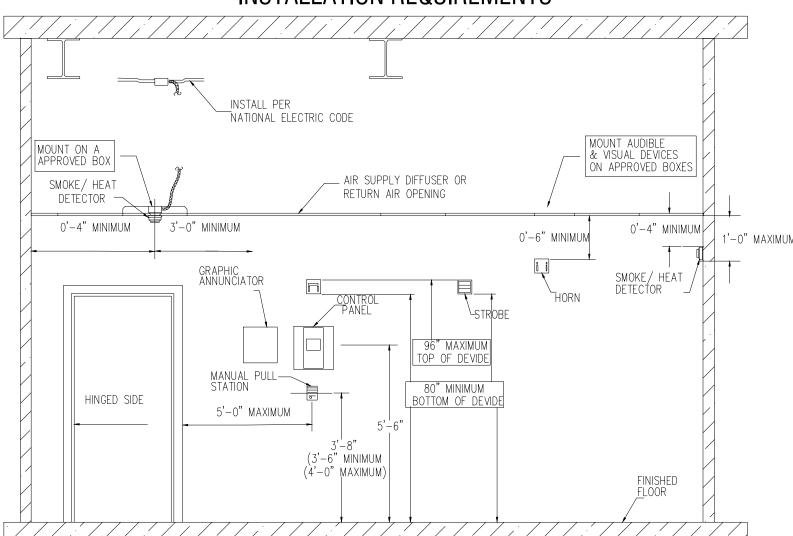
| | | CONTROL UNIT ANNUNCIATION | | | NOTIFICATION | | EMERGENCY | | NCY | FUCTION | | | | | | | |
|---|----|---------------------------------------|------------------------------|---|-----------------------------------|---|---------------------------------------|--------------------------------|----------------------------|---|--|--|--|---------------------------|--------------------------|------------------|---------------------------|
| FIRE ALARM SYSTEM | | ACTUATE COMMOM ALARM SIGNAL INDICATOR | ACTUATE AUDIBLE ALARM SIGNAL | ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR | ACTUATE COMMON SUPERVISORY SIGNAL | ACTUATE COMMON TROUBLE SIGNAL INDICATOR | ACTUATE AUDIBLE COMMON TROUBLE SIGNAL | DISPLAY/PRINT CHANGE OF STATUS | ACTUATE EVACUATION SIGNALS | TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION | TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION | TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION | RECALL ELEVATORS TO PRIMARY RECALL FLOOR | ELEVATOR DISCONNECT SWTCH | CLOSE SMOKE/FIRE DAMPERS | HVAC SHUT - DOWN | UNLOCK STAIRWELL ENTRANCE |
| | | Α | В | С | D | E | F | G | Н | | J | K | L | М | N | 0 | Р |
| DUCT SMOKE DETECTOR | 1 | | | × | × | | | × | × | | × | | | | × | × | |
| SMOKE DETECTOR | 2 | × | × | | | | | × | × | × | | | | | × | | × |
| SMOKE DETECTOR (HOISTWAY, MACHINE ROOM, LOBBY) | 3 | × | × | | | | | × | × | × | | | × | | × | | × |
| MANUAL FIRE ALARM PULL STATION | 4 | × | × | | | | | × | × | × | | | × | × | × | | × |
| HEAT DETECTOR (HOISTWAY, AND MACHINE ROOM) | 5 | × | × | | | | | × | × | × | | | | × | × | | × |
| ALARM CHECK VALVE PRESSURE SWITCH | 6 | × | × | | | | | × | × | × | | | | | × | | × |
| SPRINKLER CONTROL VALVE TAMPER SWITCH | 7 | | | × | × | | | × | | | × | | | | | | |
| FIRE ALARM AC POWER FAILURE | 8 | | | | | × | × | | | | | × | | | | | |
| FIRE ALARM SYSTEM LOW BATTERY | 9 | | | | | × | × | | | | | × | | | | | |
| ODEN OIDOUIT | 10 | | | | | × | × | | | | | × | | | | | |
| OPEN CIRCUIT | 10 | | | | l . | | 1 | | | | | | | | 1 | | |
| GROUND FAULT | 11 | | | | | × | × | | | | | × | | | | | |

