2ND FLOOR FIRE ALARM SYSTEM

SCALE: 3/32" = 1'

EQUIPMENT LEGEND

FACP	FIRE ALARM CONTROL PANEL W/VOICE EVAC MIRCOM FX-2000MNS WITH SLCE & VOICE	MOUNT 60" A.F.F TO CENTER OF BX	(1)
P/R	SMOKE DETECTOR P= PHOTO R= RELAY BASE B224RB ADDRESSABLE MIRCOM 2251B	CEILING MOUNT 3.5 TO 4.0 OCT BX	(176)
H	HEAT DETECTOR ADDRESSABLE MIRCOM 5251B	CEILING MOUNT 3.5 TO 4.0 OCT BX	(15)
DS R	DUCT DETECTOR REMOTE TEST SWITCH R=RETURN SIDE S=SUPPLY SIDE INSTALLED BY OTHERS MONITORED BY FA	INSTALLED BY OTHERS	(3)
F	MANUAL PULL STATION - DUAL ACTION ADDRESSABLE MIRCOM 710ADU	MOUNT 48" A.F.F SINGLE GANG BX	(39)
M	MONITOR MODULE ADDRESSABLE MIRCOM MIX M500M	4 SQ BACK BX	(54)
R	ADDRESSABLE RELAY ADDRESSABLE MIRCOM MIX M500R	4 SQ BACK BX	(25)
R	10AMP CONVENTIONAL RELAY SPACE AGE MR101CR	HOUSING PROVIDED	(8)
	24 VOLT DOOR HOLDER DFX 1224	RECESS BACK BOX PROVIDED	(32)
CO	24 VOLT CO DETECTOR MIRCOM CO122AT	4 SQ BACK BX	(6)
SP X	SURGE PROTECT (1) DTK-TSS1 (4) DTK-LVLP 1= SLC, NAC 2= 120V AC, SLC, IDC/PIV, NAC, TELEPHONE	AS REQURED	
FAA	REMOTE ANNUNCIATOR MIRCOM RAXN-LCD	RECESS BACK BOX PROVIDED	(1)
SMK	SMOKE EVAC CONTROL PANEL MIRCOM FX008	RECESS BACK BOX PROVIDED	(1)
M/C	SMOKE EVAC CONTROL PANEL MIRCOM QMP-5101	RECESS BACK BOX PROVIDED	(1)
PS1	NOTIFICAITON POWER SUPPLY MIRCOM INX-10A	MOUNT 60" A.F.F TO CENTER OF BOX	(9)
	WALL MOUNTED VISUAL APPLIANCE SYSTEM SENSOR SW	4 SQ BACK BX SINGLE GANG BX MUD RING	(36)
	WALL MOUNTED AUDIBLE/VISUAL APPLIANCE SYSTEM SENSOR P2W	4 SQ BACK BX SINGLE GANG MUD RING	(42)
	WALL MOUNTED WEATHER PROOF AUDIBLE/VISUAL APPLIANCE SYSTEM SENSOR P2WK	4 SQ BACK BX SINGLE GANG MUD RING	(1)
	WALL MOUNTED HIGH CANDELA LOW FREQ AUDIBLE/VISUAL APPLIANCE SYSTEM SENSOR P2WHLF	4 SQ BACK BX	(16)
LF	WALL MOUNTED AUDIBLE APPLIANCE LF=LOW FREQUENCY SYSTEM SENSOR HW-LF	SINGLE GANG MUD RING	(147)
	WALL MOUNTED SPEAKER/VISUAL HI= HIGH CANDELA SYSTEM SENSOR SPSW OR SPSWH	4 SQ BACK BX DEEP	(37)
	WALL MOUNTED SPEAKER DEVICE SYSTEM SENOSR SPW	4 SQ BACK BX DEEP	(4)
J	JUNCTION BOX AS REQUIRED RISER TO UPPER FLOOR		

WIRE LEGEND

CABLING RACE WAY SIZE TYP 3/8" MC

CONDUCTOR TYPE:

- 16/2 FPLP- SLC CIRCUIT
- 18/2 FPLP - DATA BUS
- 14/2 FPLP - NOTIFICATION
- 16/2 FPLP - 24V CIRCUIT
- 16/2 FPLP - SPEAKER CIRCUIT

APPLICABLE CODES

ALL WORK WILL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND ADOPTED REFERENCE DESIGN STANDARDS BY PORTLAND MAINE, AND THEIR AMENDMENTS.

BUILDING CODE & EDITION: 2009 ADPOPTED IBC WITH AMENDMENTS

FIRE CODE & EDITION: NFPA 1 ADOPTED & AMENDMENTS

MECHANICAL CODE & EDITION: BOCA NATIONAL MECH CODE & AMENDMENTS

ELECTRICAL CODE & EDITION: 2007 ADOPTED NEC &AMENDMENTS

NFPA 72 EDITION: 2010

CONFLICTS BETWEEN THE REFERENCE NFPA STANDARDS, FEDERAL OR STATE CODES SHALL BE BOUGHT TO THE IMMEDIATE ATTENTION OF THE INSTALLING CONTRACTOR.

