

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK  
**CITY OF PORTLAND**

Please Read  
Application And  
Notes, If Any,  
Attached

BUILDING DEPARTMENT

**PERMIT**

**PERMIT ISSUED**

Permit Number: 100730

This is to certify that 128 PARK AVENUE LLC/No. Inc. AUG 19

has permission to Install a Fire Alarm

AT 128 PARK AVE CE 048 A007001 City of Portland

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

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

Notification of inspection must be given and written permission procured before this building or part thereof is lathed or otherwise red-in. 24 HOURS NOTICE IS REQUIRED.

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

**OTHER REQUIRED APPROVALS**

Fire Dept. BFA 202

Health Dept. \_\_\_\_\_

Appeal Board \_\_\_\_\_

Other \_\_\_\_\_

Department Name

Director - Building & Inspection Services

**PENALTY FOR REMOVING THIS CARD**

**CITY OF PORTLAND, MAINE**  
Department of Building Inspections



**Original Receipt**

8.2.10

Received from: Morris  
Location of Work: 102 Paul Ave

Cost of Construction: \$ \_\_\_\_\_  
Building Fee: \$ \_\_\_\_\_  
Permit Fee: \$ \_\_\_\_\_  
Site Fee: \$ \_\_\_\_\_

Certificate of Occupancy Fee: \_\_\_\_\_  
Total: \$ 55

Building (1L) \_\_\_\_\_  
Plumbing (1S) \_\_\_\_\_  
Electrical (22) \_\_\_\_\_  
Site Plan (12) \_\_\_\_\_

Other: \_\_\_\_\_  
CBL: 48-A-7

Check #: \_\_\_\_\_  
Total Collected: \$ 55

No work is to be started until permit issued.  
Please keep original receipt for your records.

Taken by: J. M.

WHITE - Applicant's Copy  
YELLOW - Office Copy  
PINK - Permit Copy



**CITY OF PORTLAND, MAINE**  
**Department of Building Inspections**

**Original Receipt**

8.2. 20 10

Received from Morris

Location of Work 128 Ave Park

Cost of Construction \$ \_\_\_\_\_ Building Fee: \_\_\_\_\_

Permit Fee \$ \_\_\_\_\_ Site Fee: \_\_\_\_\_

Certificate of Occupancy Fee: \_\_\_\_\_

Total: 80

Building (12)  Plumbing (15)  Electrical (12)  Site Plan (12)

Other Fire Alarm

CBL: 98-A-7

Check #: CC Total Collected: 80

**No work is to be started until permit issued.  
 Please keep original receipt for your records.**

Taken by: S. J.

WHITE - Applicant's Copy  
 YELLOW - Office Copy  
 PINK - Permit Copy

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

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

Permit No: 10-0936	Issue Date:	CBL: 048 A007001
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Location of Construction: 128 PARK AVE	Owner Name: 128 PARK AVENUE LLC	Owner Address: PO BOX 7225	Phone:
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: R-6

Past Use: Multi-unit	Proposed Use: Multi-unit - Install a Fire Alarm	Permit Fee: \$80.00	Cost of Work: \$5,771.00	CEO District: 2
Proposed Project Description: Install a Fire Alarm  <i>Legal Use: 20 residential D.U.</i>		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <i>w/conditions</i> 8/18/10 Signature: <i>[Signature]</i>		INSPECTION: Use Group: <i>Alarm</i> Type: <i>NFPA / JBC</i> Signature: <i>[Signature]</i>
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature: _____ Date: _____		

Permit Taken By: Idobson	Date Applied For: 08/02/2010	<b>Zoning Approval</b>
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- This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
- Building permits do not include plumbing, septic or electrical work.
- 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..

<b>Special Zone or Reviews</b> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>8/9/10</i>	<b>Zoning Appeal</b> <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	<b>Historic Preservation</b> <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 Date: <i>[Signature]</i>
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**PERMIT ISSUED**

AUG 19 2010

City of Portland

**CERTIFICATION**

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

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

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

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

Permit No: 10-0936	Date Applied For: 08/02/2010	CBL: 048 A007001
-----------------------	---------------------------------	---------------------

<b>Location of Construction:</b> 128 PARK AVE	<b>Owner Name:</b> 128 PARK AVENUE LLC	<b>Owner Address:</b> PO BOX 7225	<b>Phone:</b>
<b>Business Name:</b>	<b>Contractor Name:</b> Norris, Inc.	<b>Contractor Address:</b> 2257 W Broadway, PO Box 2551 Sout	<b>Phone</b> (207) 883-3473
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> Fire Alarm System	

<b>Proposed Use:</b> Multi-unit - Install a Fire Alarm	<b>Proposed Project Description:</b> Install a Fire Alarm
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**Dept:** Zoning      **Status:** Approved with Conditions      **Reviewer:** Marge Schmuckal      **Approval Date:** 08/09/2010

**Note:** **Ok to Issue:** ✓

- 1) 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.
- 2) This property shall remain a twenty residential unit building. Any change of use shall require a separate permit application for review and approval.

