FIRE ALARM NOTES

- 1. ALL WORK SHALL BE IN STRICT CONFORMANCE WITH THE CITY OF PORTLAND FIRE DEPARTMENT RULES AND REGULATIONS REQUIREMENTS AND THE FOLLOWING CODES: NFPA 70 (NEC), 2014 EDITION NFPA 72, 2010 EDITION
- 2. THE EXISTING FIRE ALARM SYSTEM SHALL BE REMOVED COMPLETELY. ALL EXISTING FIRE ALARM EQUIPMENT, INCLUDING EQUIPMENT NOT INDICATED ON DRAWINGS, IS TO BE REMOVED.
- 3. A NEW FIRE ALARM SYSTEM IS TO BE INSTALLED THROUGHOUT THE PUBLIC AND MECHANICAL SPACES OF THE BUILDING. THE SYSTEM IS TO BE AN ADDRESSABLE SYSTEM WITH MANUAL PULL STATIONS, SMOKE DETECTORS GAS DETECTORS, HORNS, AND STROBES THROUGHOUT.
- ADDRESSABLE CONTROL MODULES SHALL BE PROVIDED FOR ALL SPRINKLER SYSTEM TAMPER, PRESSURE, AND FLOW SWITCHES.
- 5. SIGNALING LINE CIRCUITS SHALL MEET THE REQUIREMENTS OF NFPA 72 CLASS A TYPE CIRCUITS.
- 6. ALL STROBES WITHIN A GIVEN AREA SHALL BE SYNCHRONIZED.
- 7. NOTIFICATION APPLIANCES SHALL HAVE CLEAR STROBES WITH A RED BODY AND BE MARKED "FIRE".
- 8. ALL FIRE ALARM PULL DEVICES SHALL BE MOUNTED AT 48" AFF TO THE CENTER OF THE DEVICE.
- 9. ALL NOTIFICATION DEVICES SHALL BE MOUNTED AT 90" AFF OR 6" BELOW FINISHED CEILING (FOR CEILING UNDER 96") TO THE CENTER OF THE DEVICE. UNLESS OTHERWISE NOTED.
- 10. ALL SYSTEMS ARE SHOWN SCHEMATICALLY. DEVICE AND EQUIPMENT LOCATIONS SHALL BE CONFIRMED BY THE CONTRACTOR AS BEING SUFFICIENT BOTH IN TERMS OF FUNCTIONALITY AND IN TERMS OF THE REQUIREMENTS OF THE AFOREMENTIONED DOCUMENTS. CONTRACTOR SHALL PROVIDE RELAYS AND CONTACTORS AS REQUIRED FOR A COMPLETE SYSTEM.
- 11. ALL FIRE ALARM CONDUIT AND BOXES SHALL BE PAINTED RED.
- 12. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF SEPARATION.
- 13. PATCH, PAINT, AND REPAIR ANY FINISH SURFACES THAT ARE DAMAGED DURING CONSTRUCTION. REPLACE ANY ACOUSTICAL CEILING TILES DAMAGED DURING CONSTRUCTION.
- 14. PROVIDE WALL PLATES TO COVER ANY ABANDONED EQUIPMENT BOXES OR CONDUIT PENETRATIONS.
- 15. VALVE TAMPER SWITCHES SHALL INITIATE AN AUDIBLE AND VISUAL SUPERVISORY SIGNAL AT THE FACP. SIGNAL SHALL REMAIN UNTIL CLEARED THROUGH THE FACP INTERFACE.
- 16. A KNOX BOX SHALL BE PROVIDED. THE FINAL LOCATION OF THE BOX SHALL BE APPROVED BY THE FIRE DEPARTMENT PRIOR TO INSTALLATION. KNOX BOX SHALL HAVE AN INTEGRAL TAMPER SWITCH. TAMPER SWITCH SHALL INITIATE AN AUDIBLE AND VISUAL SUPERVISORY SIGNAL AT THE FACP AND BE RETRANSMITTED TO CENTRAL STATION. SIGNAL SHALL REMAIN UNTIL CLEARED THROUGH THE FACP INTERFACE.
- 17. UPON COMPLETION, THE CONTRACTOR SHALL PERFORM ALL NECESSARY ACCEPTANCE TESTING AND SHALL ALSO PROVIDE THE OWNER WITH WRITTEN INFORMATION ON THE PROPER INSPECTION, TESTING AND MAINTENANCE OF THE SYSTEM.

ABBREVIATIONS

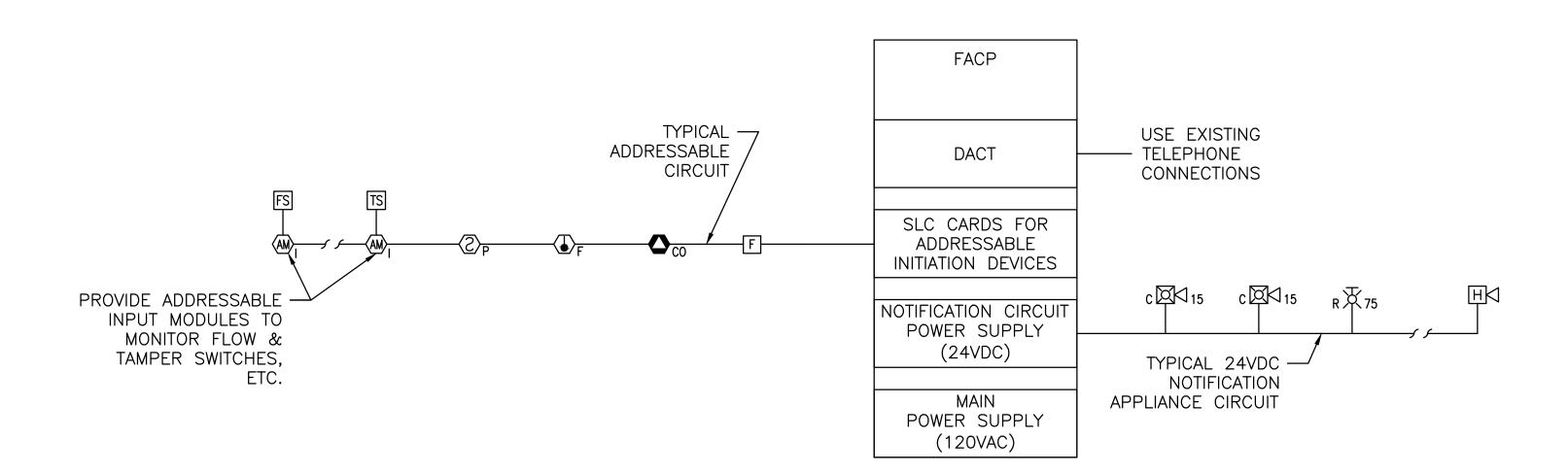
ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AIR HANDLER UNIT BFG BELOW FINISHED GRADE BUILDING DIGITAL ALARM COMMUNICATOR TRANSMITTER

EXIST EXISTING FIRE ALARM ANNUNCIATOR FAA FACP FIRE ALARM CONTROL PANEL

MANUFACTURER

NEC NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

NOT IN CONTRACT NOT TO SCALE WEATHER PROOF



- 1. THIS SCHEMATIC IS FOR REQUIRED SYSTEM COMPONENT ILLUSTRATION ONLY. REFER TO FLOOR PLANS FOR ALL DEVICE QUANTITIES.
- 2. PROVIDE ALL WIRING TYPES, SIZES, AND INTERCONNECTIONS RECOMMENDED BY THE MANUFACTURER.

3. NOT ALL ADDRESSABLE INPUT AND OUTPUT DEVICES ARE SHOWN. CONTRACTOR SHALL PROVIDE THESE DEVICES AS REQUIRED FOR PROPER SYSTEM OPERATION.

FIRE ALARM RISER DIAGRAM

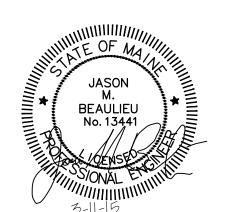
FLOOR)

SYSTEM OUTPUTS

: NTS		N N		l C N	GNA		<u>Z</u>				RST	븨
ALE: NTS		UNIT COMMON ALARM SIGNAL INI	NIT AUDIBLE ALARM SIGNAL	UNIT COMMON SUPERVISORY SIGN	UNIT AUDIBLE SUPERVISORY SIGNA	UNIT COMMON TROUBLE SIGNAL	UNIT AUDIBLE TROUBLE SIGNAL I	EVACUATION ALARM SIGNAL	TION ALA	PORTLAND FIRE DEPARTMENT	PRIMARY RECALL FLOOR (FIRST	SECONDARY RECALL FLOOR (1
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		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	GENERAL	TEMPORAL	SIGNAL	ELEVATOR	ELEVATOR
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	SYSTEM INPUTS	 	⋖					_	⋖ 	<u> </u>	2	
		A	В	С	D	Ε	F	G	Н		J	K
1	MANUAL FIRE ALARM BOX	•	•					•		•		
2	SMOKE/HEAT DETECTOR	•								•		
3	LOBBY SMOKE DETECTOR (EXCEPT 1ST FLOOR)								├	•		
4	LOBBY SMOKE DETECTOR (1ST FLOOR)											
5	CARBON MONOXIDE DETECTOR SPRINKLER WATERFLOW											
7	SPRINKLER WATERFLOW SPRINKLER CONTROL VALVE	_										
8	FIRE ALARM AC FAILURE											
10		+					•			•		
<u> </u>	I FIRE ALARM SYSTEM LOW BATTERY								1		ı l	
9	FIRE ALARM SYSTEM LOW BATTERY OPEN CIRCUIT					•	•			•		
9	OPEN CIRCUIT					•	•			•		
9	OPEN CIRCUIT GROUND FAULT					•	•			•		

FIRE ALARM INPUT/OUTPUT MATRIX

SCALE: NTS



PORTLAND HOUSING AUTHORITY PORTLAND, MAINE HARBOR TERRACE FIRE ALARM UPGRADE BVD | MRL | 3/11/15 | FIRE ALARM GENERAL NOTES AND LEGEND A ISSUED FOR CONSTRUCTION DESCRIPTION DWN APP DATE

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ANSI D PROJECT NO. SIZE: 47A York Street DATE: 03-11-2015 218.006.002 Portland, Maine 04101 DES BY: JMB 207.553.7753 Colby Company colbycoengineering.com DWN BY: BVD 1 of 17 engineering CKD BY: MRL

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