

**LEGEND**

	SMOKE DETECTOR
	PULL STATION
	HORN STROBE (XX NOTES CANDELA SETTING)
	STROBE (XX NOTES CANDELA SETTING)

**WIRE LEGEND**

A	2 COND #12/#14/#16 AWG TWISTED PAIR FPL CABLE
B	2 COND #14 AWG FPL CABLE
C	4 COND #18 AWG FPL CABLE

**DEVICE ADDRESSES:**  
EACH DEVICE MUST BE LABELED WITH THE LOOP AND SLC ADDRESS  
DEVICE EXAMPLE: L10001 MODULE EXAMPLE: L11001  
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  
THE GAUGE OF WIRE USED FOR THE SLC ADDITION (IDENTIFIED AS 'A' ON THIS PRINT), SHALL BE DETERMINED BY THE INSTALLER FOLLOWING GUIDELINES AND LIMITATIONS SET FORTH BY THE MANUFACTURER. 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  
THIS SYSTEM MEETS NFPA REQUIREMENTS FOR OPERATION AT 32-120°F AND A RELATIVE HUMIDITY OF 91-95% AT 87-93°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.  
END OF LINE DEVICES MUST BE INSTALLED IN AN EASILY ACCESSIBLE LOCATION AND CLEARLY MARKED OR LABELED

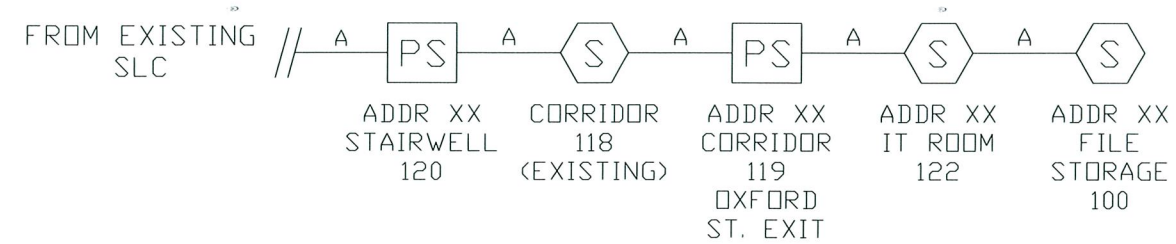
**DESIGN NOTES:**  
SYSTEM DESIGN PERFORMANCE AND COMPLIANCE WITH ALL APPLICABLE CODES AND REQUIREMENTS IS THE RESPONSIBILITY OF THE DESIGNING ENGINEER. PROPER INSTALLATION OF THIS SYSTEM AND ITS COMPONENTS IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. ANY ALTERATIONS, CHANGES, OR DEFICIENCIES 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.

**NOTIFICATION APPLIANCE CIRCUIT VOLTAGE DROPS**

Goodwill  
Portland, Maine

PANEL	CIRCUIT	LENGTH	CURRENT DRAW	VOLTAGE DROP	VOLTAGE LOSS	END VOLTAGE
FCPS	NAC 1	128 FT	.874A	.57VDC	2.38%	23.43VDC
FCPS	NAC 2	160 FT	.865A	.70VDC	2.92%	23.3VDC

Calculated Using #14 AWG Wire @ Maximum Distance/Current



**DEVICE ADDRESSING:**  
DEVICES ARE TO BE ADDRESSED BY THE INSTALLER, SEQUENTIALLY WITH THE EXISTING SLC DEVICE ADDRESSES.

SUBMITTAL DATE: 02/02/2015

FIRE ALARM ADDITION WIRING RISER

PROJECT NAME	GOODWILL 200 LANCASTER STREET PORTLAND, MAINE 04101	BY	JRP
		SCALE	NONE
		SHEET	FA-1

**NORRIS INC**  
Prepared For Tomorrow; Delivered Today  
2257 BROADWAY, SOUTH PORTLAND, MAINE