATERRESISTANT (IMPERMEABLE) FLOOR & WALL FINISHES AND NEW SANITARY GOWN WALL BASE. SEE INTERIOR DESIGN SCHEDULED MATERIALS FOR DETAILS.

	EXISTING MASONRY EXTERIOR WALL TO REMAIN
	EXISTING INTERIOR PARTITION
	NEW INTERIOR PARTITION, SEE NOTE
	NEW FIRE RATED PARTITION SMOKE & FIRE STOP ALL PENETRATIONS, SEE NOTES, DETAILS
	EXISTING FIRE RATED PARTITION (ASSUMED), G.C. SHALL CONFIRM AND SMOKE & FIRE STOP ALL PENETRATIONS, SEE NOTES FOR REQ'D F.R.
	NEW FIRE EXTINGUISHER CABINET
	NEW EMERGENCY LIGHT WITH 90 MINUTE BATTERY POWER
	NEW ILLUMINATED EXIT SIGN W/ EMERGENCY LIGHTING (90 MIN. BATT. POWER) AND DIRECTIONALS AS SHOWN
	NEW/EXISTING FIRE PROOF SELF-CLOSING DOOR WITH // MINUTE FIRE RATING.



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12/17/07: City of Portland,
 Selective Demo Permit
 Application
 1/14/08: SFM Review
 3/6/08: Revised per SFM
 Comments

Title:
 SECOND
 FLOOR PLAN

Project No: 200706
 Date: MARCH 6, 2005
 Revisions:

ISSUED FOR:
 PERMITTING AND
 CONSTRUCTION

Drawing No:

A1.3

DRAWING 10 of 14

1 SECOND FLOOR PLAN
 1/4" = 1'-0"

NEW PARTITIONS:
 STL STUDS (2X6) @ 16" O.C. W/ TOP & BOT RUNNERS HEIGHT, 6" ABY. FINISHED CLG. W/ 1/2" CWB EACH
 MOISTURE RESISTANT CWB @ TOILETS, SHOWERS & SINK LOCATIONS.
 STAR A:
 RING ROOD RAILING AND POSTS SHALL REMAIN CLEAN AND RESECURE ANY LOOSE ATTACHMENTS. INSTALL NEW
 MORTAR AND RAIL INFILL SCREEN. SEE DETAIL.
 STAR D:
 DETAILS FOR ALTERATION OF EXISTING UPPER STAIR RUN AND EXTERIOR ENCLOSURE.
 DOOR NOTES:
 S1.2 FOR MOUNTING HEIGHTS OF FIXTURES & ACCESSORIES
 TOILET ROOM 307:
 1. PROVIDE NEW TOILET, LAVATORY AND FITTINGS & NEW SUPPLY & DRAINAGE ROUGH-INS.
 2. PROVIDE NEW ACCESSORIES AS FOLLOWS:
 A. GRAN. SINK: 1-1/2" DIA. ST. STL W/ PECEED GRP. (1) 36" LONG, (1) 42" LONG
 B. TOILET PAPER HOLDER
 C. TOWEL DISPENSER
 D. HOOK (ON BACK OF DOOR)
 E. NEW WATERRESISTANT (WATERPROOFABLE) FLOOR FINISH AND NEW SANITARY COVE WALL BASE. SEE INTERIOR
 SCHEDULED MATERIALS FOR DETAILS.

EXISTING OF TOILET ROOM 309:
 1. INSTALL NEW WALL HUNG 8-F LAVATORY AT EXISTING SINK LOCATION.
 2. PROVIDE NEW ACCESSORIES AS FOLLOWS:
 A. GRAN. SINK: 1-1/2" DIA. ST. STL W/ PECEED GRP. (1) 36" LONG, (1) 42" LONG AT TOILET
 B. TOILET PAPER HOLDER
 C. TOWEL DISPENSER
 D. HOOK (ON BACK OF DOOR)
 NEW KITCHENETTE 319:
 1. PROVIDE NEW SINK & FITTINGS & NEW SUPPLY & DRAINAGE ROUGH-INS.
 2. PROVIDE NEW BASE CABINETS AND COUNTER TOPS. COUNTER SHALL BE NOT MORE THAN 2'-0" AFF.
 (PARALLEL APPROACH IS PERMITTED)

	EXISTING MASONRY EXTERIOR WALL TO REMAIN
	EXISTING INTERIOR PARTITION
	NEW INTERIOR PARTITION, SEE NOTE
	NEW FIRE RATED PARTITION SMOKE & FIRE STOP ALL PENETRATIONS. SEE NOTES, DETAILS.
	EXISTING FIRE RATED PARTITION (ASSUMED) G.C. SHALL CONFIRM AND SMOKE & FIRE STOP ALL PENETRATIONS. SEE NOTES FOR RED'D F.R.
	NEW FIRE EXTINGUISHER CABINET
	NEW EMERGENCY LIGHT WITH 90 W/HRATE BATTERY POWER
	NEW ELIMINATED EXIT SIGN W/EMERGENCY LIGHTING (90 MIN. BATT. POWER), AND DIRECTIONALS AS SHOWN
	NEW/EXISTING FIRE PROOF SELF-CLOSING DOOR WITH MINUTE FIRE RATINGS.

