

FIRE ALARM SYMBOLS LEGEND

NOTE: THESE ARE STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS. REFER TO SPECIFICATIONS FOR MOUNTING HEIGHTS.

FIRE ALARM SYSTEM

NOTE: (D) DENOTES DUCT MOUNTED (C) DENOTES CEILING MOUNTED (F) DENOTES FLUSH WALL MOUNTED (WP) DENOTES WEATHERPROTECTED

- FD1 THERMAL DETECTOR, FIXED - RATE-OF-RISE
SA SMOKE ALARM - NON SYSTEM, 120V (PROVIDE WITH BATTERY BACK-UP)
SD SMOKE DETECTOR - PHOTO
SD (60) DENOTES COMBINATION CARBON MONOXIDE AND SMOKE DETECTOR
CO CARBON MONOXIDE DETECTOR
F MANUAL PULL STATION
M MAGNETIC DOOR RELEASE
FS FLOW SWITCH (FIRE SPRINKLER)
TS TAMPER SWITCH (VALVE SUPERVISION)
RR CONTROL RELAY
RT REMOTE TEST INDICATOR
TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR
ACM ADDRESSABLE OUTPUT MODULE
AM ADDRESSABLE INPUT MODULE

- SY SIGNALING APPLIANCE - HORN (V) DENOTES WITH VISUAL SIGNAL (STROBE, 75CD UNLESS NOTED) - MOUNTED 8'0" A.F.F. TO BOTTOM OF STROBE
SY (75CD) SIGNALING APPLIANCE - STROBE (75CD UNLESS NOTED) - MOUNTED 8'0" A.F.F. TO BOTTOM OF STROBE
SY (520HZ) SIGNALING APPLIANCE - LOW FREQUENCY HORN (520HZ)
F FIRE ALARM SYSTEM RACEWAY
FACP FIRE ALARM ANNUNCIATOR PANEL
FACP FIRE ALARM CONTROL PANEL
FATC FIRE ALARM TERMINAL CABINET

FIRE ALARM ABBREVIATIONS

- TYP = TYPICAL
AFF = ABOVE FINISHED FLOOR
WP = WEATHERPROOF
CM = CEILING MOUNT DEVICE
WM = WALL MOUNT DEVICE
SLC = SIGNALING LINE CIRCUIT
FAFP = ANNUNCIATOR
FACP = FIRE ALARM CONTROL PANEL
NAC = NOTIFICATION APPLIANCE CIRCUIT

FIRE ALARM SEQUENCE OF OPERATION

TYPE OF SYSTEM: REMOTE STATION
24 HOURS STANDBY, 15 MINUTES ALARM USED FOR BATTERY CALCULATIONS

ALARM SEQUENCE:

THIS SYSTEM IS GENERAL ALARM. ACTIVATION OF AN ALARM INITIATING DEVICE WILL CAUSE THE NOTIFICATION APPLIANCES TO ACTIVATE THROUGHOUT THE BUILDING AND AN ALARM SIGNAL SHALL BE SENT TO THE FACP. SYSTEM POINT NUMBER AND DESCRIPTION SHALL BE DISPLAYED. POINT ADDRESS AND MESSAGE ASSOCIATED WITH THE POINT ON TERMINAL. A SIGNAL SHALL BE SENT TO THE OWNER'S REMOTE STATION VIA GSM CELLULAR PANEL. THE GSM CELLULAR PANEL SHALL TRANSMIT SEPARATE SIGNALS TO THE OFF SITE MONITORING COMPANY. THEY SHALL BE AS FOLLOWS: ALARM, SUPERVISORY, TROUBLE AND WATER FLOW.

TROUBLE CONDITIONS:

TROUBLE CONDITIONS WILL BE ANNUNCIATED AT THE FIRE ALARM CONTROL PANEL. A SIGNAL SHALL BE SENT TO THE OWNER'S REMOTE STATION VIA GSM CELLULAR PANEL. TROUBLE CONDITIONS CAN BE ANY OF THE FOLLOWING: LOSS OF A/C POWER, BATTERY FAILURE OR LOW BATTERY, GROUND FAULT, BREAK IN THE WIRING, DEFECTIVE OR DIRTY EQUIPMENT, DISCONNECTED OR REMOVED DEVICES, LOSS OF PHONE LINES, LOSS OF ELEVATOR POWER (WHEN INSTALLED).

SUPERVISORY CONDITIONS:

SUPERVISORY CONDITIONS WILL BE ANNUNCIATED AT THE FIRE ALARM CONTROL PANEL. A SIGNAL SHALL BE SENT TO THE OWNER'S REMOTE STATION VIA GSM CELLULAR PANEL. SUPERVISORY CONDITIONS CAN BE ANY OF THE FOLLOWING: SPRINKLER TAMPER SWITCHES OR DUCT DETECTORS.

INITIATING DEVICE OPERATIONS:

ACTIVATION OF A SMOKE DETECTOR WILL CAUSE AN ALARM CONDITION TO BE REPORTED. ACTIVATION OF A HEAT DETECTOR WILL CAUSE AN ALARM CONDITION TO BE REPORTED. MANUAL ACTIVATION OF A PULL STATION WILL CAUSE AN ALARM CONDITION TO BE REPORTED. SPRINKLER FLOW SWITCH (WHEN INSTALLED) WILL CAUSE AN ALARM CONDITION UPON ACTIVATION. SPRINKLER TAMPER SWITCHES (WHEN INSTALLED) WILL CAUSE A SUPERVISORY CONDITION UPON ACTIVATION. DUCT DETECTORS (WHEN INSTALLED) WHEN INITIATED WILL CAUSE A SUPERVISORY CONDITION.