**Dept:** Building      **Status:** Approved with Conditions      **Reviewer:** Tammy Munson      **Approval Date:** 08/19/2010

**Note:** **Ok to Issue:** ✓

- 1) Fire Alarm systems shall be installed per Sec. 907 of the IBC 2003

**Dept:** Fire      **Status:** Approved with Conditions      **Reviewer:** Ben Wallace Jr.      **Approval Date:** 08/18/2010

**Note:** **Ok to Issue:** ✓

- 1) Fire alarm system requires an AES radio master box connection per city ordinance. AES radio box must be installed by an AES approved installer. Master box application is attached and must be completed and submitted to Fire Prevention Bureau prior to installation. Masterbox design and installation shall be as approved by City Electrical Division.
- 2) 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.
- 3) Installation of a Fire Alarm system requires a Knox Box to be installed per city ordinance
- 4) Central Station monitoring for addressable fire alarm systems shall be by point.
- 5) As-built documents shall be submitted in pdf to the Building Inspections Office upon completion of job.
- 6) System acceptance and commissioning must be co-ordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.
- 7) All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FACP labeled "FIRE ALARM RECORDS". Records cabinet, FACP, annunciator(s), and pull stations shall be keyed alike.

**PERMIT ISSUED**

AUG 19 2010

City of Portland

## **BUILDING PERMIT INSPECTION PROCEDURES**

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

**or email: [buildinginspections@portlandmaine.gov](mailto: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 Inspection 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 with construction.**

  X   **Final inspection required at completion of work performed by the Fire Department.**

**The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OR 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.**

**PERMIT ISSUED**

AUG 19 2010

City of Portland



# 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.

Installation address: 128 PARK AVE CBL: 48-A-7

Exact location: (within structure) ALL

Type of occupancy(s) (NFPA & ICC): APARTMENT BLDG - 20 UNIT

Building owner: 126-128 PARK AVENUE LLC

System Designer (point of contact): DAVE GAGNON, NORRIS, INC.

Designer phone: (207) 883-3473 E-mail: dave.g@norrisinc.com

Installing contractor: NORRIS INC Certificate of Fitness No: 1008

Contractor phone: (207) 883-3473 E-mail: dave.g@norrisinc.com

This is a new application: YES  NO

This is an amendment to an existing permit: YES  NO  Permit no: \_\_\_\_\_

**The following documents shall be provided with this application:**

- Floor plans
- Wiring diagram
- Annunciator details
- Equipment data sheets
- Battery & voltage drop calculations
- Input/ Output Matrix
- Designer qualifications
- Electrical Permit Pulled (check alarm/com)

COST OF WORK: 5775.00

PERMIT FEE: 80  
(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)

RECEIVED

AUG 2 2010

The designer shall be the responsible party for this application. Download a new copy of this application at [www.portlandmaine.gov/fire](http://www.portlandmaine.gov/fire) for every submittal. Submit all plans in electronic PDF in addition to full size plans 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](http://www.portlandmaine.gov/fire).

Applicant signature: [Signature] Date: 8/2/10

# ELECTRICAL PERMIT

## City of Portland, Me.



To the Chief Electrical Inspector, Portland Maine:  
 The undersigned hereby applies for a permit to make electrical installations  
 in accordance with the laws of Maine, the City of Portland Electrical Ordinance,  
 National Electrical Code and the following specifications:

Date \_\_\_\_\_  
 Permit # 2010-4513  
 CBL# 98-A-7

LOCATION: 128 PARK AVE METER MAKE & # \_\_\_\_\_  
 CMP ACCOUNT # \_\_\_\_\_ OWNER 126-128 PARK AVENUE LLC  
 TENANT APARTMENTS PHONE # 772-6579 (LH SAWYER REALTY)

						TOTAL EACH FEE
<b>OUTLETS</b>		Receptacles		Switches		Smoke Detector .20
<b>FIXTURES</b>		Incandescent		Fluorescent		Strips .20
<b>SERVICES</b>		Overhead		Underground		TTL AMPS <800 15.00
		Overhead		Underground		>800 25.00
<b>Temporary Service</b>		Overhead		Underground		TTL AMPS 25.00
						25.00
<b>METERS</b>		(number of)				1.00
<b>MOTORS</b>		(number of)				2.00
<b>RESID/COM</b>		Electric units				1.00
<b>HEATING</b>		oil/gas units		Interior		Exterior 5.00
<b>APPLIANCES</b>		Ranges		Cook Tops		Wall Ovens 2.00
		Insta-Hot		Water heaters		Fans 2.00
		Dryers		Disposals		Dishwasher 2.00
		Compactors		Spa		Washing Machine 2.00
		Others (denote)				2.00
<b>MISC. (number of)</b>		Air Cond/win				3.00
		Air Cond/cent				Pools 10.00
		HVAC		EMS		Thermostat 5.00
		Signs				10.00
		Alarms/res				5.00
<b>FIRE ALARM</b> ✓		Alarms/com				15.00
		Heavy Duty(CRKT)				2.00
		Circus/Carnv				25.00
		Alterations				5.00
		Fire Repairs				15.00
		E Lights				1.00
		E Generators				20.00
<b>PANELS</b>		Service		Remote Dept		4.00
<b>TRANSFORMER</b>		0-25 Kva				5.00
		25-200 Kva				8.00
		Over 200 Kva				10.00
<b>TOTAL AMOUNT DUE</b>						
<b>MINIMUM FEE/COMMERCIAL 55.00</b>						<b>MINIMUM FEE 45.00</b>