ARCHITECTURE
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 PORTLAND, MAINE

12/17/07: City of Portland,
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 1/14/08: SFM Review
 3/6/08: Revised per SFM
 Comments

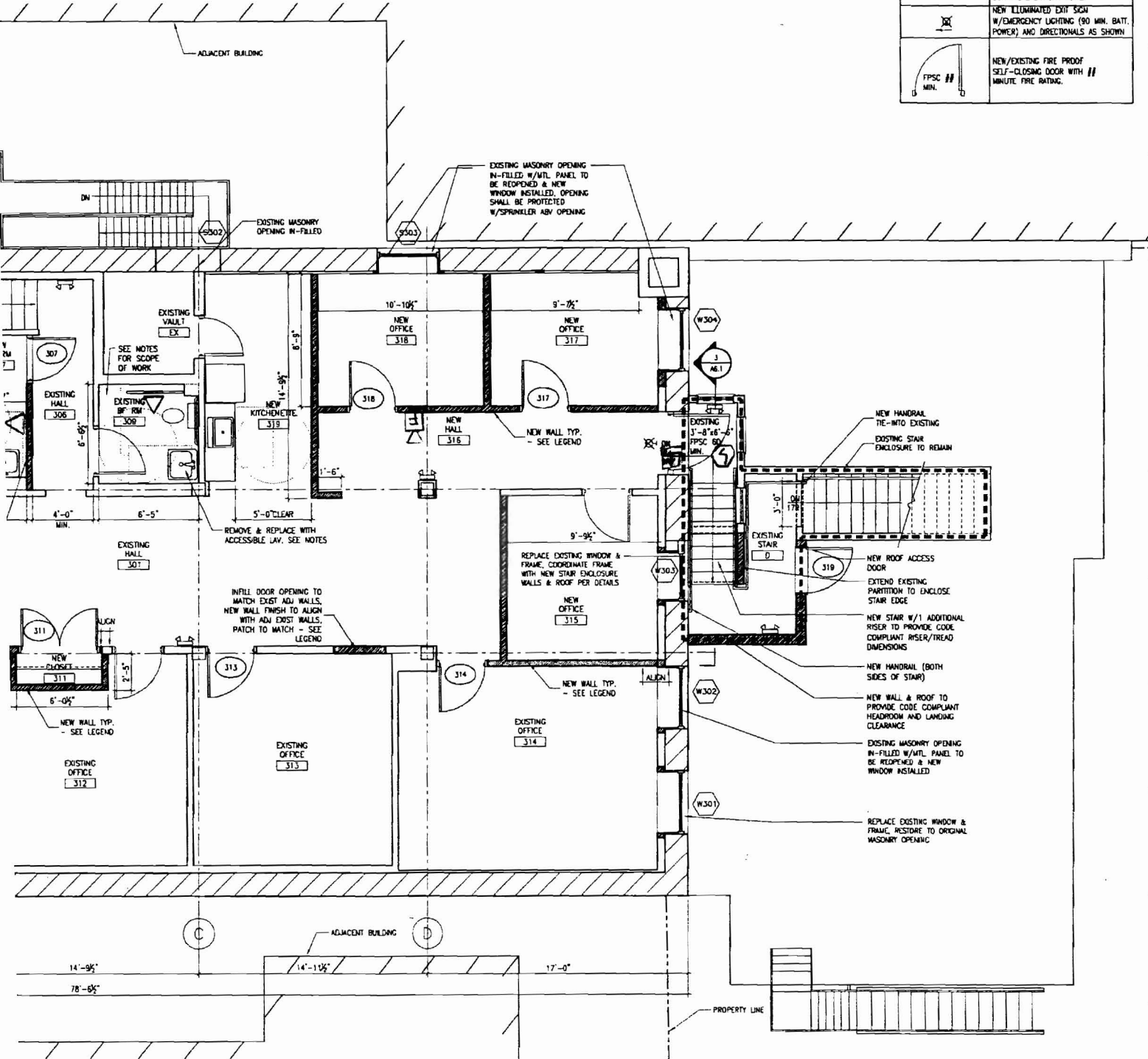
Title:
 THIRD
 FLOOR PLAN

Project No: 200706
 Date: MARCH 6, 2005
 Revisions:


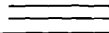
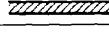


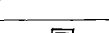
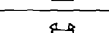
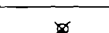
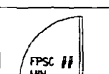
PERMITTING AND
 CONSTRUCTION
 Issued For:

Drawing No:

A1.4
 DRAWING 11 of 14



1 THIRD FLOOR PLAN
 1/4" = 1'-0"

	EXISTING MASONRY EXTERIOR WALL TO REMAIN
	EXISTING INTERIOR PARTITION
	NEW INTERIOR PARTITION, SEE NOTE
	NEW FIRE RATED PARTITION SMOKE & FIRE STOP ALL PENETRATIONS, SEE NOTES, DETAILS
	EXISTING FIRE RATED PARTITION (ASSUMED) G.C. SHALL CONFIRM AND SMOKE & FIRE STOP ALL PENETRATIONS. SEE NOTES FOR REQ'D F.R.
	NEW FIRE EXTINGUISHER CABINET
	NEW EMERGENCY LIGHT WITH 90 MINUTE BATTERY POWER
	NEW ILLUMINATED EXIT SIGN W/EMERGENCY LIGHTING (90 MIN. BATT. POWER) AND DIRECTIONALS AS SHOWN
	NEW/EXISTING FIRE PROOF SELF-CLOSING DOOR WITH 90 MINUTE FIRE RATING.