AUXILIARY CONTROLS:

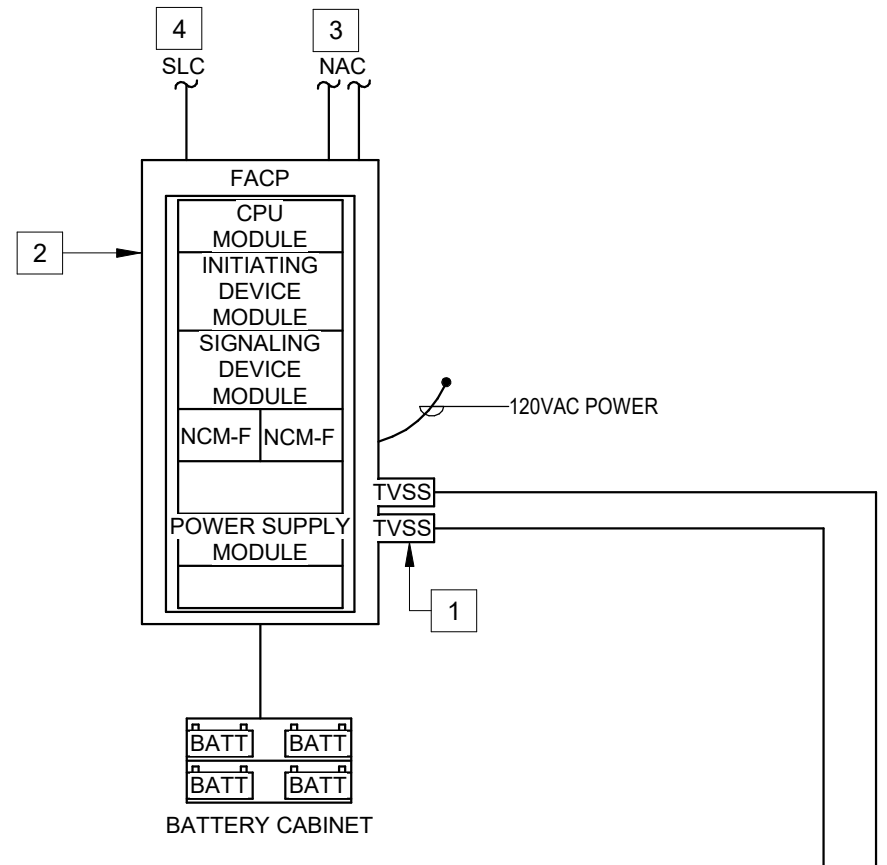
- 1. AIR HANDLERS CONTROLLED BY THE FIRE ALARM SYSTEM SHALL SHUT DOWN BY THEIR RESPECTIVE DUCT DETECTORS.
2. SOUND SYSTEM TO SHUT DOWN VIA CONTROL RELAY UPON AN ALARM CONDITION.
3. DOOR HOLDERS TO RELEASE UPON AN ALARM CONDITION.
4. GAS LINES TO BE CLOSED BY THE FIRE ALARM SYSTEM UPON ACTIVATION OF THE FIRE ALARM SYSTEM.
5. HVLS FANS TO BE SHUT DOWN BY THE FIRE ALARM SYSTEM UPON ACTIVATION OF THE FIRE ALARM SYSTEM.

