

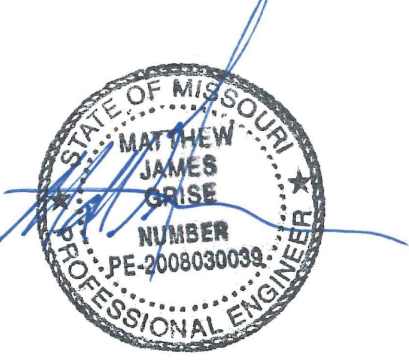
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AHJ
LEE'S SUMMIT FD
Designer NICET Level III
TROY KOEHN
Scale
N/A
Job Number
34964961
Date
05/29/2024
Description
FIRE ALARM
System Type
VES / COMPAS

Revisions

AHJ STAMP

Design Professional of Record
06/05/2024



The logo for Alliance Fire Protection features the word "Alliance" in a large, bold, black serif font with a red shadow effect. Below it, "FIRE PROTECTION" is written in a smaller, blue, sans-serif font. To the right of the text is a graphic of a fire hose reel with a nozzle. Below the hose reel is a fire alarm pull station with a red button and a label that reads "FIRE ALARM PULL STATION". To the right of the pull station is a fire alarm control panel with a digital display showing "10:22:22" and a label that reads "FIRE ALARM CONTROL PANEL".

DOUGLAS CORNER — LOT 1B
FIRE ALARM
150 NORTHEAST TUDOR ROAD
LEE'S SUMMIT, MO 64086
COVER PAGE

FA.0.01

RELEASED FOR CONSTRUCTION
As Noted on Plan Review

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

06/25/2024

ALLIANCE FIRE PROTECTION FIRE ALARM SYSTEM

DOUGLAS CORNER - LOT 1B

LEE'S SUMMIT, MO

FIRE ALARM PLAN NOTES

1 120VAC (BY OTHERS)

DRAWING INDEX

FA.0.01	COVER SHEET
FA.1.01	FIRE ALARM FLOOR PLAN
FA.6.01	PROJECT CALCULATIONS & LINE DIAGRAM

APPLICABLE CODES

NFPA 70 – NATIONAL ELECTRIC CODE (2017)
 NFPA 72 – NATIONAL FIRE ALARM & SIGNALING CODE (2016)
 NFPA 101 – LIFE SAFETY CODE (2018)
 INTERNATIONAL FIRE CODE – 2018
 INTERNATIONAL BUILDING CODE – 2018

SCOPE OF WORK:

AFP TO INSTALL NEW FIRE ALARM SYSTEM IN A NEW BUILDING WITH A WATER BASED SUPPRESSION SYSTEM. SYSTEM MONITORED BY A REMOTE SUPERVISING STATION PER NFPA 72 26.5 (2016)

ABBREVIATIONS:

WP = WEATHER RESISTANT. ETR = EXISTING TO REMAIN.
ROR = RATE OF RISE. RCP = REFLECTED CEILING PLAN.
ER = EXISTING TO BE RELOCATED. SHOWN IN NEW LOCATION.
NIC = NOT IN CONSTRUCTION. TI = TENANT IMPROVEMENT.

ALARM GENERAL NOTES

1. - WALL MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS 80" AND NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR.
NFPA 72 18.5.5.1 (2016)
2. - MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 5' OF EXIT DOORWAY. NFPA 72 17.1.4.8.4 (2016)
-THE OPERABLE PART OF A MANUALLY ACTUATED ALARM INITIATING DEVICE SHALL BE NOT LESS THAN 42" AND NOT MORE THAN 48" FROM THE FINISHED FLOOR.
NFPA 72 17.1.4.5 (2016)
3. - IF THE INTENT IS TO INITIATE ACTION WHEN SMOKE/FIRE THREATENS A SPECIFIC OBJECT, THE DETECTOR SHALL BE PERMITTED TO BE INSTALLED IN CLOSE PROXIMITY TO THAT OBJECT.
NFPA 72 17.4.8 (2016)
A: IN HIGH-CEILING AREAS, DETECTION SHOULD BE PLACED ON THE WALL ABOVE AND WITHIN 60" OF THE PROTECTED ITEM.
NFPA 72 A17.4.8 (2016)
4. - ALL WIRING IN OPEN CEILING TO BE RUN PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE.
WIRING SHOULD BE CONCEALED FROM VIEW AS BEST POSSIBLE.
5. - WHERE DUCT SMOKE DETECTORS ARE NOT RESETTABLE FROM THE PROTECTED PREMISES FIRE ALARM SYSTEM, A LISTED ALARM/SUPERVISORY INDICATOR WITH INTEGRAL RESET SWITCH SHALL BE PROVIDED IN AN ACCESSIBLE LOCATION.
NFPA 72 23.8.5.4.6.4 (2016)

WIRING LEGEND

18/2 NON SHIELDED (PLENUM RATED) SLC

16/2 NON SHIELDED (PLENUM RATED) NAC/STROBE

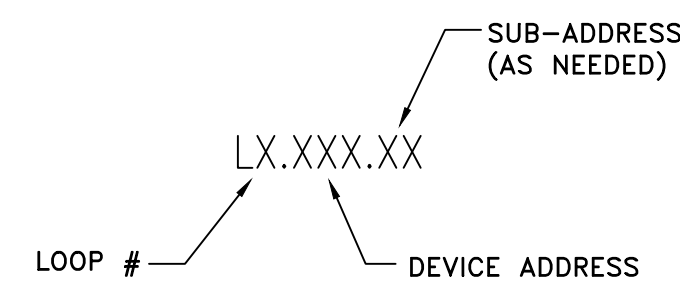
16/2 NON SHIELDED (PLENUM RATED) 24VDC

18/4 NON SHIELDED (PLENUM RATED)
ANNUNCIATOR/RTS

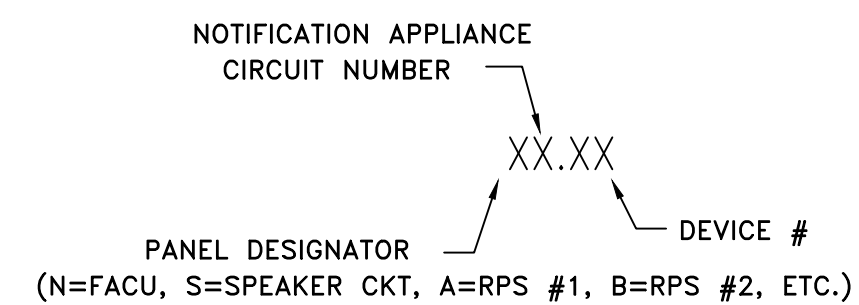
CATS -
CAT5

CATS NON SHIELDED (PLENUM RATED) PHONE

SIGNAL LINE CIRCUIT
DEVICE ADDRESS KEY



NOTIFICATION DEVICE ADDRESS KEY



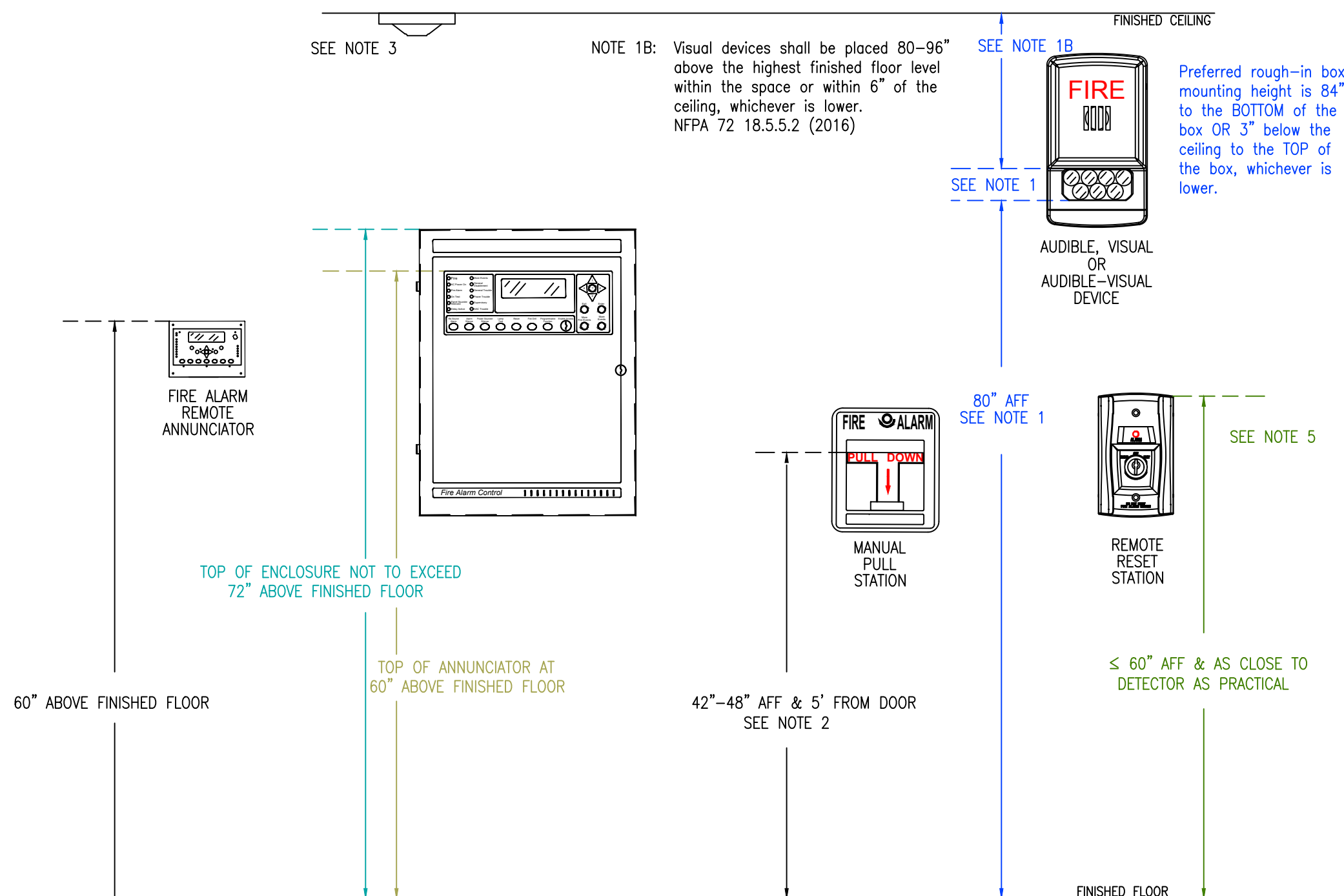
FIRE ALARM SYMBOLS	
	MOUNTING REQUIREMENTS
	SURFACE MOUNTED ENCLOSURE PROVIDED, TOP 72" AFF; CONDUIT TO CEILING
	4" SQUARE, OR SEMI-FLUSH TRIM RING 60" AFF; CONDUIT TO CEILING
	SURFACE MOUNTED ENCLOSURE PROVIDED, TOP 72" AFF; CONDUIT TO FACU
	SURFACE MOUNTED ENCLOSURE PROVIDED, TOP 72" AFF; CONDUIT TO CEILING
	4" SQUARE, 1-1/2" STANDARD BOX W/ SINGLE MUD RING; NO HIGHER THAN 30" AFF
	4" SQUARE, 1-1/2" STANDARD BOX W/ SINGLE MUD RING; NO HIGHER THAN 30" AFF
	INSTALL PER MANUFACTURER SPECIFICATIONS
	4" SQUARE, 1-1/2" STANDARD BOX W/ SINGLE MUD RING; 48" AFF & 5' FROM DOOR; CONDUIT TO CEILING
	4" SQUARE, 2-1/8" DEEP BOX; CONDUIT TO CEILING
	4" SQUARE, 2-1/8" DEEP BOX; CONDUIT TO CEILING
	4" SQUARE, 2-1/8" DEEP BOX; CONDUIT TO CEILING
	WALL MOUNTED, 80"-96" AFF OR (C) = CEILING MOUNTED; 4" SQUARE, 1-1/2" STANDARD BOX W/ SINGLE MUD RING
	WALL MOUNTED, 80"-96" AFF OR (C) = CEILING MOUNTED; 4" SQUARE, 1-1/2" STANDARD BOX W/ SINGLE MUD RING
	INSTALL AT THE LAST DEVICE OF THAT CIRCUIT
	HANDY BOX INSTALLED ON SWITCH; THEN INSTALL 1/2" FLEX CONDUIT TO 4"- SQUARE, 2-1/8" DEEP BOX ON WALL
	HANDY BOX INSTALLED ON SWITCH; THEN INSTALL 1/2" FLEX CONDUIT TO 4"- SQUARE, 2-1/8" DEEP BOX ON WALL
	1/2" WATER TIGHT 4" CONDUIT FROM SWITCH TO FIRE DEPARTMENT SIGNAL GANG BOX ON U.G. CONDUIT
	4" SQUARE, 2-1/8" DEEP BOX; CONDUIT TO CEILING
	INSTALL AT THE LAST DEVICE OF THAT CIRCUIT
	4" SQUARE, 2-1/8" DEEP BOX, BLANK COVER; CONDUIT TO CEILING
NOTE: NOT ALL SYMBOLS APPLY TO CURRENT PROJECT	

SEQUENCE OF OPERATION MATRIX									
		ALARM AT TAP	TRouble AT TAP	SUPERVISORY AT TAP	INTELE GENERAL BUILDING AUDIO/VISUAL DEVICES	HVAC / FRI SHUTDOWN	SIGNAL SENT TO OFF-SITE MONITORING	ELEVATOR RECALL	EMERGENCY EQUIPMENT SHUNT TRIP
FIRE ALARM INPUTS									
1	MANUAL PULL STATION	X		X	X	X	X		
2	WATER FLOW	X		X	X	X	X		
3	SMOKE DETECTOR			X	X	X	X		
4	HEAT DETECTOR	X		X	X	X	X		
5	ELEVATOR LOBBY SMOKE(S)	X		X	X	X	X	X	
6	ELEVATOR EQUIPMENT ROOM SMOKE	X		X	X	X	X	X	
7	ELEVATOR EQUIPMENT ROOM HEAT			X	X	X	X		X
8	ELEVATOR SHAFT HEAT	X		X	X	X	X		X
9	ELEVATOR SHAFT SMOKE			X	X	X	X	X	
10	KITCHEN HOOD / ANSUL	X		X	X	X	X		
SUPERVISORY ALARM INPUTS									
1	DUCT DETECTOR			X	X	X	X		
2	TAMPER SWITCH				X	X	X		
3	CARBON MONOXIDE DETECTOR			X	X	X	X		
TROUBLE CONDITIONS									
1	OPEN CIRCUIT		X				X		
2	SHORT CIRCUIT		X				X		
3	GROUND FAULT		X	X			X		
4	BAD DEVICE, DIRTY DEVICE, NO ANSWER		X				X		
5	LOW BATTERY		X	X			X		
6	MAIN POWER FAIL		X				X		

FUNCTIONAL MATRIX

RECOMMENDED MOUNTING DETAIL

NOT TO SCALE



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YES / COMPAS	

Revisions

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Alliance
FIRE PROTECTION

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North Kansas City, MO 64116
PH: 913-888-0647 FAX: 913-888-0618

DOUGLAS CORNER - LOT 1B
FIRE ALARM
150 NORTHEAST TUDOR ROAD
LEE'S SUMMIT, MO 64086
FLOOR PLAN

Sheet Number

FA.1.01

