

GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMATIC. 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 THE SHIELDS THROUGH AND INSULATE AT EACH JUNCTION BOX. INSULATE AND TAPE BACK AT END.

9. ALL FIRE ALARM CAGING 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 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.

12. PROVIDE SYNCHRONIZATION OF ALL VISUAL NOTIFICATION APPLANCE 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 APPLANCES 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.

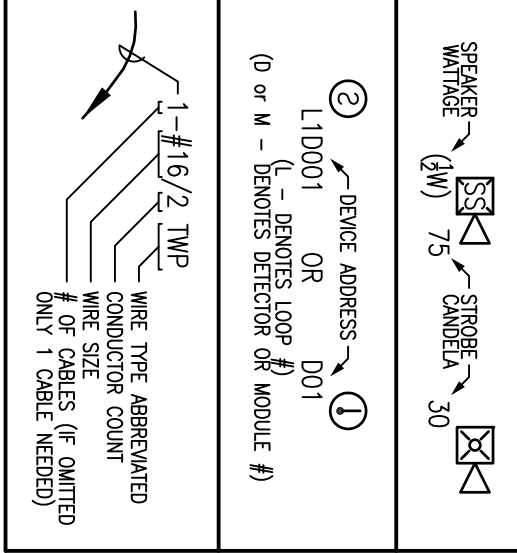
15. PROVIDE OFF-SITE MONITORING AS REQUIRED BY THE INTERNATIONAL FIRE CODE, SECTION 907.15 AND THE LOCAL AUTHORITY HAVING JURISDICTION.

16. INSTALLING CONTRACTOR SHALL, PHYSICALLY, LABEL ALL INITIATING DEVICES AND NOTIFICATION APPLANCE 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 MUST BE USED ON THIS PROJECT

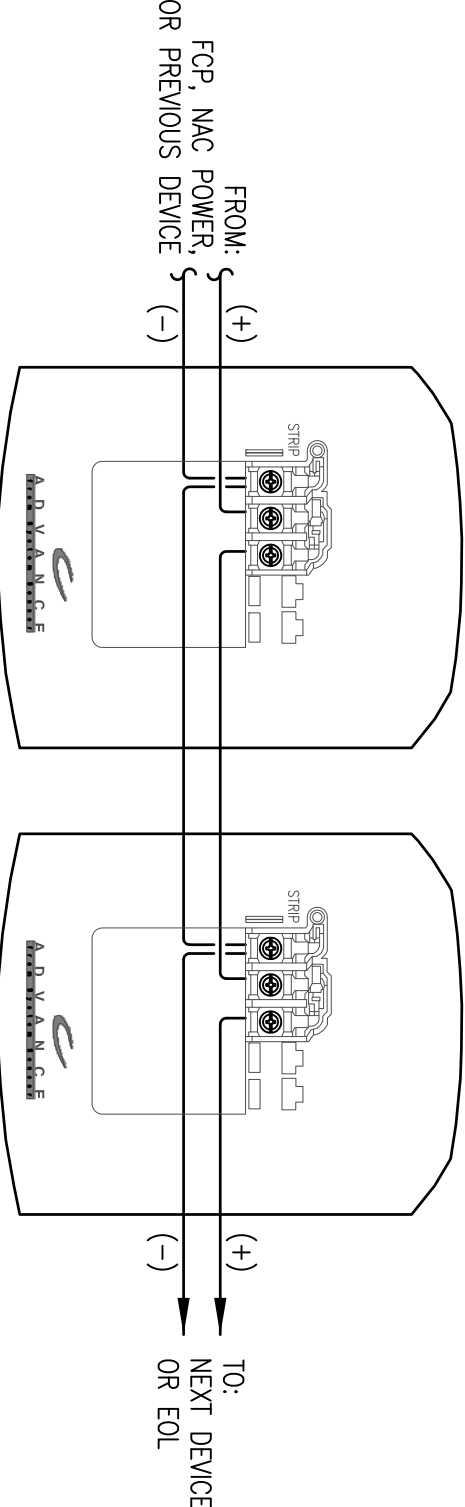
SYMBOL	DESCRIPTION	MOUNTING
	FIRE ALARM CONTROL PANEL	WALL-TOP @ 66"
	FIRE ALARM POWER SUPPLY	FIELD VERIFY
	FIRE SYSTEM ANNUNCIATOR	WALL-TOP @ 66"
	SMOKE DETECTOR	CEILING
	DUCT SMOKE DETECTOR	BY OTHERS
	CARBON MONOXIDE DETECTOR	FIELD VERIFY
	HEAT DETECTOR	CEILING
	ADDRESSABLE CONTROL MODULE	FIELD VERIFY
	ADDRESSABLE MONITOR MODULE	FIELD VERIFY
	MANUAL PULL STATION	WALL @ 48"
	CONTROL RELAY (MULTI-VOLTAGE)	FIELD VERIFY
	ADDRESSABLE RELAY MODULE	FIELD VERIFY
	MAGNETIC DOOR HOLDER	FIELD VERIFY
	WATER FLOW SWITCH	BY OTHERS
	VALVE TAMPER SWITCH	BY OTHERS
	KNOX BOX	FIELD VERIFY
	CEILING MOUNT STROBE	FIELD VERIFY
	CEILING MOUNT HORN / STROBE	FIELD VERIFY
	CEILING MOUNT SPEAKER / STROBE	FIELD VERIFY
	MINI HORN	WALL @ 10'-0"
	HORN / STROBE	WALL 80"-96"
	SPEAKER / STROBE	WALL 80"-96"
	SPEAKER	WALL @ 90"
	STROBE	WALL 80"-96"
ABBREVIATION	DESCRIPTION	
	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 PENIUM	
	FIRE POWER LIMITED RISER	