PROJECT INFORMATION

PROJECT NAME:	PORTLAND RETIREMENT RESIDENCE
LOCATION:	PORTLAND MAINE
FIRE PROTECTION:	SPRINKLED, PER NFPA 13
OCCUPANCY:	"I-1, B, A-2, A-3"
BUILDING SQ FT:	137,038SQFT

FIRE ALARM SHEET INDEX

SHEET#	DESCRIPTION
FA-1	MAIN FIRE ALARM SYSTEM, DESIGN NOTES, INSTALLATION NOTES, LEGEND APPLICABLE CODES, WIRE LEGEND, RISER DIAGRAM, INPUT/OUTPUT MATRIX
FA-2	1ST FLOOR
FA-3	2ND FLOOR
FA-4	3RD FLOOR
FA-5	4TH FLOOR
FA-6	RISER DIAGRAM

KEYED NOTES

1. CONNECT TO DOOR CONTROLLER, UPON SMOKE CONTROL ACTIVATION RELAY ACTIVATES DOOR OPENER TO OPEN DOOR. INSTALL 2-2 CONDUCTORS FROM RELAY TO ABOVE DOOR FRAME FOR DOOR HARDWARE TO CONNECT
2. CONNECT TO DOUBLE DOORS UPON SMOKE CONTROL ACTIVATION RELAY ACTIVATES TO DOORS - INSTALL 2-2 CONDUCTORS FROM RELAY TO ABOVE DOOR FRAME FOR DOOR HARDWARE TO CONNECT.
3. ATRIUM SMOKE CONTROL- MANUAL ON-OFF
4. SOUND SYSTEM SHUNT RELAY - THEATER LIGHTING CONTROL ILLUMINATION ON FIRE ALARM ACTIVATION
5. KICHEN HOOD SUPPRESSION SYSTEM MONITORING
6. MOUNT HEAT DETECTOR WITHIN 2' OF SPRINKLER HEAD
7. CONNECT TO FSD CIRCUIT, FSD TO CLOSE UPON ALARM
8. DOOR EQUIPPED WITH AUTO CLOSER AND SMOKE SEAL.
9. PROVIDE RELAY- RELAY TO OPEN ELEVATOR EXHAUST VENT UPON ALARM
10. SMOKE DETECTOR TO ANNUNCIATE ALARM AND ACTIVATE ATRIUM SMOKE CONTROL
11. FACP INSTALL (2) 12V 65AH BATTERIES
FAPS INSTALL (2) 12V 18AH BATTERIES
12. REQUIRED 120V 20AMP DEDICATED CIRCUIT, LABEL CIRCUIT AS FIRE ALARM. NOTE CIRCUIT NUMBER AND LOCATION IN SIDE DOOR OF FACP & FAPS.
13. PROVIDE 2 DEDICATED PHONE LINES FOR COMMUNICATIONS TO REMOTE MONITORING STATION.
14. DUCT DETECTOR INSTALLED BY OTHERS, PROVIDE REMOTE TEST SWITCH AND LABEL ACCOING TO CORRISPONDING RTU/AHU UNIT.
15. CO DETECTOR INSTALLED AND MONITORED BY FA CONTRACTOR.
16. SSF-1 CONTROL DAMPERS TO OPEN UPON ATRIUM SMOKE EVAC ACTIVATION
17. ELECTRIC STRIKE TO LATCH KITCHENDOORS UPON ATRIUM SMOKE CONTROL ACTIVATION - MONITOR POWER SUPPLY FOR LOW BATTERY & AC LOSS.
18. MONITOR ALL SPRINKLER FLOW, TAMPERS, PIV VALVES, AND PRESSURE SWITCHES AS REQUIRED. COORDINATE ALL LOCATIONS WITH SPRINKLER CONTRACTOR
19. VERIFY ALL ELEVATOR REQUIREMENTS WITH STATE, LOCAL AHJ, SPRINKLER AND, ELEVATOR CONTRACTOR.

Date: 10/31/17

PORTLAND RETIREMENT RESIDENCE
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PORTLAND MAINE 04103

BIRCHALL ELECTRIC
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NO.	DATE	REVISION/ISSUE/DESC.	BY	CHKD
1	06.29.2017	REVIEW COMMENTS		

NICET CERTIFIED

Christopher Mendel
06.29.17

Christopher Mendel, SET
NICET #96065
Fire Alarm Systems
Level IV (Exp. 03.01.19)

SHEET NO

FA-3

FIRE ALARM
2ND FLOOR

PROJECT NO