61G15 FIRE ALARM NOTES

- 1. THE FIRE ALARM SYSTEM INCLUDES FIRE PROTECTION SUPERVISION, EMERGENCY ALARM CIRCUITS, LIFE SAFETY SYSTEM CONTROLS ACTIVATION, AND REMOTE SIGNALING OF EMERGENCY CONDITIONS.
2. DESIGN SPECIFICATIONS FOR THE PROJECT ARE IN ACCORDANCE WITH PARAMETERS FROM THE FLORIDA BUILDING CODE 8TH EDITION (2023), NFPA 72 (2019), NFPA 70 (2020) AND THE FLORIDA FIRE PREVENTION CODE 8TH EDITION (2023).
3. A PROFESSIONAL ENGINEER OF RECORD IS REQUIRED FOR THE DESIGN OF THE FIRE ALARM SYSTEM.
4. THE 61G ENGINEERING DOCUMENTS FOR THE FIRE ALARM SYSTEM SHALL INCLUDE:
A. THE FIRE ALARM SYSTEM LEGEND CAN BE FOUND ON THIS SHEET. THE RISER DIAGRAM CAN BE FOUND ON THIS SHEET. INITIATING CIRCUITS, SUPERVISORY CIRCUITS, AND NOTIFICATION CIRCUITS REQUIREMENTS SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF CLASS B PATHWAY SUPERVISABILITY LEVEL 1. THE GENERAL OCCUPANCY OF THIS PROJECT IS MIXED USE BUSINESS/RESIDENTIAL STORAGE AND THE OCCUPANCY LOAD IS 182.
B. LOCATIONS OF INITIATING AND NOTIFICATION DEVICES ARE SHOWN ON THE FLOOR PLANS AND SHALL CONFORM TO ALL CODES, STANDARDS, AND LOCAL ORDINANCES PERTAINING TO THIS PROJECT.
C. REQUIRED FUNCTIONS OF THE FIRE ALARM SYSTEM ARE LOCATED IN THE SEQUENCE OF OPERATIONS FOUND ON THIS SHEET. TRANSMISSION OF SIGNALS FROM THE FIRE ALARM SYSTEM TO REMOTE STATION SHALL BE BY A GSM CELLULAR PANEL UNLESS OTHERWISE NOTED.
D. THE FIRE ALARM SYSTEM SHALL BE ADDRESSABLE AND WILL BE A COMPLETE FIRE ALARM SYSTEM.
E. SURGE PROTECTION DEVICES ARE SHOWN ON THE FLOOR PLANS AND RISER DIAGRAM.
F. THE USE OF WEATHERPROOF DEVICES, FOR USES LISTED BY THE MANUFACTURER, FOR FIRE ALARM DEVICES THAT ARE SUBJECT TO ENVIRONMENTAL FACTORS BEING TEMPERATURE, HUMIDITY, OR CORROSIVE ATMOSPHERE SHALL BE INDICATED ON THE FLOOR PLAN.
G. SITE PLAN SHALL BE PROVIDED IN THIS SUBMITTAL. REFER TO CIVIL DRAWINGS FOR SITE PLAN.
H. THE FIRE ALARM SYSTEM SHALL BE A PRESCRIPTIVE BASED DESIGN.
I. ALL SMOKE DETECTORS SHALL BE LOCATED ON FLAT SMOOTH CEILINGS.
J. SMOKE STRATIFICATION IS NOT ANTICIPATED TO BE A FACTOR IN THIS DESIGN.
K. THE FIRE ALARM SYSTEM IS DESIGNED FOR GENERAL EVACUATION.
L. CABLING BURIAL DETAIL IS PROVIDED ON SHEET E502 AND ALL UNDERGROUND WIRING SHALL COMPLY WITH NFPA 70.
5. EOR HAS DETERMINED THAT NO SPECIFIC EQUIPMENT WILL BE REQUIRED FOR THIS PROJECT. BATTERY AND VOLTAGE CALCULATIONS HAVE NOT BEEN PROVIDED AS NO SPECIFIC EQUIPMENT HAS BEEN SPECIFIED. FIRE ALARM CONTRACTOR SHALL PROVIDE ALL REQUIRED BATTERY AND VOLTAGE CALCULATIONS.
6. FIRE ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED PER ALL APPROVED CODES AND STANDARDS PER NFPA 72. ALL LOCAL ORDINANCES AND POLICIES ARE TO BE ADHERED TO BY THE FIRE ALARM CONTRACTOR.
7. UPON COMPLETION OF THE FIRE ALARM SYSTEM, THE FIRE ALARM CONTRACTOR SHALL PROVIDE A COPY OF THE EQUIPMENT INSTALLED, ALL PERTAINING WARRANTIES, AND ALL OPERATION AND MAINTENANCE INSTRUCTIONS TO THE OWNER TO BE KEPT AT THE FIRE ALARM CONTROL PANEL.
8. THERE ARE NO SPECIAL REQUIREMENTS FOR THIS SYSTEM.