RECEIVED

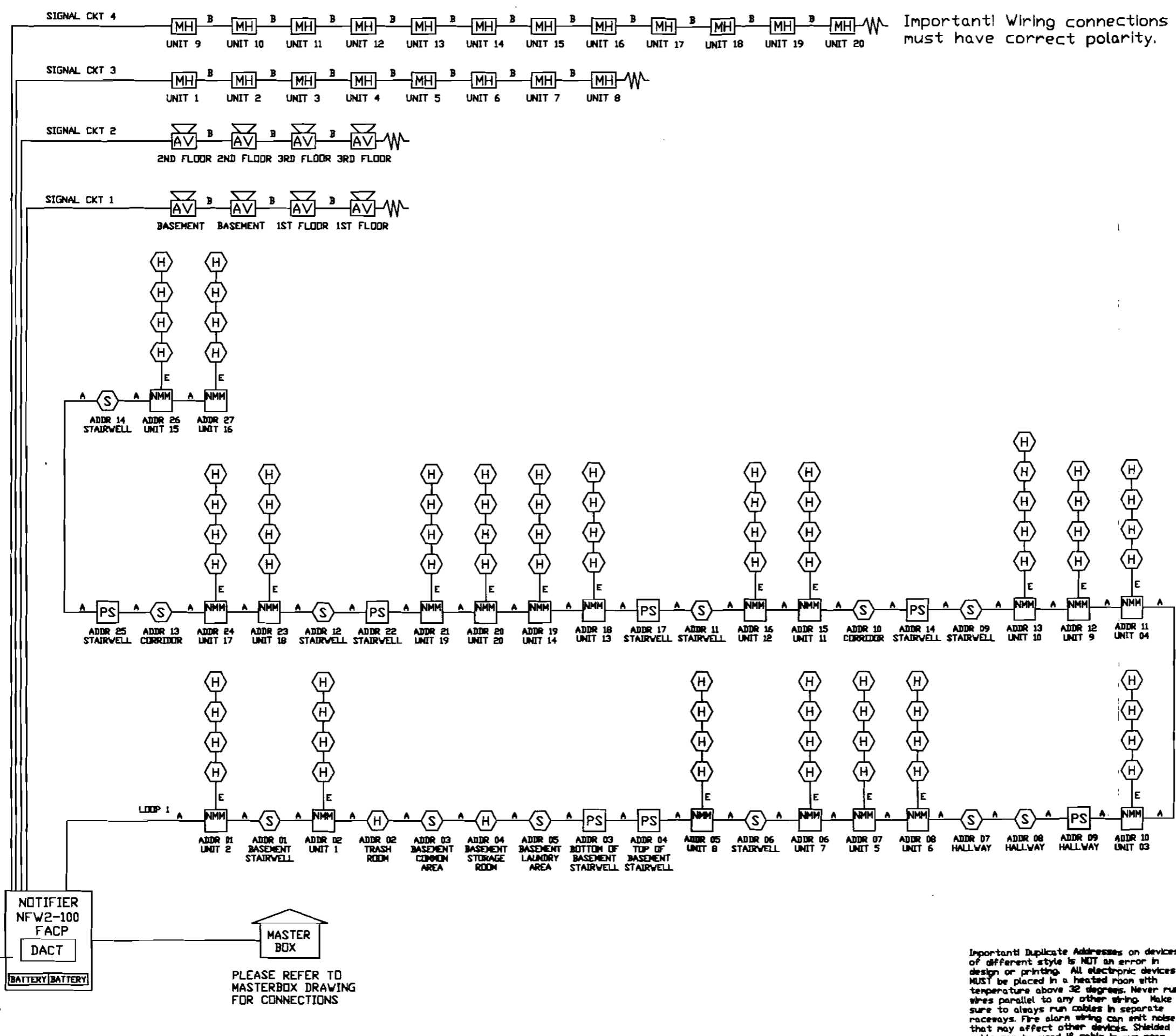
AUG 2 2010

Remote Dept of Building Inspections  
City of Portland Maine

CONTRACTORS NAME NORRIS, INC MASTER LIC. # MC 60018908  
 ADDRESS 2257 WEST BROADWAY, S. PORTLAND ME LIMITED LIC. # \_\_\_\_\_  
 TELEPHONE (207) 883-2473 04106

SIGNATURE OF CONTRACTOR [Signature]





Important! Wiring connections must have correct polarity.

