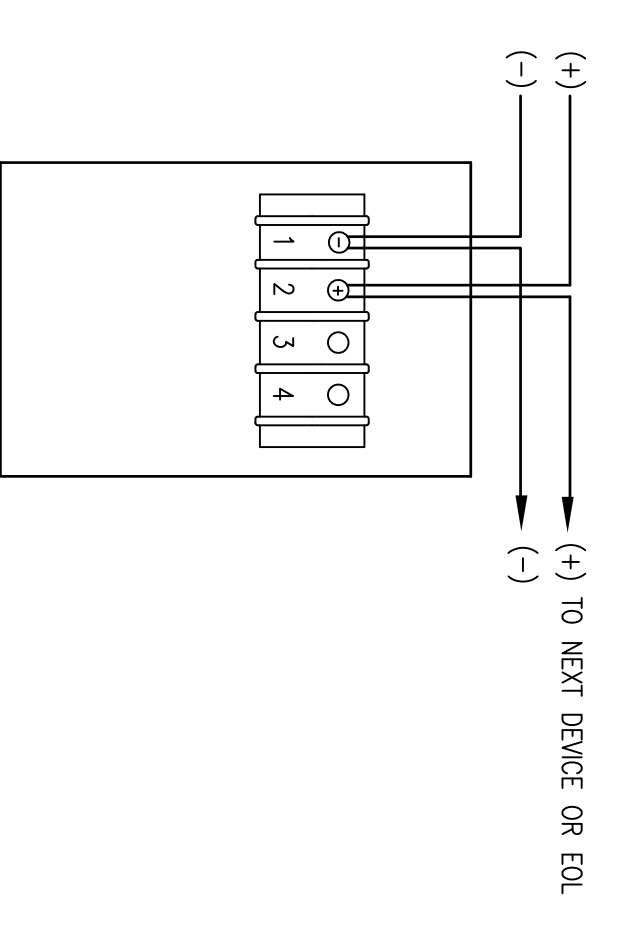
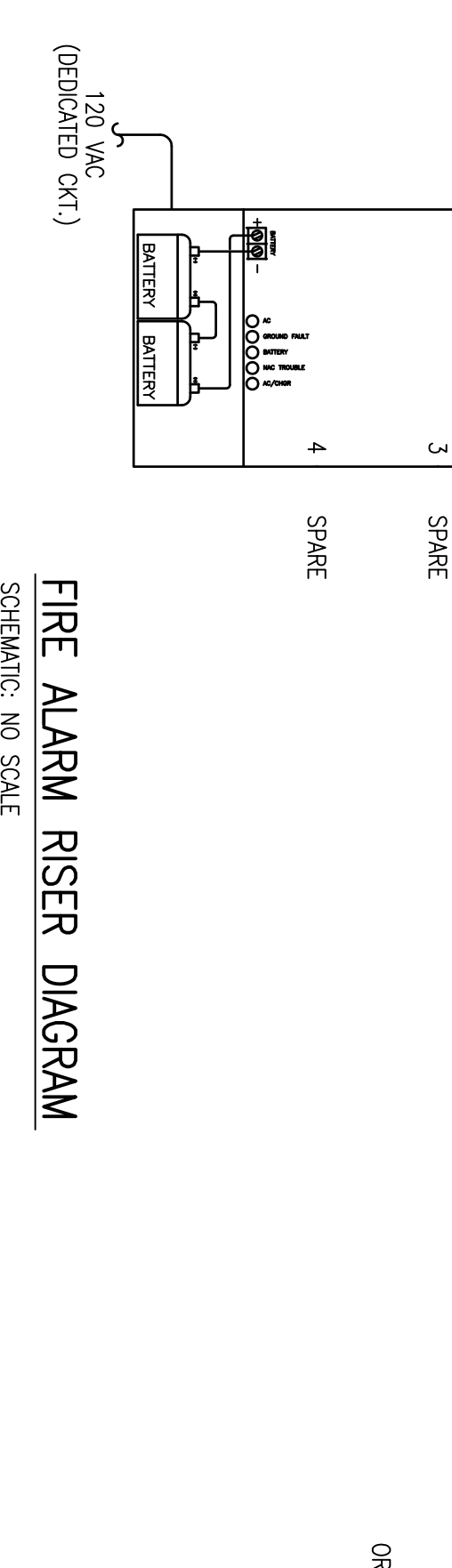
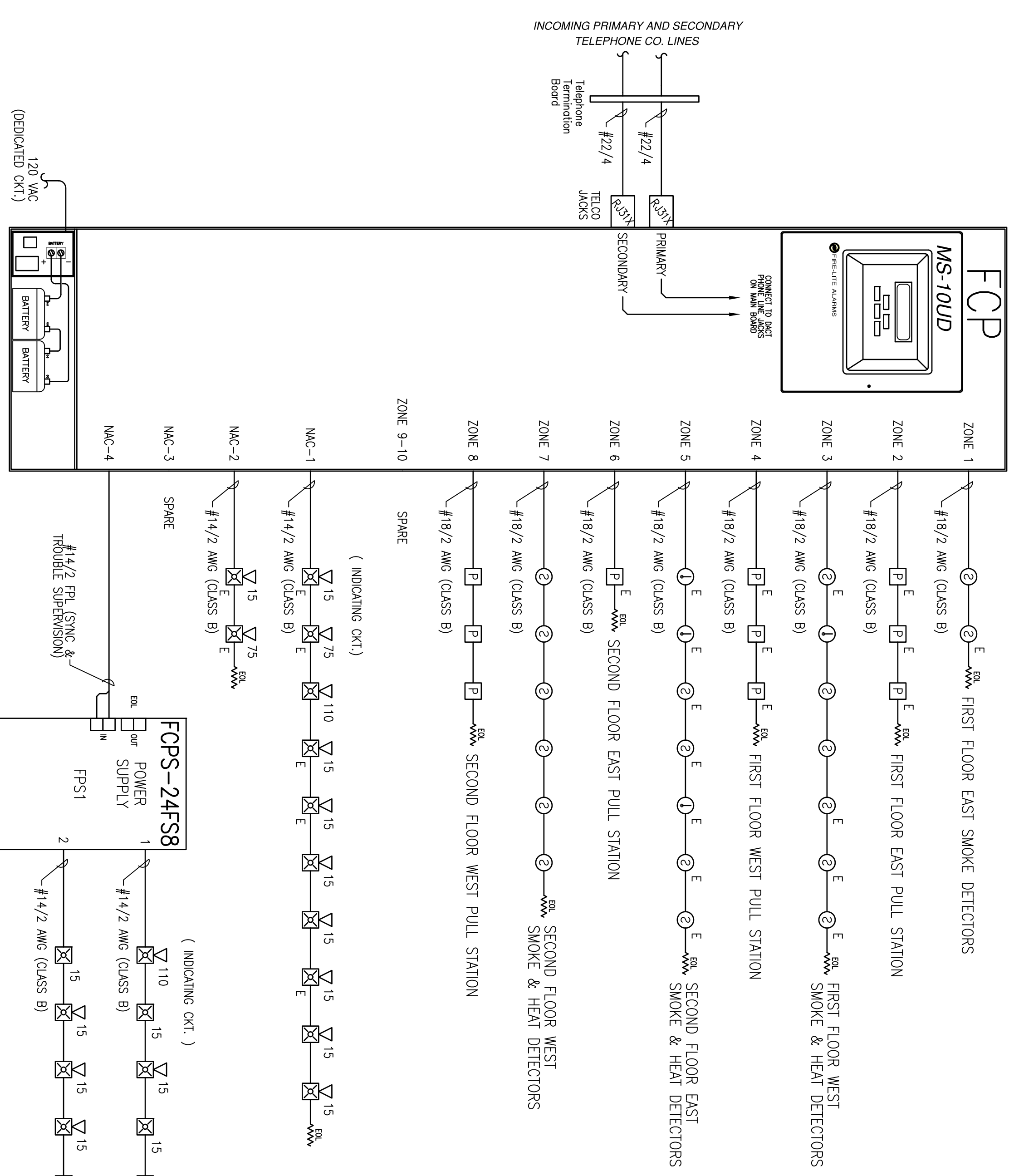


