

SYMBOL LEGEND

- PULL STATION
- SMOKE/CARBON MONOXIDE COMBO DETECTOR WITH SOUNDER BASE
- SMOKE DETECTOR (R NOTES ELEVATOR RECALL FUNCTION)
- HEAT DETECTOR (R NOTES ELEVATOR RECALL FUNCTION)
- CARBON MONOXIDE DETECTOR
- DUCT DETECTOR
- RELAY MODULE
- MINI MONITOR MODULE
- REMOTE TEST SWITCH

WIRE LEGEND

- A 2 COND #16 AWG TWISTED PAIR FPL CABLE
- B 2 COND #14 AWG FPL CABLE
- C 2 COND #18 AWG FPL CABLE
- D 3 COND #18 AWG FPL CABLE
- E 1 CAT5 CABLE

DEVICE ADDRESSES:

EACH DEVICE MUST BE LABELED WITH THE LOOP AND SLC ADDRESS. DEVICE EXAMPLE: L1D001 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 87-93°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.

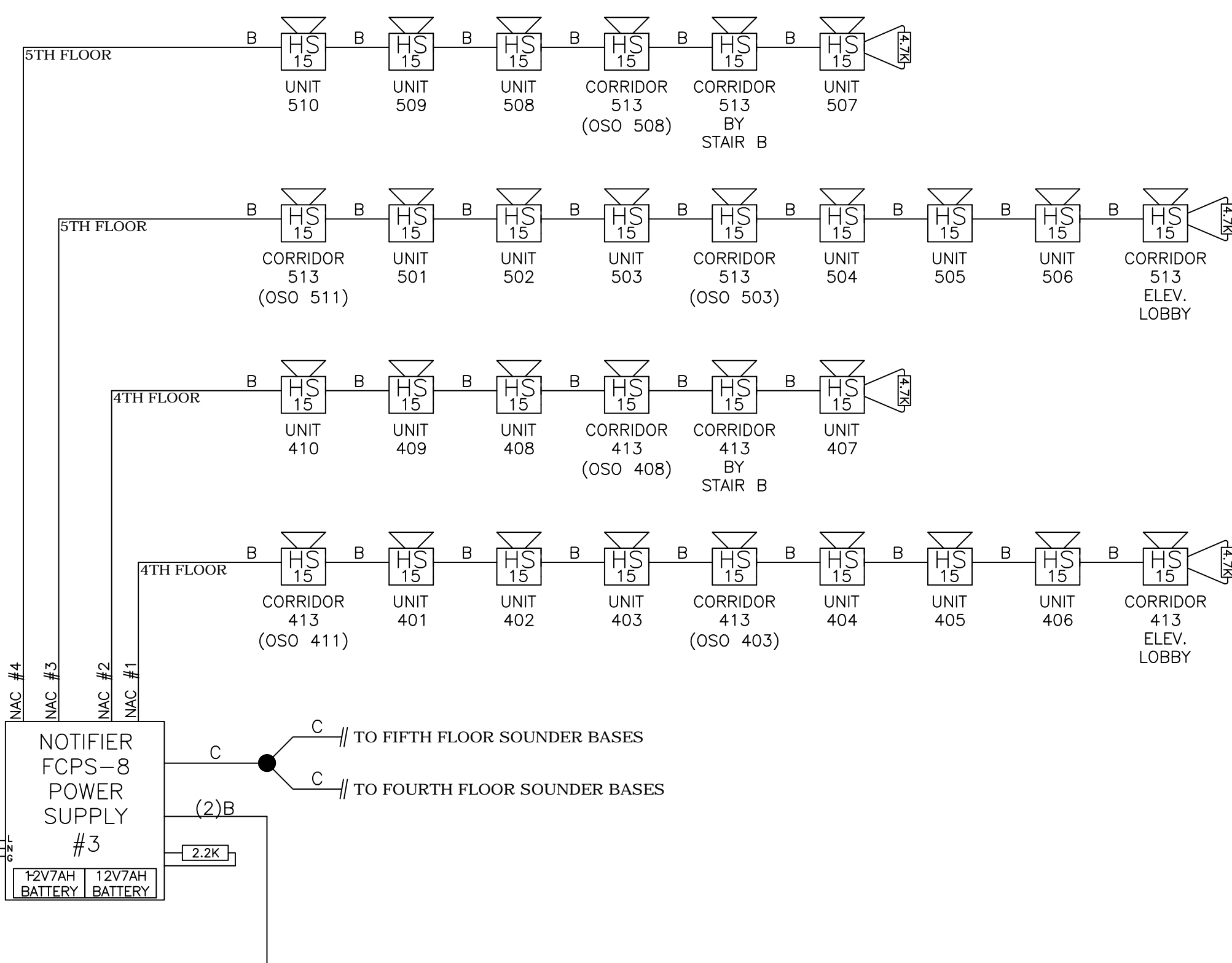
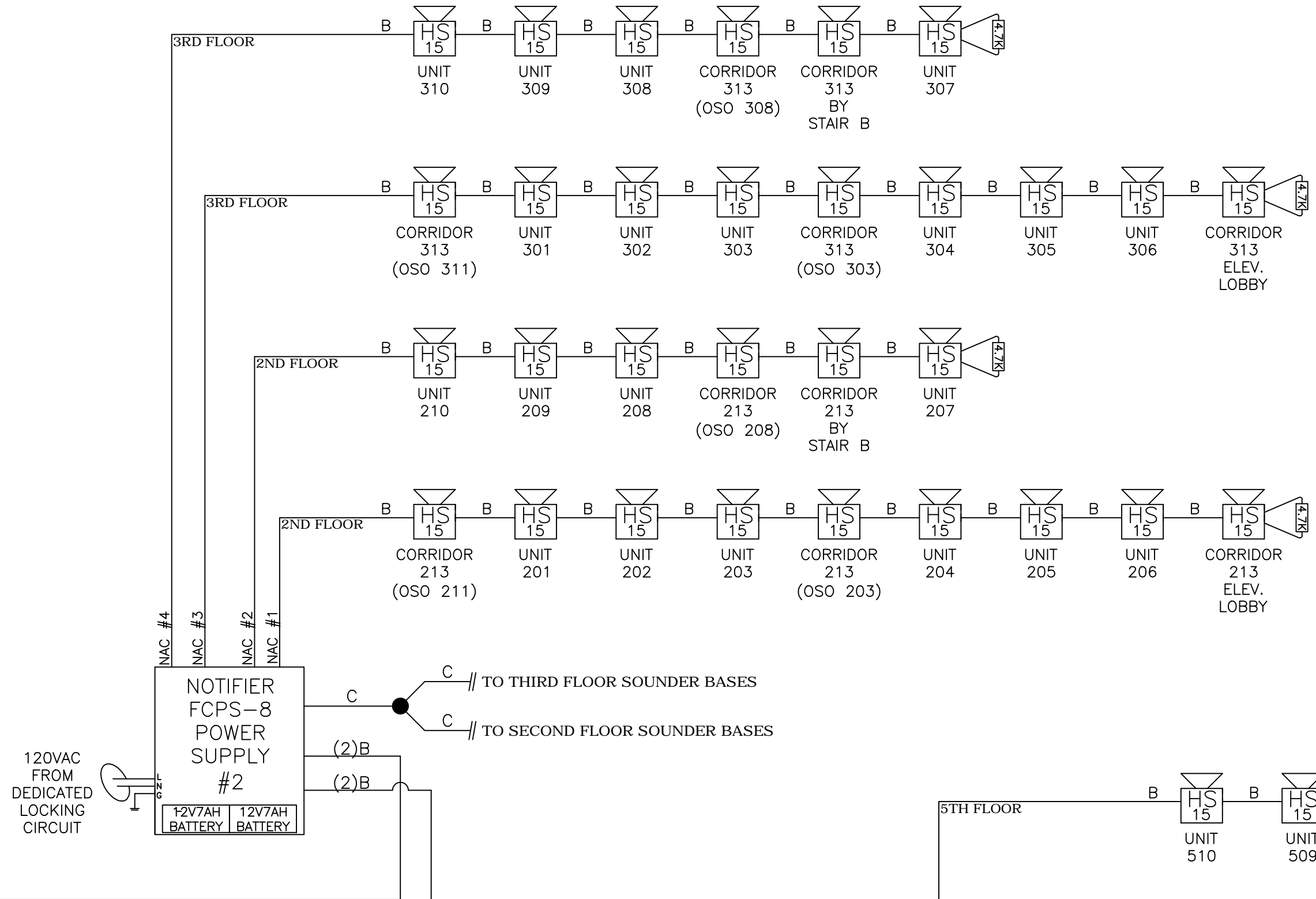
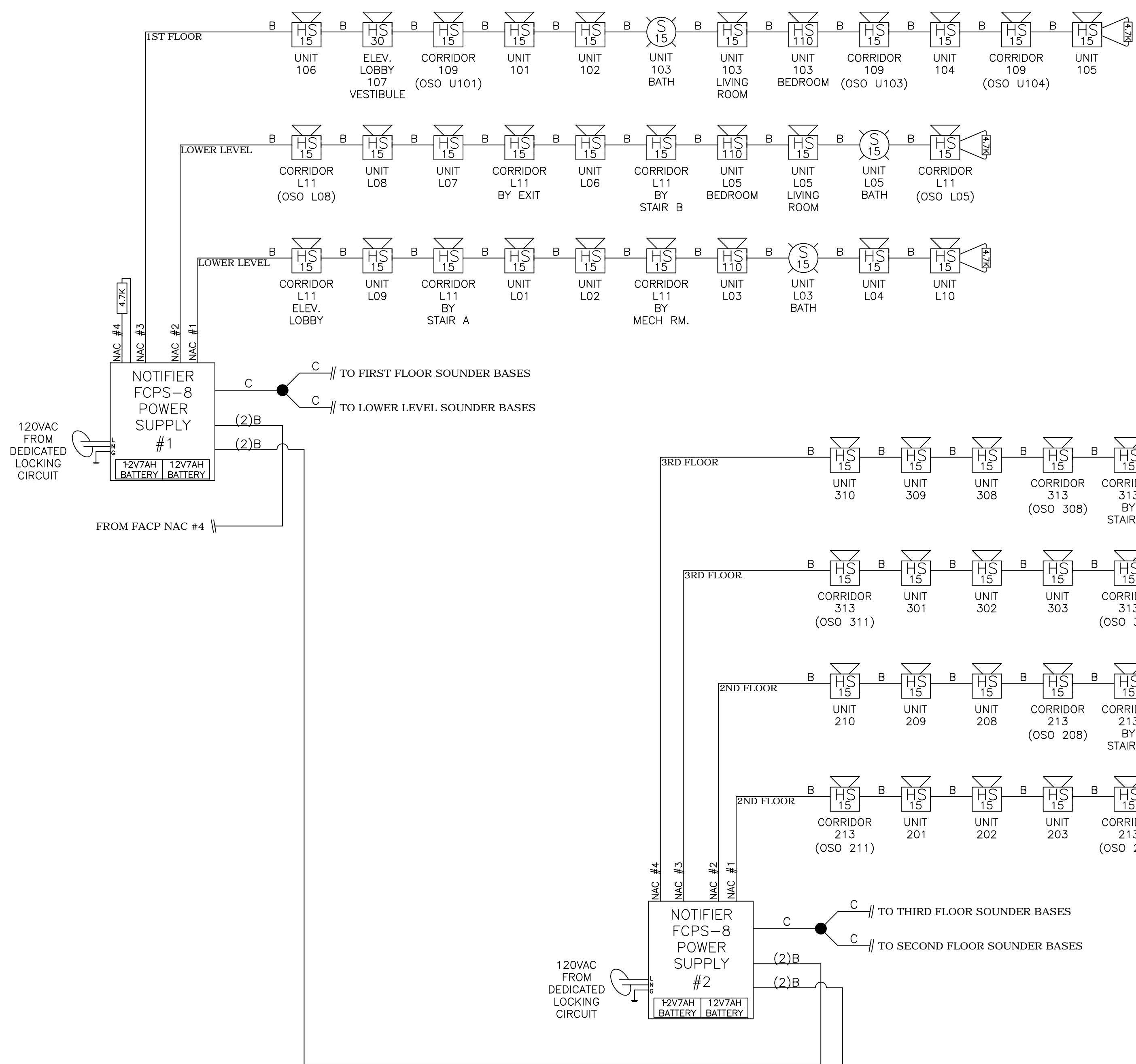
DESIGN NOTES:

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.

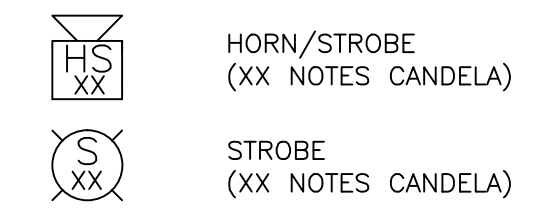
NORRIS INC. IS NOT RESPONSIBLE FOR THE PERFORMANCE OF THIS SYSTEM, AS WELL AS ANY COSTS ASSOCIATED WITH CORRECTING THESE ERRORS IF ANY EXIST, UNLESS SPECIFICALLY DESIGN OR CONNECTIONS FROM THE RELAY AND MONITOR MODULES TO THE CONTROL EQUIPMENT, ALONG WITH ANY REQUIRED COMPONENTS SHALL BE FURNISHED BY THE INSTALLER.



REVISION 0	SUBMITTAL	DATE: 07/09/2016
FIRE ALARM SYSTEM WIRING RISER		
PROJECT NAME	SCHLOTTERBECK BLOCK 117 PREBLE STREET PORTLAND, MAINE 04101	BY: JRS CK: DG
SCALE	NONE	SHEET
 2257 BROADWAY, SOUTH PORTLAND, MAINE		FA-1



SYMBOL LEGEND



WIRE LEGEND

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

DEVICE ADDRESSES:

EACH DEVICE MUST BE LABELED WITH THE LOOP AND SLC ADDRESS.
 DEVICE EXAMPLE: L1D001 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 87-93°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.

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								
Schlotterbeck Block Portland, Maine								
PANEL	CIRCUIT	WIRE GAUGE	LENGTH	CURRENT DRAW	VOLTAGE DROP	VOLTAGE LOSS	END VOLTAGE	CIRCUIT LOAD
FCPS #1: 2.916A/8A Spare Capacity: 63%								
FCPS #1	NAC 1	14	182 FT	.910A	.84VDC	3.50%	23.16VDC	30%
FCPS #1	NAC 2	14	178 FT	.910A	.82VDC	3.42%	23.18VDC	30%
FCPS #1	NAC 3	14	240 FT	1.096A	1.33VDC	5.54%	22.67VDC	37%
FCPS #2: 2.370A/8A Spare Capacity: 70%								
FCPS #2	NAC 1	14	184 FT	.711A	.66VDC	2.75%	23.34VDC	24%
FCPS #2	NAC 2	14	108 FT	.474A	.26VDC	1.08%	23.74VDC	16%
FCPS #2	NAC 3	14	199 FT	.711A	.71VDC	2.96%	23.29VDC	24%
FCPS #2	NAC 4	14	123 FT	.474A	.29VDC	1.21%	23.71VDC	16%
FCPS #3: 2.370A/8A Spare Capacity: 70%								
FCPS #3	NAC 1	14	214 FT	.711A	.77VDC	3.21%	23.23VDC	24%
FCPS #3	NAC 2	14	138 FT	.474A	.33VDC	1.38%	23.67VDC	16%
FCPS #3	NAC 3	14	229 FT	.711A	.82VDC	3.42%	23.18VDC	24%
FCPS #3	NAC 4	14	143 FT	.474A	.34VDC	1.42%	23.66VDC	16%
FCPS #3: 2.370A/8A Spare Capacity: 70%								
Calculated @ Maximum Distance/Current								

REVISION 0 SUBMITTAL DATE: 07/10/2016

FIRE ALARM SYSTEM WIRING RISER

PROJECT NAME: SCHLOTTERBECK BLOCK
117 PREBLE 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