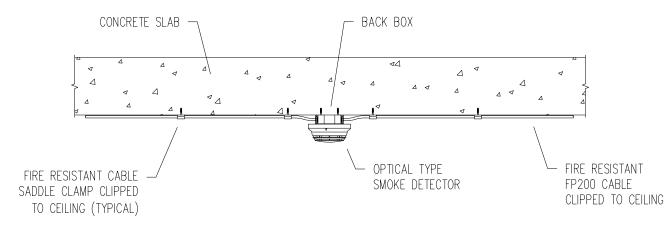
GENERAL NOTES

- THIS DRAWING IS ISSUED FOR PERMIT AND IS INTENDED TO DESCRIBE THE GENERAL DESIGN INTENT BY WHICH THE FIRE ALARM PLANNER CAN CORRECTLY PLAN THE SYSTEM(S). SOME PARTS OF THE SYSTEM MAY NOT BE DEPICTED, AND ADDITIONAL DEVICES MAY BE REQUIRED. REFER TO SPECIFICATION SECTION 28 3111 FOR COMPLETE PERFORMANCE
- DUCT SMOKE DETECTORS ARE TO BE INSTALLED IN SUPPLY AND RETURN AIR SYSTEMS WITH A CAPACITY GREATER THAN 2000 CFM, PER IMC AND NFPA 90A. SEE HVAC CONTROLS DRAWING(S) FOR RELATED INFORMATION.
- LOCATION OF PULL STATION SUBJECT TO APPROVAL OF AHJ

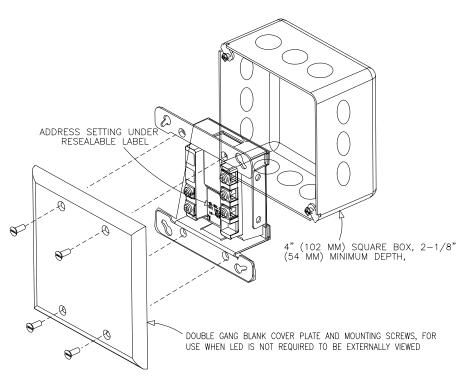
| CODE REQUIREMENTS: | CODE SECTION: |
|---|---|
| USE & OCCUPANCY CLASSIFICATION | GROUP R IBC 309 S1 STORAGE |
| TYPE OF CONSTRUCTION: PROPOSED HEIGHT: NUMBER OF STORIES: PROPOSED TOTAL SQUARE FOOTAGE: | V-B, SPRINKLERED IBC 602.5 REFER TO ARCHITECT FIVE(5) REFER TO ARCHITECT |
| FIRE SPRINKLER REQUIRED: FIRE SPRINKLER PROVIDED: | YES IBC 903 YES |

MFPA 72 AND ADA DEVIDE INSTALLATION REQUIREMENTS

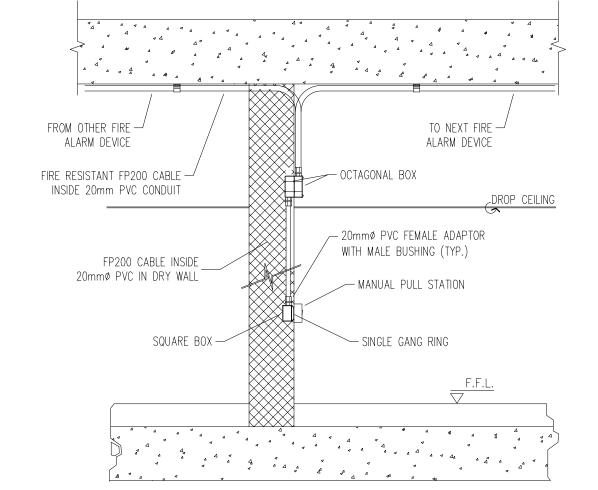




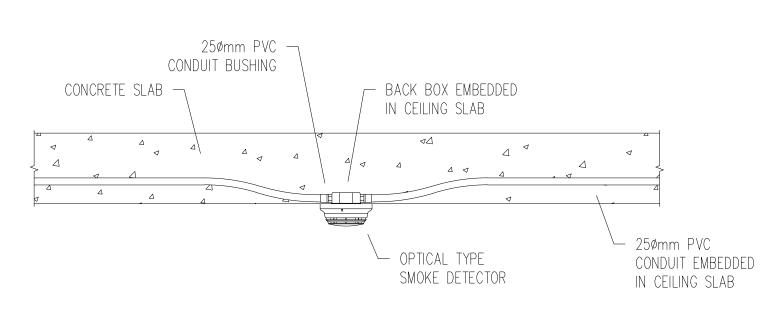
CEILING SLAB FLASHED CABLE MOUNTED TO SMOKE DETECTOR - INSTALLATION DETAIL SCALE: NONE