LEGEND

MOUNTING HEIGHT	PS	PULL STATION
48 INCHES	S	SMOKE DETECTOR
	R	HEAT DETECTOR RATE OF RISE
	F	HEAT DETECTOR FIXED TEMP
	RT	REMOTE TEST/INDICATOR
	DS	DUCT SMOKE DETECTOR <small>Note: Remove J1 Jumper</small>
80 INCHES	VD	VISUAL ONLY
	MH	MINI HORN
80 INCHES	AV	AUDIO / VISUAL
	NZM 100	ZONE MODULE
	NC-100	CONTROL MODULE
	NMM	MONITOR MODULE 100=4 SQUARE, 100p=mini-mod
	NC 100r	RELAY MODULE
	STS	SPRINKLER TAMPER
	SFS	SPRINKLER FLOW

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 2.5 amp load limitation and a combined load limitation of 3.0 amps or 6.0 amps if XRM-24 is added to the panel. There can be 4 class B nac circuits or 2 class A nac circuits. REMOTE power supply has a 3.0 amp 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

- A 1 PR #12 AVG TWISTED-PAIR UNSHIELDED CABLE FPL GENESIS 4515, BELDEN 6020UL (Up to 10,000 Ft)
- A 1 PR #14 AVG TWISTED-PAIR UNSHIELDED CABLE FPL GENESIS 4513, BELDEN 6120UL (Up to 8,000 Ft)
- A 1 PR #16 AVG TWISTED-PAIR UNSHIELDED CABLE FPL GENESIS 4511, BELDEN 6220LL (Up to 4,500 Ft)
- B 1 PR #12 AVG FPL CABLE
- D 1 PR #14 AVG FPL CABLE
- E 1 PR #16 AVG FPL CABLE
- F 2c #12 AVG CABLE
- G 2c #14 AVG CABLE
- H 1 PR #16 AVG TWISTED-PAIR SHIELDED CABLE FPL
- J 1 CAT5 CABLE

REVISION	DATE:
REVISION	DATE:
REVISION	DATE: 7/30/10

SYSTEM WIRING RISER

PROJECT NAME <b>128 PARK AVE</b> PORTLAND, MAINE	SCALE NTS BY: <b>CJC</b> CK BY:
<b>NORRIS INC</b> <small>Prepared For Tomorrow, Delivered Today</small>	
SAVED AS:	

Important! Duplicate Addresses on devices of different style is NOT an error in design or printing. 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 affect other devices. Shielded cable can be used if cable is run near sensitive equipment.

PLEASE REFER TO MASTERBOX DRAWING FOR CONNECTIONS

# NOTES:

1) 4" Square deep grounded box for antenna line surge suppresser. Mount within 6' of the Radio Box enclosure.

2) AES part #13-0345-6 6' RG-8 cable assembly with N male connectors both ends to connect surge suppresser to the Radio Box enclosure. AES part #13-0346 18" RG-58 cable assembly to connect transceiver to enclosure.

3) Coaxial cable run from surge suppresser to roof mounted Antenna. Keep length of run as short as possible. RG-58 up to 25' -omit part #13-0346 and mount surge suppresser within 6' of antenna

RG-8 up to 75'  
LMR-400 up to 125'

2+3 above must be run in rigid or non-metallic conduit.

4) NC-100R number 1 -trip relay which triggers an alarm on zone 1 of the radio box.

5) NC-100R number 2 -Disconnect relay which bypasses zone 1 on the Radio box. Use 2nd set of contacts on NC-100R to trigger Zone 2 into alarm to indicate box in disconnect

