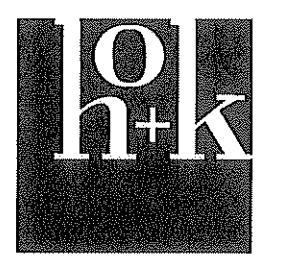


Project  
Humana Daytona Market  
Office  
143 EXECUTIVE CIRCLE  
DAYTONA, FL 32114

Prepared For  
Humana, Inc.  
Client Location

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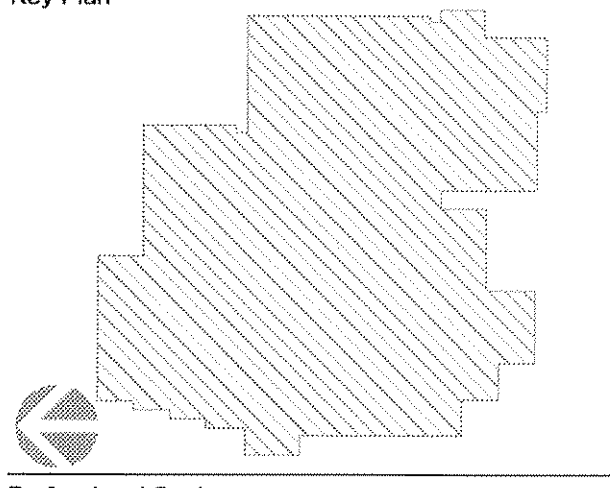


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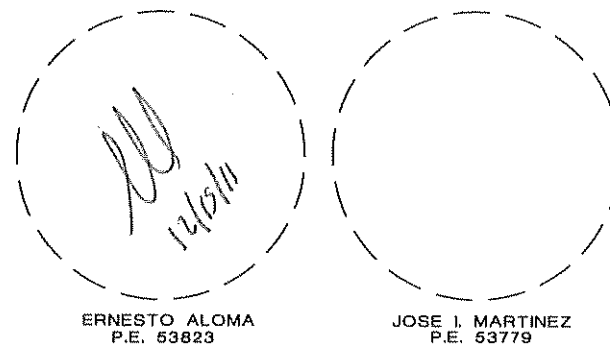
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Key Plan



Professional Seal

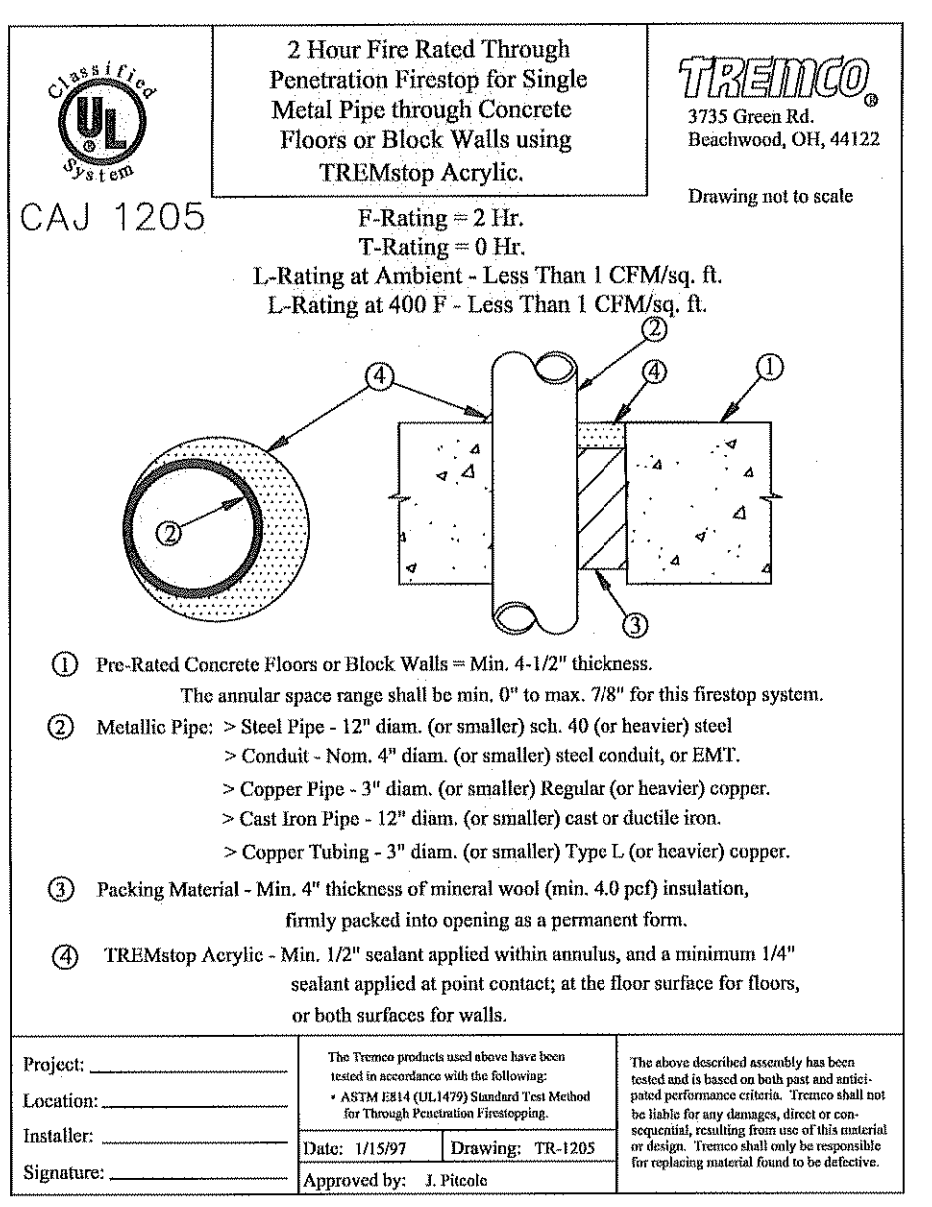


No.	Issue Description	YYYY-MM-DD
1	ISSUE FOR BID & PERMIT	12.14.11

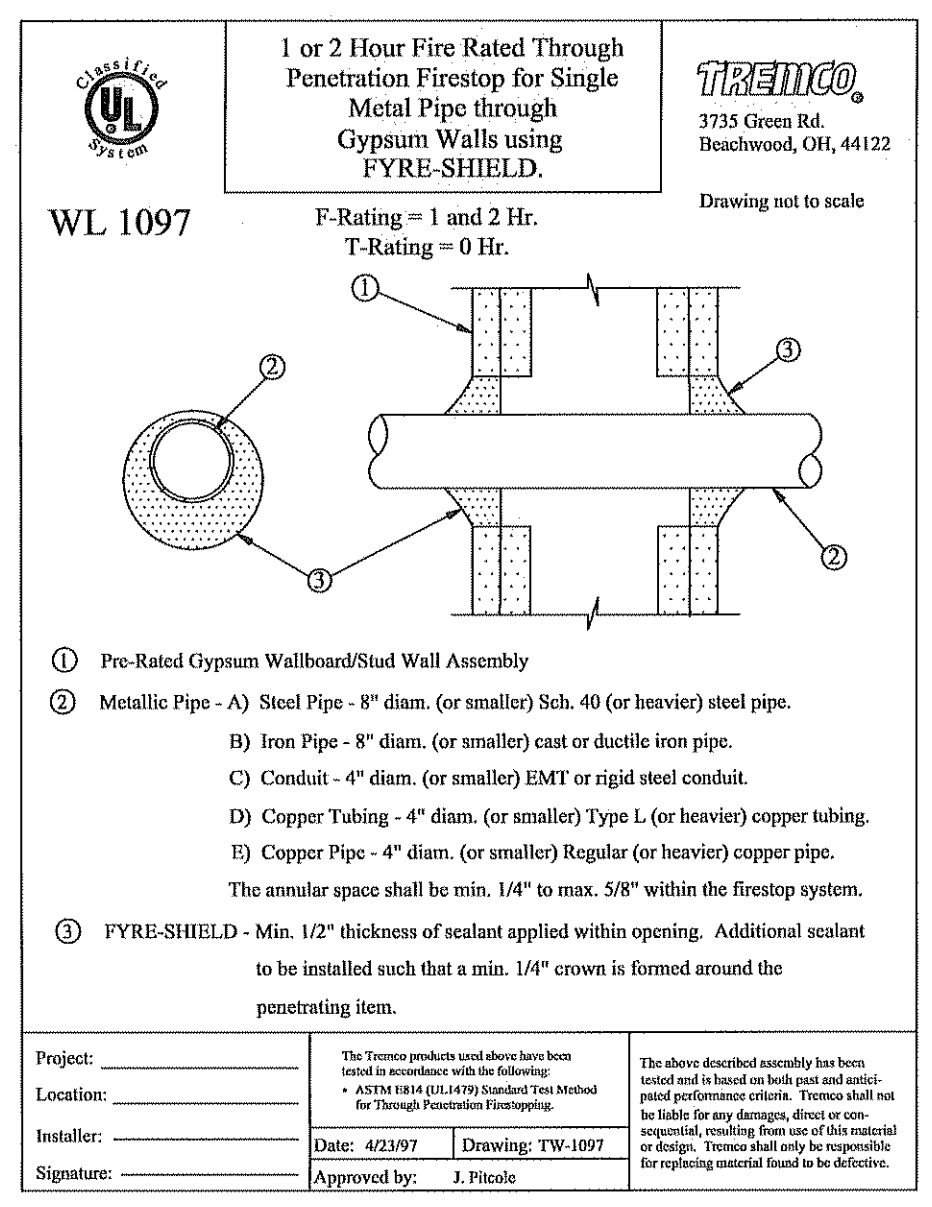
No.	Revision Description	YYYY-MM-DD
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Drawn by Author Reviewed by Checker  
Project No 10.01698.00

Sheet Title  
**FIRE ALARM RISER DIAGRAM**

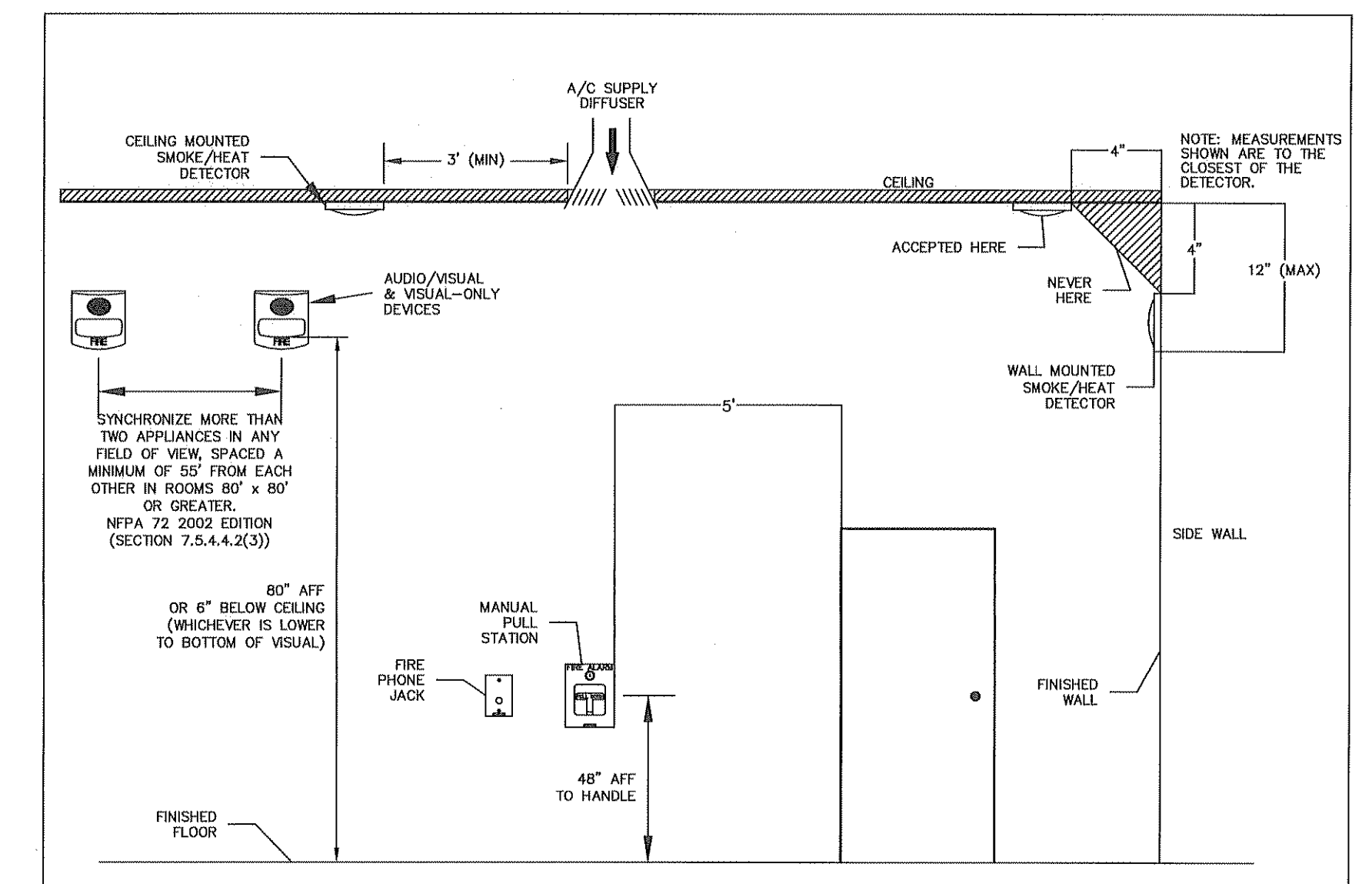


**FIRE STOPPING DETAILS**  
SCALE: N.T.S.



SYM.	DESCRIPTION	MODEL	MOUNTING	MANUFACTURER
[FACP]	EXISTING FIRE ALARM CONTROL PANEL AND VOICE COMM (Central Microprocessor)	XLSV	MOUNT 72" A.F.F. TO TOP, PROVIDE 120 VAC	SIEMENS
[PAD]	AUXILIARY SIGNAL POWER BOOSTER	PAD-3	MOUNT 72" A.F.F. TO TOP, PROVIDE 120 VAC	SIEMENS
[ANN]	REMOTE ANNUNCIATOR PANEL	SSD-C	MOUNT 60" A.F.F. TO TOP	SIEMENS
[FATC]	FIRE ALARM TERMINAL CABINET	F.B.O.	SIZE AS REQUIRED OR SPECIFIED	SIEMENS
[D]	PHOTOELECTRIC DETECTOR W/ BASE	HFP-11/OB-11S	CEILING MOUNT ON A 4" OCTAGON BOX	SIEMENS
[H]	CEILING THERMAL DETECTOR	HEPT-11	CEILING MOUNT ON A 4" OCTAGON BOX	SIEMENS
[F]	MANUAL PULL STATION	HMS-S	MOUNT 48" A.F.F. TO CNTR ON A 3 1/2" DEEP, 1 GANG BOX	SIEMENS
[TRI-S]	ADDRESSABLE INTERFACE MODULE	HTRI-S	MOUNT ON A 3 1/2" DEEP DOUBLE GANG BOX	SIEMENS
[TRI-M]	MINIATURE ADDRESSABLE INTERFACE MODULE	HTRI-M	MOUNT IN A SINGLE GANG BOX	SIEMENS
[TRI-R]	ADDRESSABLE INTERFACE MODULE W/ RELAY	HTRI-R	MOUNT ON A 3 1/2" DEEP DOUBLE GANG BOX	SIEMENS
[TRI-D]	DUAL ADDRESSABLE INTERFACE MODULE	HTRI-D	MOUNT ON A 3 1/2" DEEP DOUBLE GANG BOX	SIEMENS
[HSK]	FIRE ALARM SPEAKER/STROBE SELECT CD WALL MOUNTED	SET-MC	MOUNT 80" A.F.F. TO BOTTOM ON A 4" SQUARE DEEP BOX WITH EXT. RING	SIEMENS
[SL]	FIRE ALARM STROBE, SELECTABLE CANDELA	ZR-MC-W	MOUNT 80" A.F.F. TO BOTTOM ON A 4" SQUARE BOX	SIEMENS
[HS]	FIRE ALARM SPEAKER, WALL MOUNT	SET	WALL MOUNT TO 4" SQ. DP BOX WITH EXT. RING 90" A.F.F. TO TOP OF SPEAKER	SIEMENS

NOTES:  
1. NOT ALL SYMBOLS SHOWN IN ARE NECESSARILY BEING USED.



**FIRE ALARM TYPICAL DEVICE MOUNTING LOCATIONS**

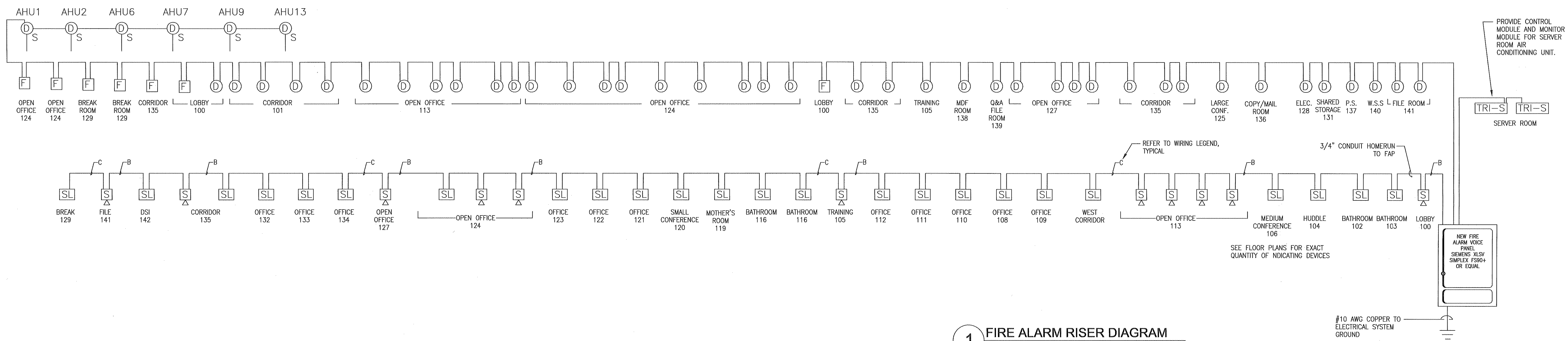
SYM.	DESCRIPTION	CONNECTIONS
A	2 CONDUCTOR #14 AWG (FPL)	FOR CONNECTION TO ADDRESSABLE DEVICES
B	2 CONDUCTOR #16 AWG (FPL)	FOR CONNECTION TO SPEAKER CIRCUITS
C	2 CONDUCTOR #14 AWG (FPL)	FOR CONNECTION TO STROBE CIRCUITS (VOICE SYSTEMS)
P	2 CONDUCTOR #14 AWG (FPL)	
T	2 CONDUCTOR #14 AWG (FPL)	FOR UNSWITCHED 24VDC POWER
Y	1 GROUND #12 THIN GREEN, 1 COMMON #12 THIN WHITE, 1 COLOR #12 FPL	FOR CONNECTION PAD-3 (POWER BOOSTERS) FOR AC POWER
JR	1 PAIR CONDUCTOR #18 TWISTED AWG FPL	PHONE RISER
NR	1 PAIR #18 AWG TWISTED (FPLX)	FOR CONNECTION TO NETWORK RISER H-NET
CAN	1 PAIR #18 AWG FPL TWISTED/SHEATHED	FOR CAN BUS TO ANNUNCIATOR

NOTES:  
1. NOT ALL WIRE TYPES SHOWN IN WIRE LEGEND ARE NECESSARILY BEING USED.  
2. IN FREE WIRE SYSTEM FPL WIRE SHALL BE USED INSTEAD OF THIN WIRE.

**FIRE ALARM NOTES - XLSV SYSTEM**

- ALL WIRING MUST CONFORM WITH NEC ARTICLE 760 AND LOCAL CODES. ALL EQUIPMENT SHALL BE UL LISTED. ALL DEVICES SHALL BE COMPATIBLE WITH THE EXISTING CONTROL PANELS. SYSTEM IS POWER LIMITED PER NEC 760 AND UL 864 REQUIREMENTS.
- CONDUCTOR SIZE: PER MANUFACTURER RECOMMENDATIONS. (SEE WIRE LEGEND).
- MINIMUM CONDUIT SIZE WILL BE 3/4". CONDUIT SHALL BE NO MORE THAN 40% FILLED PER NEC REQUIREMENTS.
- EQUIPMENT: SIEMENS OR EQUAL.
- ALL COMPONENTS SHALL BE UL APPROVED FOR FIRE SERVICE USE AND SHALL BE COMPATIBLE.
- FIRE ALARM SYSTEM SHALL BE "POWER LIMITED".
- CABLE PENETRATION INTO OR THROUGH PLENUM AREAS FOR USED FOR TRANSFER OF ENVIRONMENTAL AIR SHALL BE "PLP" TYPE OR OF AN APPROVED TYPE IN ACCORDANCE WITH SECTION 760.2 OF THE NEC.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE FIRE ALARM/VOICE COMMUNICATION SYSTEM AS PER THE NFPA 72, NFPA 101, AND LOCAL FIRE MARSHALL REQUIREMENTS. SUBMIT SHOP DRAWINGS FOR APPROVAL.
- FOR SPEAKER LOCATION SEE CORRESPONDING FLOOR PLANS.
- FOR ADDITIONAL DEVICES NOT SHOWN ON THIS RISER DIAGRAM SEE CORRESPONDING FLOOR PLANS.
- ALL INITIATING AND INDICATING CIRCUITS MUST BE SUPERVISED.
- CIRCUIT POLARITY MUST BE OBSERVED.
- WIRE RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATION OF ALL EQUIPMENT TO BE DETERMINED IN THE FIELD, BUT SHALL CONFORM WITH THE BASIC LAYOUT AS SHOWN ON DRAWINGS TO PREVENT CIRCUIT OVERLOAD.
- DO NOT MARK ID NUMBERS ON DEVICES. LABEL BASE ONLY.
- THE FIRE ALARM CONTROL PANEL SHALL NOT BE USED TO POWER ANY UNAUTHORIZED EXTERNAL DEVICE.
- ANALOG SMOKE DETECTORS SHALL BE CAPABLE OF EMPLOYING A RELAY BASE.
- FLOOR PLAN AND RISER DO NOT SHOW ALL REQUIRED DEVICES FOR COMPLETE SYSTEM FUNCTIONALITY. CONTRACTOR MUST COORDINATE WITH ALL DISCIPLINES (MECHANICAL, PLUMBING AND FIRE PROTECTION) FOR ANY FIRE ALARM CONNECTIONS REQUIRED.
- FIRE ALARM SHALL BE MONITORED BY OFF SITE MONITORING STATION (FBO). SYSTEM SHALL BE UL CERTIFIED.
- ELECTRICAL CONTRACTOR MUST SET ADDRESSES FOR ADDRESSABLE DEVICES PRIOR TO INSTALLING THE DEVICE.
- FIRE ALARM POWER SUPPLIES AND ALL REMOTE SUPPLIES MUST BE CONNECTED TO BUILDING OR COLD WATER GROUND VIA 1 GREEN #10 THIN OR EQUIV.
- FIRE ALARM INITIATING DEVICES SHALL NOT BE INSTALLED UNTIL CLEAN-UP OF ALL TRADES ARE COMPLETE. FAILURE TO COMPLY WITH THIS NOTE WILL VOID ALL WARRANTIES.
- ALL CABLE SHIELDING MUST BE CONTINUOUS AND FREE OF GROUNDS OR SHORTS THROUGHOUT ENTIRE CIRCUITS.
- EVACUATION SIGNALS SHALL BE VIA PRE-RECORDED VOICE ANNOUNCEMENTS IN ACCORDANCE WITH NFPA 101.
- VERIFY ALL MOUNTING HEIGHTS WITH AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.
- CIRCUITS LEAVING THE FIRE ALARM CONTROL AND ANY REMOTE PANELS MUST BE INSTALLED TO BE PROTECTED FROM PHYSICAL DAMAGE, AS WELL AS ATTACK BY FIRE BY PROVIDING 2 HOUR RATED PROTECTION AS PER NFPA 72.
- INSTALL ALL SMOKE AND HEAT DETECTORS AT A MINIMUM OF 36" FROM ANY SUPPLY AIR DIFFUSER TO AVOID SMOKE TO BE BLOWN AWAY BY DIFFUSER PRIOR TO BEING PICKED UP BY INITIATING DEVICE.
- PROVIDE DUCT SMOKE DETECTORS AT EVERY SUPPLY AND RETURN AIR DUCTS AS REQUIRED.

REFER TO MECHANICAL PLANS FOR DUCT SMOKE DETECTOR LOCATIONS



**1 FIRE ALARM RISER DIAGRAM**  
NTS