Reviewed for Code Compliance
Not to Scale (NTS)
Approved with Conditions
Date: 10/07/13

!
INNECTIONS
MUST HAVE CORRECT
POLARITY.

*Important! Securing Screw MUST be installed in top of Device on Exceder series HSR and STR Audio visuals.

SYSTEM INPUTS		A	B	C	D	E	F	G	H	I	J	K
	SYSTEM OUTPUTS	ACTIVATE ALARM LED	ACTIVATE SUPERVISORY LED	ACTIVATE TROUBLE LED	ACTIVATE PANEL PIEZO ALARM	DISPLAY ALPHA-NUMERIC SYSTEM STATUS MESSAGE	RECORD EVENTS IN THE SYSTEM MEMORY	ACTIVATE NOTIFICATION DEVICES	ACTIVATE EXTERIOR NOTIFICATION DEVICE	TRANSMIT FIRE ALARM SIGNAL TO REMOTE ALARM RECEIVING STATION	TRANSMIT SUPERVISORY SIGNAL TO REMOTE ALARM RECEIVING STATION	TRANSMIT TROUBLE SIGNAL TO REMOTE ALARM RECEIVING STATION
1	MANUAL FIRE ALARM PULL STATION	●			●	●	●	●	●	●		
2	SMOKE DETECTOR	●			●	●	●	●	●	●		
3	FIRE ALARM AC POWER FAILURE		●		●	●	●				●	
4	FIRE ALARM SYSTEM LOW BATTERY		●		●	●	●				●	
5	OPEN CIRCUIT			●	●	●	●					●
6	GROUND FAULT			●	●	●	●					●
7	NOTIFICATION APPLIANCE CIRCUIT SHORT			●	●	●	●					●

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

LEGEND

- PS — PULL STATION
- S — SMOKE DETECTOR
- HS XX — HORN/STROBE (XX NOTES CANDELA)
- S XX — STROBE (XX NOTES CANDELA)
- S — RED STROBE (WEATHER PROOF)

DEVICE MOUNTING HEIGHTS:

PULL STATIONS @ 48 INCHES
NOTIFICATION DEVICES @ 80 INCHES

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 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

A 1 PR #12 AWG TWISTED-PAIR UNSHIELDED CABLE FPL GENESIS 4515, BELDEN 6020UL (Up to 10,000 ft)
A 1 PR #14 AWG TWISTED-PAIR UNSHIELDED CABLE FPL GENESIS 4513, BELDEN 6120UL (Up to 8,000 ft)
A 1 PR #16 AWG TWISTED-PAIR UNSHIELDED CABLE FPL GENESIS 4511, BELDEN 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 1 PR #16 AWG TWISTED-PAIR SHIELDED CABLE FPL
I 1 PR #20 AWG SOLID COPPER UNSHIELDED PLENUM RATED
J 1 CAT5 CABLE

REVISION 2		DATE:
REVISION 1		DATE:
REVISION 0	SUBMITTAL	DATE: 09/10/2013

SYSTEM WIRING RISER

PROJECT NAME
MERCY HOSPITAL MORRISON HOUSE
148 STATE STREET
PORTLAND, ME 04101

SCALE NTS
BY: JRS
CK BY:
SAVED AS:

NORRIS INC
Prepared For Tomorrow; Delivered Today
2257 BROADWAY, SO. PORTLAND, MAINE