

# STREETS OF WEST PRYOR

1020 NORTHWEST PRYOR ROAD  
LEE'S SUMMIT, MO 64081

## Fire Alarm System Drawings

DEVICE LEGEND					
SYMBOL	QUANTITY	MANUFACTURER	PART NO	DESCRIPTION	MOUNTING
	1	HONEYWELL	HPF-PS10B	10.0 A, 120 VAC REMOTE CHARGER POWER SUPPLY IN A LOCKABLE, BLACK METAL ENCLOSURE	SELF-CONTAINED IN LOCKABLE CABINET (20.0"H X 14.5"W X 3.5"D) 120VAC CIRCUIT IS REQUIRED.
	1	NOTIFIER	N-ANN-80	BLACK 80 CHARACTER LCD ANNUNCIATOR	SEMI-FLUSH MOUNT TO SINGLE, DOUBLE, OR 4" SQUARE ELECTRICAL BOX. USE ANN-SB80KIT FOR ANGLED VIEW MOUNTING.
	3	SYSTEM SENSOR	PC2RLED	2-WIRE, HORN STROBE, CEILING, RED	4" SQUARE BOX 1-1/2" DEEP, OR SURFACE MOUNT TO SBBCLR OR SBBOWL
	4	SYSTEM SENSOR	SCRLED	STROBE, CEILING, RED	4" SQUARE BOX 1-1/2" DEEP, OR SURFACE MOUNT TO SBBCLR OR SBBOWL
	3	SYSTEM SENSOR	SRLED	STROBE, WALL, RED	4" SQUARE BOX 1-1/2" DEEP, OR SURFACE MOUNT TO SBBRLR OR SBBWL.

CABLE AND WIRE LEGEND			
LABEL	RESISTANCE MFT	AWG	DESCRIPTION
B	3.070	14	14 AWG, 1 PAIR, SOLID, OVERALL JACKET (NAC - SIGNAL/STROBE)
J	7.770	18	18 AWG, 1 PAIR, SOLID, TWISTED, SHIELDED (DATA - ANNUNCIATOR OTHER THAN SLC)
L	3.070	14	14 AWG, 1 PAIR, SOLID, OVERALL JACKET (ANNUNCIATOR POWER)

SYSTEM INPUTS											SYSTEM OUTPUTS														
SYSTEM INPUTS											SYSTEM OUTPUTS														
1	2	3	4	5	6	7	8	9	10	11	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	MANUAL PULL STATION																								1
2	SMOKE DETECTOR																								2
3	WATERFLOW SWITCH																								3
4	DUCT DETECTOR (AT HVAC UNIT)																								4
5	VALVE TAMPER SWITCH																								5
6	FIRE ALARM CONTROL PANEL AC POWER FAILURE																								6
7	FIRE ALARM CONTROL PANEL LOW BATTERY																								7
8	OPEN CIRCUIT																								8
9	GROUND FAULT																								9
10	NOTIFICATION APPLIANCE CIRCUIT SHORTED																								10
11	ALL OTHER TROUBLES																								11