CONTROL MODULE MOUNTING DETAIL



MANUAL PULL STATION INSTALLATION DETAIL



CEILING SLAB EMBEDDED CONDUIT MOUNTED TO SMOKE DETECTOR - INSTALLATION DETAIL SCALE: NONE

SYMBOLS

FIRE ALARM

SPEAKER ONLY

CARBON DIOXIDE DETECTOR

FIRE ALARM NOTES

| • | | TITL ALAITIVI NOTEO | |
|--------------|---|--|--|
| SYMBOL | DESCRIPTION | A. A FIRE ALARM CONTROL UNIT (FACP) SHALL BE PROVIDED H. THE FIRE ALARM SUB-CON SHALL BE RESPONSIBLE FO PUMP SUPERVISORY SIGNALS, WATER FLOW AND VALVE FOR, ANY AND ALL PERMIT | R OBTAINING, AND PAYING |
| FACP | FIRE ALARM CONTROL PANEL | TAMPER SWITCHES, MANUAL PULL STATIONS, SMOKE DETECTORS, HEAT DETECTORS, AND AUTOMATIC SUPPRESSION SYSTEMS. THE NEW SYSTEM SHALL BE A | |
| SFACU | SUB-FIRE ALARM CONTROL UNIT | FULLY FIELD PROGRAMMABLE MICROPROCESSOR — BASED SYSTEM CAPABLE OF TWO—WAY COMMUNICATION OVER SIGNALING LINE CIRCUITS BETWEEN ADDRESSABLE INTERFACING/CONTROL MODULES AND THE FACP. INSTALLED COST OF THIS F | |
| PACP | PRE-ACTION CONTROL PANEL | WARRANTY AND SERVICE A INSTALLATION OF THE COM PERIOD OF AT LEAST ONE | GREEMENT TO COVER THE PLETE SYSTEM FOR A |
| RLA | REMOTE LED ANNUNCIATOR | STANDARD PRODUCT OF A SINGLE MANUFACTURER AND SHALL DISPLAY THE MANUFACTURER'S NAME ON EACH COMPONENT. EQUIPMENT AND COMPONENTS SHALL | |
| FPC | FIRE PUMP CONTROLLER | BEAR THE UL OR FM LABEL OR MARKING, AND ALL MATERIALS SHALL BE NEW AND IN GOOD CONDITION, FREE OF DEFECTS, SCRATCHES, CORROSION AND CONTAMINATION. USED EQUIPMENT SHALL NOT BE ALL EQUIPMENT SHALL BE ALL EQUIPMENT SHALL BE CODES AND STANDARDS AT STANDARDS REFERENCED IF | ND OTHER APPLICABLE |
| FATC | FIRE ALARM TERMINAL CABINET | ALLOWED. SPECIFICATIONS. FINAL APP AND EQUIPMENT SHALL BE THE FACP PRIMARY POWER SUPPLY SHALL BE | |
| NAC | NOTIFICATION APPLIANCE EXTENDER PANEL | PROTECTED BY A SEPARATE UL-LISTED FAST ACTING ELECTRICAL TRANSIENT SURGE SUPPRESSOR THAT INCORPORATES LOW Z EARTH GROUNDING. THE DEVICE THE CONTRACTOR IS RESPONDED. | |
| PWR | REMOTE FIRE ALARM POWER SUPPLY | D. ALL LOW VOLTAGE CIRCUITS LEADING FROM THE FACP, INCLUDING INITIATING AND NOTIFICATION CIRCUITS, AS | ORK, DOORS, WINDOWS, |
| FAA | FIRE ALARM ANNUNCIATOR | SEPARATE U.L. LISTED FAST—ACTING ELECTRICAL TRANSIENT SURGE SUPPRESSOR WHICH INCORPORATES LOW 7 FABTH CROUNDING THE DEVICE WELL AS TELEPHONE LINES, SHALL BE PROTECTED BY A NON-FIRE—RATED), BEAMS, EQUIPMENT, ELECTRICAL PA CEILINGS, AREAS WITHOUT | JOISTS, COLUMNS, HVAC NELS AND EQUIPMENT, CEILINGS, WALL |
| PRN | PRINTER | SHALL MEET THE REQUIREMENTS OF U.L. 497B. CONSTRUCTION, FLOORS AN EQUIPMENT AND BUILDING. | |
| SS | SURGE SUPPRESSOR | COMPLIANCE WITH THE REQUIREMENTS OF THE INSPECTION AND TESTS IN | , AND CERTIFYING REQUISITE |
| PIV | POST INDICATOR VALVE | CIRCUIT WIRE/CABLE SHALL BE SPECIFICALLY LISTED FURNISHED UNDER THIS PR FOR USE WITH FIRE ALARM SYSTEMS. HIS TESTING, THE CONTRAC FULL OPERATIONAL CAPABI | OJECT. AFTER COMPLETING TOR SHALL DEMONSTRATE LITY OF THE FIRE ALARM |
| PS | ALARM CHECK VALVE PRESSURE SWITCH | SYSIEM, AS WELL AS FULL THE FACP SHALL BE DESIGNED FOR FUTURE EXPANSION AND MODIFICATION. IN NO CASE SHALL CIRCUIT AND/OR MODULE LOADING EXCEED EIGHTY (80) PERCENT OF THE | COMPLIANCE WITH ALL DESIGN TANDARDS, TO THE /OPS/FIR/FPE. |
| WS | SPRINKLER WATER FLOW SWITCH | DESIGN CAPACITY AS SPECIFIED BY THE MANUFACTURER. | N IIIVAA ZAME MADO FAD |
| VS | SPRINKLER SUPERVISORY SWITCH | G. THE DESIGN, EQUIPMENT, MATERIALS, INSTALLATION, AND WORKMANSHIP SHALL BE IN STRICT ACCORDANCE WITH THE REQUIRED AND ADVISORY PROVISIONS OF | IMING AND SEQUENCING |
| LLI | LIQUID LEVEL INDICATOR SWITCH | | OR REVIEW AND IS INTENDED TO SIGN INTENT BY WHICH THE FIRE |
| ER | ELEVATOR RECALL | CONSIDERED TO BE MANDATORY, AS THOUGH THE WORD "SHALL" HAD BEEN SUBSTITUTED FOR "SHOULD" WHEREVER IT APPEARS. IF THERE ARE ANY CONFLICTS ADDITIONAL DEVICES MAY E | RECTLY PLAN THE SYSTEM(S). EM MAY NOT BE DEPICTED, AND BE REQUIRED. REFER TO |
| <u>(S)</u> | DUCT SMOKE DETECTOR | BETWEEN THESE SPECIFICATIONS AND THE SPECIFICATION SECTION 28 REFERENCED STANDARDS AND PUBLICATIONS, THE PERFORMANCE REQUIREMEN MOST STRINGENT REQUIREMENT SHALL APPLY. | |
| <u>S</u> | SMOKE DETECTOR | | |
| Ks > | SMOKE DETECTOR, WALL MOUNTED | GENERAL SYMBOLS | |
| S BR BR | BEAM TYPE SMOKE DETECTOR, CEILING MOUNTED (BT = TRANSMITTER, BR = REFLECTOR) | GENTEN (E OTTVIDOLO | |
| • | HEAT DETECTOR | SYMBOL | DESCRIPTION |
| F | MANUAL PULL STATION | | KEYED NOTE |
| AIM | ADDRESSABLE INPUT MODULE | | REVISION TRIANGLE |
| AOM | ADDRESSABLE OUTPUT MODULE | SP-1 | EQUIPMENT TAG |
| | STROBE, CEILING MOUNTED | MATCHLINE — CURRENT DRAWING | EQUIFMENT TAG |
| K | STROBE, WALL MOUNTED | SEE FA111 CONTINUATION OF DRAWING | MATCHLINE |
| | HORN | | |
| | HORN/STROBE | DRAWING TITLE SCALE: 1/8"=1'-0" | DRAWING TITLE |
| ▼ ∇ | SPEAKER/STROBE | SHEET SCALE | |
| c 💆 | CEILING MOUNTED HORN/STROBE | SHEET DETAIL NUMBER | |
| c 💆 | CEILING MOUNTED SPEAKER/STROBE | DIRECTION VIEWED DRAWING IDENTIFICATION | SECTION REFERENCE |
| FSD | FIRE SMOKE DAMPER | FA301 SHEET IDENTIFICATION | |
| CS | 2-WAY COMMUNICATIONS SYSTEM CALL STATION, CORNELL OR APPROVED. INSTALL AT 43" AFF. | DRAWING IDENTIFICATION SHEET IDENTIFICATION | DETAIL REFERENCE |
| MS | 2-WAY COMMUNICATIONS SYSTEM MASTER STATION, CORNELL OR APPROVED. INSTALL AT 43" AFF. | SHEET IDENTIFICATION | |
| PS | 2-WAY COMMUNICATIONS SYSTEM POWER SUPPLY, CORNELL OR APPROVED. | | |
| RS | 2-WAY COMMUNICATIONS SYSTEM REMOTE STATION, CORNELL OR APPROVED. INSTALL AT 43" AFF. | | ENLARGED PLAN REFERENCE |
| \bigcap | FIRE SPRINKLER BELL | FA401 | |

ABBREVIATIONS

| R (CONTRACTOR) | ABBREV. | DESCRIPTION | |
|----------------------------------|---------|-------------------------------|-----|
| NING, AND PAYING RED PRIOR TO | AFF | ABOVE FINISHED FLOOR | = 8 |
| N OF THE GENERAL | AHJ | AUTHORITY HAVING JURISDICTION | |
| | AHU | AIR HANDLER UNIT SHUTDOWN | |
| AC DADT OF THE | 7110 | ADDRESSABLE INPUT MODULE | |

ELEVATOR RECALL, ALTERNATE ADDRESSABLE OUTPUT MODULE AOM AUTOMATIC SPRINKLER BOTTOM OF BEAM BOTTOM OF DECK BOTTOM OF PIPE

BUTTERFLY VALVE CENTERLINE COMPOUND ACCESS CONTROL FACILITIES

EXISTING

ELEVATION

FAHRENHEIT

FINISHED FLOOR

FLOOR FLANGE

FIRE HOSE CABINET FIRE HOSE STATION

FIRE PUMP FAULT

FIRE SMOKE DAMPER

SUPPORT ANNEX

HIGH DENSITY POLYETHYLENE

GATE VALVE

FLOW SWITCH

GRADE

EXTENDED COVERAGE

FIRE ALARM ANNUNCIATOR FIRE ALARM CONTROL PANEL

FIRE DEPARTMENT CONNECTION

BOTTOM OF RISER

ORDINATION
ITIONS OF
OT LIMITED TO,
AND
INDOWS,
ED AND
INS, HVAC
IPMENT, CHECK VALVE DDCV DOUBLE DETECTOR CHECK VALVE ASSEMBLY DUCTILE IRON PIPE DROP NIPPLE ICTION,

| HSW | HORIZONTAL SIDE WALL |
|------|----------------------------------|
| HV | HOSE VALVE |
| ID | INSIDE DIAMETER |
| IN | INCHES |
| IE | INVERT ELEVATION |
| KH | KITCHEN HOOD INTERFACE |
| LOW | FIRE PUMP LOW FUEL |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| (N) | NEW |
| NAC | NOTIFICATION APPLIANCE CIRCUIT |
| NIC | NOT IN CONTRACT |
| NO | NUMBER |
| NTS | NOT TO SCALE |
| OBJ | OPEN BAR JOIST |
| OD | OUTSIDE DIAMETER |
| OS&Y | OUTSIDE SCREW & YOKE |
| PIV | POST INDICATOR VALVE |
| PRI | ELEVATOR RECALL, PRIMARY |
| PRV | PRESSURE RELEASE VALVE |
| PS | PRESSURE SWITCH |
| (R) | REMOVE |
| (RL) | RELOCATE |
| RN | RISER NIPPLE |
| RM | ROOF MANIFOLD |
| RUN | FIRE PUMP RUNNING |
| S | SOUNDER BASE |
| SLC | SIGNALING LINE CIRCUIT |
| ST | ELEVATOR, SHUNT TRIP |
| STS | ELEVATOR, SHUNT TRIP SUPERVISION |
| TMP | LOW SPACE TEMP |
| TNK | WATER TANK LEVEL |
| UTL | UTILITY BUILDING |
| VT | VALVE TAMPER SWITCH |
| WHS | WAREHOUSE |
| WP | WEATHERPROOF |
| | |
| | |

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CONSTRUCTION DOCUMEN

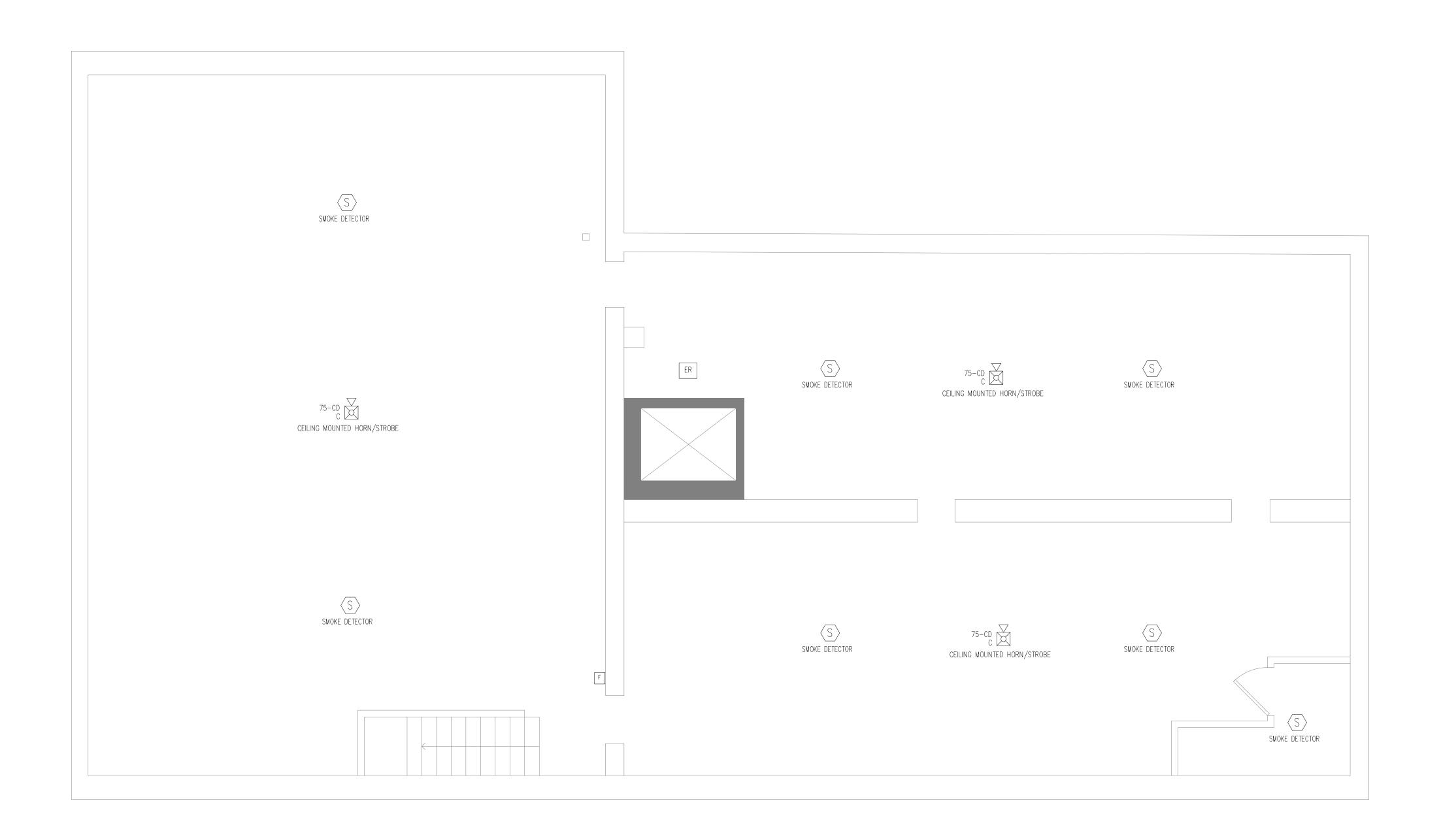
7610 DALE AVE, RICHMOND HEIGHTS, MISSOURI 63117 PROJECT STATUS: (SPACE, LL

Issued on 03/28/25 Revision Amandment Project #: 03257979 Drawings are for building permit applications

FIRE ALARM NOTES AND DETAILS

SHEET NUMBER:

FA1.0







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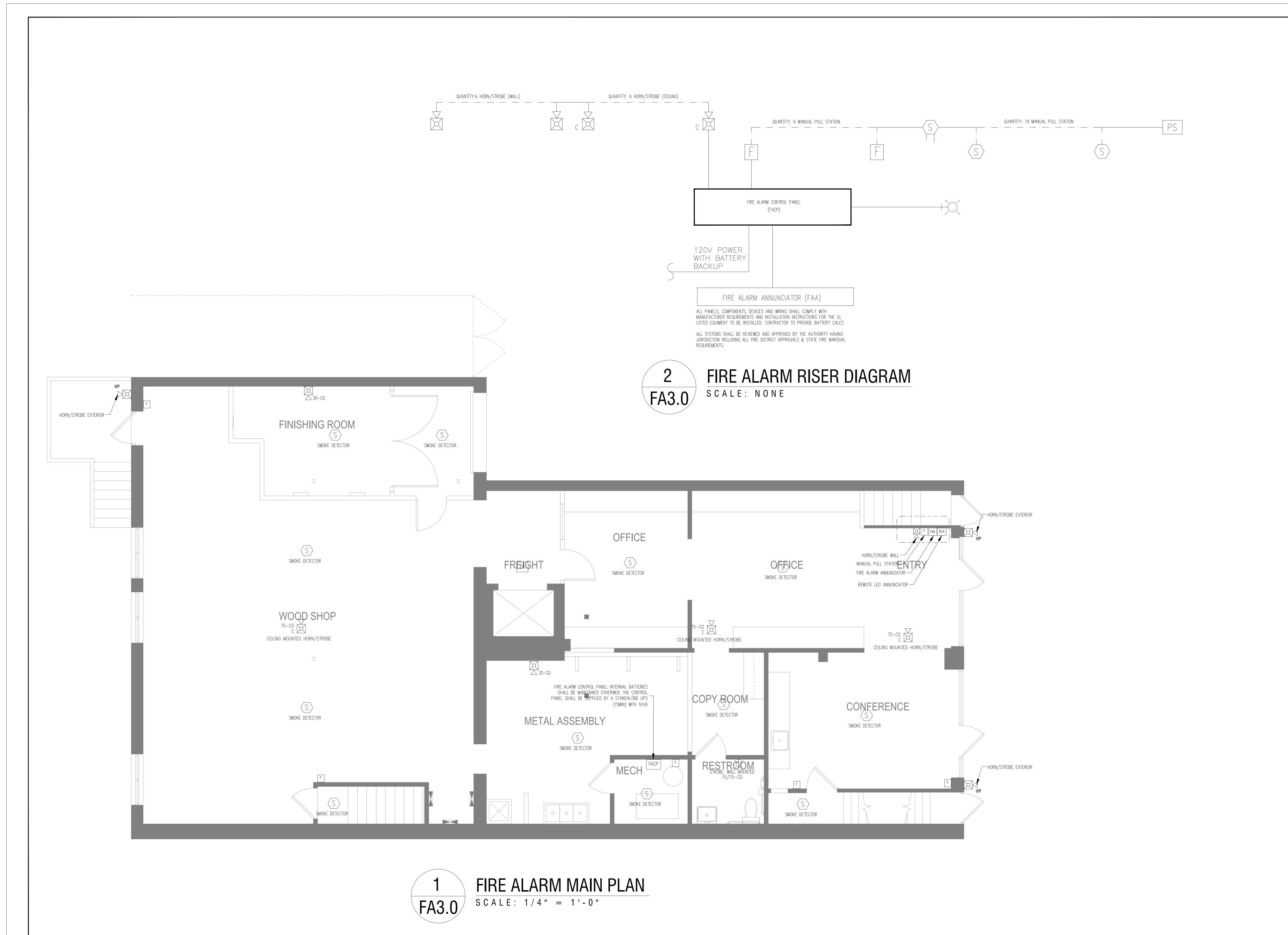
| Issued a | n <i>0</i> 3/28/25 | |
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| - | Revision | |
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| 3 | Amandment | |
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FIRE ALARM LOWER PLAN

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| Projec | :t #: | 032579 | 79 |

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FIRE ALARM MAIN PLAN

SHEET NUMBER:

FA3.0