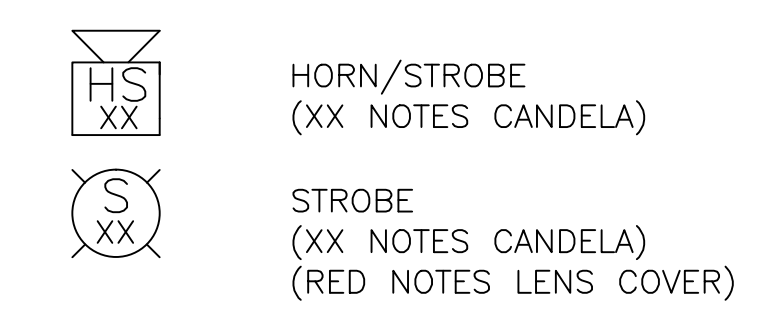


LEGEND



WIRE LEGEND

B 2 COND 14 AWG FPL CABLE

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.

WIRE FOR THE NOTIFICATION APPLIANCE CIRCUITS (IDENTIFIED AS 'B' ON THIS PRINT) SHALL FOLLOW THE SPECIFIC REQUIREMENTS OF THE WIRING LEGEND. THIS WAS DETERMINED BY THE AVAILABLE DIMENSIONED OR SCALED FLOOR PLAN DEVICE LAYOUT. PLEASE REFERENCE THE VOLTAGE DROP CALCULATIONS LOCATED ON THIS SHEET FOR DISTANCE LIMITATIONS. THE INDICATED DISTANCES IN THE VOLTAGE DROP CALCULATIONS FOR EACH CIRCUIT SHALL BE CONSIDERED THE MAXIMUM LENGTH. ANY DISTANCES EXCEEDING THOSE IN THE VOLTAGE DROP CALCULATIONS MUST BE BROUGHT TO THE ATTENTION OF NORRIS INC. TO ASSURE PROPER FUNCTIONALITY AND COMPLIANCE OF THE NOTIFICATION APPLIANCE CIRCUITS.

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 SYSTEMS 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.

NOTIFICATION APPLIANCE CIRCUIT VOLTAGE DROPS								
89 Anderson Street Portland, Maine								
PANEL	CIRCUIT	WIRE GAUGE	LENGTH	CURRENT DRAW	VOLTAGE DROP	VOLTAGE LOSS	END VOLTAGE	CIRCUIT LOAD
FCPS	NAC 1	14	240 FT	.830A	1.01VDC	4.21%	22.99VDC	28%
FCPS	NAC 2	14	180 FT	.424A	.39VDC	1.63%	23.61VDC	14%
FCPS	NAC 3	14	323 FT	.232A	.38VDC	1.58%	23.62VDC	8%
FCPS	NAC 4	14	484 FT	1.308A	3.20VDC	13.33%	20.8VDC	44%
<b>FCPS #1: 2.794A/8A Spare Capacity: 65%</b>								
FCPS	NAC 1	14	395 FT	.747A	1.49VDC	6.21%	22.51VDC	25%
FCPS	NAC 2	14	440 FT	.520A	1.16VDC	4.83%	22.84VDC	17%
FCPS	NAC 3	14	470 FT	.520A	1.23VDC	5.13%	22.77VDC	17%
FCPS	NAC 4	14	410 FT	.747A	1.55VDC	6.46%	22.45VDC	25%
<b>FCPS #2: 2.534A/8A Spare Capacity: 68%</b>								
Calculated @ Maximum Distance/Current								

REVISION 0 SUBMITTAL DATE: 12/29/2015

NAC WIRING RISER

PROJECT NAME: 89 ANDERSON STREET PORTLAND, MAINE 04101

BY: JRS  
CK: DG  
SCALE: NONE  
SHEET: FA-2

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