ARCHITECTURE
PRESERVATION
DESIGN

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16 CASCO STREET
PORTLAND, MAINE

12/17/07: City of Portland,
Selective Demo Permit
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1/14/08: SFM Review

3/6/08: Revised per SFM
Comments

Title:

ROOF PLAN

Project No: 200706

Date: MARCH 6, 2008

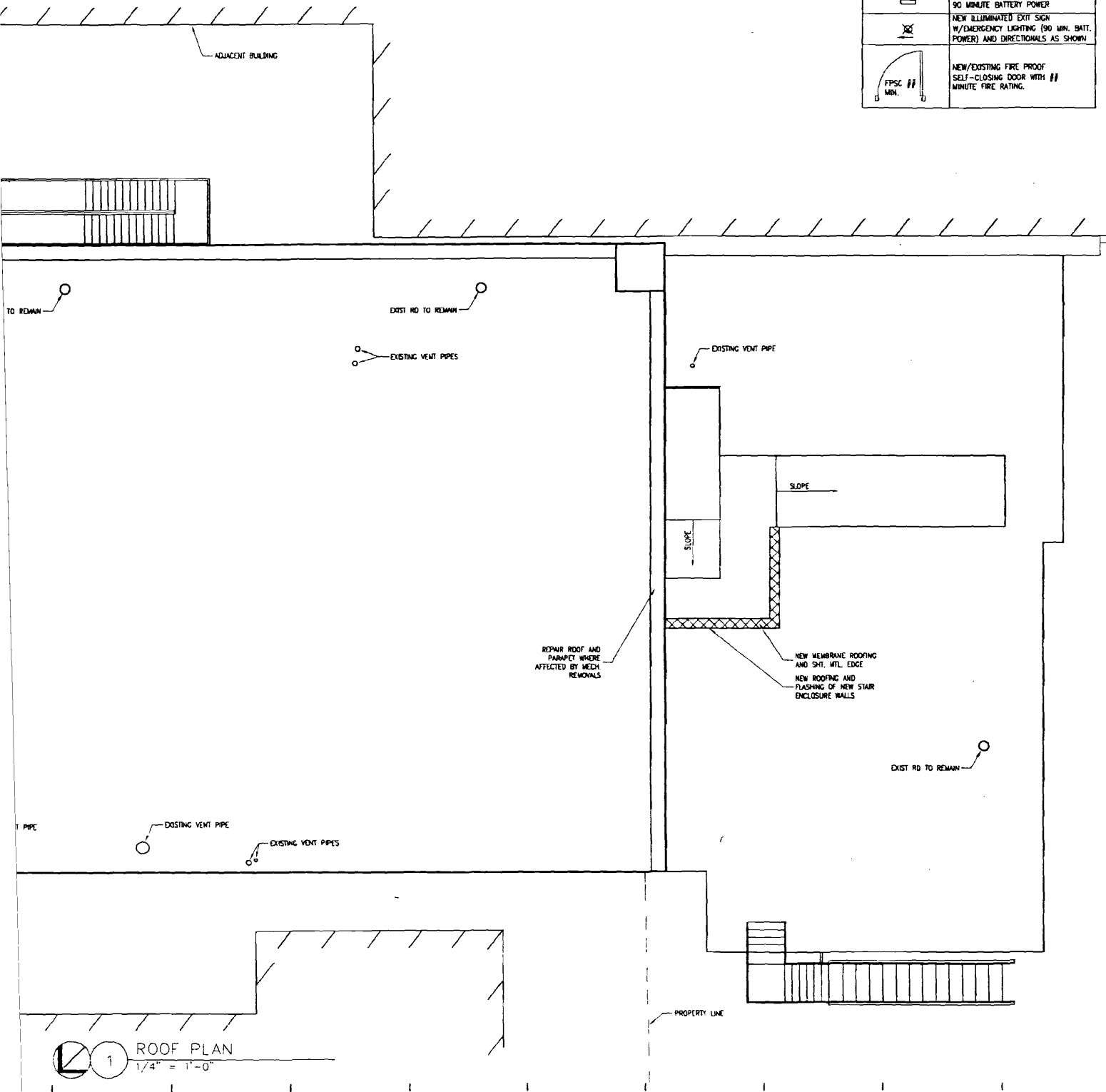
Revisions:

PERMITTING AND
Issued For: CONSTRUCTION

Drawing No.

A1.5

DRAWING 12 of 14



1 ROOF PLAN
1/4" = 1'-0"