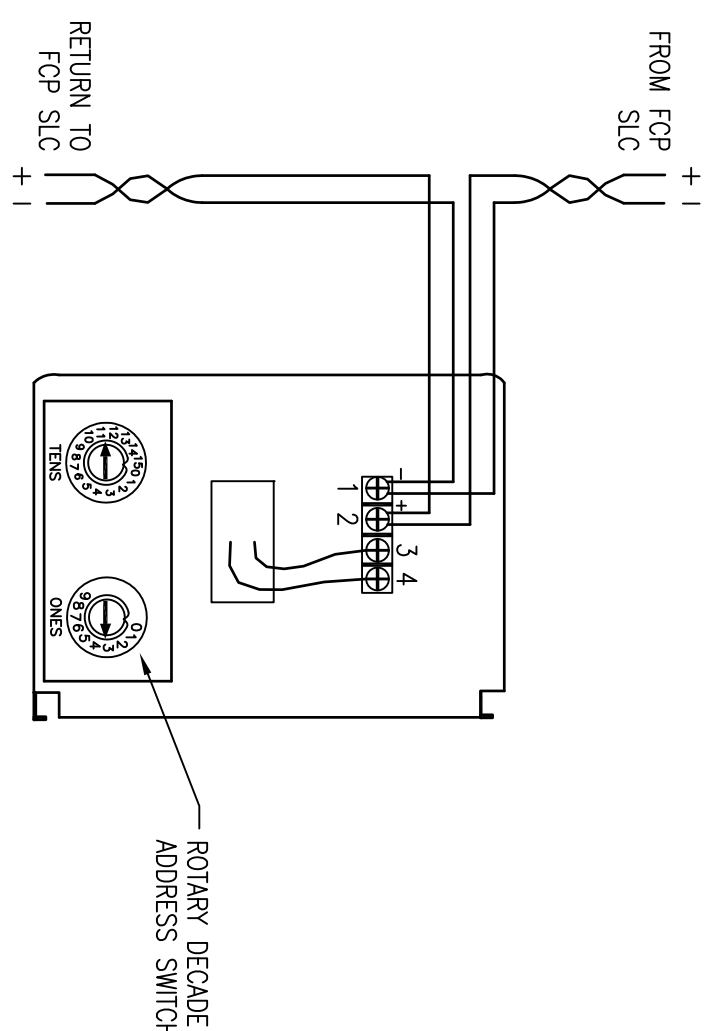
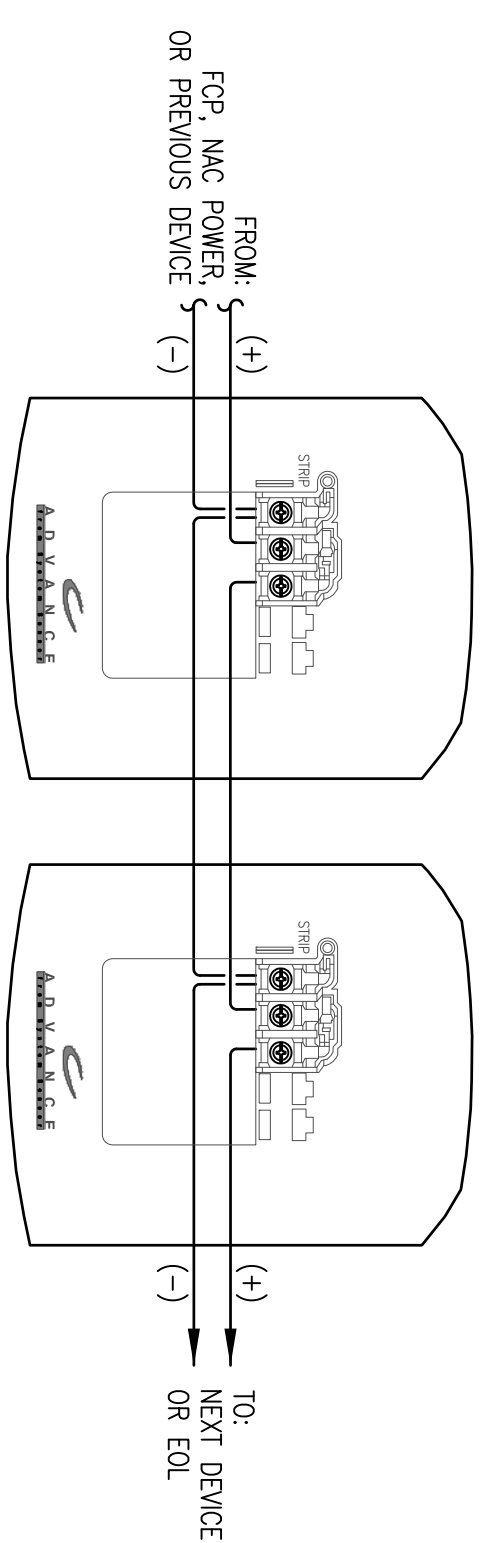


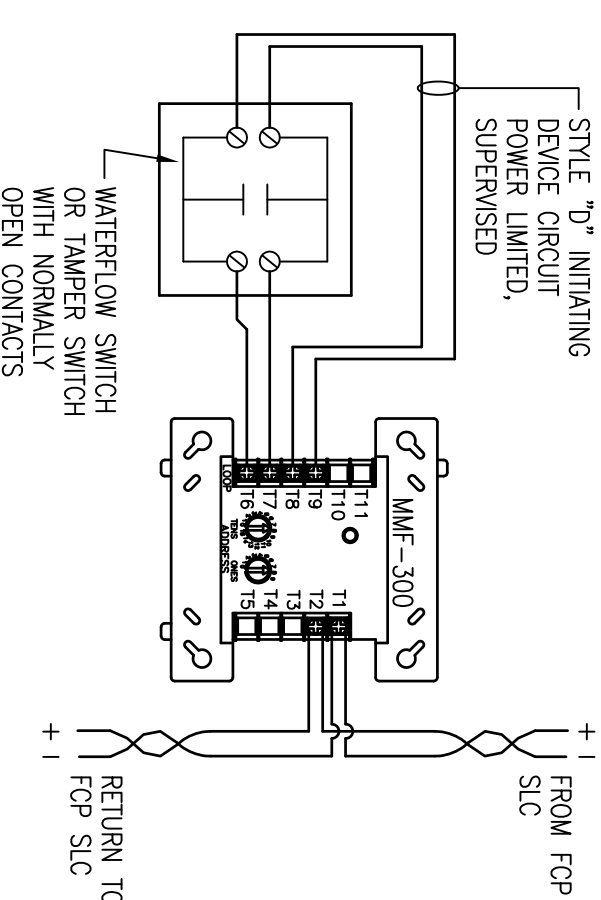
ADDRESSABLE SMOKE DETECTOR WIRING DETAIL  
SCHEMATIC: NO SCALE



MANUAL PULL STATION WIRING DETAIL  
SCHEMATIC: NO SCALE



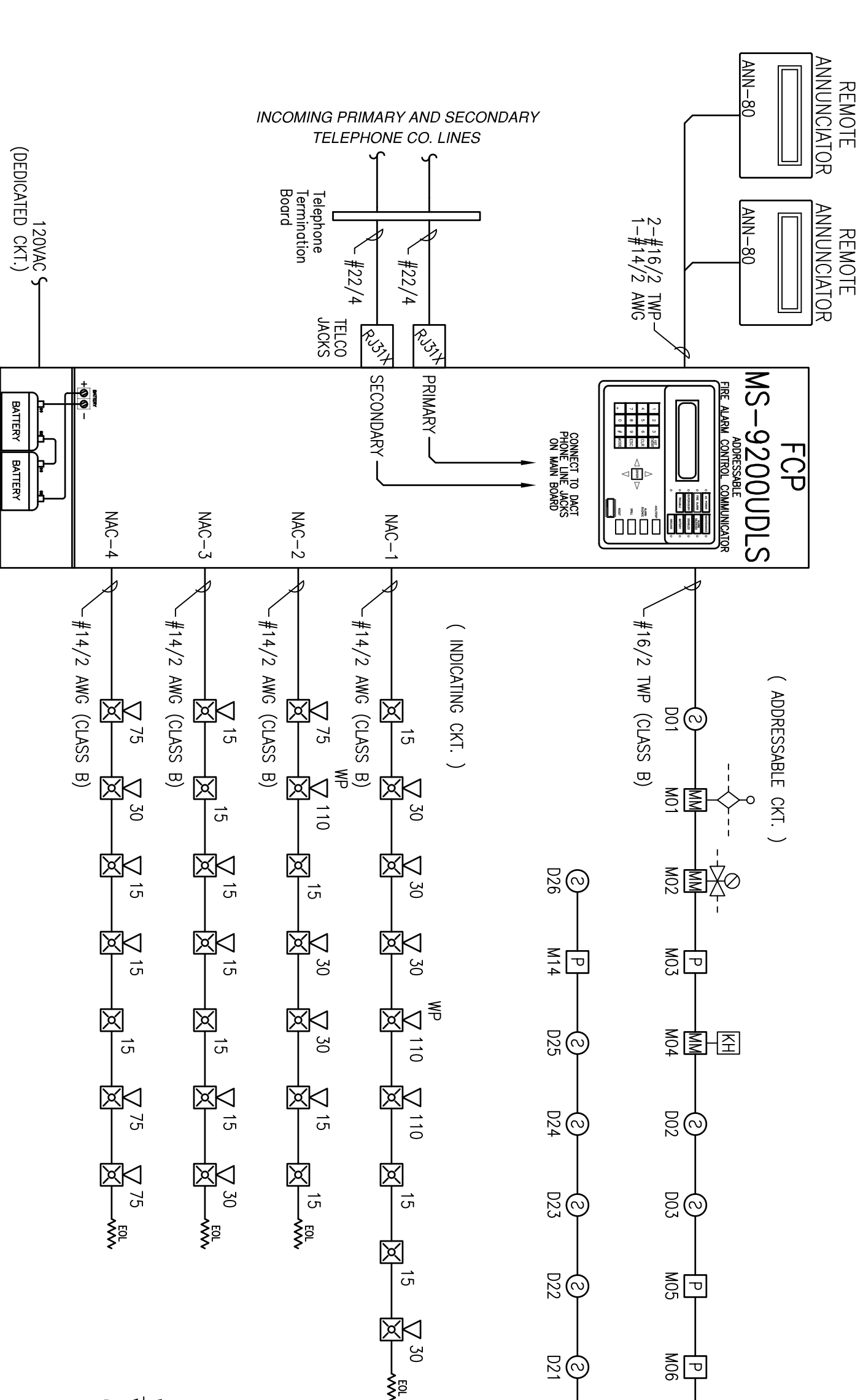
TYPICAL 2 WIRE STROBE WIRING DETAIL  
SCHEMATIC: NO SCALE



WATERFLOW / TAMPER WIRING DETAIL  
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 CABINET. 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 CEILING 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.



FIRE ALARM RISER DIAGRAM  
SCHEMATIC: NO SCALE

APPLICABLE CODES:

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

FIRE ALARM SYMBOL LEGEND	
SYMBOL	DESCRIPTION
[E2]	FIRE ALARM CONTROL PANEL
[E3]	FIRE ALARM POWER SUPPLY
[E4]	FIRE SYSTEM ANNUNCIATOR
[E5]	FIRE/SMOKE DAMPER
[E6]	SMOKE DETECTOR
[E7]	DUCT SMOKE DETECTOR
[E8]	HEAT DETECTOR
[E9]	ADDRESSABLE CONTROL MODULE
[E10]	ADDRESSABLE MONITOR MODULE
[E11]	MANUAL PULL STATION
[E12]	CONTROL RELAY (MULTI-VOLTAGE)
[E13]	ADDRESSABLE RELAY MODULE
[E14]	MAGNETIC DOOR HOLDER
[E15]	WATER FLOW SWITCH
[E16]	VALVE TAMPER SWITCH
[E17]	BELL
[E18]	CEILING MOUNT STROBE
[E19]	CEILING MOUNT HORN / STROBE
[E20]	CEILING MOUNT SPEAKER / STROBE
[E21]	HORN
[E22]	HORN / STROBE
[E23]	SPEAKER / STROBE
[E24]	SPEAKER
[E25]	STROBE
[E26]	KNOX BOX
ABBREVIATION	DESCRIPTION
E	EXISTING
G	WITH GUARD
P	ESSENTIAL MOUNT
R	RESIDENTIAL (110V)
S	SONDNER BASE
WP	WEATHER PROOF
EOL	END OF LINE RESISTOR
EAR	END OF LINE RELAY
AWG	AMERICAN WIRE GAUGE
TWP	TWISTED SHIELDED PAIR
FEMP	FIRE POWER LIMITED PENUM
FELR	FIRE POWER LIMITED RISER

OPERATIONS MATRIX		FIRE ALARM OUTPUT														
INPUT	OUTPUT	ACTIVATE ALARM INDICATOR	ACTIVATE AUDIBLE ALARM	ACTIVATE SUPERVISORY INDICATOR	ACTIVATE AUDIBLE SUPERVISORY SIGNAL	ACTIVATE TROUBLE INDICATOR	ACTIVATE AUDIBLE TROUBLE INDICATOR	TRANSMIT ALARM SIGNAL	TRANSMIT SUPERVISORY SIGNAL	TRANSMIT TROUBLE SIGNAL						
FIRE ALARM INPUT	FIRE ALARM OUTPUT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SMOKE DETECTORS	FIRE ALARM INPUT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PULL STATIONS	FIRE ALARM INPUT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
WATERFLOW SWITCHES	FIRE ALARM INPUT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
VALVE TAMPER SWITCHES	FIRE ALARM INPUT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
KITCHEN HOOD	FIRE ALARM AC POWER FAIL	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
FIRE ALARM AC POWER FAIL	FIRE ALARM AC POWER FAIL	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
FIRE ALARM LOW BATTERY	FIRE ALARM LOW BATTERY	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
OPEN CIRCUIT	GROUND FAULT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
GROUND FAULT	NC SHORT CIRCUIT	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
NC SHORT CIRCUIT	LOSS OF AC TO BUILDING	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

RESERVED FOR CITY STAMP

REVISION	DESCRIPTION	DATE
0	ISSUED FOR REVIEW & APPROVAL	4/8/2015

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DETAILS, LEGEND, MATRIX, NOTES, RISER DIAGRAM

JPB UNICAD JOB #15227  
DRAWN BY: WYNNE B. HANES  
CHECKED BY: NICKI IV. 90496  
DATE: 4/8/2015  
REVISION: 0  
SCALE: NONE

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