CONVENTIONAL SMOKE DETECTOR
TYPICAL WIRING DETAIL
SCHEMATIC: NO SCALE



CONVENTIONAL PULL STATION
TYPICAL WIRING DETAIL
SCHEMATIC: NO SCALE



FIRE ALARM RISER DIAGRAM
SCHEMATIC: NO SCALE

GENERAL NOTES:

- THESE DRAWINGS ARE DIAGRAMMATIC. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- INSTALLATION SHALL COMPLY WITH NEC, NFPA 72 AND ALL OTHER APPLICABLE CODES AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- WIRING DEPICTED ON THESE PLANS IS SCHEMATIC - ACTUAL WIRE LOCATIONS MAY DIFFER FROM THESE PLANS. WIRING SHALL BE PERFORMED AS ACTUAL BUILDING CONSTRUCTION CONDITIONS ALLOW AND TO MINIMIZE PENETRATIONS THROUGH AREA SEPARATION WALLS AND FIRE WALLS. THE USE OF A RACEWAY IS PERMITTED AS LONG AS NO 110V OR HIGHER VOLTAGE CABLES ARE IN THE SAME RACEWAY.
- FIRE RATINGS SHALL BE MAINTAINED FOR ALL PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION.
- POWER FOR ALL FIRE ALARM PANELS AND FIRE ALARM POWER SUPPLIES MUST BE PROVIDED BY A DEDICATED AC BRANCH CIRCUIT.
- POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST REMAIN SEPARATED IN CABINETS. ALL POWER-LIMITED CIRCUIT WIRING MUST REMAIN AT LEAST 0.25" AWAY FROM ANY NONPOWER-LIMITED CIRCUIT WIRING. FURTHERMORE, ALL POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST ENTER AND EXIT THE CABINET THROUGH DIFFERENT KNOCK OUTS AND/OR SEPARATE CONDUITS.
- WHEN UTILIZING CLASS "A" CIRCUITS, SEPARATE OUTGOING AND RETURN CONDUCTORS OF CLASS "A" CIRCUITS BY A MINIMUM OF 12" WHERE RUN VERTICALLY AND 48" WHERE RUN HORIZONTALLY.
- WHEN UTILIZING SHIELDED CABLE THE SHIELDS THROUGH AND INSULATE AT EACH JUNCTION BOX. INSULATE AND TAPE BACK AT END.
- ALL FIRE ALARM CABLING SHALL BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE INTENDED PURPOSE.
- SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED AND FINAL.
- LOCATE SMOKE DETECTORS A MINIMUM OF THREE (3) FEET FROM MECHANICAL DIFFUSERS. WALL-MOUNTED SMOKE DETECTORS SHALL BE LOCATED A MINIMUM OF 4" AND A MAXIMUM OF 12" FROM CEILING. CEILING-MOUNTED SMOKE DETECTORS SHALL BE MOUNTED ON CEILINGS AND NOT ON THE BOTTOMS OF BEAMS OR JOISTS.
- PROVIDE SYNCHRONIZATION OF ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS.
- PROVIDE ALL REQUIRED SYNC MODULES. PROVIDE A MULTI-SYNC MODE SLAVE CONNECTION BETWEEN ALL SYNC MODULES.
- VERIFY ALL FIELD SELECTABLE AUDIBILITY SETTINGS OF NOTIFICATION APPLIANCES WITH FIRE ALARM CONTRACTOR.
- UPON COMPLETION OF THE FIRE ALARM SYSTEM INSTALLATION AND PROGRAMMING, THE INSTALLING CONTRACTOR SHALL PERFORM FINAL TESTING OF THE ENTIRE SYSTEM PER ALL APPLICABLE CODES, AND SHALL COORDINATE AND PERFORM A FINAL FIRE ALARM SYSTEM INSPECTION.
- PROVIDE OFF-SITE MONITORING AS REQUIRED BY THE INTERNATIONAL FIRE CODE, SECTION 907.15 AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- INSTALLING CONTRACTOR SHALL, PHYSICALLY LABEL ALL INITIATING DEVICES AND NOTIFICATION APPLIANCE CIRCUIT END OF LINE (WHEN WIRING CLASS "B"). THESE LABELS SHALL BE IN PLACE PRIOR TO START-UP AND TESTING.

APPLICABLE CODES:

MAINE UNIFORM ENERGY & BUILDING CODE
PORTLAND CITY CODE, CHAPTER 10, FIRE PREVENTION & PROTECTION
NFPA 1, FIRE CODE, & NFPA 101, LIFE SAFETY CODE

WIRE NOTE:
VERIFY EXACT WIRE TYPE WITH FIRE ALARM CONTRACTOR BEFORE ORDERING.

FIRE ALARM SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING
	FIRE ALARM CONTROL PANEL	WALL-TOP @ 66"
	FIRE ALARM POWER SUPPLY	FIELD VERIFY
	FIRE SYSTEM ANNUNCIATOR	WALL-TOP @ 66"
	FIRE/SMOKE DAMPER	BY OTHERS
	SMOKE DETECTOR	CEILING
	SMOKE DETECTOR	BY OTHERS
	HEAT DETECTOR	CEILING
	ADDRESSABLE CONTROL MODULE	FIELD VERIFY
	ADDRESSABLE MONITOR MODULE	FIELD VERIFY
	MANUAL PULL STATION	WALL @ 48"
	CONTROL RELAY (MULTI-VOLTAGE)	FIELD VERIFY
	ADDRESSABLE RELAY MODULE	FIELD VERIFY
	SERIAL INTERFACE MODULE	FIELD VERIFY
	WATER FLOW SWITCH	BY OTHERS
	VALVE TAMPER SWITCH	BY OTHERS
	BELL	BY OTHERS
	CEILING MOUNT STROBE	FIELD VERIFY
	CEILING MOUNT HORN / STROBE	FIELD VERIFY
	CEILING MOUNT SPEAKER / STROBE	FIELD VERIFY
	HORN	WALL @ 10'-0"
	HORN / STROBE	WALL 80"-96"
	SPEAKER / STROBE	WALL 80"-96"
	SPEAKER	WALL @ 90"
	STROBE	WALL 80"-96"
	EXISTING	
	WITH GUARD	
	PENDENT MOUNT	
	RESIDENTIAL (110V)	
	SOUNDER BASE	
	WEATHER PROOF	
	END OF LINE RESISTOR	
	END OF LINE RELAY	
	AMERICAN WIRE GAUGE	
	TWISTED PAIR	
	TWISTED SHIELDED PAIR	
	FIRE POWER LIMITED PLENUM	
	FIRE POWER LIMITED RISER	

OPERATIONS MATRIX

DESCRIPTION	FIRE ALARM OUTPUT	ACTIVATE ALARM INDICATOR	ACTIVATE AUDIBLE ALARM	ACTIVATE TROUBLE INDICATOR	ACTIVATE AUDIBLE TROUBLE INDICATOR	TRANSMIT ALARM SIGNAL	TRANSMIT TROUBLE SIGNAL	ACTIVATE ALTERNATE ELEVATOR RECALL	ACTIVATE PRIMARY RECALL	ACTIVATE ELEVATOR SHUNT
FIRE ALARM INPUT	•	•	•	•	•	•	•	•	•	•
SMOKE DETECTORS	•	•	•	•	•	•	•	•	•	•
HEAT DETECTORS	•	•	•	•	•	•	•	•	•	•
PULL STATIONS	•	•	•	•	•	•	•	•	•	•
PRIMARY RECALL F.R., ELEV LOBBY SMOKE DET	•	•	•	•	•	•	•	•	•	•
ALTERNATE RECALL F.R., ELEV LOBBY SMOKE DET	•	•	•	•	•	•	•	•	•	•
ELEVATOR EQUIPMENT ROOM SMOKE DET	•	•	•	•	•	•	•	•	•	•
ELEVATOR EQUIPMENT ROOM HEAT DET	•	•	•	•	•	•	•	•	•	•
FIRE ALARM AC POWER FAIL	•	•	•	•	•	•	•	•	•	•
FIRE ALARM LOW BATTERY	•	•	•	•	•	•	•	•	•	•
OPEN CIRCUIT	•	•	•	•	•	•	•	•	•	•
GROUND FAULT	•	•	•	•	•	•	•	•	•	•
NAC SHORT CIRCUIT	•	•	•	•	•	•	•	•	•	•
LOSS OF AC TO BUILDING	•	•	•	•	•	•	•	•	•	•

RESERVED FOR CITY STAMP



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REVISION	DESCRIPTION	DATE
0	ISSUED FOR REVIEW & APPROVAL	4/29/2015

276 CANCO ROAD
PORTLAND, MAINE 04103
DETAILS, LEGEND, MATRIX, NOTES, RISER DIAGRAM

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UNIGAD Inc.
Fire Alarm Design & Drafting Services

SCALE	NONE
REVISION	0
CHECKED	WYNNE B. HANS NIGHT IV 90496
DATE	4/29/2015
DRAWN	JPB UNIGAD JOB #151144

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