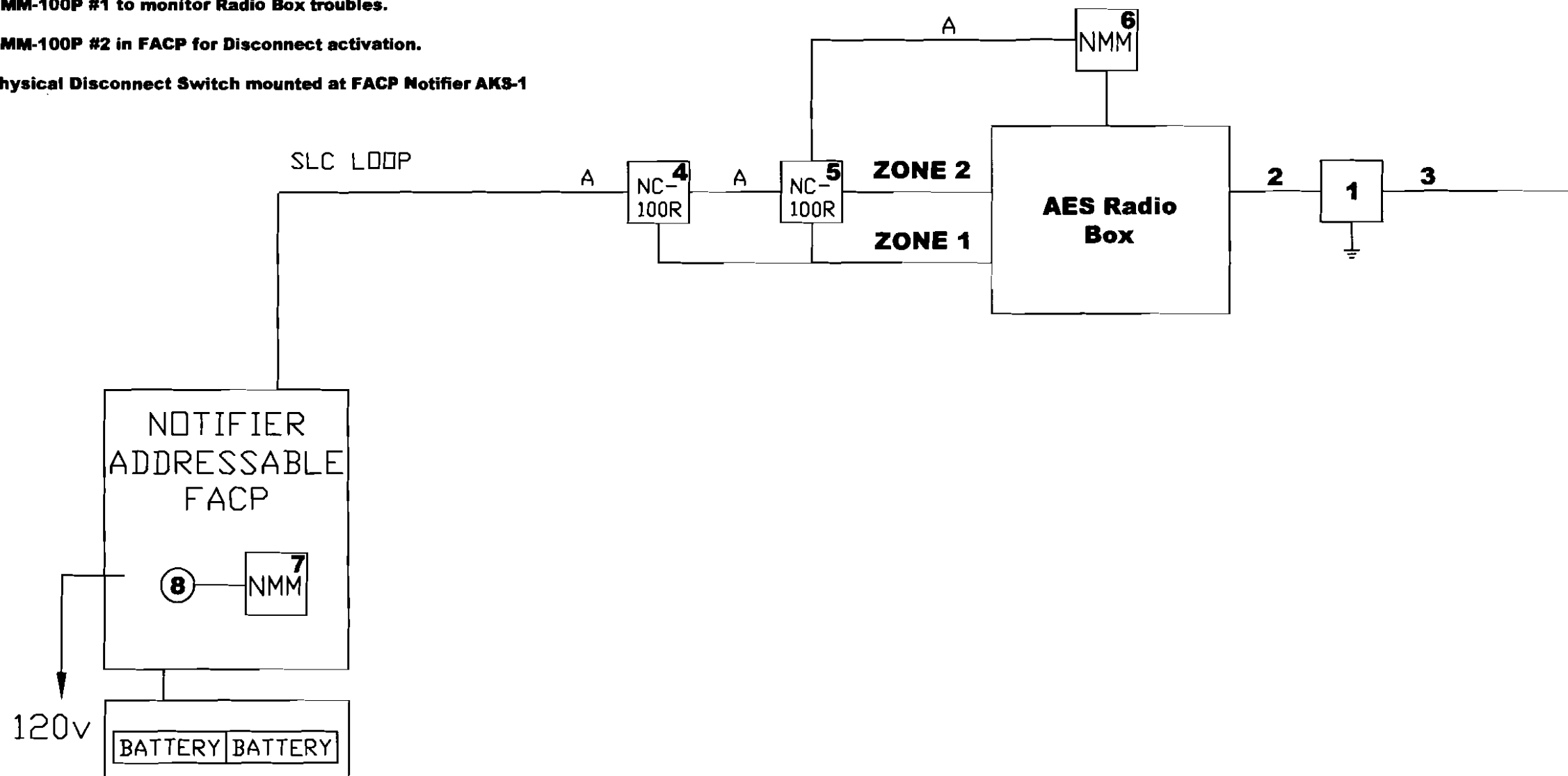
6) NMM-100P #1 to monitor Radio Box troubles.

7) NMM-100P #2 in FACP for Disconnect activation.

8) Physical Disconnect Switch mounted at FACP Notifier AKS-1

Important! Wiring connections must have correct polarity.

ROOF MOUNTED ANTENNA



## LEGEND

MOUNTING HEIGHT	Symbol	Description
48 INCHES	PS	PULL STATION
	S	SMOKE DETECTOR
	R	HEAT DETECTOR RATE OF RISE
	F	HEAT DETECTOR FIXED TEMP
	RT	REMOTE TEST/INDICATOR
	DS	DUCT SMOKE DETECTOR <small>Note: Remove J1 Jumper</small>
80 INCHES	VD	VISUAL ONLY
80 INCHES	AV	AUDIO / VISUAL
	DSM	DUAL SYNC MODULE
	ISD	ISOLATION MODULE
	NMM	MONITOR MODULE
	NC-100R	RELAY MODULE
	STS	SPRINKLER TAMPER
	SFS	SPRINKLER FLOW

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Room Size	Candle 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 AVG TWISTED PAIR CABLE (Up to 10,000 ft)
A	1 PR #14 AVG TWISTED PAIR CABLE (Up to 8,000 ft)
A	1 PR #16 AVG TWISTED PAIR CABLE (Up to 4,500 ft)
B	1 PR #12 AVG FPL CABLE
D	1 PR #14 AVG FPL CABLE
E	1 PR #16 AVG FPL CABLE
F	2c #12 AVG CABLE
G	2c #14 AVG CABLE
H	2c #16 AVG CABLE
K	1 CAT5 CABLE
L	1 PR #16 AVG TWISTED SHIELDED CABLE

REVISION 2	DATE:
REVISION 1	DATE:
REVISION 0 SUBMITTAL	DATE: 3/23/10

### SYSTEM WIRING RISER

PROJECT NAME	SCALE NTS
<b>AES Masterbox</b>	BY: <b>KAD</b>
Portland, MAINE	CK BY:
<b>NORRIS INC</b>	SAVED AS:
Prepared For: <b>XXXXXXXXXX</b> Submitted Today	
2257 BROADWAY, So PORTLAND, MAINE	

Important! Duplicate Addresses on devices of different style is NOT an error in design or printing. All electronic devices MUST be placed in a heated room with temperature above 32 degrees

SYSTEM INPUTS

1	MANUAL FIRE ALARM PULL STATION
2	AREA SMOKE DETECTOR
3	AREA HEAT DETECTOR
4	FIRE ALARM AC POWER FAILURE
5	FIRE ALARM SYSTEM LOW BATTERY
6	OPEN CIRCUIT
7	GROUND FAULT
8	NOTIFICATION APPLIANCE CIRCUIT SHORT
9	BYPASS KEY SWITCH ACTIVATION
10	