FIRE ALARM GENERAL NOTES

- A. ALL WALL-MOUNTED AUDIBLE & VISUAL SIGNALING APPLIANCES SHALL HAVE THEIR HEIGHTS ABOVE THE FINISHED FLOOR AT 8'0" PER FBC CHAPTER 11, ART 11.4.28.3. AREAS HAVING MORE THAN 2 STROBES IN THE FIELD OF VIEW SHALL BE SYNCHRONIZED PER NFPA 72, CH4-4.1.1(4).
B. SMOKE DETECTORS AND HEAT DETECTOR LOCATIONS ARE BASED ON SMOOTH CEILING WITH MAXIMUM HEIGHT OF 10 FEET UNLESS OTHERWISE NOTED.
C. STROBE LOCATION IS BASED ON 10 FOOT CEILING HEIGHT AND STROBE SHALL BE INSTALLED ACCORDING TO NFPA 72 REQUIREMENTS UNLESS OTHERWISE NOTED. ANY DEVICES ON CEILINGS OVER 10 FEET WILL BE DERATED PER NFPA-72.
D. CENTER OF MANUAL PULL STATIONS SHALL BE MOUNTED AT 48" MAXIMUM ABOVE FLOOR LEVEL, PER FBC CHAPTER 11.
E. ALL EQUIPMENT SHALL BE U.L. LISTED.
F. ALL WIRING SHALL BE IN ACCORDANCE WITH N.E.C. AND SPECIFICATION SECTION 28310.3.
G. ALL JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. AND SHALL HAVE THEIR COVERS PAINTED RED WHERE BOX IS INSTALLED BEHIND BUILDING FINISHES OR IN UNFINISHED SPACES.
H. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS AND DEVICES THAT REQUIRE SERVICING, TROUBLE SHOOTING, ETC.
I. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON SHOP DRAWINGS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
J. AREA DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIR-FLOW, NOR CLOSER THAN 5 FEET FROM AN AIR SUPPLY DIFFUSER.
K. ALL FAN SHUTDOWN FUNCTIONS, DAMPER CLOSURES AND ASSOCIATED MECHANICAL SYSTEM FIRE ALARM INTERFACE SHALL BE BY MECHANICAL CONTRACTOR. FIRE ALARM CONTRACTOR WILL PROVIDE OPEN CONTACT ON ALARM WITHIN THREE FEET OF THE STARTER.
L. ALL DUCT SMOKE DETECTORS SHALL BE MOUNTED BY THE MECHANICAL CONTRACTOR. DUCT SMOKE DETECTORS EXPOSED TO THE WEATHER SHALL BE WEATHER PROTECTED BY THE MECHANICAL CONTRACTOR AND LISTED FOR THE INSTALLATION. ALL AIR VELOCITY TESTING SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR.
M. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
N. ALL FIRE ALARM DEVICE BACKBOXES, FIRE ALARM TERMINAL CABINETS, GUTTERS, JUNCTION BOXES AND ASSOCIATED CONDUITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO FIRE ALARM SYMBOL LIST AND/OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED BACKBOXES SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
O. SMOKE DETECTOR TESTING SHALL BE IN ACCORDANCE WITH NFPA 72.
P. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPLE POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL PANEL TO SUPERVISE THE ANNUNCIATOR PANEL, ALL INITIATING AND INDICATING DEVICE CIRCUITS.
Q. ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.
R. POINT AND COMMON ANNUNCIATION AND T-TAPPING ARE PROHIBITED. (T-TAPPING IS ALLOWABLE ON STYLE 4 SLC LOOPS WHERE TAPS ARE LOCATED IN METALLIC JUNCTION BOXES).
S. PROVIDE 3/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO TELEPHONE BACKBOARD FOR OWNER PROVIDED CENTRAL STATION MONITORING VIA DATA LINES.
T. THE ALARM SYSTEM SHALL HAVE AN AUDIBILITY OF NOT LESS THAN 15dB ABOVE AMBIENT NOISE LEVELS, BUT NOT LESS THAN 75dB THROUGHOUT AREA OF ALARM. TESTING SHALL BE ACCOMPLISHED WITH A 4B METER, WHERE APPLICABLE.
U. FIRE ALARM SIGNAL SHALL MEET ANSI S3.41, AUDIBILITY EMERGENCY EVACUATION SIGNAL (TEMPORAL PATTERN).
V. ALL CONDUITS ARE 3/4" UNLESS OTHERWISE NOTED.
W. ALL FLOW SWITCHES SHALL BE 2 WIRE WITH NON-ELECTRONIC RETARD TYPE SIMILAR TO THE SYSTEM SENSOR MODEL "WFD SERIES" ONLY.
X. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
Y. DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN-UP OF ALL TRADES IS COMPLETE AND FINAL DETECTORS THAT HAVE BEEN INSTALLED PRIOR TO FINAL CLEAN-UP BY ALL TRADES SHALL BE CLEANED OR REPLACED. CLEANING OR REPLACEMENT OF DEVICES THAT WERE MOUNTED AT THE REQUEST OF THE CONTRACTOR WILL NOT BE PERFORMED WITHOUT WRITTEN AUTHORIZATION THAT ASSUMES FINANCIAL RESPONSIBILITY FOR COSTS INCURRED.



FIRE DETECTION AND ALARM NOTES

- 1. THE FIRE ALARM SYSTEM SHALL BE INSTALLED, MAINTAINED PER THE FOLLOWING, AND ALL OTHER REFERENCED AND ADOPTED CODES AND STANDARDS THEREIN:
A. 2020 FLORIDA BUILDING CODE, 7TH EDITION.
B. 2017 NATIONAL ELECTRICAL CODE, NFPA-70.
C. 2018 LIFE SAFETY CODE, NFPA-101, FLORIDA SPECIFIC EDITION.
D. 2016 NATIONAL FIRE ALARM CODE, NFPA-72.
E. 2017 FLORIDA FIRE PREVENTION CODE, 6TH EDITION.
F. ADDITIONAL LOCAL STANDARDS, ORDINANCES AND POLICIES.
2. THE FIRE ALARM SYSTEM SHALL CONSIST OF ALL NECESSARY HARDWARE EQUIPMENT AND SOFTWARE PROGRAMMING TO PERFORM THE FOLLOWING FUNCTIONS:
A. FIRE ALARM AND DETECTION OPERATIONS.
B. MONITORING OF BUILDING FIRE ALARM SYSTEM AS INDICATED IN THE DRAWINGS.
3. GENERAL ALARM - A SYSTEM GENERAL ALARM SHALL INCLUDE:
A. INDICATION OF ALARM CONDITION AT THE FIRE ALARM CONTROL PANEL.
B. SEE SEQUENCE OF OPERATIONS.
4. THE SYSTEM SHALL BE PROVIDED WITH SUFFICIENT BATTERY CAPACITY TO OPERATE THE ENTIRE SYSTEM UPON LOSS OF NORMAL 120 VAC POWER IN A NORMAL SUPERVISORY MODE FOR A PERIOD OF 24 HOURS WITH 15 MINUTES OF ALARM OPERATION AT THE END OF THIS PERIOD.
5. THE SYSTEM SHALL AUTOMATICALLY TRANSFER TO BATTERY STANDBY UPON POWER FAILURE. ALL BATTERY CHARGING AND RECHARGING OPERATIONS SHALL BE AUTOMATIC.
6. FIRE ALARM SYSTEM WIRING:
A. WIRING METHODS SHALL BE PER RATED CABLE AND INSTALLED IN A CONDUIT RACEWAY.
B. ANY FIRE ALARM MANUFACTURER SPECIFIC BACK BOX OR PANEL ENCLOSURE SHALL BE SUPPLIED BY THE FIRE ALARM CONTRACTOR. ALL OTHER BACK BOXES AND CONDUIT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
C. FIRE ALARM CABLE SHALL BE CLASS "B" STYLE 4 FOR THE SIGNALING LINE CIRCUIT (SLC), CLASS "B" STYLE "B" FOR THE INITIATING DEVICE CIRCUIT (IDC), AND CLASS "B" STYLE "B" FOR THE NOTIFICATION CIRCUIT (NAC).
D. WIRING SHALL BE PROTECTED FROM PHYSICAL DAMAGE AS REQUIRED BY NFPA 70, ARTICLES 300 AND 760. WIRE TYPE SHALL BE LISTED FOR ITS INTENDED USE BY AN APPROVAL AGENCY ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION (AHJ) AND SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES FROM THE CURRENT APPROVED EDITION OF NFPA 70: NATIONAL ELECTRIC CODE (NEC).
E. SIGNALING LINE CIRCUIT DEVICE WIRING SHALL BE #18 AWG MINIMUM.
F. VISUAL ALARM NOTIFICATION DEVICE WIRING SHALL BE #14 AWG MINIMUM.
G. SPEAKER ALARM NOTIFICATION DEVICE WIRING SHALL BE #18 AWG TWISTED/SHIELDED MINIMUM.
H. APPROVED MULTI-CONDUCTOR CABLES ARE ACCEPTABLE AS SUBSTITUTES.
I. ALL WIRING SHALL BE SUPERVISED PER NFPA 72.
J. ALL INTERIOR CONDUIT WHERE REQUIRED SHALL BE 3/4" MINIMUM.
K. ALL EXTERIOR UNDERGROUND CONDUIT SHALL BE 1" MINIMUM.
7. ALL STROBES SHALL BE SYNCHRONIZED.
8. ALL CEILING MOUNTED DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS OF NFPA 72. DETECTORS SHALL BE POSITIONED TO AVOID DRAFTS FROM SUPPLY AIR DIFFUSERS AND AN ADEQUATE DISTANCE FROM EQUIPMENT PRODUCING SUDDEN TEMPERATURE CHANGES, WHICH WOULD RESULT IN NUISANCE FALSE ALARMS. CEILING SMOKE DETECTORS SHALL BE SO LOCATED AS TO NOT ALLOW SUPPLY AIR GRILLS TO IMPEDE THE EFFECTIVE OPERATION OF THE DETECTOR. POSITION DETECTOR A MINIMUM OF 3 FEET FROM SUPPLY AND RETURN AIR GRILLS.
9. THE FIRE ALARM CONTROL PANEL AND POWER EXTENDER PANELS SHALL BE CONNECTED TO A DEDICATED, LOCKED, AND MARKED BREAKER. THE 120 VAC CIRCUIT(S) THAT FEED THE FIRE ALARM CONTROL PANELS SHALL BE IDENTIFIED AT BOTH THE FIRE ALARM CONTROL PANEL(S) AND THE ELECTRICAL PANEL CIRCUIT LOCATION. ELECTRICAL CONTRACTOR SHALL PROVIDE A DEDICATED 120VAC CIRCUIT WITH BUILDING GROUND FOR THE FIRE ALARM CONTROL PANEL(S). THE CONTROLLING BREAKER(S) SHALL HAVE A LOCK ON PROVISION AND SHALL COMPLY WITH NFPA 72 (2016 ed.) 10.5.5.1 - 10.5.5.3.

FIRE ALARM SHEET KEYNOTES # :

- 1. SURGE PROTECTION DEVICE (TVSS) - REFER TO SPECIFICATIONS FOR MORE INFORMATION ON DEVICE.
2. FIRE ALARM CONTROL PANEL (FACP) - REFER TO SPECIFICATIONS FOR MORE INFORMATION ON CONTROL PANEL.
3. 3/4" CONDUIT WITH NOTIFICATION APPLIANCE CIRCUIT AS REQUIRED BY SYSTEM MANUFACTURER. REFER TO RESPECTIVE BUILDING FLOOR PLANS FOR QUANTITIES AND LOCATIONS OF EVERY NOTIFICATION DEVICE.
4. 3/4" CONDUIT WITH SIGNALING LINE CIRCUIT AS REQUIRED BY SYSTEM CONTRACTOR. REFER TO RESPECTIVE BUILDING FLOOR PLANS FOR QUANTITIES AND LOCATIONS OF EVERY INITIATING DEVICE.
5. SITE TAMPER SWITCHES - COORDINATE EXACT LOCATION WITH FIRE SPRINKLER CONTRACTOR AND SITE CIVIL PRIOR TO ROUGH-IN.

FIRE ALARM NOTES:

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E. ALL EQUIPMENT SHALL BE U.L. LISTED.
F. ALL WIRING SHALL BE IN ACCORDANCE WITH N.E.C. AND SPECIFICATION SECTION 28310.3.
G. ALL JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. AND SHALL HAVE THEIR COVERS PAINTED RED WHERE BOX IS INSTALLED BEHIND BUILDING FINISHES OR IN UNFINISHED SPACES.
H. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS AND DEVICES THAT REQUIRE SERVICING, TROUBLE SHOOTING, ETC.
I. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON SHOP DRAWINGS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
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L. ALL DUCT SMOKE DETECTORS SHALL BE MOUNTED BY THE MECHANICAL CONTRACTOR. DUCT SMOKE DETECTORS EXPOSED TO THE WEATHER SHALL BE WEATHER PROTECTED BY THE MECHANICAL CONTRACTOR AND LISTED FOR THE INSTALLATION. ALL AIR VELOCITY TESTING SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR.
M. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
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O. SMOKE DETECTOR TESTING SHALL BE IN ACCORDANCE WITH NFPA 72 SECTION 7.5.4.
P. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPLE POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL PANEL TO SUPERVISE THE ANNUNCIATOR PANEL, ALL INITIATING AND INDICATING DEVICE CIRCUITS.
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SANIBEL FIRE & RESCUE DISTRICT
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SANIBEL FIRE AND RESCUE STATION 171 RENOVATION

PROJECT LOCATION:

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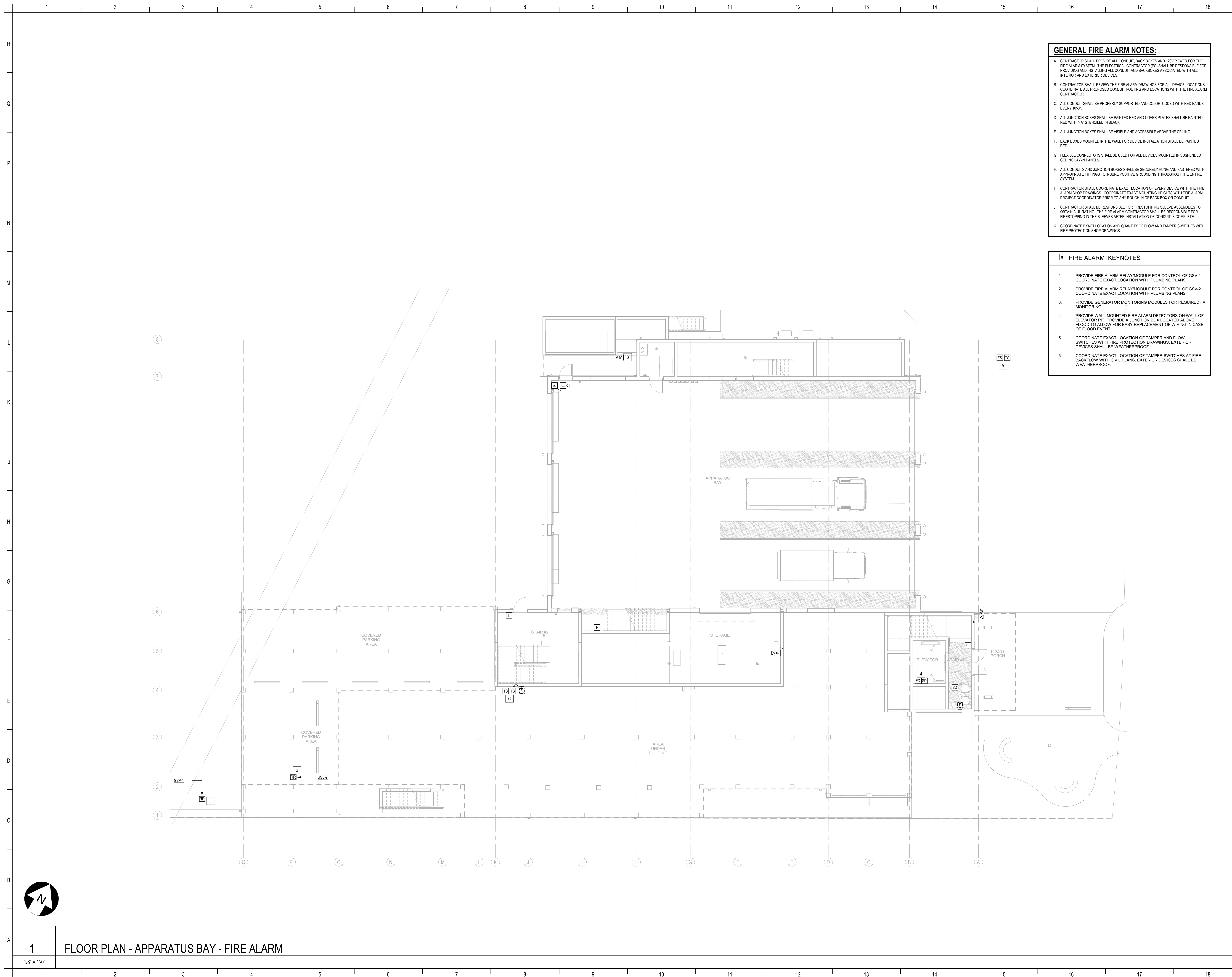
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Table with 3 columns: MARK, DESCRIPTION, DATE. Includes a 'REVISIONS' header.