CONTROL LINE AVAILABLE FOR

ACTIVE COMMAND ALARM SIGNAL INDICATOR

ACTIVE MASTER ALARM SIGNAL

ACTIVE COMMAND SUPERVISORY SIGNAL

ACTIVE COMMAND SUPERVISORY SIGNAL

NOTIFICATION

ACTIVE MASTER PROBABLE SIGNAL INDICATOR

ACTIVE MASTER PROBABLE SIGNAL

USER NOTIFICATION CHANGES

TRANSMIT FIRE ALARM SIGNAL

TRANSMIT FIRE ALARM SIGNAL

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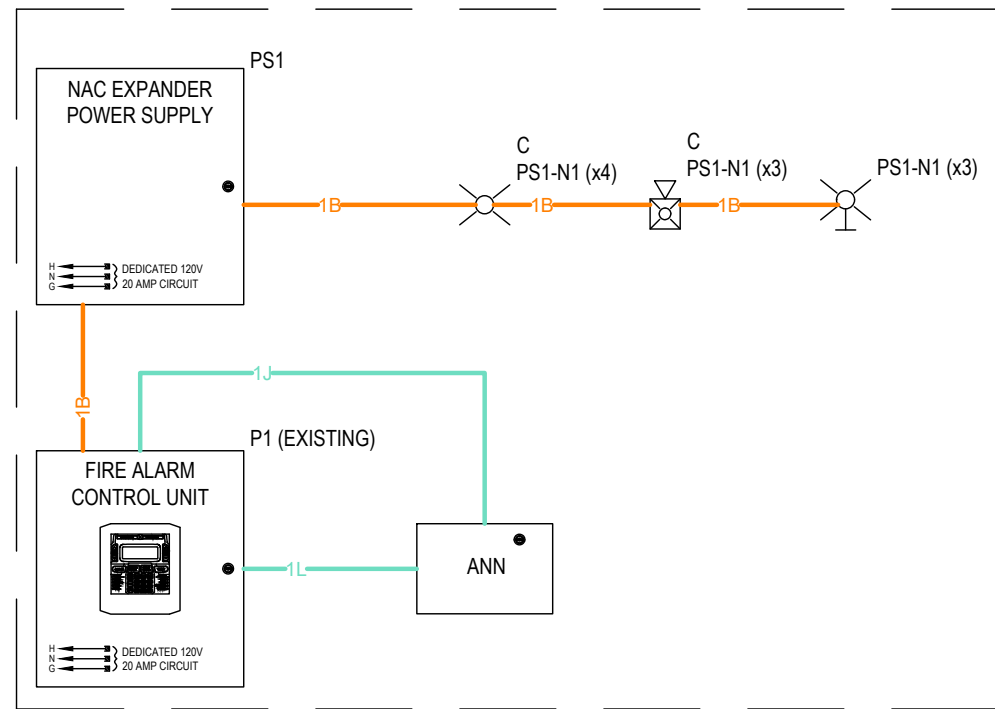
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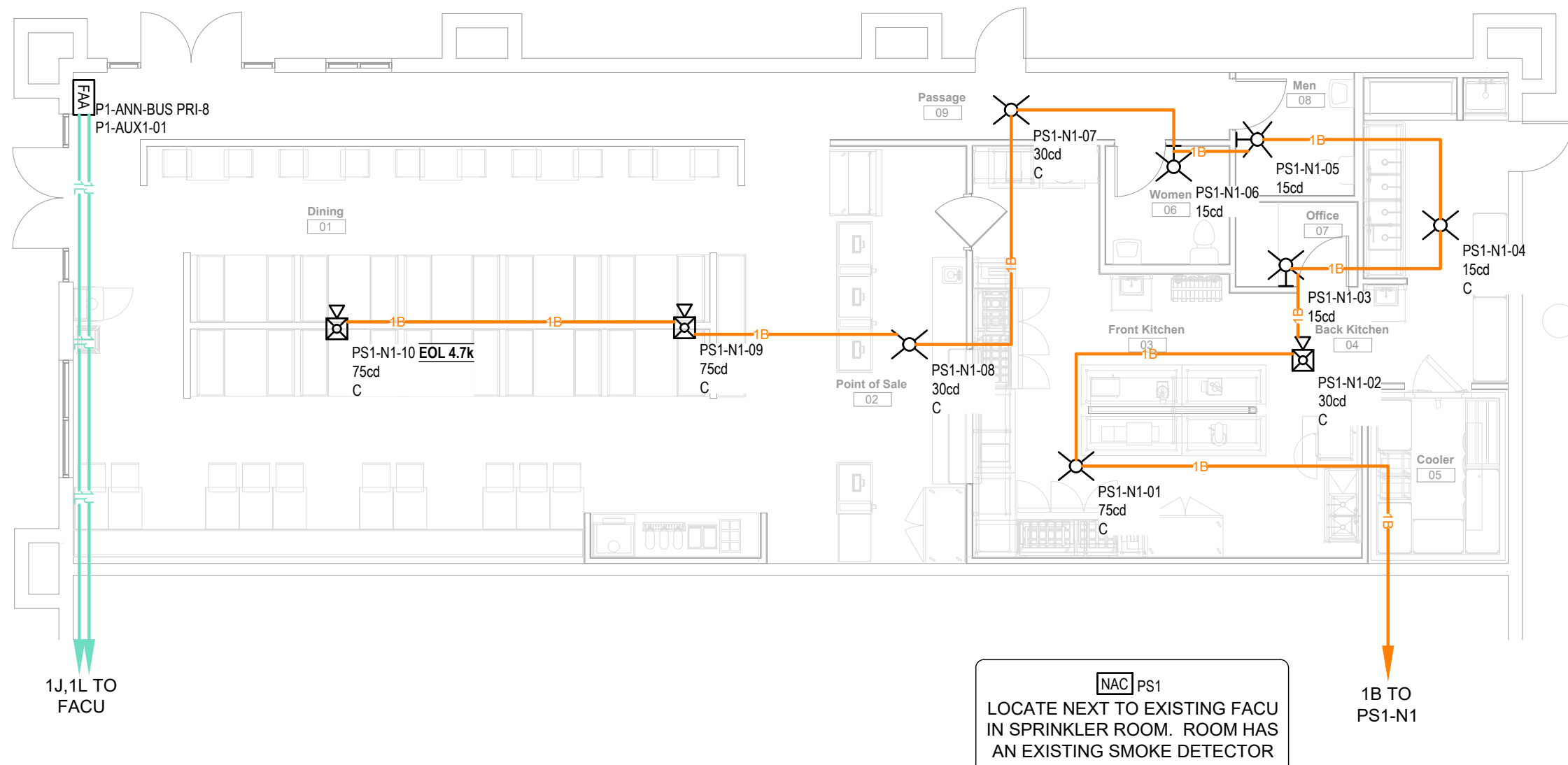
ACTIVE MASTER NOTIFICATION SIGNAL

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PERFORM OPERATION/REPORT DEVICE STATUS

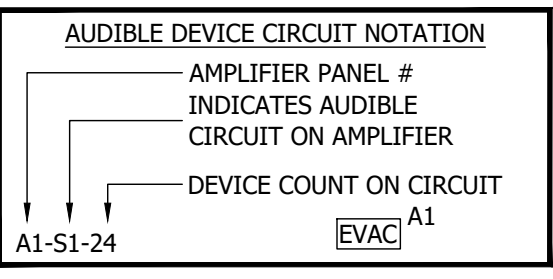
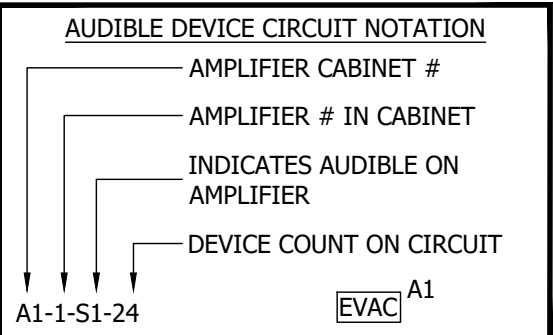
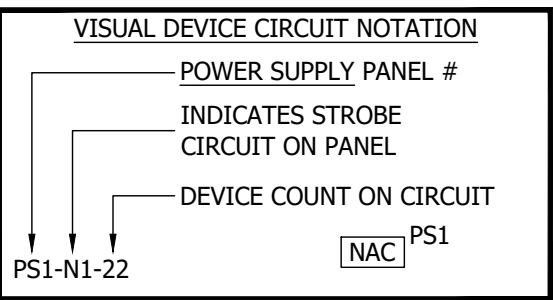
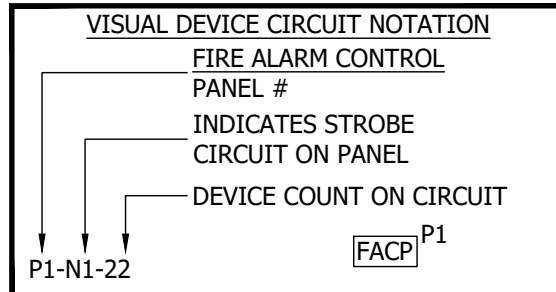
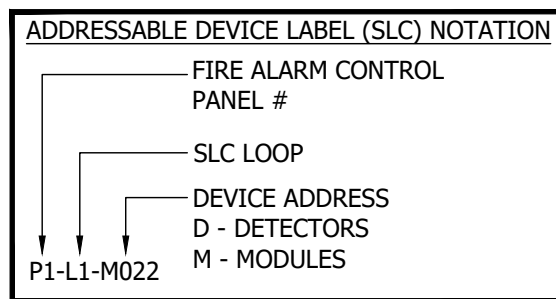
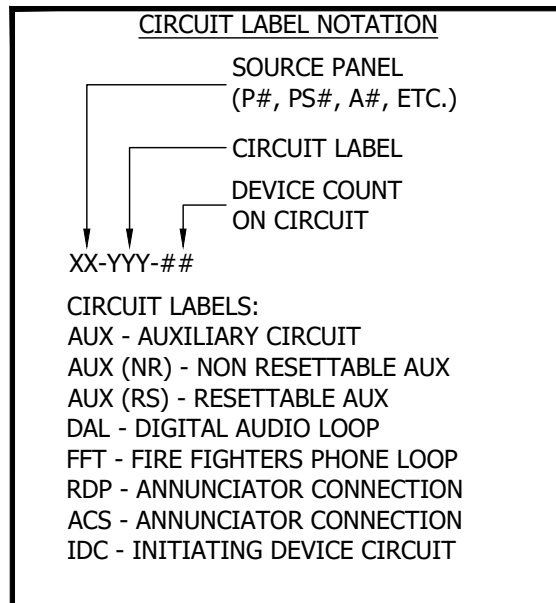


RISER DIAGRAM



FLOOR PLAN - FIRE ALARM  
1/8" = 1'-0"

### ADDRESS LABEL CLARIFICATION



### ABBREVIATIONS

AHJ - AUTHORITY HAVING JURISDICTION	FSD - FIRE/SMOKE DAMPER
DD - DUCT DETECTOR	KB - KNOX BOX
DH - DOOR HOLDER	KH - KITCHEN HOOD
DUA - DWELLING UNIT ALARM	PV - SPRINKLER POST INITIATOR VALVE
E - PSD/HD W/ ELEV INTERFACE	NT - NAC TRIGGER
ELEV1 - PRIMARY ELEVATOR RECALL	RD - RETURN DUCT
ELEV2 - ALTERNATE ELEVATOR RECALL	RL - RELOCATE
EST - ELEVATOR SHUNT TRIP	RTU - ROOF TOP UNIT
EXG - EXISTING	SD - SUPPLY DUCT
FH - ELEVATOR FIREHAT	TS - TAMPER SWITCH
FL - FIELD LOCATE	VL - VERIFY LOCATION
FM - FLUSH MOUNT	WF - WATERFLOW
FGS - FIRE PLACE GAS SHUTOFF	WP - WEATHER PROOF

### GENERAL INSTALLATION NOTES:

- INSTALLATION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL LAWS, REGULATIONS, CODES, AND SPECIFICATIONS. THIS SYSTEM SHALL BE IN STRICT CONFORMANCE WITH THESE DRAWINGS; 2018 IBC; NFPA 72 2016 EDITION; NFPA 70, 2017 EDITION; AND AHJ.
- WHERE CONDUCTORS ARE RUN IN CONDUIT, USE ONLY APPROVED CABLE WITHIN RACEWAYS, PIPES OR CONDUITS. ALL SHIELDS WIRE MUST BE CONTINUOUS THROUGHOUT CIRCUIT. ALL SHIELDS SHALL BE ISOLATED FROM GROUND, ALL SHIELDS SHALL TERMINATE AT THE FIRE ALARM CONTROL PANEL (FACP) ONLY.
- PER NFPA 72 2016, 17.7.1.11 - WHERE DETECTORS ARE INSTALLED FOR SIGNAL INITIATION DURING CONSTRUCTION, THEY SHALL BE CLEANED AND VERIFIED TO BE OPERATING IN ACCORDANCE WITH THE LISTED SENSITIVITY, OR THEY SHALL BE REPLACED PRIOR TO THE FINAL COMMISSIONING OF THE SYSTEM. WHERE DETECTION IS NOT REQUIRED DURING CONSTRUCTION, DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER ALL OTHER CONSTRUCTION TRADES HAVE COMPLETED CLEANUP.
- ALL FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPENS AND GROUNDS.
- NOTIFICATION CIRCUIT WIRE RUNS ARE CRITICAL. ANY INCREASE IN LENGTH OF WIRE MAY AFFECT CIRCUIT CONFIGURATIONS.

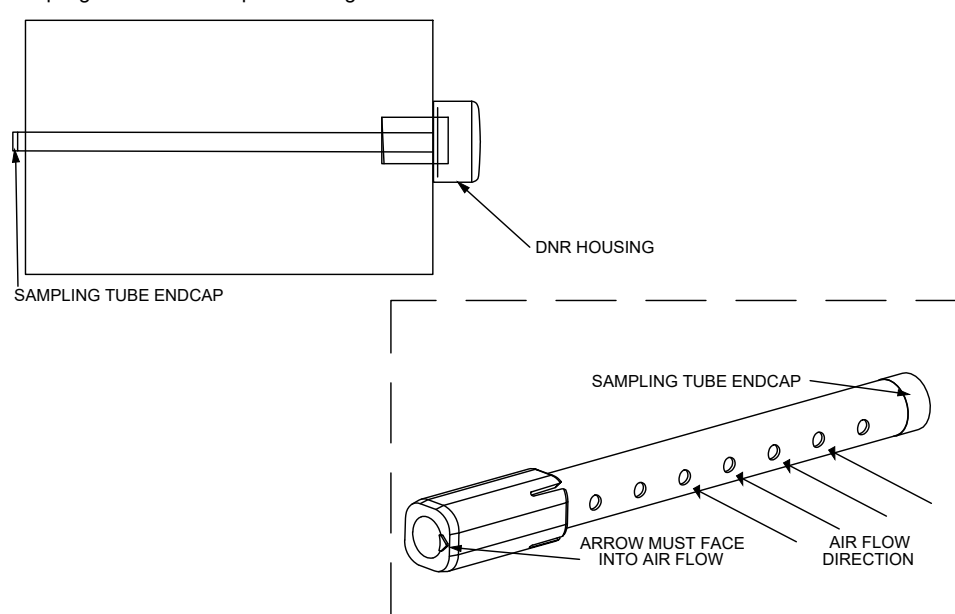
### SHEET LEGEND

SHEET NUMBER	SHEET REFERENCE NUMBER	DESCRIPTION
1	FA001	COVER SHEET, LEGEND, SEQUENCE OF OPERATIONS, RISER DIAGRAM & FIRE ALARM PLAN
2	FA002	CALCULATIONS AND CONNECTION DETAILS

INSTALLING CONTRACTOR WILL NEED TO PROVIDE ACCURATE AS-BUILT INFORMATION TO TECH ELECTRONICS. THIS SHALL INCLUDE ALL WIRING TYPE AND ROUTING INFORMATION FOR ALL ADDRESSABLE LOOP (SLC), HORN, SPEAKER AND STROBE (NAC) AND ZONE (IDC) CIRCUITS. THE AS-BUILT DRAWINGS SHALL SHOW THE EXACT QUANTITY AND PLACEMENT OF ALL DEVICES AND EACH EXACT DEVICE ADDRESS INSTALLED, IF APPLICABLE. ALL DELETED, ADDED AND CHANGES MUST BE SHOWN.

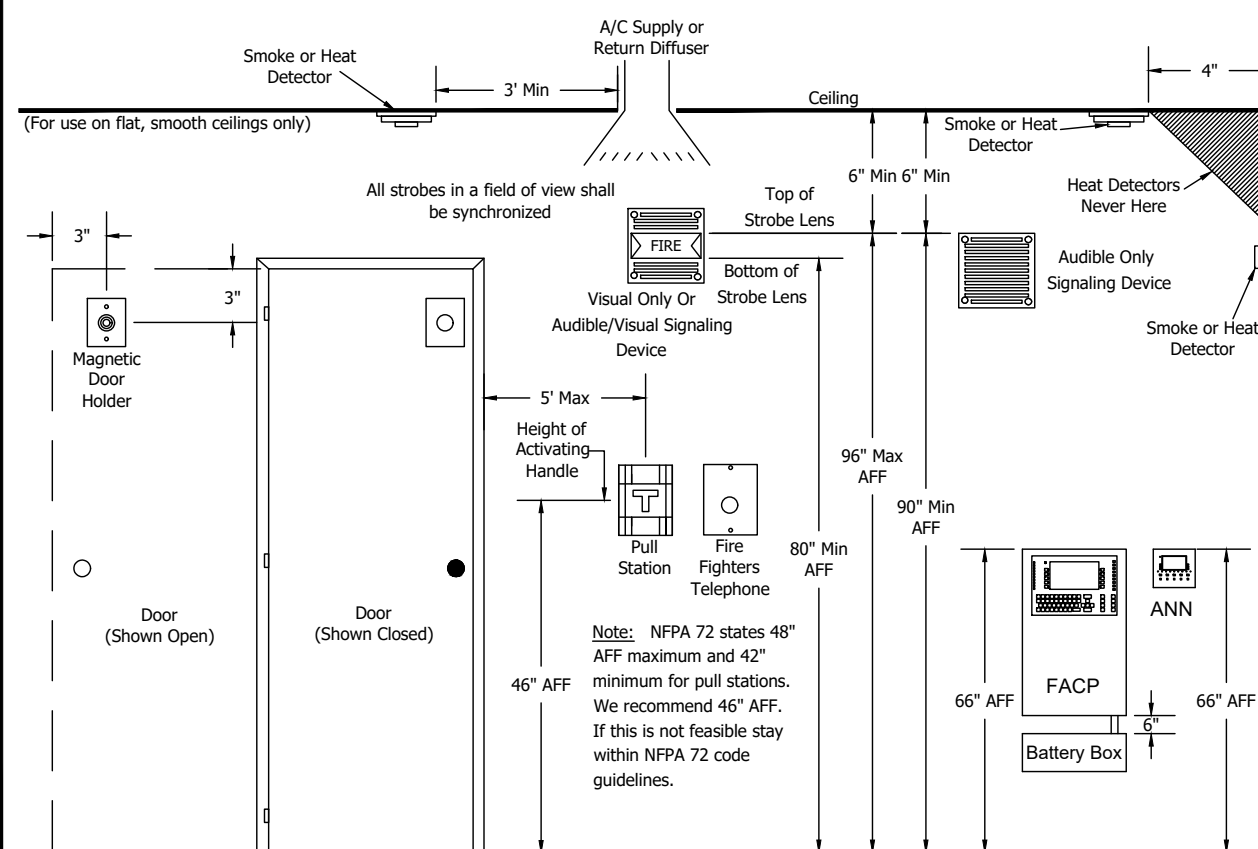
ALL 120VAC POWER SHALL BE NOTED WITH THE CIRCUIT BREAKER NUMBER, SIZE OF BREAKER AND THE LOCATION OF THE CIRCUIT BREAKER PANEL. THE CIRCUIT BREAKER MUST BE LOCKED. ALL ABOVE INFORMATION IS REQUIRED BY AND SHALL BE PROVIDED PER NFPA 72. SEE CURRENTLY ENFORCED ORDINANCE IF NECESSARY.

Per NFPA sampling tubes over 3 feet long should be supported at the end opposite of the duct detector. In ducts wider than 8 feet, work must be performed inside the duct to couple the other section of the sampling tube to the section already installed using the 1/8 inch conduit fitting supplied. Make sure that the holes on both sections of the air inlet sampling tube are lined up and facing into the airflow.



### DUCT DETECTOR MOUNTING

#### RECOMMENDED MOUNTING HEIGHTS PER CODES AND STANDARDS



TECH ELECTRONICS  
Heights\_and\_Mounting.dwg:8  
11/23/20

10/15/2024



NO. DATE: REVISION DESCRIPTION:

STREETS OF WEST PRYOR  
1020 NORTHWEST PRYOR ROAD  
LEE'S SUMMIT, MO 64081

FIRE ALARM SYSTEM ADDITIONS

PROJECT NAME / CUSTOMER / LOCATION:

PROJECT MANAGER:	BOJAN BALTIC (816) 977-1228
DESIGNER:	RN
DRAWING #:	FA001
PROJECT JOB#:	PJ2409240009
DATE:	10/8/2024
ISSUED FOR:	CONSTRUCTION