

SYMBOL	DESCRIPTION
	FIRE ALARM CONTROL PANEL
	REMOTE ANNUCIATOR PANEL
	AREA SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	FIRE ALARM SYSTEM HORN ONLY UNIT
	FIRE ALARM SYSTEM STROBE UNIT ONLY, CEILING MOUNTED
	FIRE ALARM SYSTEM STROBE UNIT ONLY, CANDELA RATING SHALL BE 15cd, UNO ON PLANS.
	FIRE ALARM SYSTEM HORN/STROBE UNIT, CANDELA RATING SHALL BE 15cd, UNO ON PLANS.
	MANUAL FIRE ALARM PULL STATION

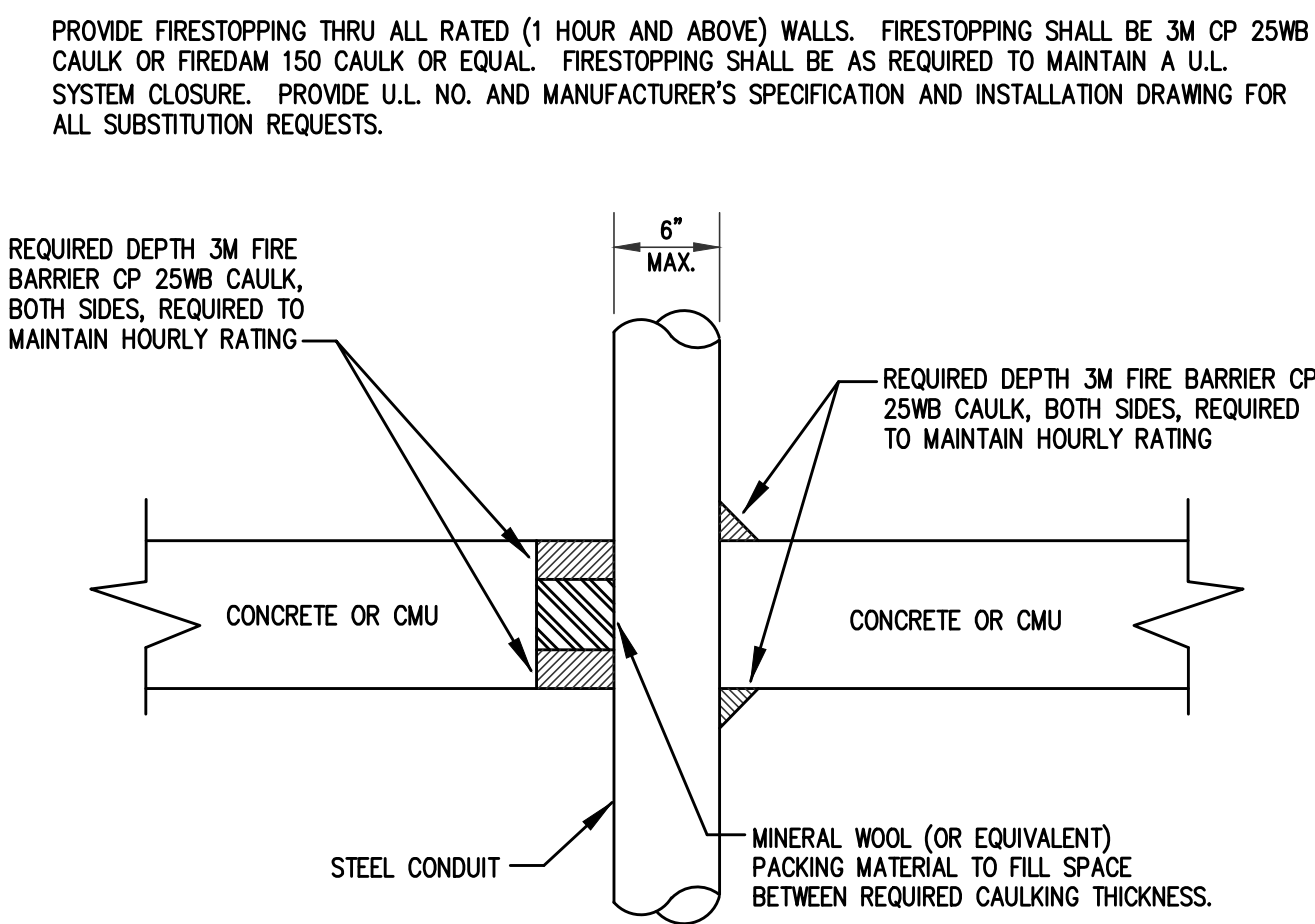
**ABBREVIATIONS:**

<b>AFF</b> ABOVE FINISH FLOOR	<b>MFR</b> MANUFACTURER
<b>ACH</b> ABOVE COUNTER HEIGHT	<b>NTS</b> NOT TO SCALE
<b>BKR</b> BREAKER	<b>PNL</b> PANEL
<b>CU</b> COPPER	<b>RECP</b> RECEPTACLE (R.)
<b>CKT</b> CIRCUIT	<b>REQD</b> REQUIRED
<b>DWG</b> DRAWING	<b>SW</b> SWITCH
<b>EC</b> ELECTRICAL CONTRACTOR	<b>UNO</b> UNLESS NOTED OTHERWISE
<b>FWE</b> FURNISHED WITH EQUIPMENT	<b>W/</b> WITH

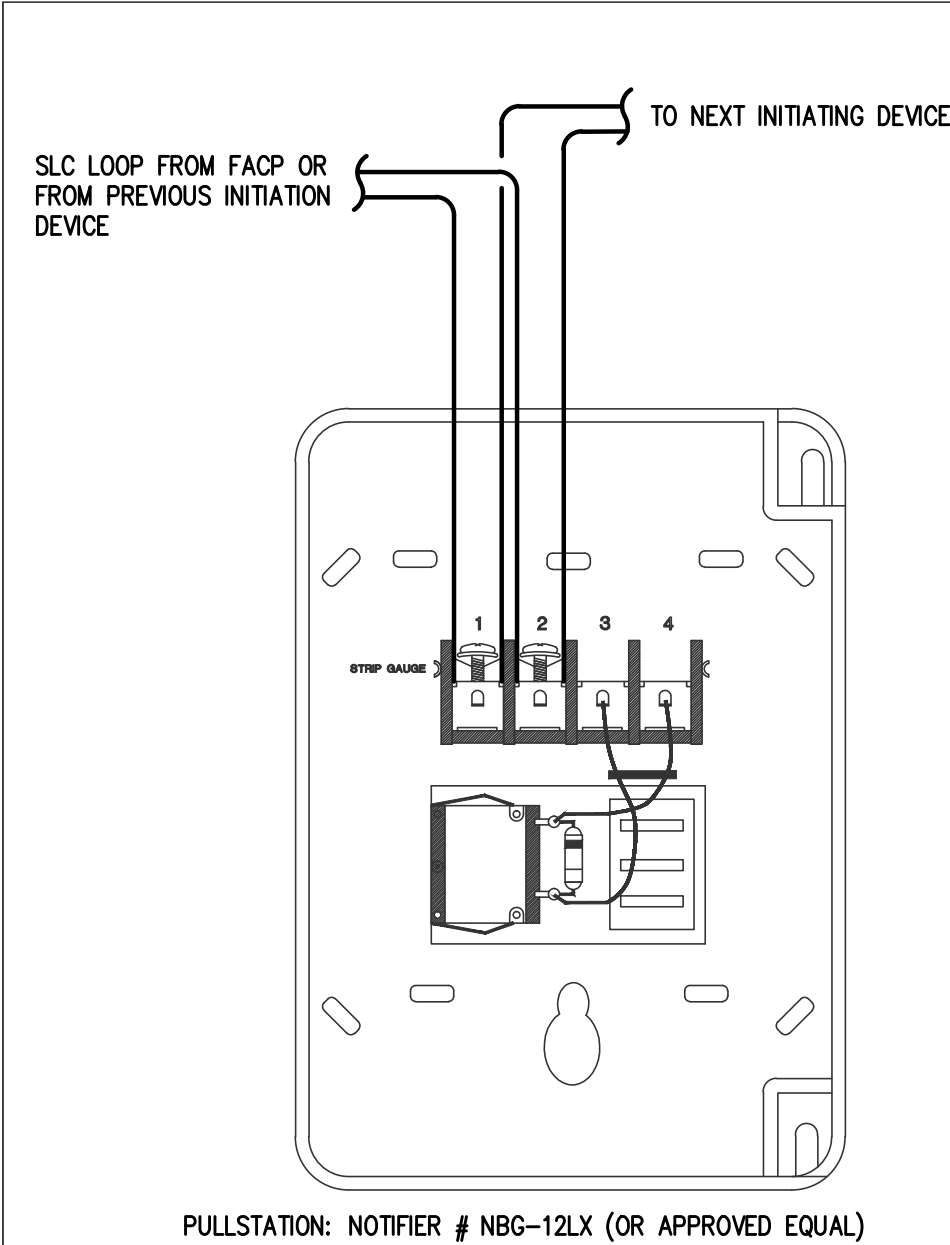
**ELECTRICAL GENERAL NOTES:**

- INSPECT SITE PRIOR TO SUBMITTING BID. DRAWINGS ARE INTENDED TO COVER THE REQUIRED ELECTRICAL SYSTEMS. DRAWINGS MAY NOT SHOW COMPLETE OR ACCURATE DETAILS OF THE BUILDING OR SYSTEM IN EVERY RESPECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY ADDITIONAL INFORMATION AS REQUIRED.
- CONFORM TO THE NATIONAL ELECTRICAL CODE (2008), IBC (2009), APPLICABLE NEMA, ANSI AND IEEE PUBLICATIONS, U.L. AND ADA STANDARDS AND OSHA REQUIREMENTS. COMPLY WITH LOCAL, COUNTY, STATE AND NATIONAL CODES HAVING JURISDICTION.
- FURNISH AND INSTALL ALL MATERIALS IN A NEAT AND WORKMANLIKE FASHION. ALL MATERIALS SHALL BE NEW, WITH FIRST QUALITY AND UL LABEL.
- VERIFY ALL DIMENSIONS AND CLEARANCES PRIOR TO INSTALLATION OF EQUIPMENT AND RACEWAYS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK WITH THAT OF ALL OTHER TRADES AS REQUIRED.
- CONDUIT SHALL BE EMT FOR BRANCH CIRCUIT WIRING AS ALLOWED BY NEC, EXCEPT THAT SET SCREW OR CRIMP FITTINGS ARE NOT ALLOWED. WHERE EXPOSED TO PHYSICAL DAMAGE CONDUITS SHALL BE RIGID GALVANIZED STEEL. MINIMUM CONDUIT SIZE SHALL BE 3/4". ALL CONDUCTORS SHALL BE TYPE THHN/THWN, STRANDED BODY COPPER BUILDING WIRE. MINIMUM SIZE SHALL BE #12 AWG COPPER UNLESS NOTED. UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 WITH TRANSITION TO RIGID GALVANIZED STEEL FOR EXPOSED CONDUITS.
- PROVIDE GROUNDING FOR ALL EQUIPMENT IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE. GROUND SERVICE TO BUILDING STEEL, DRIVEN GROUND ROD AND COLD WATER PIPE.
- ALL ENCLOSURES SHALL BE OF THE NEMA TYPE WHICH IS SUITABLE FOR THE APPLICATION.
- SEAL ALL CONDUIT PENETRATIONS TO MATCH RATING OF WALL BEING PENETRATED.
- THOROUGHLY CLEAN ALL EQUIPMENT AND SYSTEMS BEFORE PLACING IN OPERATION. RESTORE FINISHED SURFACES IF DAMAGED AND DELIVER THE ENTIRE INSTALLATION IN AN APPROVED CONDITION. INSTRUCT THE OWNERS' PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF THE SYSTEMS. FURNISH TO THE OWNER THREE SETS OF OPERATION AND MAINTENANCE MANUALS FOR EACH SYSTEM.
- GUARANTEE THE WORK INSTALLED FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE. DEFECTS WHICH APPEAR AS A RESULT OF NORMAL USAGE SHALL BE REMEDIED BY THE CONTRACTOR TO THE COMPLETE SATISFACTION OF THE OWNER WITHOUT COST TO THE OWNER.
- CONTRACTOR SHALL KEEP CURRENT A SET OF PLANS FOR THE DURATION OF CONSTRUCTION WITH ALL CHANGES TO WORK NEATLY AND ACCURATELY MARKED IN RED AND SHALL TURN OVER TO OWNER AT COMPLETION OF PROJECT.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO MEET SEISMIC REQUIREMENTS OF 2009 IBC AND SHALL BE SUBJECT TO SPECIAL INSPECTION REQUIREMENTS, CHAPTER 17 OF 2009 IBC AS IT RELATES TO ELECTRICAL EQUIPMENT.

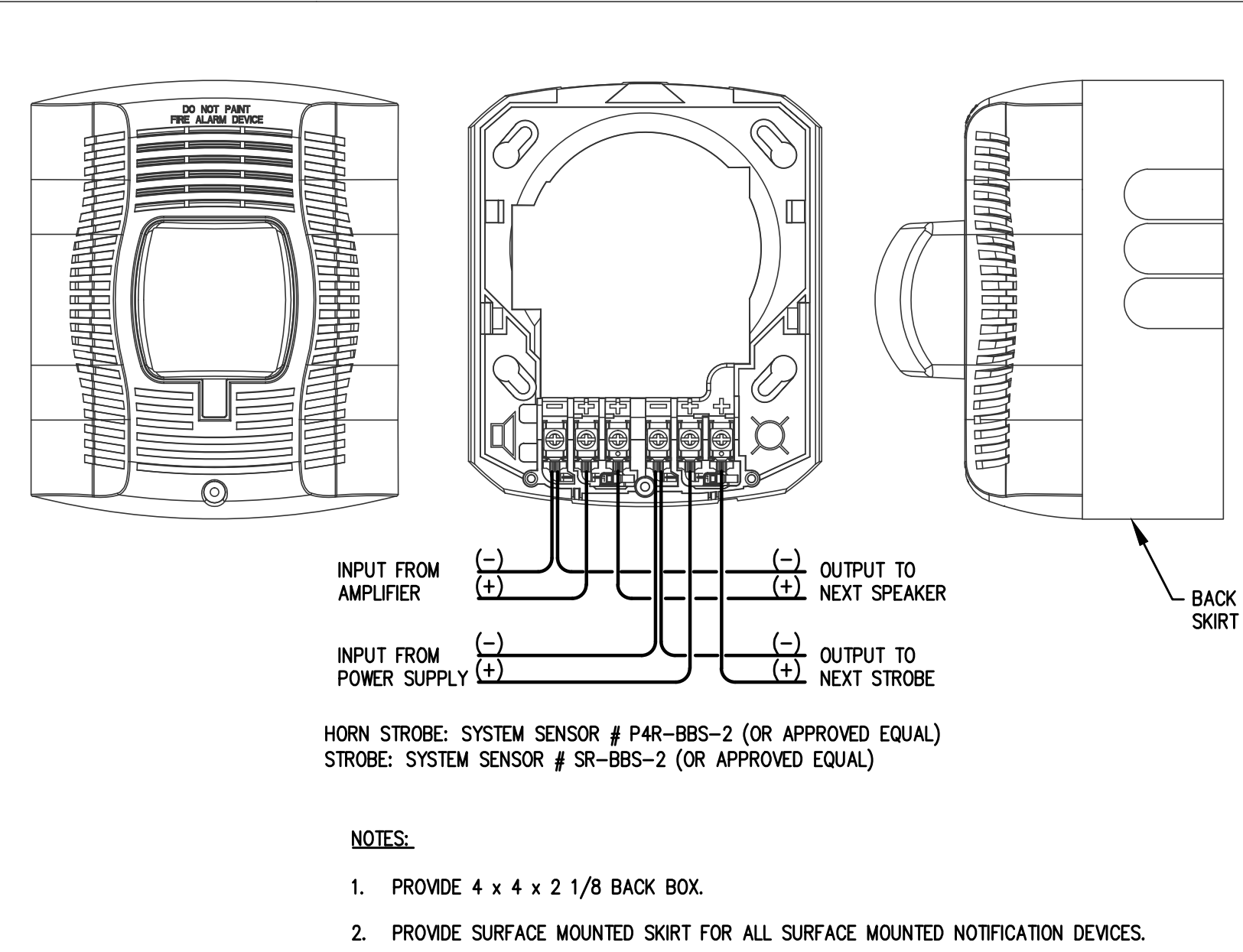
FIRE ALARM SYSTEM MATRIX	BUILDING SYSTEM OUTPUTS	CENTRAL COMM.
MANUAL FIRE ALARM PULL BOXES	ACTIVATE COMMON ALARM SIGNAL INDICATOR	SHOW CHANGE OF STATUS ON ANNUNCIATOR
AUTOMATIC INITIATION DEVICES	ACTIVATE ALARM SIGNAL INDICATOR	SHOW CHANGE OF STATUS ON CENTRAL PANEL
CORRIDOR SMOKE DETECTOR	ACTIVATE COMMON SUPERVISORY SIGNAL	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION
SLEEPING AREA SMOKE DETECTOR	ACTIVATE COMMON SUPERVISORY SIGNAL	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION
DUCT SMOKE DETECTOR	ACTIVATE COMMON TROUBLE SIGNAL	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION
ELEV. EQ. RMS & 1st FLR ELEV. LOBBY SMOKES	ACTIVATE LOCAL ALARM SIGNAL	
ELEV. SHAFT & UPPER FLRS ELEV. LOBBY SMOKES	ACTIVATE GENERAL EVACUATION SIGNAL	
ELEV. SHAFT & ELEV. EQ. RM. HEAT DETECTORS	ACTIVATE EXTERIOR HORN/STROBE	
SPRINKLER WATER FLOW	ACTIVATE EXTERIOR HORN/STROBE	
SPRINKLER TAMPER	ACTIVATE EXTERIOR HORN/STROBE	
FIRE ALARM A.C. POWER FAILURE	ACTIVATE EXTERIOR HORN/STROBE	
FIRE ALARM SYSTEM LOW BATTERY	ACTIVATE EXTERIOR HORN/STROBE	
OPEN CIRCUIT	ACTIVATE EXTERIOR HORN/STROBE	
GROUND FAULT	ACTIVATE EXTERIOR HORN/STROBE	
NOTIFICATION APPLIANCE CIRCUIT SHORT	ACTIVATE EXTERIOR HORN/STROBE	



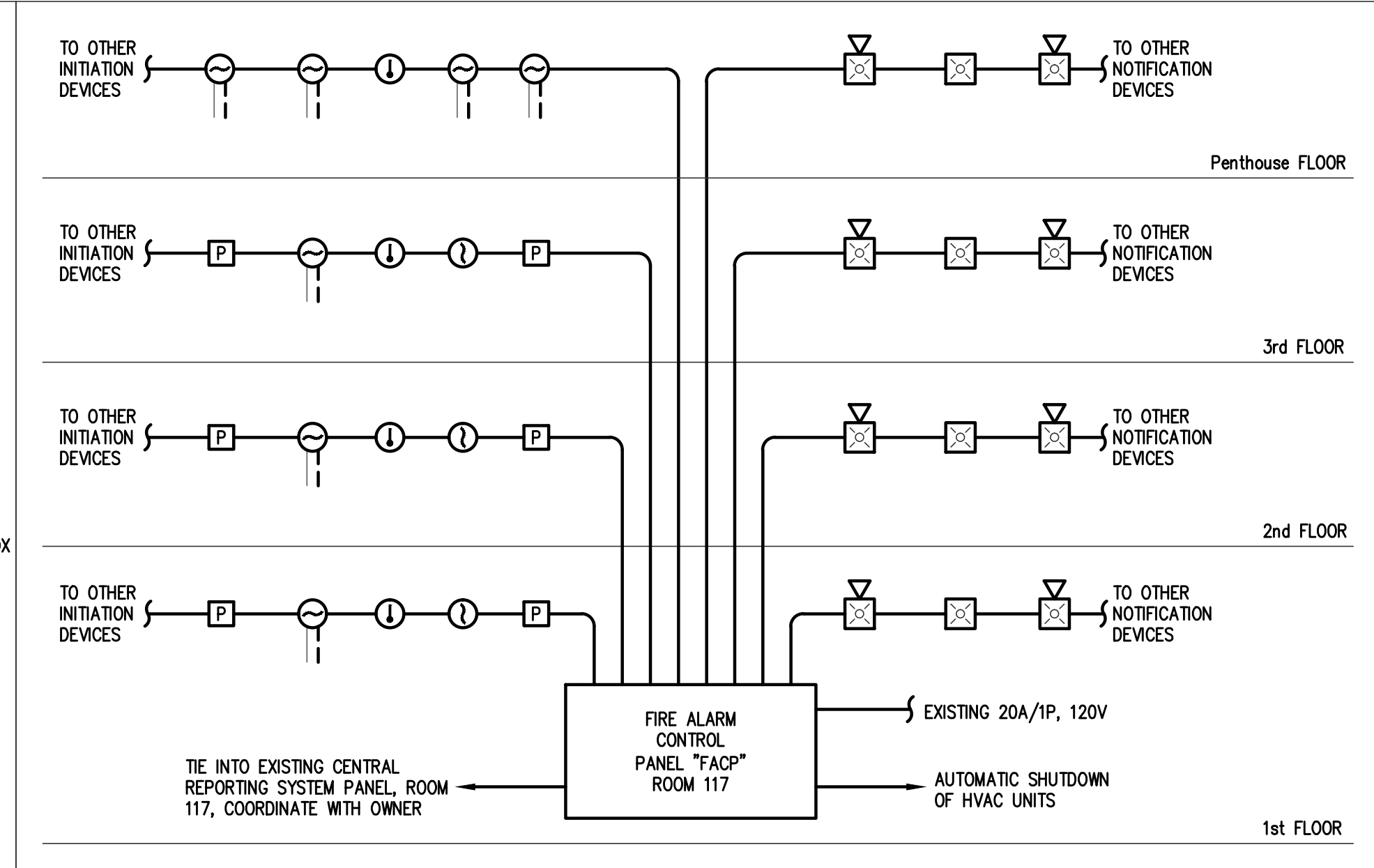
TYPICAL CONDUIT SLEEVE DETAIL A



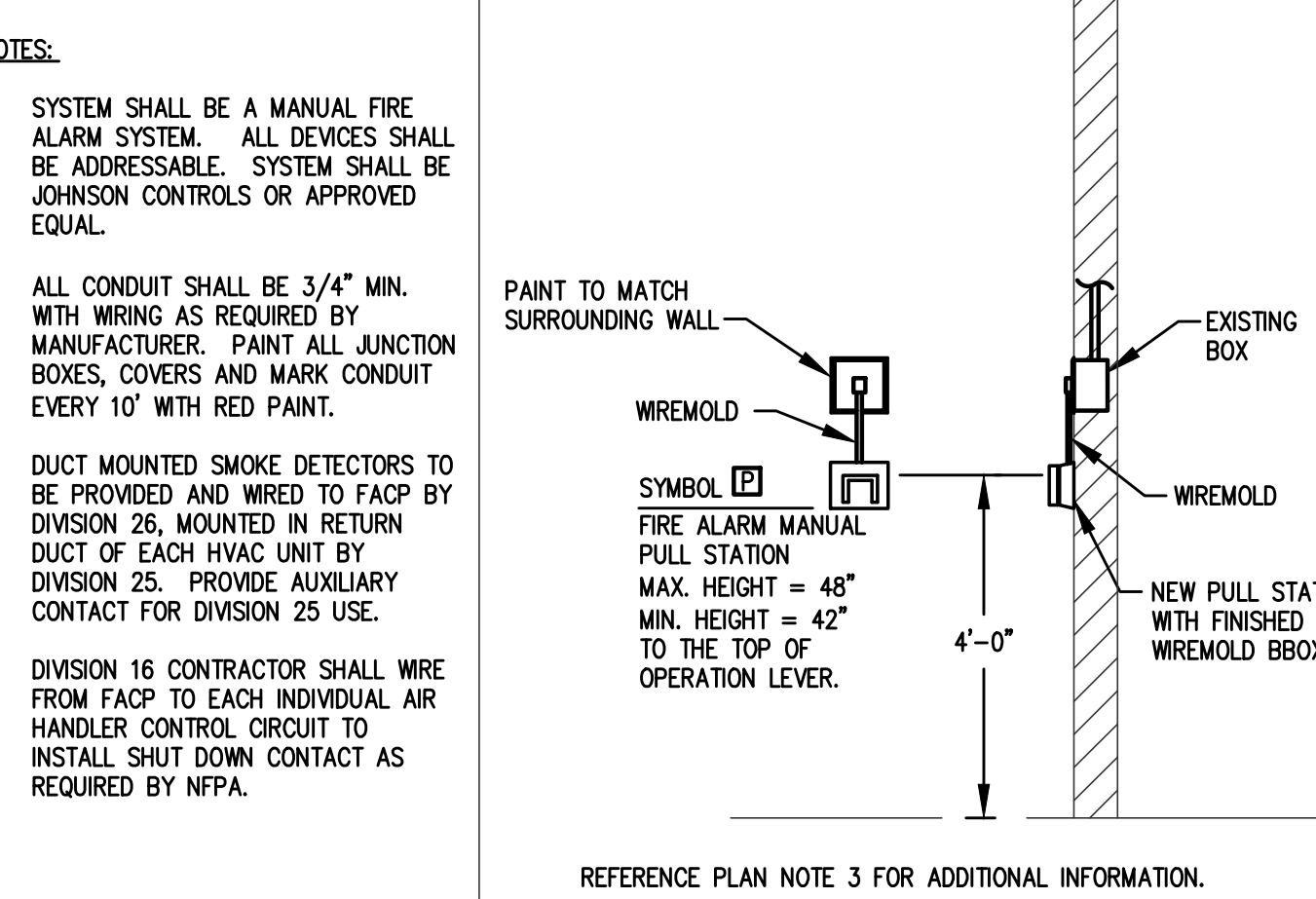
MANUAL PULL STATION B



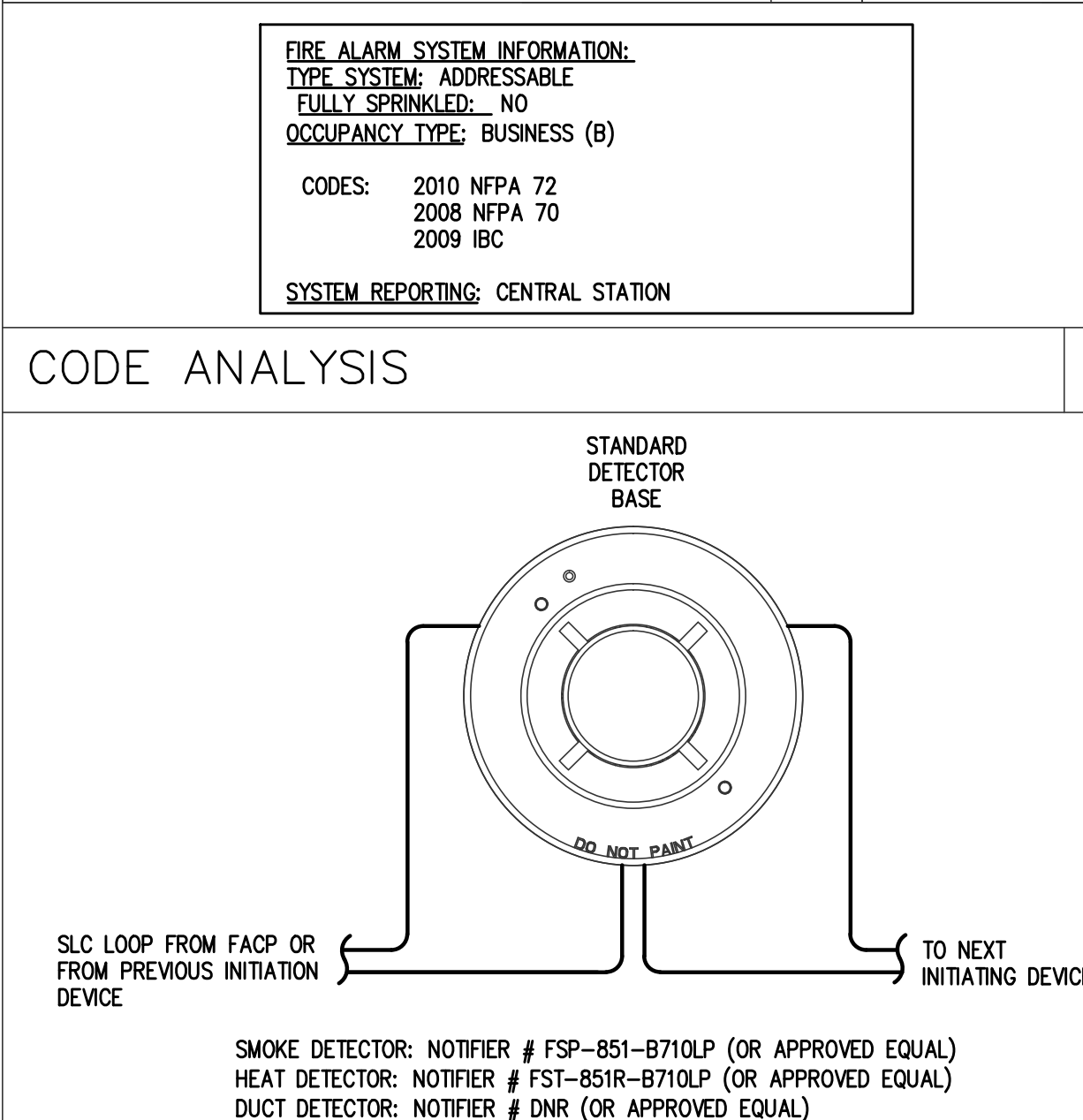
SPEAKER/HORN STROBE C



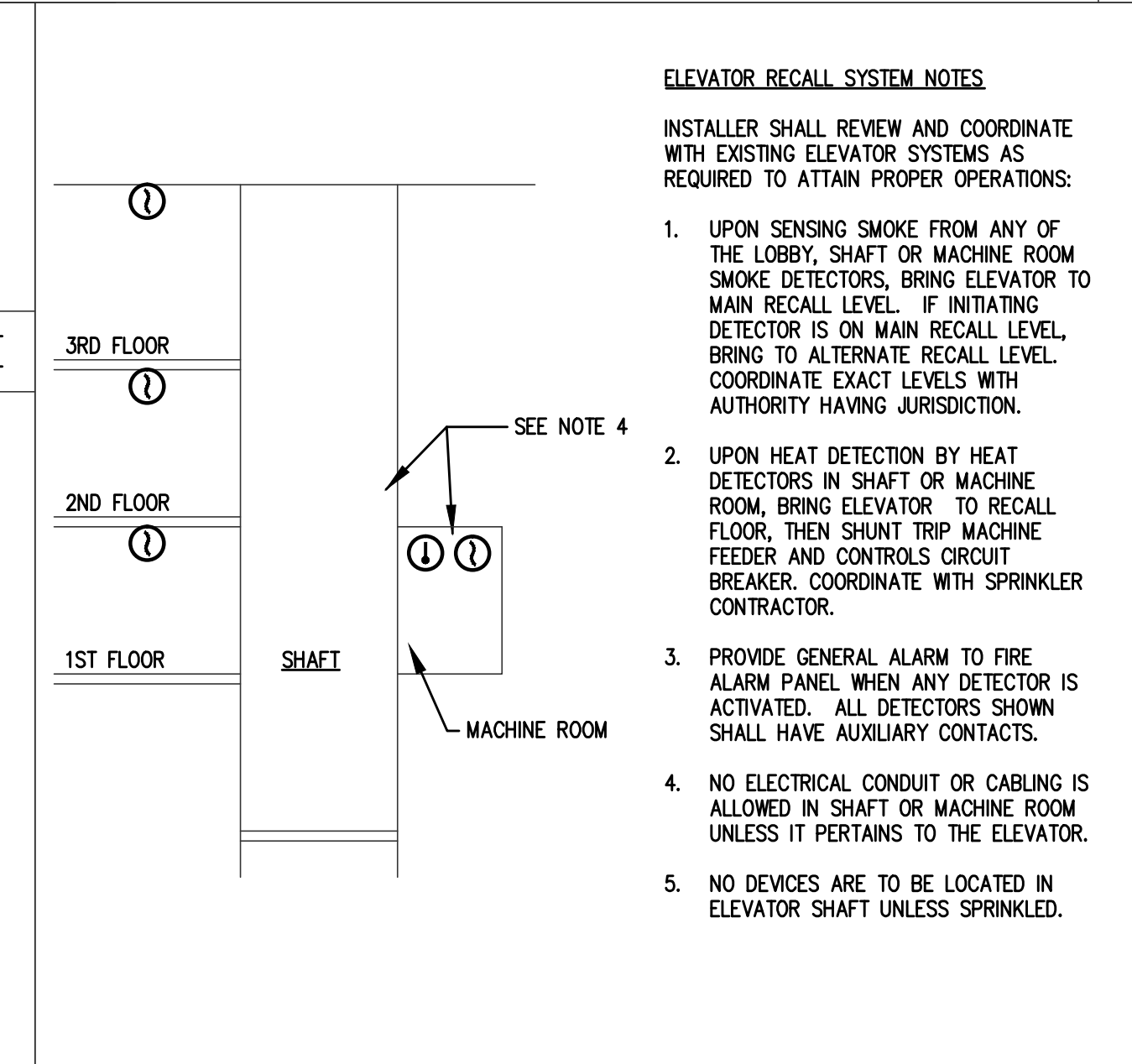
FIRE ALARM RISER DIAGRAM D



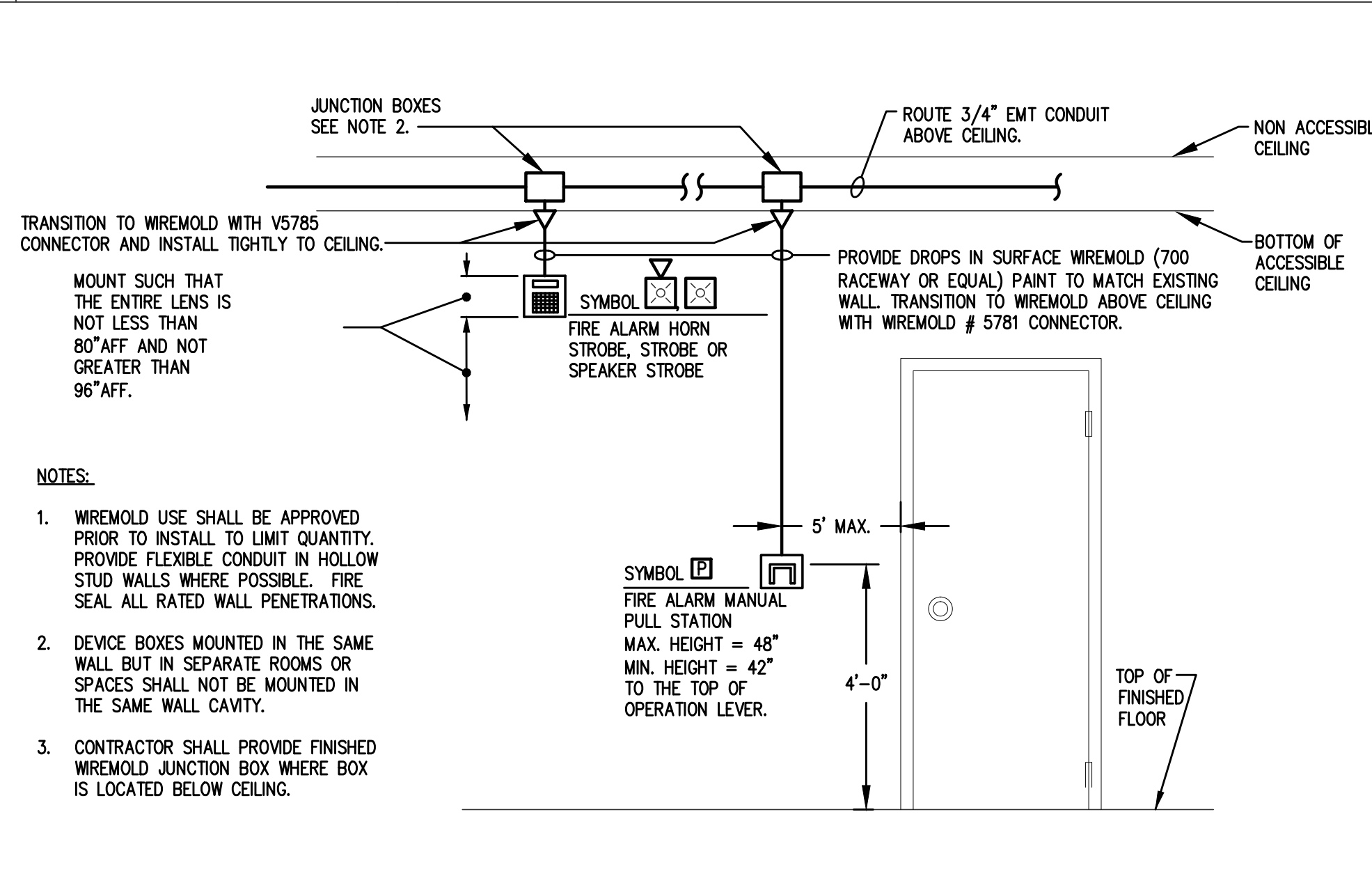
PULLSTATION ELEVATION J



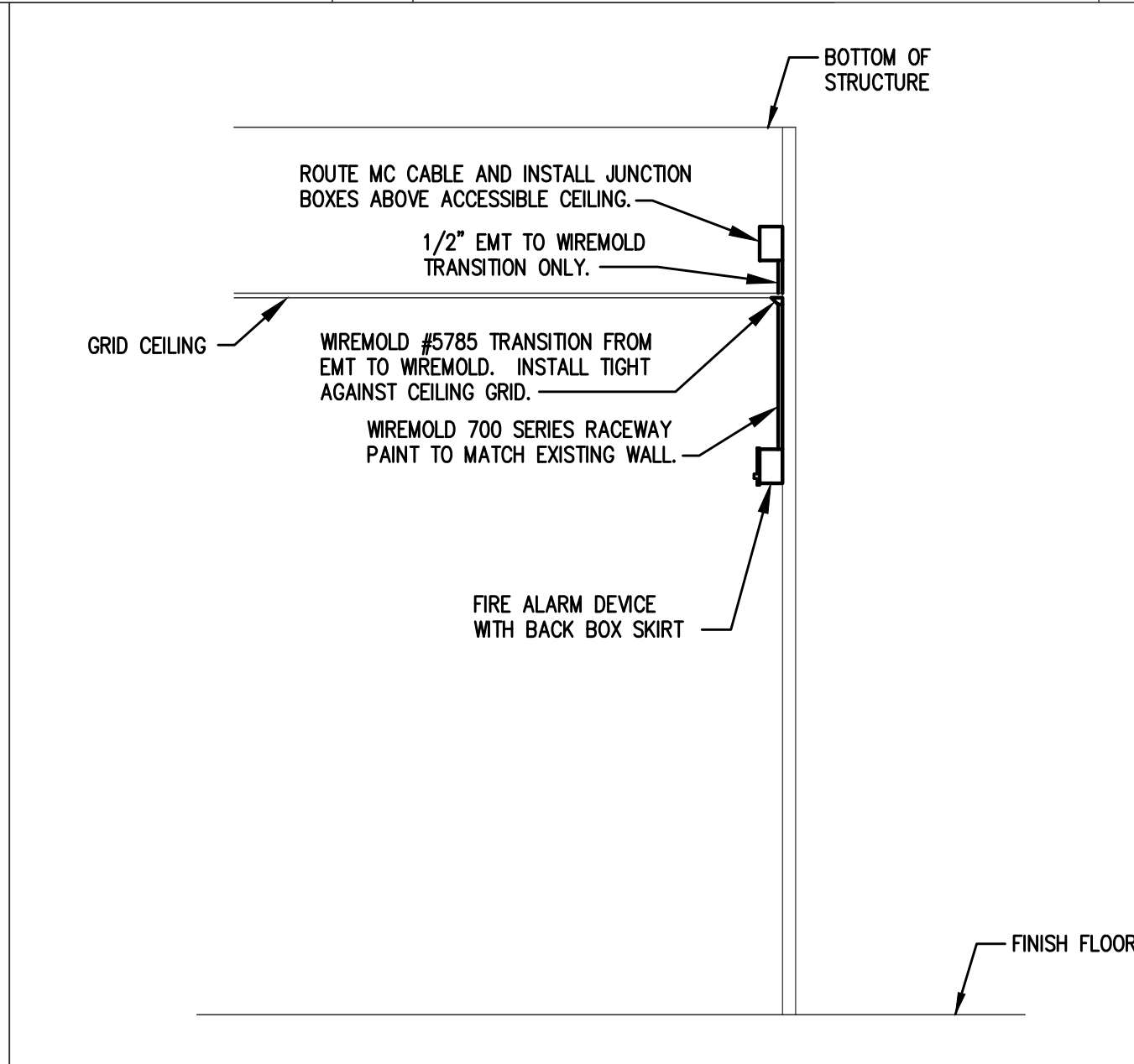
SMOKE, HEAT OR DUCT DETECTOR F



ELEVATOR RECALL SYSTEM G



TYPICAL DEVICE MOUNTING HEIGHT H



TYPICAL WALL SECTION I

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REVISION	DATE	BY
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B	2/8/13	JDV

UNIVERSITY OF SC UPSTATE  
 MEDIA BUILDING  
 FIRE ALARM REPLACEMENT  
 SC PROJECT NO. H24-137  
 SPARTANBURG, SOUTH CAROLINA