



**SYMBOL LEGEND**

PS	PULL STATION
S	SMOKE DETECTOR (R NOTES ELEVATOR RECALL FUNCTION)
H	HEAT DETECTOR (R NOTES ELEVATOR RECALL FUNCTION)
FRM 1	RELAY MODULE
FMM 101	MINI MONITOR MODULE
HS 75	HORN/STROBE
S XX	STROBE

XX NOTES CANDELA  
C NOTES CEILING MOUNTED

**WIRE LEGEND**

A	2 COND #16 AWG TWISTED PAIR FPL CABLE
B	2 COND #14 AWG FPL CABLE
C	2 COND #18 AWG TWISTED PAIR FPL CABLE
D	2 COND #18 AWG TWISTED SHIELDED FPL CABLE
E	1 CAT5 CABLE

**DEVICE ADDRESSES:**

EACH DEVICE MUST BE LABELED WITH THE LOOP AND SLC ADDRESS.  
 DEVICE EXAMPLE: L10001 MODULE EXAMPLE: L1M001  
 IMPORTANT! DUPLICATE ADDRESSES BETWEEN DEVICES AND MODULES ARE NOT AN ERROR. NOTE: PULL STATIONS ARE IDENTIFIED AS MODULES BY THE FIRE ALARM CONTROL PANEL.

**INSTALLATION NOTES:**

FIELD WIRING SHALL BE INSTALLED FOLLOWING THE CURRENT EDITION OF NFPA 70: NATIONAL ELECTRIC CODE(2014), ALL APPLICABLE MUNICIPAL, COUNTY, & STATE CODES, REQUIREMENTS, AND REGULATIONS, AS WELL AS ALL MANUFACTURER GUIDELINES FOR INSTALLATION.

CONTROL PANELS, DEVICES, AND ALL OTHER SYSTEM COMPONENTS SHALL BE INSTALLED FOLLOWING THE CURRENT EDITION OF NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE(2013), ALL APPLICABLE MUNICIPAL, COUNTY, & STATE CODES, REQUIREMENTS, AND REGULATIONS, AS WELL AS ALL MANUFACTURER GUIDELINES FOR INSTALLATION.

THE INSTALLER SHALL FOLLOW CORRECT CONDUCTOR POLARITY, INDICATED CIRCUIT DIVISIONS, PROPER GROUNDING AND SHIELDING WITHOUT EXCEPTION. IMPROPER INSTALLATION CAN RESULT IN INTERFERENCE, TRANSIENT VOLTAGE, OR SHORT CIRCUITS CAUSING UNDESIRABLE OPERATION OR DAMAGE TO THE CONTROL PANEL, DEVICES AND ANY OTHER INTEGRATED COMPONENTS.

IF EXCEEDING 4500 FEET, THE GAUGE OF WIRE USED FOR THE SLC LOOP (IDENTIFIED AS "A" ON THIS PRINT), SHALL BE DETERMINED BY THE INSTALLER FOLLOWING GUIDELINES AND LIMITATIONS SET FORTH BY THE MANUFACTURER(NOTIFIER DOCUMENT #51253, INTELLIGENT CONTROL PANEL SLC WIRING MANUAL). THE SLC WIRING RISER IS SHOWN DIAGRAMMATICALLY ONLY TO ALLOW FOR VARIANCES IN ACTUAL WIRE DISTANCE, DEVICE PLACEMENT AND STRUCTURAL OR ENVIRONMENTAL REQUIREMENTS.

WIRE FOR THE NOTIFICATION APPLIANCE CIRCUITS (IDENTIFIED AS "B" ON THIS PRINT), SHALL FOLLOW THE SPECIFIC REQUIREMENTS OF THE WIRING LEGEND.

ANY T-TAPPING OF SLC WIRING SHALL FOLLOW ALL REQUIREMENTS IN NOTIFIER DOCUMENT #51253, INTELLIGENT CONTROL PANEL SLC WIRING MANUAL.

THIS SYSTEM MEETS NFPA REQUIREMENTS FOR OPERATION AT 32-120°F AND A RELATIVE HUMIDITY OF 91-95% AT 87-89°F. HOWEVER, THE USEFUL LIFE OF THE SYSTEM'S STANDBY BATTERIES AND THE ELECTRONIC COMPONENTS MAY BE ADVERSELY AFFECTED BY EXTREME TEMPERATURE RANGES AND HUMIDITY. THEREFORE, IT IS RECOMMENDED THAT THIS SYSTEM AND ITS PERIPHERALS BE INSTALLED IN AN ENVIRONMENT WITH A NORMAL ROOM TEMPERATURE OF 60-80°F.

**DESIGN NOTES:**

SYSTEM DESIGN PERFORMANCE AND COMPLIANCE WITH ALL APPLICABLE CODES AND REQUIREMENTS IS THE RESPONSIBILITY OF THE DESIGNING ENGINEER. PROPER INSTALLATION OF THIS SYSTEM AND ITS COMPONENTS IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. ANY ALTERATIONS, CHANGES, OR DEFICIENCIES MUST BE BROUGHT TO THE ATTENTION OF THE DESIGNING ENGINEER.

NORRIS INC. ASSUMES NO RESPONSIBILITY FOR ERRORS IN SYSTEM DESIGN OR INSTALLATION, AS WELL AS ANY COSTS ASSOCIATED WITH CORRECTING THESE ERRORS, IF ANY EXIST, UNLESS SYSTEM DESIGN OR INSTALLATION WAS PERFORMED BY NORRIS INC.

**RELAY & MONITOR MODULES:**

CONNECTIONS FROM THE RELAY, AND MONITOR MODULES TO THE CONTROL EQUIPMENT, ALONG WITH ANY REQUIRED COMPONENTS SHALL BE FURNISHED BY THE INSTALLER.

**NOTIFICATION APPLIANCE CIRCUIT VOLTAGE DROPS**  
Patrons Oxford  
Portland, Maine

PANEL	CIRCUIT	WIRE GAUGE	LENGTH	CURRENT DRAW	VOLTAGE DROP	LOSS	VOLTAGE END	CIRCUIT LOAD
FCPS #1	NAC 1	14	250 FT	1.121A	1.42VDC	5.92%	22.58VDC	37%
FCPS #1	NAC 2	14	275 FT	1.694A	2.35VDC	9.79%	21.65VDC	57%
FCPS #1	NAC 3	14	280 FT	1.34A	1.90VDC	7.92%	22.1VDC	45%
FCPS #1	NAC 4	14	325 FT	1.804A	2.96VDC	12.33%	21.04VDC	60%

FCPS #1: 5.959A/8A Spare Capacity: 25%  
Calculated @ Maximum Distance/Current

REVISION 0	SUBMITTAL	DATE: 08/02/2016
FIRE ALARM SYSTEM WIRING RISER		
PROJECT NAME	BY: JRS	CK: DG
PATRONS OXFORD 97 TECHNOLOGY PARK DRIVE PORTLAND, MAINE 04102		
SCALE	NONE	
SHEET	FA-1	
 Prepared For Tomorrow; Delivered Today 2257 BROADWAY, SOUTH PORTLAND, MAINE		

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

FURNISHED BY OTHER

PUNCH DOWN BLOCK