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 2.5 amp load limitation and a combined load limitation of 3.0 amps or 6.0 amps IF XRM-24 is added to the panel. There can be 4 class B nac circuits or 2 class A nac circuits. REMOTE power supply has a 3.0 amp limitation per circuit and an 8.0 amp combined limitation for all 4 circuits. (see chart below for current vs. candela rating)

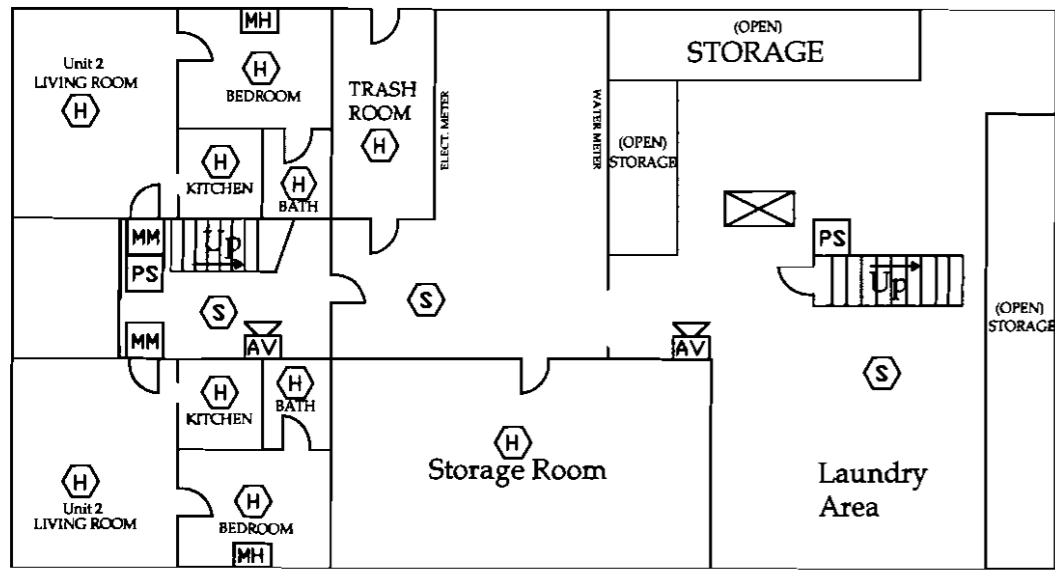
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- B 1 PR #12 AVG FPL CABLE
- D 1 PR #14 AVG FPL CABLE
- E 1 PR #16 AVG FPL CABLE
- F 2c #12 AVG CABLE
- G 2c #14 AVG CABLE
- H 1 PR #16 AVG TWISTED-PAIR SHIELDED CABLE FPL
- J 1 CAT5 CABLE

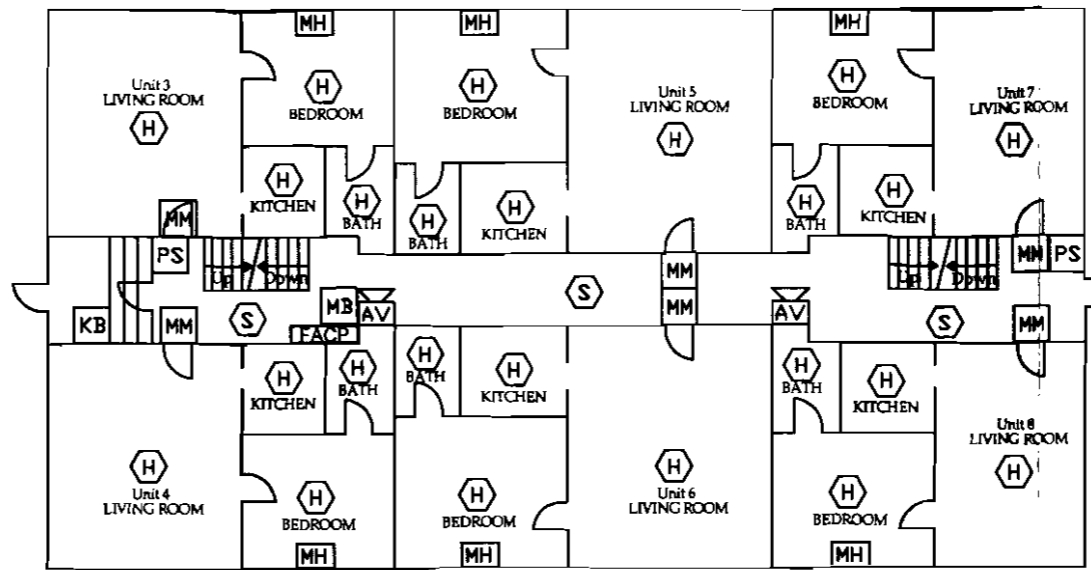
REVISION 2	DATE:
REVISION 1	DATE:
REVISION 0 None	DATE: 7/30/10

SYSTEM WIRING RISER

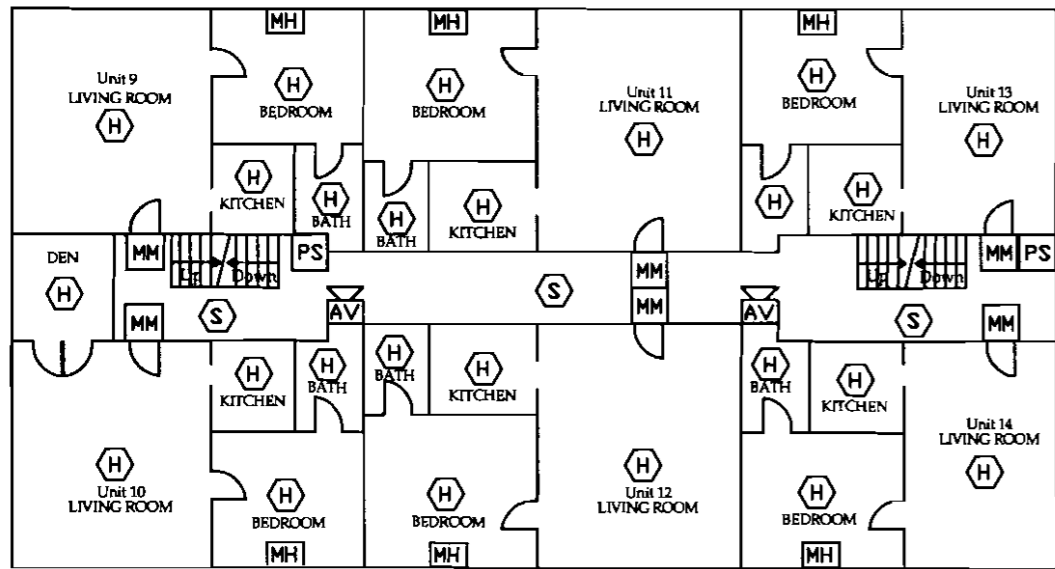
PROJECT NAME <b>128 Park Ave.</b> Portland, MAINE	SCALE NTS BY: <b>EAD</b> CK BY:
 <b>NORRIS INC</b> Prepared For Tomorrow, Delivered Today	SAVED AS:



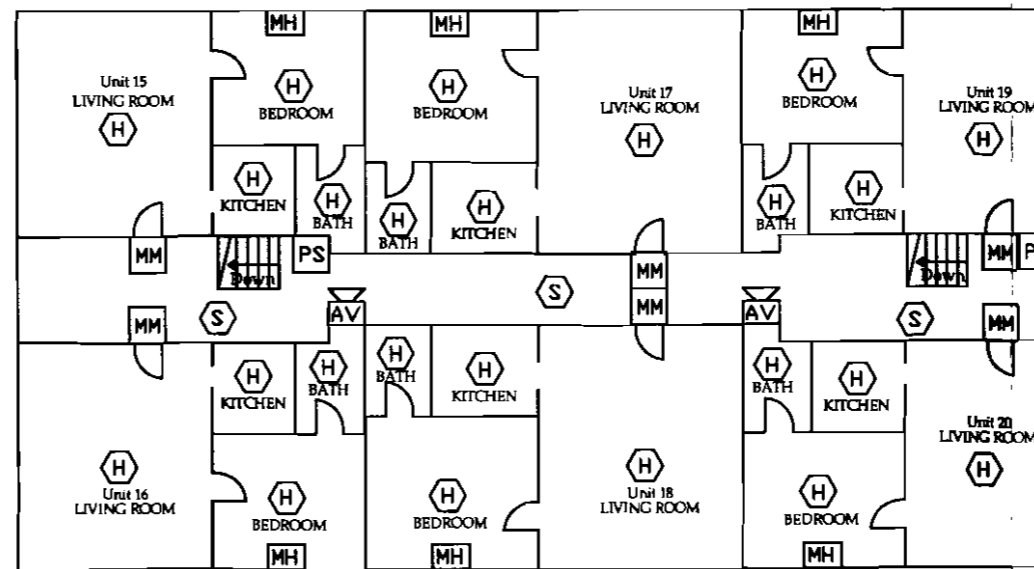
BASEMENT



1ST FLOOR



2ND FLOOR



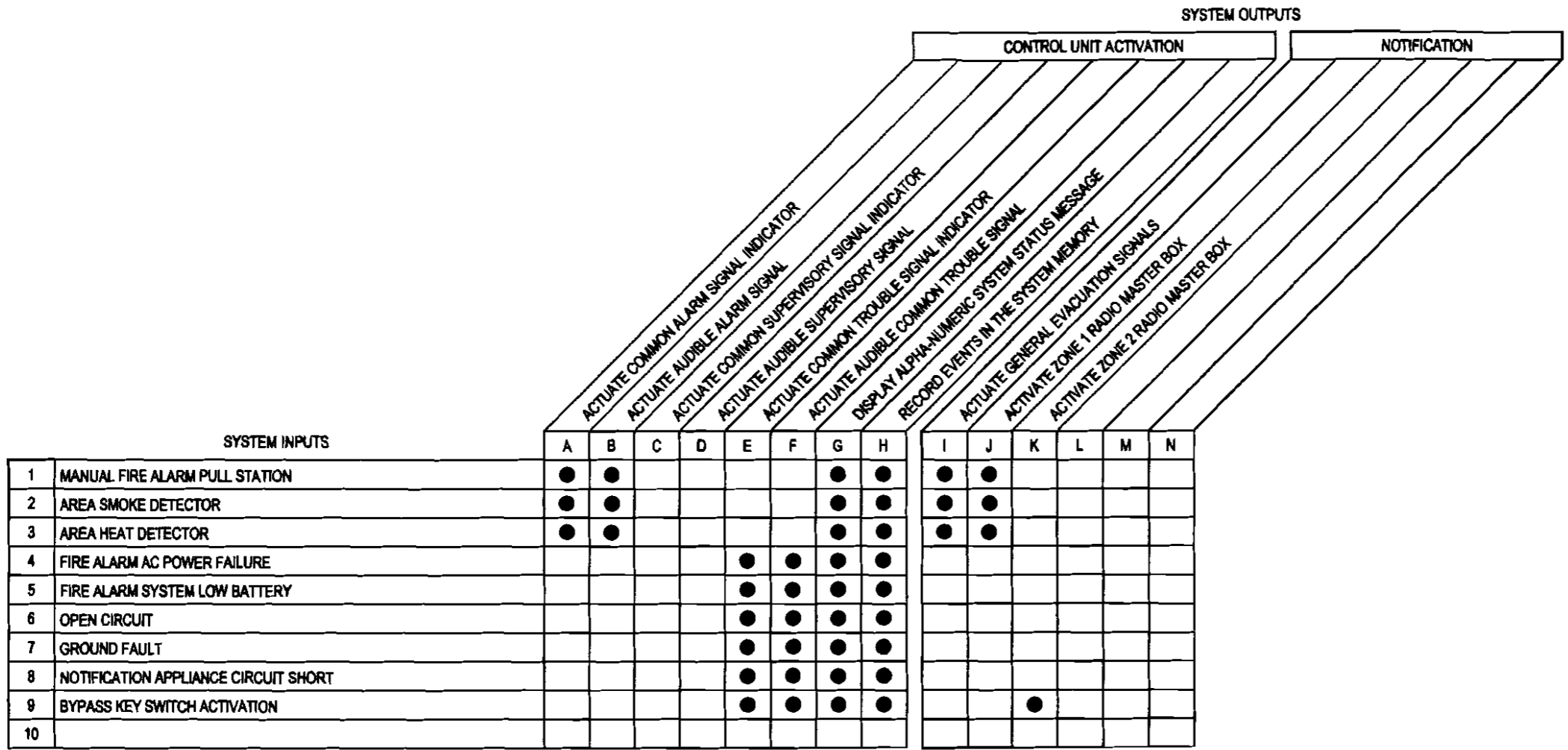
3RD FLOOR

LEGEND

- MOUNTING HEIGHT
- 48 INCHES
    - PS PULL STATION
    - S SMOKE DETECTOR
    - H HEAT DETECTOR
  - 80 INCHES
    - VD VISUAL ONLY
    - AV AUDIO / VISUAL
    - MB MASTER BOX
    - KB KNOX BOX
    - MM VISUAL INDICATOR (MONITOR MODULE)
    - MH MINI HORN

REVISION 2	DATE:
REVISION 2	DATE:
REVISION 1	DATE:
REVISION 0 SUBMITTAL	DATE: 7-30-10

SYSTEM WIRING RISER	
PROJECT NAME <b>128 Park Ave.</b> Portland, Maine	SCALE NTS BY: CJC
<b>NORRIS INC.</b> 2257 West Broadway, South Portland 04106	CK BY:
	SAVED AS:




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 2.5 amp load limitation and a combined load limitation of 3.0 amps or 6.0 amps if XRM-24 is added to the panel. There can be 4 class B nac circuits or 2 class A nac circuits. REMOTE power supply has a 3.0 amp 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

- A 1 PR #12 AVG TWISTED-PAIR UNSHIELDED CABLE FPL GENESIS 4315, BELDEN 6020UL (Up to 10,000 ft)
- A 1 PR #14 AVG TWISTED-PAIR UNSHIELDED CABLE FPL GENESIS 4313, BELDEN 6120UL (Up to 8,000 ft)
- A 1 PR #16 AVG TWISTED-PAIR UNSHIELDED CABLE FPL GENESIS 4311, BELDEN 6220UL (Up to 4,500 ft)
- B 1 PR #12 AVG FPL CABLE
- D 1 PR #14 AVG FPL CABLE
- E 1 PR #16 AVG FPL CABLE
- F 2c #12 AVG CABLE
- G 2c #14 AVG CABLE
- H 1 PR #16 AVG TWISTED-PAIR SHIELDED CABLE FPL
- J 1 CAT5 CABLE

REVISION 2	DATE:
REVISION 1	DATE:
REVISION 0 None	DATE: 7/30/10

SYSTEM WIRING RISER

PROJECT NAME <b>128 Park Ave.</b> Portland, MAINE	SCALE NTS
	BY: <b>HEAD</b>
	CK BY:
 Prepared For Tomorrow, Delivered Today	SAVED AS: