

GENERAL MATRIX NOTE:

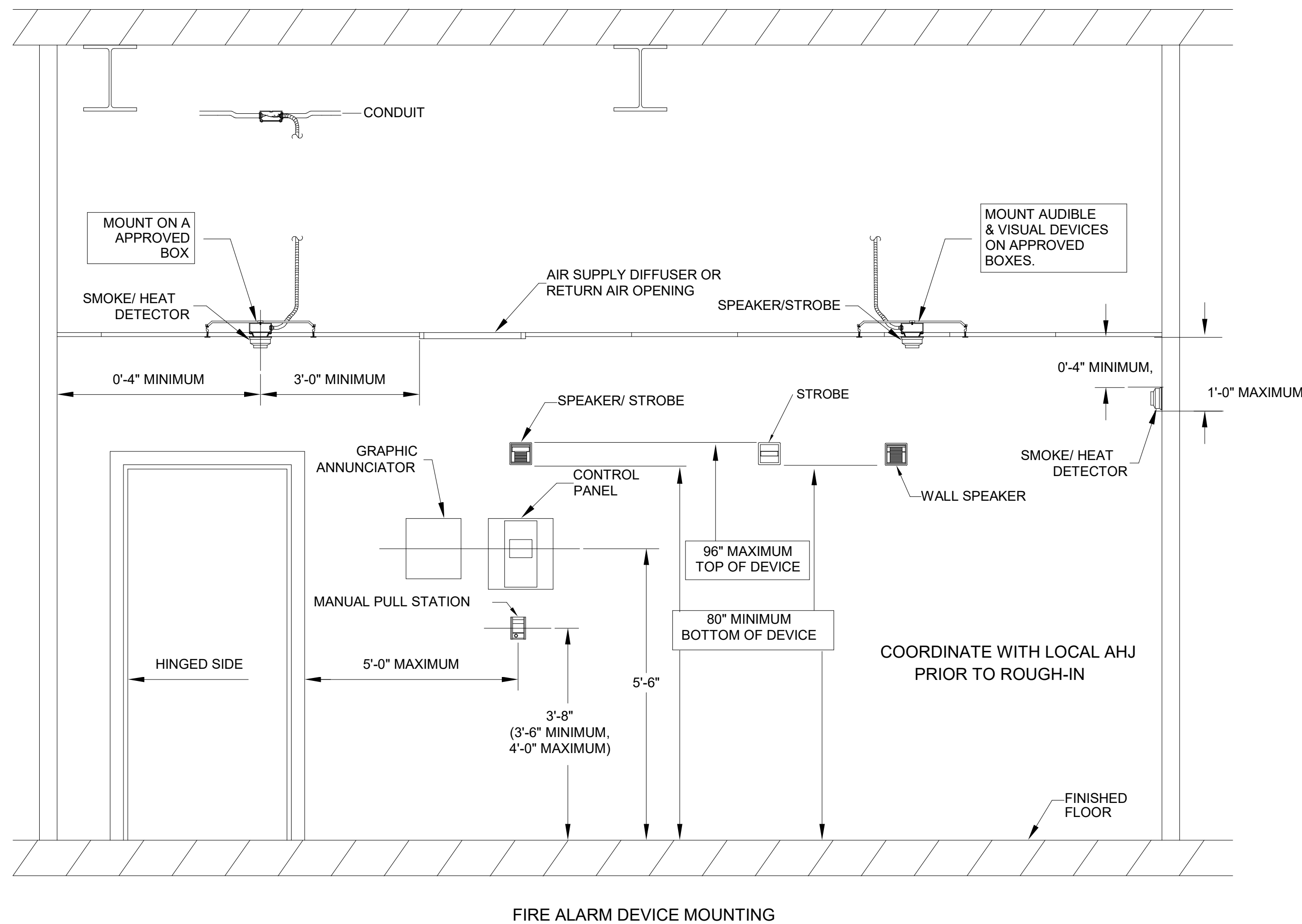
A. VERIFY OPERATION WITH LOCAL AHU PRIOR TO PROGRAMMING.

SYSTEM INPUTS

		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
1	MANUAL PULL STATIONS GROUND FLOOR	o	o					o	o			o	o													1
2	MANUAL PULL STATIONS FIRST FLOOR	o	o					o	o			o	o													2
3	MANUAL PULL STATIONS MECHANICAL PLATFORM	o	o					o	o			o	o													3
4	SMOKE DETECTORS GROUND FLOOR	o	o					o	o			o	o													4
5	SMOKE DETECTORS FIRST FLOOR	o	o					o	o			o	o													5
6	SMOKE DETECTORS MECHANICAL PLATFORM	o	o					o	o			o	o													6
7	HEAT DETECTORS GROUND FLOOR	o	o					o	o			o	o													7
8	HEAT DETECTORS FIRST FLOOR	o	o					o	o			o	o													8
9	HEAT DETECTORS MECHANICAL PLATFORM	o	o					o	o			o	o													9
10	DUCT DETECTORS	o	o					o	o			o	o													10
11	AHU OVERRIDE SWITCH			o	o						o	o														11
12	TAMPER SWITCH @ PIV			o	o						o	o														12
13	TAMPER SWITCHES AT SPRINKLER RISERS			o	o						o	o														13
14	FLOW SWITCH AT SPRINKLER RISERS	o	o					o	o			o	o													14
15	FIRE ALARM SYSTEM AC POWER FAILURE					o	o				o	o														15
16	FIRE ALARM SYSTEM LOW BATTERY					o	o				o	o														16
17	NAC PANEL(S) LOW BATTERY					o	o				o	o														17
18	OPEN CIRCUIT					o	o				o	o														18
19	GROUND FAULT					o	o				o	o														19
20	NOTIFICATION APPLIANCE SHORT CIRCUIT					o	o				o	o														20
21	TEMPERATURE SENSOR @ FIRELINE BACKFLOW PREVENTER					o	o				o	o														21
22	CARBON MONOXIDE DETECTOR					o	o				o	o				o	o									22
23	BDA - LOSS OF NORMAL AC POWER			o							o	o														23
24	BDA - SYSTEM BATTERY CHARGER FAILURE			o							o	o														24
25	BDA - MALFUNCTION OF DONOR ANTENNAS			o							o	o														25
26	BDA - FAILURE OF ACTIVE RF EMITTING DEVICES			o							o	o														26
27	BDA - LOW BATTERY CAPACITY AT 70% REDUCTION OF OPERATING CAPACITY			o							o	o														27
28	BDA - FAILURE OF CRITICAL EQUIPMENT COMPONENTS			o							o	o														28
29	BDA - OSCILLATION OF ACTIVE OF RF EMITTING DEVICES			o							o	o														29
30	BDA - COMMUNICATION LINE BETWEEN FIRE ALARM SYSTEM AND THE IN BUILDING TWO-WAY EMERGENCY RESPONDER COMMUNICATIONS COVERAGE SYSTEM			o							o	o														30

3 FIRE ALARM SYSTEM OPERATIONAL MATRIX DETAIL
NOT TO SCALE

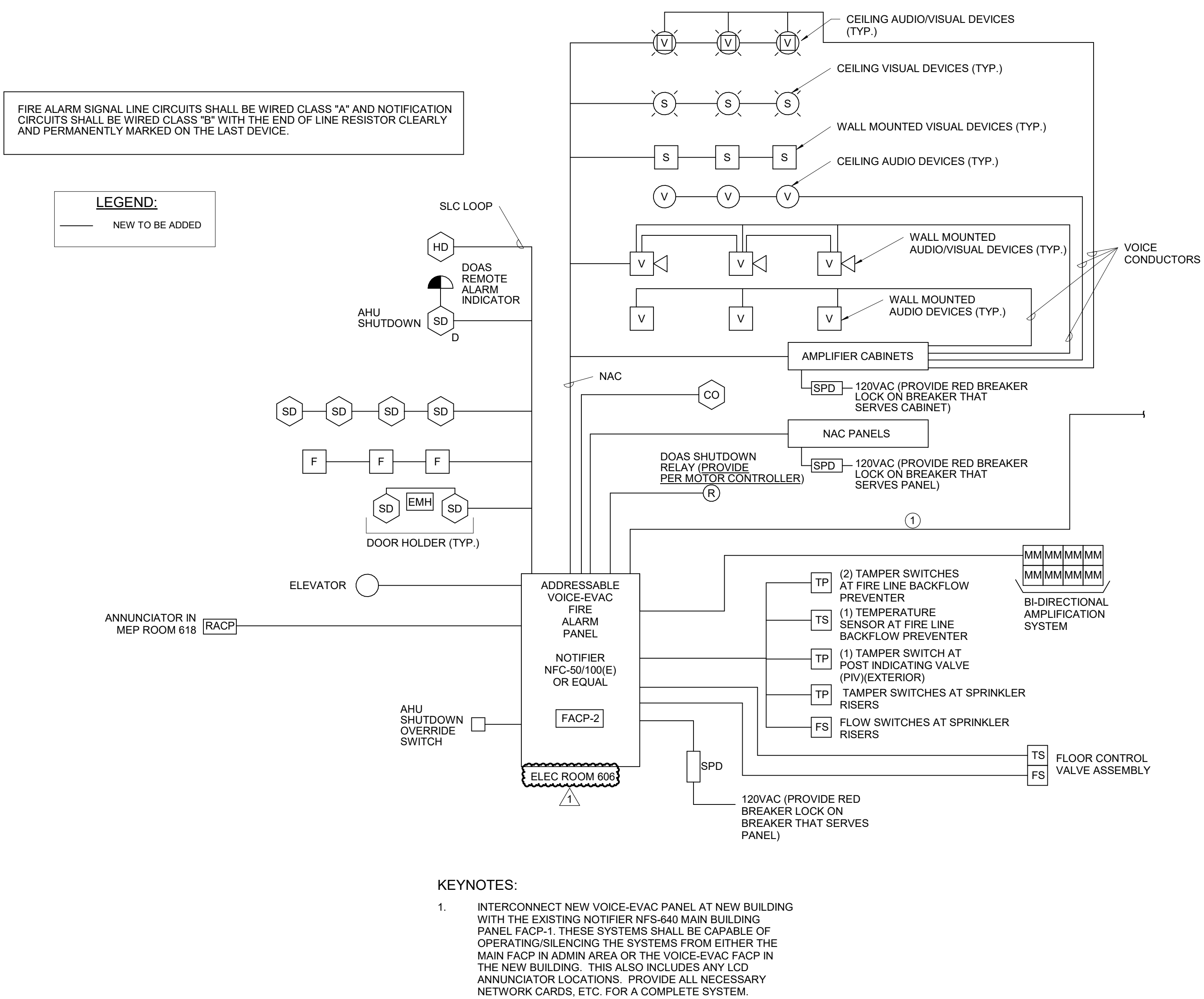
NFPA 72 AND ADA DEVICE
INSTALLATION REQUIREMENTS



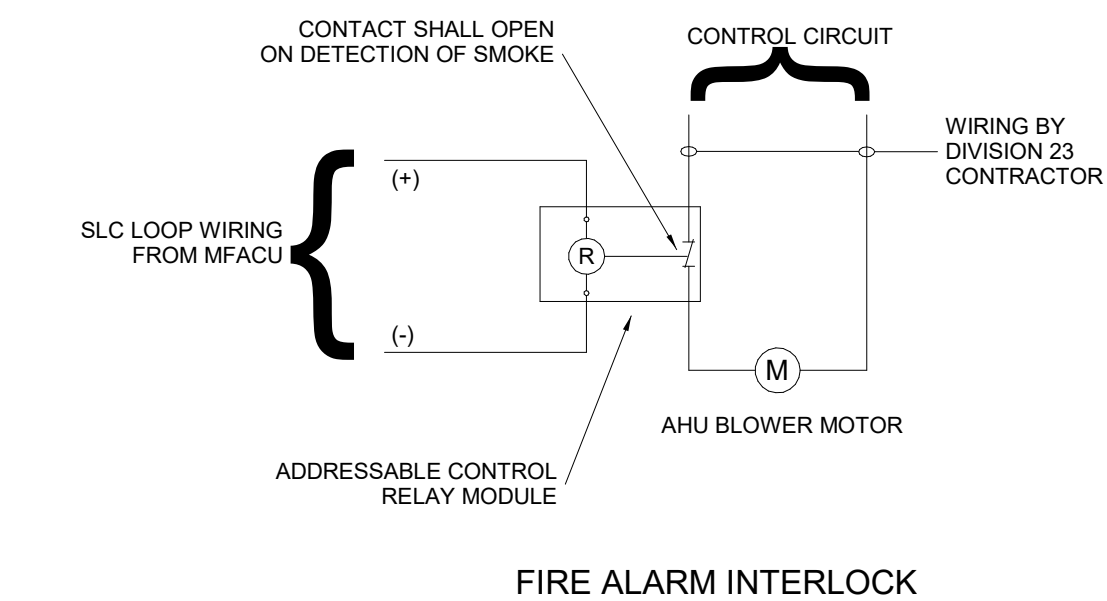
2 FIRE ALARM DEVICE MOUNTING DETAIL
NOT TO SCALE

GENERAL FIRE ALARM RISER NOTES:

- REFER TO ARCHITECT'S SPECIFICATIONS 012300 FOR OWNER'S PREFERRED MANUFACTURER, NOTIFIER, FOR FIRE ALARM SYSTEM.
- SEE PLANS FOR LOCATIONS AND QUANTITIES OF ALL DEVICES.
- ALL WIRING SHALL BE IN MINIMUM 3/4\"/>
- BATTERY CALCULATIONS ARE REQUIRED WITH ALL SUBMITTALS.
- TEST RESULTS ARE REQUIRED FOR ALL DEVICES.
- PROVIDE SHUT-DOWN DEVICES FOR NEW AIR HANDLERS, FAN COIL UNITS AND SUPPLY FANS OF ALL MECHANICAL EQUIPMENT.
- VERIFY ROOM NUMBERS WITH ARCHITECT PRIOR TO PROGRAMMING SYSTEM.
- RAAP SHALL BE SEMI-RECESSED WITH INTEGRAL PUSH-TO-TALK MICROPHONE AND ZONE SELECTION SWITCHES.
- A SMOKE DETECTOR SHALL BE MOUNTED WITHIN 15'-0\"/>
- IF ANY ARCHITECTURAL CHANGES ARE MADE THAT SHALL AFFECT ANY DEVICE PLACEMENT, THIS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO INSTALLATION.
- THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE SHALL BE NICET LEVEL 3 CERTIFIED AND HAVE AT LEAST 2 YEARS OF EXPERIENCE INSTALLING FIRE ALARM SYSTEMS. NOTE: PROJECT MANAGER SHALL BE NICET LEVEL 4 CERTIFIED AND HAVE AT LEAST 5 YEARS EXPERIENCE INSTALLING FIRE ALARM SYSTEMS.
- THE SHOP DRAWINGS SUBMITTALS FOR DEVICE LOCATIONS SHALL BE SUBMITTED TO ENGINEER AND LOCAL (AHJ) FIRE MARSHALL PRIOR TO ANY INSTALLATION/ROUGH-IN FOR FIRE ALARM DEVICES.
- WIRING DIAGRAMS, LOCATION DRAWINGS, DEVICE CUT SHEETS AND VOLTAGE DROP CALCULATIONS ARE REQUIRED WITH ALL SUBMITTALS.
- THE FIRE ALARM SYSTEM PROVIDER SHALL PROVIDE ALL DOCUMENTATION AS SPECIFIED IN THE INTERNATIONAL FIRE CODE SECTION 907 REQUIREMENTS AS PART OF HIS SHOP DRAWING SUBMITTALS.



1 FIRE ALARM RISER - GYMNASIUM
NOT TO SCALE



THE FIRE ALARM CONTRACTOR SHALL PROVIDE A FIRE ALARM RELAY FOR THE SUPPLY FAN(S) AT EACH AHU. THE RELAY SHALL BE WIRED DIRECTLY TO THE FAN VARIABLE FREQUENCY DRIVE FOR AHU SHUTDOWN BY THE BAS CONTRACTOR.

THE RELAY SHALL ALSO HAVE AN AUXILIARY CONTACT. THE BAS CONTRACTOR SHALL WIRE FROM THE AUXILIARY CONTACT TO THE BAS CONTROLLER TO MONITOR FA SHUTDOWN FOR THAT FAN ON THE BAS FRONT END.

FOR AHU RETURN FANS, THE SCOPE SHALL BE THE SAME AS FOR THE SUPPLY FANS. RETURN FANS DO NOT REQUIRE AN AUXILIARY CONTACT OR BAS MONITORING OF FA SHUTDOWN STATUS.

4 DOAS SHUTDOWN
NOT TO SCALE