Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 10/01/14

This drawing includes 2 added pull stations one in each retail space by the door. We have added controls for flow and tamper for each level, Flow and tamper for the dry system, low pressure, 2 - bypass valves, and tamper for each standpipe in the stairs per the sprinkler contractors list of devices.

NOTIFICATION APPLIANCE CIRCUIT VOLTAGE DROPS						
118 On Munjoy Portland, Maine						
PANEL	CIRCUIT	LENGTH	CURRENT DRAW	VOLTAGE DROP	VOLTAGE LOSS	END VOLTAGE
FACP	NAC 1	114 FT	.769A	0.44VDC	1.83%	23.56VDC
FACP	NAC 2	128 FT	.693A	0.45VDC	1.88%	23.55VDC
FCPS #1	NAC 1	195 FT	1.028A	1.01VDC	4.21%	22.99VDC
FCPS #1	NAC 2	191 FT	1.107A	1.07VDC	4.46%	22.93VDC
FCPS #1	NAC 3	210 FT	1.028A	1.09VDC	4.54%	22.91VDC
FCPS #2	NAC 1	206 FT	1.107A	1.15VDC	4.79%	22.85VDC
FCPS #2	NAC 2	225 FT	1.028A	1.17VDC	4.88%	22.83VDC
FCPS #2	NAC 3	221 FT	1.107A	1.24VDC	5.17%	22.76VDC
Calculated Using 14# AWG Wire						

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.

LEGEND

PS	PULL STATION
S E	SMOKE DETECTOR E=ELEVATOR FUNCTION
H E	HEAT DETECTOR E=ELEVATOR FUNCTION
D	DUCT DETECTOR
NMM 100	MONITOR MODULE (100P=MINI MODULE)
NDM 100	DUAL MONITOR MODULE
NC 100R	RELAY MODULE
HS XX	HORN/STROBE (XX NOTES CANDELA)
S XX	STROBE (XX NOTES CANDELA)
FAA	REMOTE ANNUNCIATOR PANEL

WIRING LEGEND

A	1 PR #12 AWG TWISTED PAIR CABLE(Up to 10,000 ft)
A	1 PR #14 AWG TWISTED PAIR CABLE(Up to 8,000 ft)
A	1 PR #16 AWG TWISTED PAIR CABLE(Up to 4,500 ft)
B	1 PR #12 AWG FPL CABLE
C	1 PR #14 AWG FPL CABLE
D	1 CAT5 CABLE
E	3 COND. #18 AWG FPL CABLE
F	1 PR #18 AWG TWISTED UNSHIELDED CABLE
G	1 PR #18 AWG TWISTED SHIELDED 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 UNDESIRED OPERATION OR DAMAGE TO THE CONTROL PANEL, DEVICES AND ANY OTHER INTEGRATED COMPONENTS.

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.

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

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 PRINT 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 APPLIANCES.

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.

REVISION 2		DATE:	
REVISION 1	DEVICE ADDS	DATE:	08/11/2014
REVISION 0	SUBMITTAL	DATE:	07/30/2014

FACP WIRING RISER

PROJECT NAME **118 ON MUNJOY** PORTLAND, ME 04101	SCALE NTS
	BY: JRS
	CK BY:
NORRIS INC Prepared For Tomorrow; Delivered Today 2257 BROADWAY, SOUTH PORTLAND, MAINE	SAVED AS: