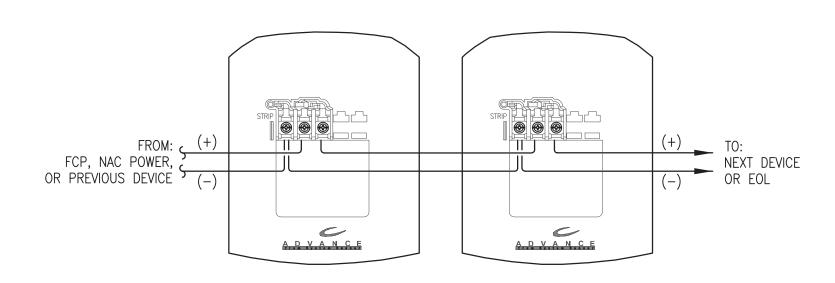
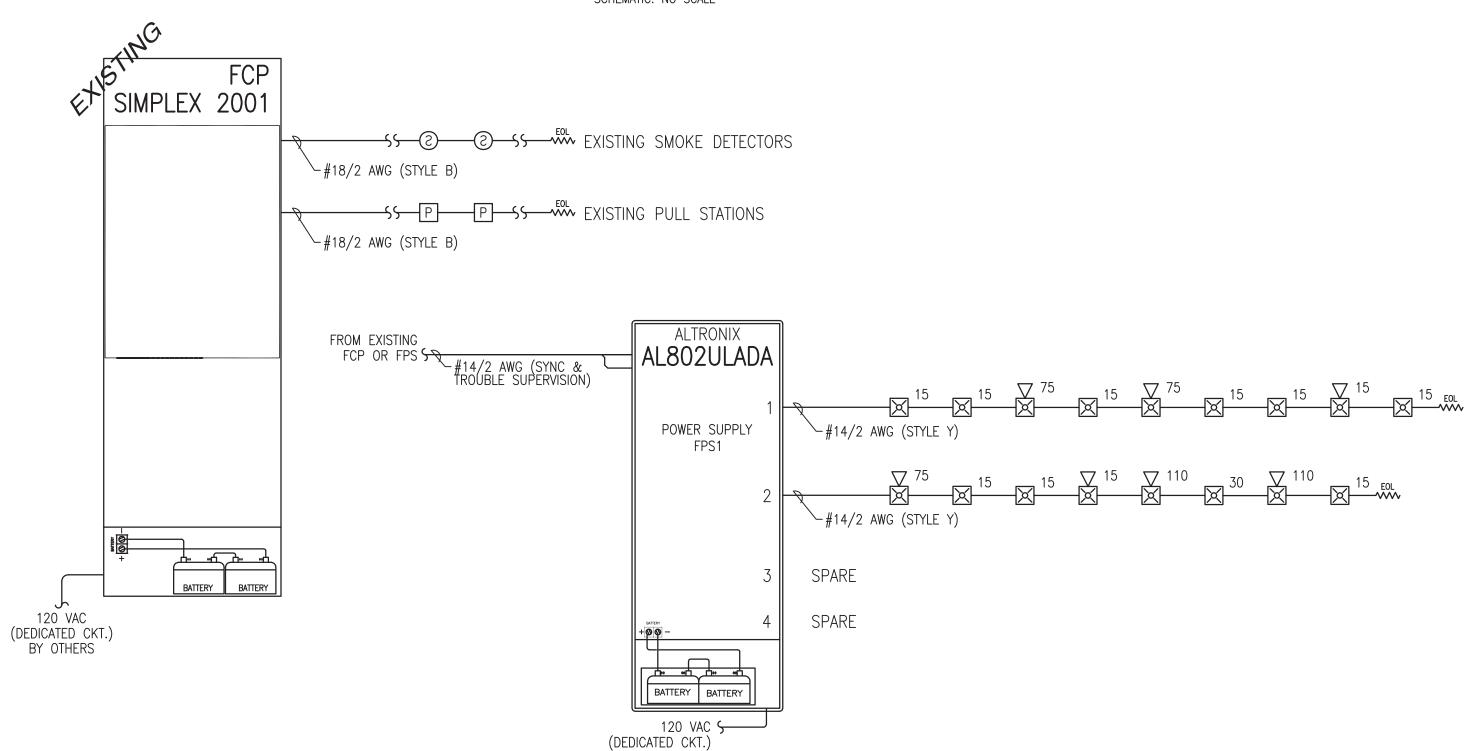


TYPICAL WIRING DETAIL

SCHEMATIC: NO SCALE



TYPICAL 2 WIRE STROBE WIRING DETAIL SCHEMATIC: NO SCALE



FIRE ALARM RISER DIAGRAM NOT TO SCALE

GENERAL NOTES:

- 1. THESE DRAWINGS ARE DIAGRAMMATIC. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- 2. INSTALLATION SHALL COMPLY WITH NEC, NFPA 72 AND ALL OTHER APPLICABLE CODES AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- 3. 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.
- 4. FIRE RATINGS SHALL BE MAINTAINED FOR ALL PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION.
- 5. POWER FOR ALL FIRE ALARM PANELS AND FIRE ALARM POWER SUPPLIES MUST BE PROVIDED BY A DEDICATED AC BRANCH CIRCUIT.
- 6. 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.
- 7. 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.
- 8. WHEN UTILIZING SHIELDED CABLE TIE SHIELDS THROUGH AND INSULATE AT EACH JUNCTION BOX. INSULATE AND TAPE BACK AT END.
- 9. ALL FIRE ALARM CABLING SHALL BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE INTENDED PURPOSE.
- 10. SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED AND FINAL.
- 11. LOCATE SMOKE DETECTORS A MINIMUM OF THREE (3) FEET FROM MECHANICAL DIFFUSERS. WALL-MOUNTED SMOKE DETECTORS SHÀLL 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.
- 12. PROVIDE SYNCHRONIZATION OF ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS. PROVIDE ALL REQUIRED SYNC MODULES. PROVIDE A MULTI-SYNC MODE SLAVE CONNECTION BETWEEN ALL SYNC MODULES.
- 13. VERIFY ALL FIELD SELECTABLE AUDIBILITY SETTINGS OF NOTIFICATION APPLIANCES WITH FIRE ALARM CONTRACTOR.
- 14. 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.
- 15. PROVIDE OFF-SITE MONITORING AS REQUIRED BY THE INTERNATIONAL FIRE CODE, SECTION 907.15 AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- 16. 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 SYMBOL LEGEND NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT								
SYMBOL	DESCRIPTION		MOUNTING					
FCP	FIRE ALARM CONTROL PANEL		WALL-TOP @ 66"					
FPS	FIRE ALARM POWER SUPPLY	FIELD VERIFY						
FSA	FIRE SYSTEM ANNUNCIATOR		WALL-TOP @ 66"					
FSD	FIRE/SMOKE DAMPER	BY OTHERS						
②	SMOKE DETECTOR	CEILING						
②=	DUCT SMOKE DETECTOR	BY OTHERS						
1	HEAT DETECTOR		CEILING					
СМ	ADDRESSABLE CONTROL MODULE	FIELD VERIFY						
ММ	ADDRESSABLE MONITOR MODULE		FIELD VERIFY					
Р	MANUAL PULL STATION	WALL @ 48"						
R	CONTROL RELAY (MULTI-VOLTAGE)	FIELD VERIFY						
RM	ADDRESSABLE RELAY MODULE	FIELD VERIFY						
₽	MAGNETIC DOOR HOLDER	FIELD VERIFY						
\$	WATER FLOW SWITCH	BY OTHERS BY OTHERS						
	VALVE TAMPER SWITCH							
A	BELL	BY OTHERS FIELD VERIFY FIELD VERIFY FIELD VERIFY WALL @ 10'-0						
Q	CEILING MOUNT STROBE							
M	CEILING MOUNT HORN / STROBE							
Ø	CEILING MOUNT SPEAKER / STROBE							
	HORN							
	HORN / STROBE	WALL 80"-96"						
<u>[53</u>]<	SPEAKER / STROBE	WALL 80"-96"						
SP	SPEAKER	WALL @ 90"						
\square	STROBE	WALL 80"-96"						
ABBREVIATION	DESCRIPTION	 ਨਿਟੀ	1 07000					
E	EXISTING	SPEAKER (12W)	STROBE — 30					
G	WITH GUARD	\Z /						
P R	PENDENT MOUNT RESIDENTIAL (110V)	(S) ~ DEVI	CE ADDRESS — ()					
S	SOUNDER BASE	L1D001	OR DO1					
WP	WEATHER PROOF	(L - DE (D or M - DENOTE	OR DO1 ENOTES LOOP #) S DETECTOR OR MODULE #)					
EOL	END OF LINE RESISTOR							
EOLR AWG	END OF LINE RELAY AMERICAN WIRE GAUGE	<u>/-1-#16/2</u> _1	WP					
TWP	TWISTED PAIR		WIRE TYPE ABBREVIATED					
TWSP	TWISTED SHIELDED PAIR		CONDUCTOR COUNT WIRE SIZE					
FPLP	FIRE POWER LIMITED PLENUM]	—— # OF CABLES (IF OMITTED ONLY 1 CABLE NEEDED)					
FPLR	FIRE POWER LIMITED RISER		ONET I ONDER NEEDED)					

APPLICABLE CODES:

MAINE UNIFORM ENERGY & BUILDING CODE PORTLAND CITY CODE, CHAPTER10, FIRE PREVENTION & PROTECTION NFPA 1, FIRE CODE, & NFPA 101, LIFE SAFETY CODE

GROUP B OCCUPANCY

TI OPERATIONS MATRIX	FIRE ALARM 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	A PER
PULL STATIONS			•					•			Г
ALTERNATE RECALL FLR, ELEV LOBBY SMOKE DET											•
EXISTING WATERFLOW SWITCHES		•	•					•			
EXISTING VALVE TAMPER SWITCHES											
FIRE ALARM AC POWER FAIL											
FIRE ALARM LOW BATTERY											
OPEN CIRCUIT											
GROUND FAULT											
NAC SHORT CIRCUIT											
LOSS OF AC TO BUILDING											Г

RESERVED FOR CITY STAMP

ste

04101

STREE

27

NOTES

MATRIX,

LEGEND,

AND PORTL/

JPB UNICAD JOB #13372 DRAWN WAYNE B. HAWS NICET IV 90496 CHECKED 7/15/2013 DATE REVISION



