

CITY OF LEE'S SUMMIT FIRE STATION #5

801 Missouri Highway 150
Lee's Summit, Missouri 64082

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Lee's Summit Fire Department
Lee's Summit, Missouri

09/08/2023

CODE INFORMATION

I. Applicable Codes

- A. ~~2018~~ IBC
C. ~~2014~~ ICC 500
D. ICC/ANSI A117.1-2009
E. 28 CODE OF FEDERAL REGULATIONS (CFR) PART 35.15 AS DETAILED IN THE DEPARTMENT OF JUSTICE TITLE II
ADA REGULATIONS AND THE 2010 ADA STANDARDS OF ACCESSIBLE DESIGN

II. Building Information:

- A. II-B Construction (Per IBC 601)
B. Fully Sprinklered (Per IBC 901.2)
C. Full Perimeter Frontage (Per IBC 506.3)
D. Use Group: Mixed Non-separated S-1, S-2, B, R-2 (Per IBC 508.3)

Occupant Load (IBC Table 1004.1.2)	
Business	19
Residential	8
Storage	25
Total	52

Scope:

This Project is new construction of a Fire Station in Lee's Summit. The building is fully sprinklered. Envision will install a full fire alarm system as well as monitoring of the sprinkler system.

Wiring Legend

SLC	18/2 UNS SOL FPLP Red Jkt
NAC	14/2 UNS SOL FPLP Red Jkt
P-Link	18/4 UNS SOL FPLP Red Jkt

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FA - 4	Batter & Circuit Calculations, Operational Matrix, and Riser Diagram
FA - 5	NFPA 72 Reference

Symbol Legend

SYMBOL	DESCRIPTION
	INTELLIGENT PWR EXPANDER, 6-AMP, 4-NAC
	FACP ADDRESSABLE 198 OR 318 POINTS
	LOW-PROFILE INTELLIGENT 135F FIXED THERMAL SENSOR WHITE
	LOW-PROFILE PHOTOELECTRIC SENSOR WHITE
	ADVANCED MULTI-CRITERIA FIRE/CO DETECTOR, WHITE
	REMOTE LCD ANNUNCIATOR, RED
	PULL STATION, DOUBLE ACTION, ADDRESSABLE
	DUAL MONITOR MODULE
	RELAY MODULE, ADDRESSABLE
	L-SERIES STROBE, RED, WALL
	L-SERIES 2-WIRE, HORN STROBE, RED, WALL
	L-SERIES STROBE, RED, WALL
	L-SERIES 2-WIRE, HORN STROBE, RED, WALL
	60CBLF FREQUENCY SOUNDER STROBE WALL RED
	HORN/STROBE, 2 WIRE, STANDARD CD, RED, OUTDOOR

NOTES:

- All smoke detectors shall be located a minimum of three (3) feet from any HVAC diffuser.
- All manual pull stations shall be mounted four (4) feet above the finished floor (centerline of device, +or-6inches), unless otherwise noted.
- All strobe and horn/strobes shall be located so the bottom of the device is not less than 80 inches above the finished floor and not greater than 96 inches above the finished floor.
- All notification devices shall be located no less than 6 inches below finished ceilings.
- The candela rating of the strobes or horn/strobes shall be shown on the drawings.
- The location of the notification devices shall be at a uniform height for all devices.
- All cables, conduits, or wire mold shall be securely fastened to the structure.
- Smoke detectors shall be located in the ceiling no less than 4 inches from a sidewall to the nearest edge of the detector.
- Drawings indicate general fire alarm device locations and Field Verify device locations with minimal deviations and document any changes.
- FACP & Power Supplies shall be on a dedicated 120V, 20A circuit breaker marked in red with lock-on provision.
- Fire Alarm wire paths are reserved for fire alarm cabling only. Including all UL listed fire barrier penetrations.
- Outdoor Weatherproof Horn/Strobe is to be mounted 10' 00" AFF FDC.
- All ceilings are 10' or below unless otherwise noted.
- Default batteries are 18 - amp hour unless otherwise noted.
- Remote Test Stations to be mounted on the wall 5' AFF.



GIBBENS DRAKE SCOTT, INC.
Missouri State Certificate of Authority #000816
9201 E. 63rd STREET, SUITE 100
RAYTOWN, MISSOURI 64133



PROFESSIONAL ENGINEER STAMP:



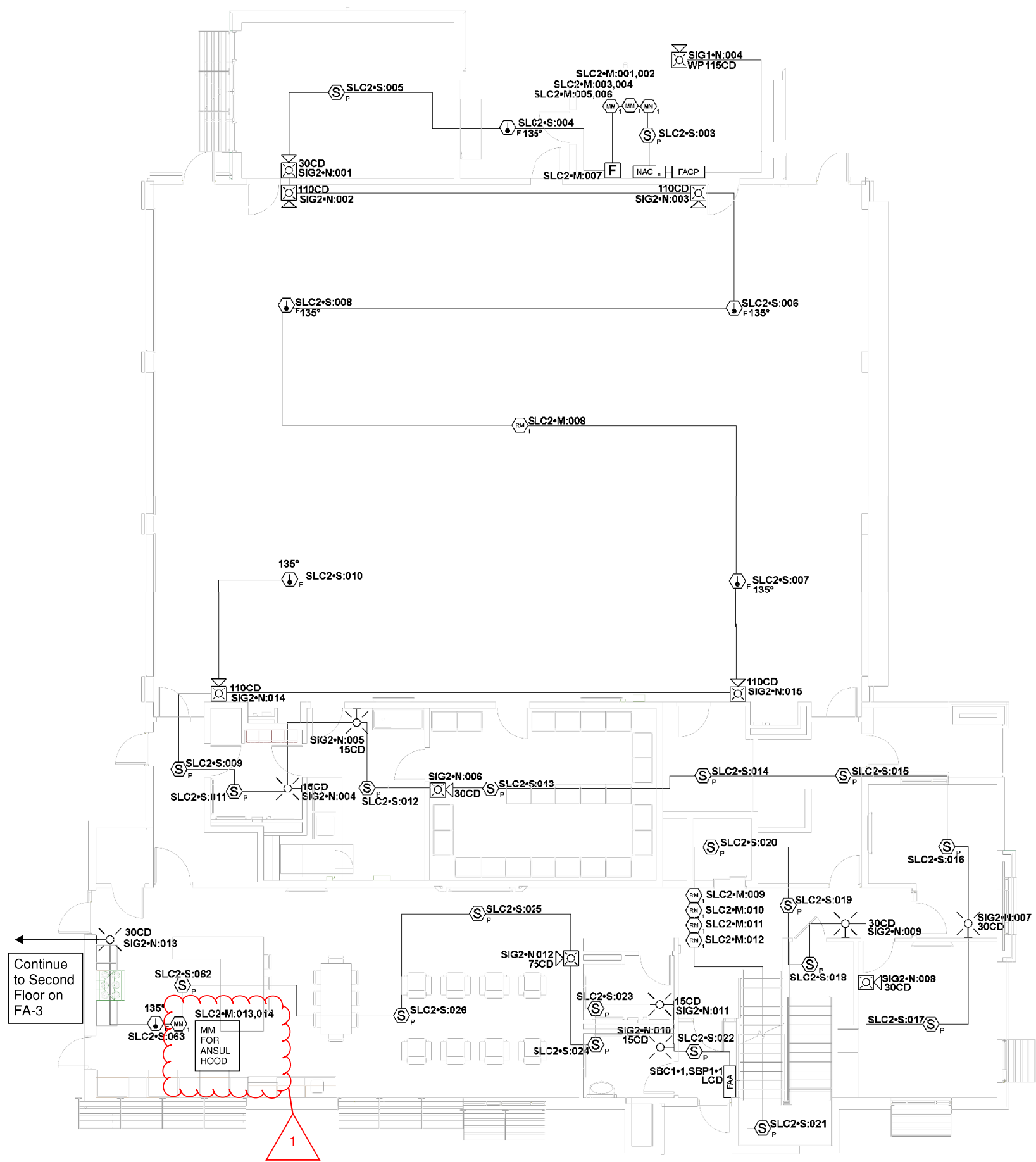
REVISIONS:	DATE:
City Revisions #1	8/3/2023
City Revisions #2	8/21/2023

ENVISION
TECHNOLOGY GROUP
913-491-1700 6985 W 153rd St
913-491-1701 Overland Park, KS 66223

SITE: 801 Missouri Highway 150
Lee's Summit, Missouri 64082

TITLE: Cover Page

SCALE AT:	DATE: 8/2/2023	DESIGNED BY:
PROJECT NO:	DRAWING NO:FA-1	REVISION:



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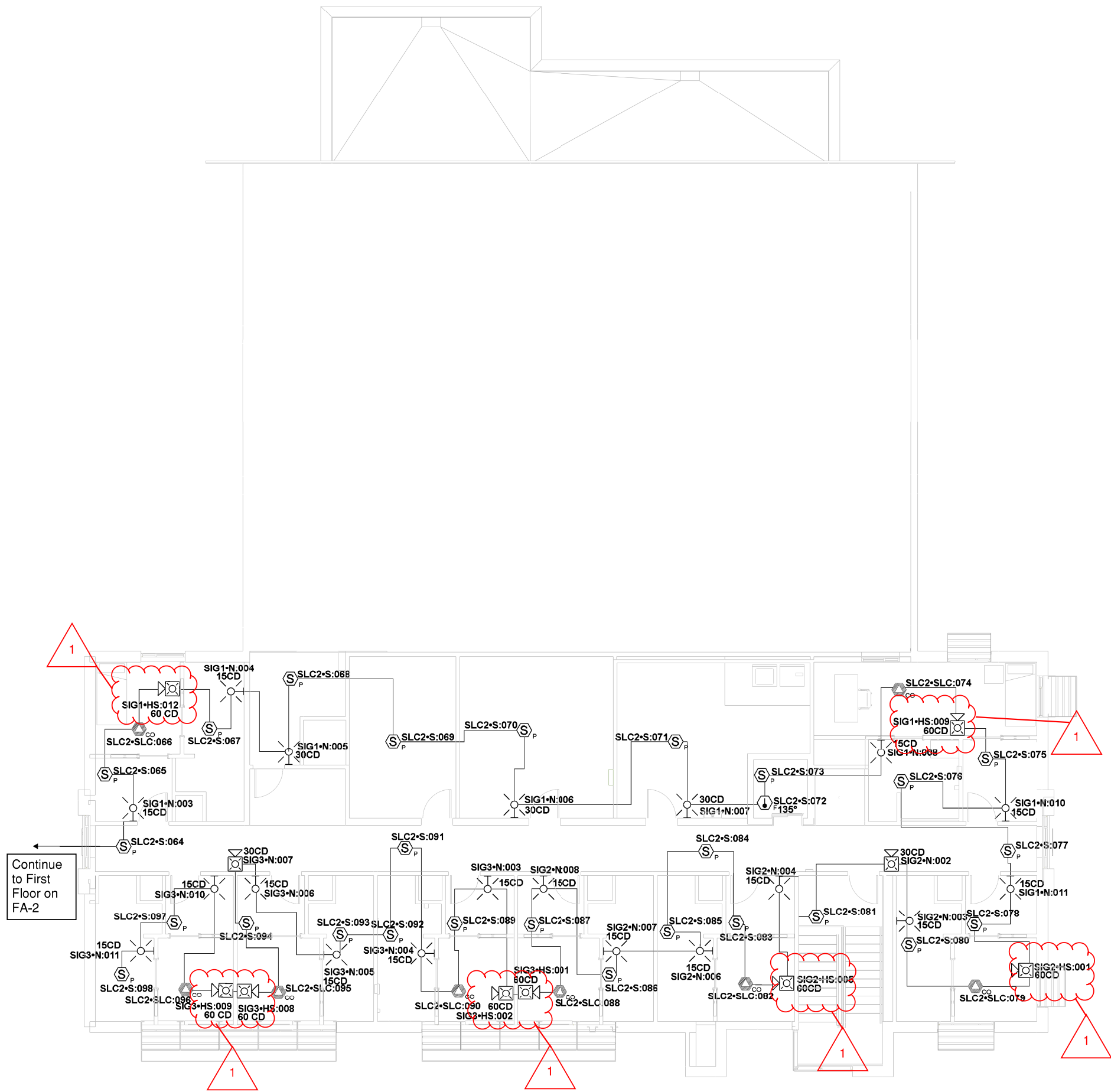
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REVISIONS:		DATE:
1	City Revisions #1	8/3/2023
2	City Revisions #2	8/21/2023



SITE: 801 Missouri Highway 150 Lee's Summit, Missouri 64082		
TITLE: First Floor Plan		
SCALE AT: 1/8"=1'	DATE: 8/2/2023	DESIGNED BY:
PROJECT NO:	DRAWING NO:FA-2	REVISION:



NOTES:

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ENGINEERING

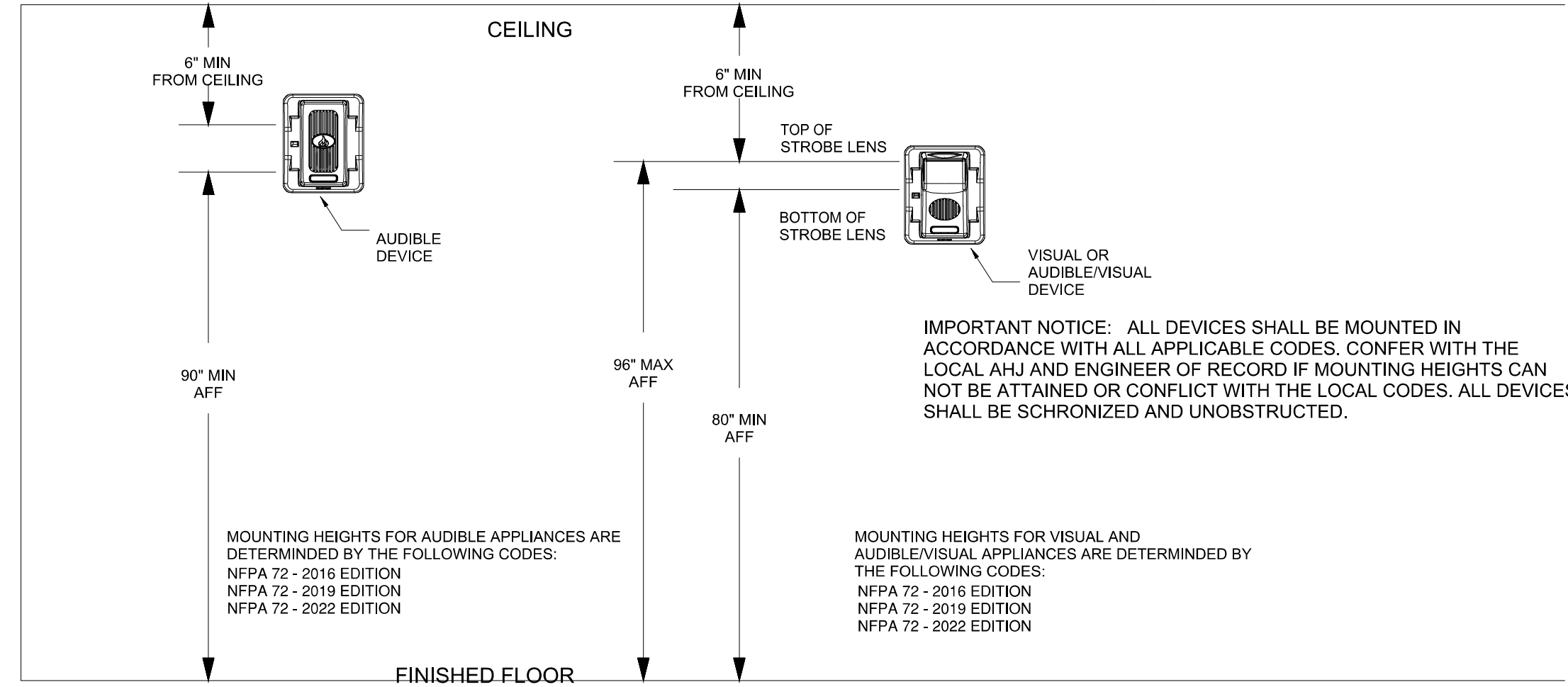
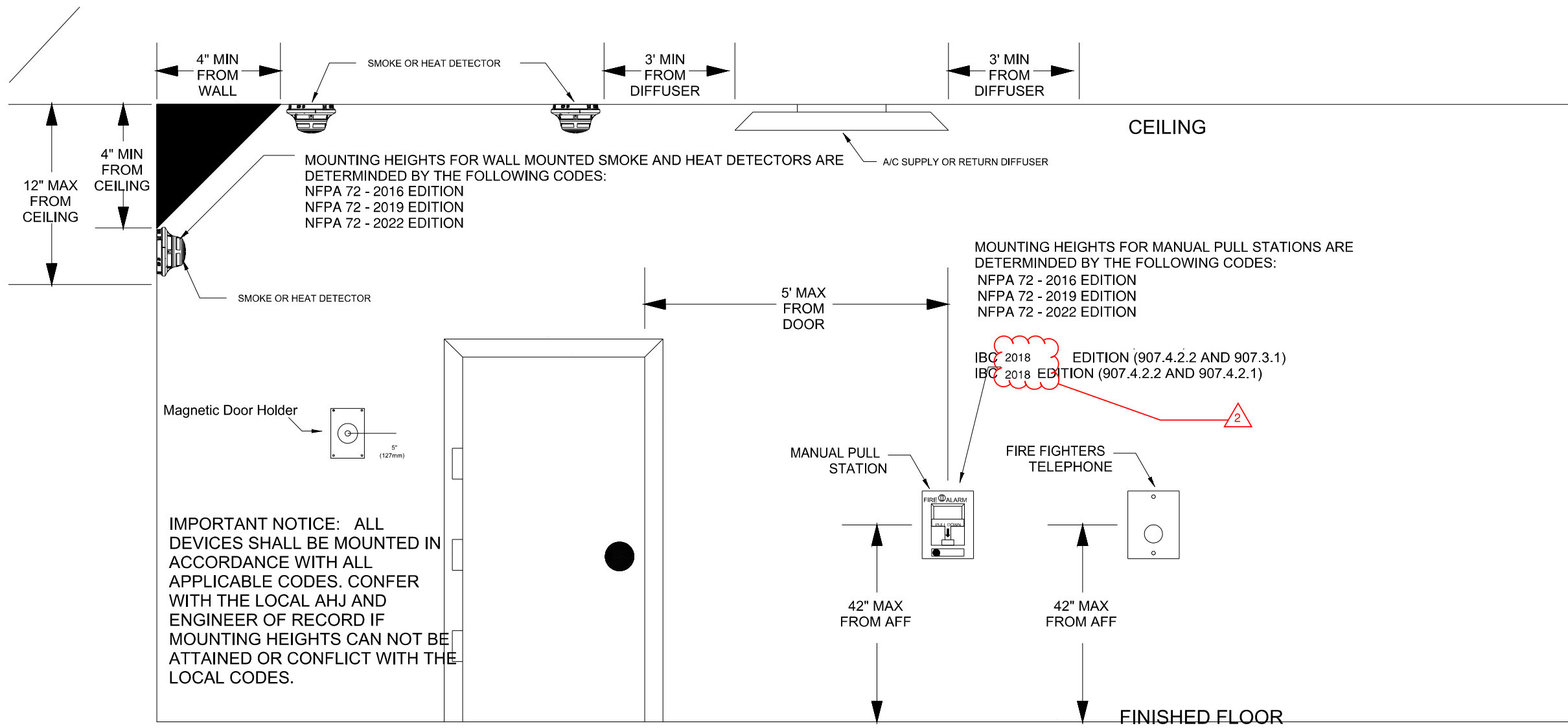
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REVISIONS:	DATE:
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SITE: 801 Missouri Highway 150 Lee's Summit, Missouri 64082		
TITLE: Second Floor Plan		
SCALE AT: 1/8"=1'	DATE: 8/2/2023	DESIGNED BY:
PROJECT NO:	DRAWING NO:FA-3	REVISION:



DETECTOR LOCATION REQUIREMENTS FOR WALL SECTIONS
NFPA 72

DEPTH OF WALL SECTION ABOVE DOOR	DOOR FRAME MOUNTED	CEILING MOUNTED		
		SMOKE DETECTOR LISTED FOR FRAME MOUNTING OR AS PART OF CLOSER ASSEMBLY	SMOKE DETECTOR CEILING MOUNTED	MIGHT REQUIRE ADDITIONAL DETECTORS
d	SMOKE DETECTOR LISTED FOR FRAME MOUNTING OR AS PART OF CLOSER ASSEMBLY DETECTOR OR DETECTOR CLOSER MOUNTED ON EITHER SIDE d=610mm (24 in.) DETECTOR OR DETECTOR CLOSER MOUNTED ON HIGHER SIDE d1 ≤ 610mm (24 in.) d2 > 610mm (24 in.) DETECTOR OR DETECTOR CLOSER MOUNTED ON EITHER SIDE d > 610mm (24 in.)	ONE DETECTOR MOUNTED ON EITHER SIDE 100-300 mm max. 1.52 m (5 ft) d min. but not less than 305 mm (12 in.) ONE DETECTOR MOUNTED ON HIGHER SIDE 100-300 mm d1 ≤ 610mm (24 in.) d2 > 610mm (24 in.) 1.52 m (5 ft) max. min. = d 2 TWO DETECTORS REQUIRED		
0 - 610 mm (0 - 24 in.) ON BOTH SIDES OF DOORWAY				
OVER 610 mm (24 in.) ON ONE SIDE ONLY				
OVER 610 mm (24 in.) ON BOTH SIDES				
OVER 1524 mm (60 in.)				

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PROFESSIONAL ENGINEER STAMP
JAY R. GUERRA
E-26382
8/22/2023
STATE OF MISSOURI
JAY R. GUERRA
E-26382
8/22/2023
PRINTED COPY OF THIS DOCUMENT AND ANY CHANGES SHALL BE MAINTAINED AND FILED WITH THE ORIGINAL COPY

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SITE: 801 Missouri Highway 150
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TITLE: NFPA 72 Reference

SCALE AT:	DATE: 8/2/2023	DESIGNED BY:
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NFPA 72 Device Reference