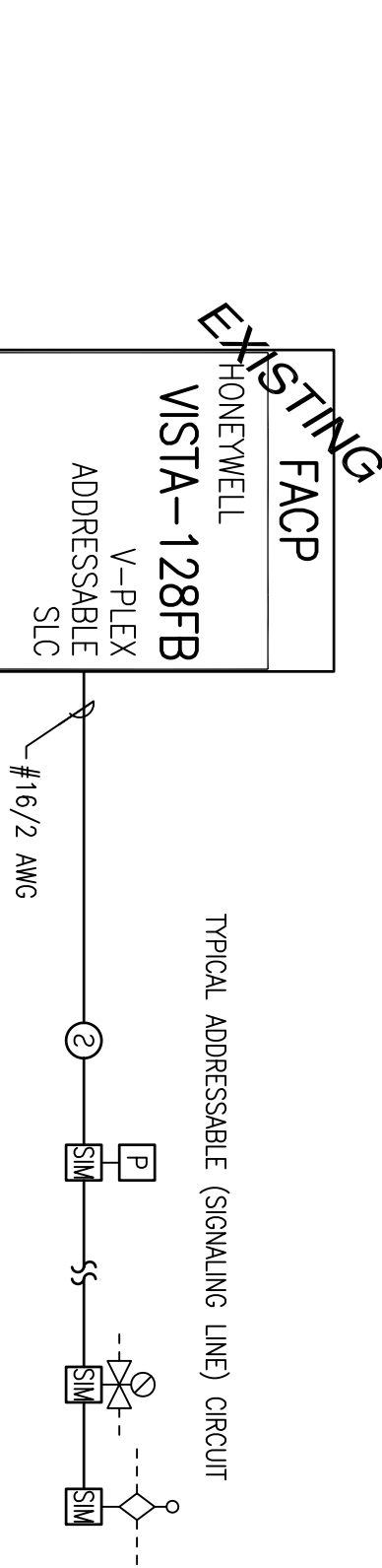
APPLICABLE CODES:

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

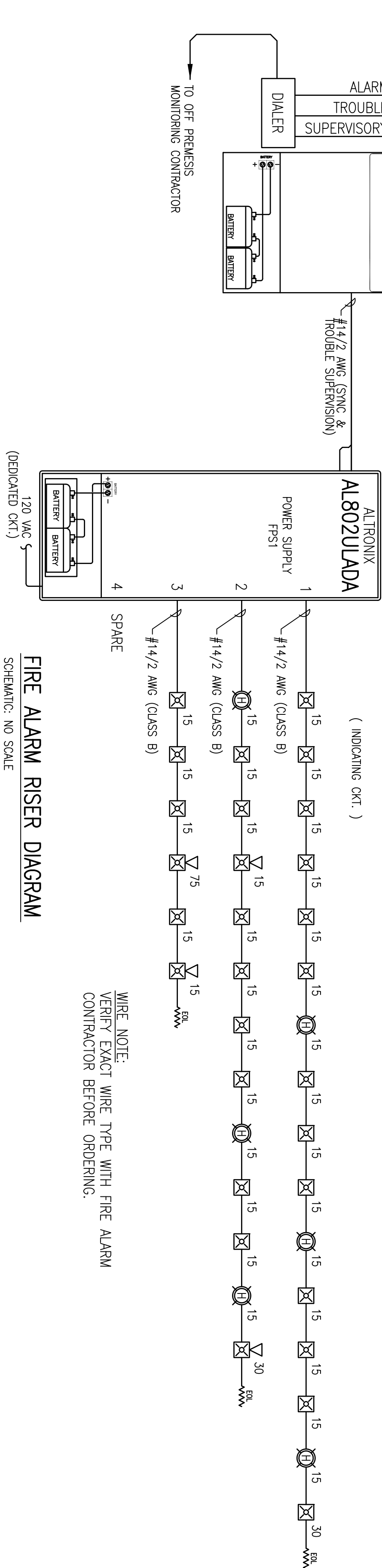
T.I. OPERATIONS MATRIX									
FIRE ALARM INPUT	FIRE ALARM OUTPUT								
	SMOKE DETECTORS	ACTIVATE ALARM INDICATOR	ACTIVATE AUDIBLE ALARM	ACTIVATE SUPERVISORY INDICATOR	ACTIVATE AUDIBLE SUPERVISORY SIGNAL	ACTIVATE TROUBLE INDICATOR	ACTIVATE AUDIBLE TROUBLE INDICATOR	TRANSMIT ALARM SIGNAL	TRANSMIT SUPERVISORY SIGNAL
WATERFLOW SWITCHES		●	●						
VALVE TAMPER SWITCHES				●					
FIRE ALARM AC POWER FAIL								●	●
FIRE ALARM LOW BATTERY								●	●
OPEN CIRCUIT								●	●
GROUND FAULT								●	●
MAC SHORT CIRCUIT								●	●
LOSS OF AC TO BUILDING								●	●



TYPICAL 2 WIRE STROBE WIRING DETAIL  
SCHEMATIC: NO SCALE



TYPICAL ADDRESSABLE (SIGNALLING LINE) CIRCUIT



FIRE ALARM RISER DIAGRAM  
SCHEMATIC: NO SCALE

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

RESERVED FOR CITY STAMP

DATE	DESCRIPTION	REVISION
9/22/2015	ISSUED FOR REVIEW & APPROVAL	0

# CUNNINGHAM

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GRIME STUDIOS  
PORTLAND, MAINE  
LEGEND, MATRIX, NOTES, RISER DIAGRAM

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UNIGAD Inc.

Fire Alarm Design & Drafting Services

SCALE: NONE

REVISION: 0

CHECKED: WAYNE B. HAWES  
DATE: 9/22/2015

DRAWN: UNIGAD JOB #15648

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