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DRAWN BY: GFS

GENERAL NOTES & DESIGN CRITERIA - FIRE ALARM

FA001
100% CONSTRUCTION DOCUMENTS



GENERAL FIRE ALARM NOTES:

- CONTRACTOR SHALL PROVIDE ALL CONDUIT, BACK BOXES AND 120V POWER FOR THE FIRE ALARM SYSTEM. THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL CONDUIT AND BACKBOXES ASSOCIATED WITH ALL INTERIOR AND EXTERIOR DEVICES.
- CONTRACTOR SHALL REVIEW THE FIRE ALARM DRAWINGS FOR ALL DEVICE LOCATIONS. COORDINATE ALL PROPOSED CONDUIT ROUTING AND LOCATIONS WITH THE FIRE ALARM CONTRACTOR.
- ALL CONDUIT SHALL BE PROPERLY SUPPORTED AND COLOR CODED WITH RED BANDS EVERY 10'-0".
- ALL JUNCTION BOXES SHALL BE PAINTED RED AND COVER PLATES SHALL BE PAINTED RED WITH "FA" STENCILED IN BLACK.
- ALL JUNCTION BOXES SHALL BE VISIBLE AND ACCESSIBLE ABOVE THE CEILING.
- BACK BOXES MOUNTED IN THE WALL FOR DEVICE INSTALLATION SHALL BE PAINTED RED.
- FLEXIBLE CONNECTORS SHALL BE USED FOR ALL DEVICES MOUNTED IN SUSPENDED CEILING LAY-IN PANELS.
- ALL CONDUITS AND JUNCTION BOXES SHALL BE SECURELY HUNG AND FASTENED WITH APPROPRIATE FITTINGS TO INSURE POSITIVE GROUNDING THROUGHOUT THE ENTIRE SYSTEM.
- CONTRACTOR SHALL COORDINATE EXACT LOCATION OF EVERY DEVICE WITH THE FIRE ALARM SHOP DRAWINGS. COORDINATE EXACT MOUNTING HEIGHTS WITH FIRE ALARM PROJECT COORDINATOR PRIOR TO ANY ROUGH-IN OF BACK BOX OR CONDUIT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING SLEEVE ASSEMBLIES TO OBTAIN A UL RATING. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING IN THE SLEEVES AFTER INSTALLATION OF CONDUIT IS COMPLETE.
- COORDINATE EXACT LOCATION AND QUANTITY OF FLOW AND TAMPER SWITCHES WITH FIRE PROTECTION SHOP DRAWINGS.

FIRE ALARM KEYNOTES

- PROVIDE FIRE ALARM RELAY/MODULE FOR CONTROL OF GSV-1. COORDINATE EXACT LOCATION WITH PLUMBING PLANS.
- PROVIDE FIRE ALARM RELAY/MODULE FOR CONTROL OF GSV-2. COORDINATE EXACT LOCATION WITH PLUMBING PLANS.
- PROVIDE GENERATOR MONITORING MODULES FOR REQUIRED FA MONITORING.
- PROVIDE WALL MOUNTED FIRE ALARM DETECTORS ON WALL OF ELEVATOR PIT. PROVIDE A JUNCTION BOX LOCATED ABOVE FLOOD TO ALLOW FOR EASY REPLACEMENT OF WIRING IN CASE OF FLOOD EVENT.
- COORDINATE EXACT LOCATION OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION DRAWINGS. EXTERIOR DEVICES SHALL BE WEATHERPROOF.
- COORDINATE EXACT LOCATION OF TAMPER SWITCHES AT FIRE BACKFLOW WITH CIVIL PLANS. EXTERIOR DEVICES SHALL BE WEATHERPROOF.



SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

**SANIBEL FIRE AND RESCUE
STATION 171 RENOVATION**

PROJECT LOCATION:
2351 PALM RIDGE ROAD
SANIBEL, FLORIDA 33957



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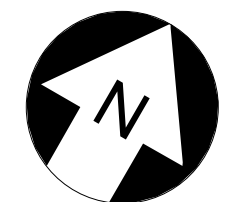
KYRANOS G. LATSOBS, P.E.
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TALLAHASSEE, FL 32310
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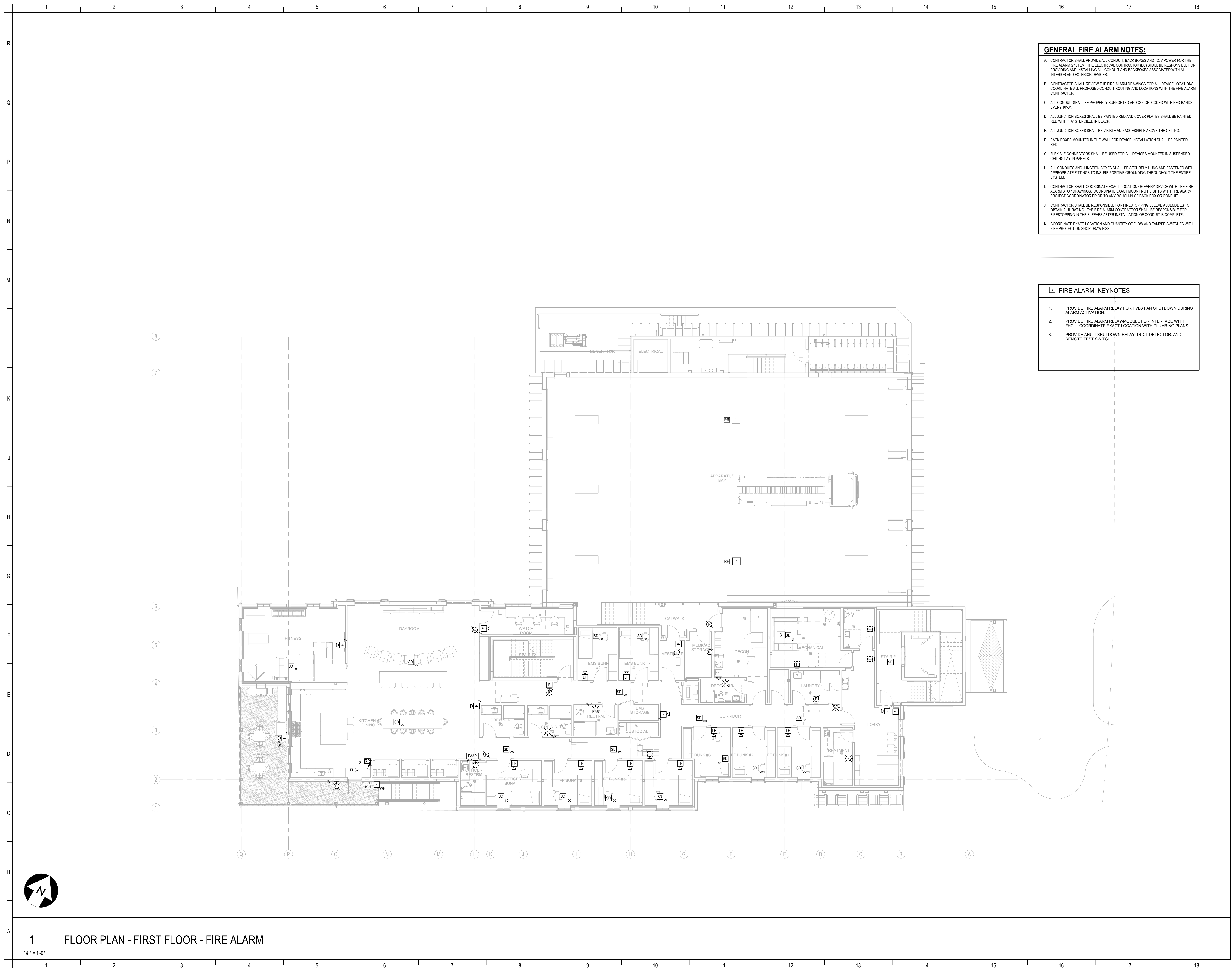
**FLOOR PLAN - APPARATUS
BAY - FIRE ALARM**



1 FLOOR PLAN - APPARATUS BAY - FIRE ALARM

1/8" = 1'-0"

FA101
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GENERAL FIRE ALARM NOTES:

- CONTRACTOR SHALL PROVIDE ALL CONDUIT, BACK BOXES AND 120V POWER FOR THE FIRE ALARM SYSTEM. THE ELECTRICAL CONTRACTOR (EC) SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL CONDUIT AND BACKBOXES ASSOCIATED WITH ALL INTERIOR AND EXTERIOR DEVICES.
- CONTRACTOR SHALL REVIEW THE FIRE ALARM DRAWINGS FOR ALL DEVICE LOCATIONS. COORDINATE ALL PROPOSED CONDUIT ROUTING AND LOCATIONS WITH THE FIRE ALARM CONTRACTOR.
- ALL CONDUIT SHALL BE PROPERLY SUPPORTED AND COLOR CODED WITH RED BANDS EVERY 10'-0".
- ALL JUNCTION BOXES SHALL BE PAINTED RED AND COVER PLATES SHALL BE PAINTED RED WITH "FA" STENCILED IN BLACK.
- ALL JUNCTION BOXES SHALL BE VISIBLE AND ACCESSIBLE ABOVE THE CEILING.
- BACK BOXES MOUNTED IN THE WALL FOR DEVICE INSTALLATION SHALL BE PAINTED RED.
- FLEXIBLE CONNECTORS SHALL BE USED FOR ALL DEVICES MOUNTED IN SUSPENDED CEILING LAY-IN PANELS.
- ALL CONDUITS AND JUNCTION BOXES SHALL BE SECURELY HUNG AND FASTENED WITH APPROPRIATE FITTINGS TO INSURE POSITIVE GROUNDING THROUGHOUT THE ENTIRE SYSTEM.
- CONTRACTOR SHALL COORDINATE EXACT LOCATION OF EVERY DEVICE WITH THE FIRE ALARM SHOP DRAWINGS. COORDINATE EXACT MOUNTING HEIGHTS WITH FIRE ALARM PROJECT COORDINATOR PRIOR TO ANY ROUGH-IN OF BACK BOX OR CONDUIT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING SLEEVE ASSEMBLIES TO OBTAIN A UL RATING. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING IN THE SLEEVES AFTER INSTALLATION OF CONDUIT IS COMPLETE.
- COORDINATE EXACT LOCATION AND QUANTITY OF FLOW AND TAMPER SWITCHES WITH FIRE PROTECTION SHOP DRAWINGS.

FIRE ALARM KEYNOTES

- PROVIDE FIRE ALARM RELAY FOR HVLS FAN SHUTDOWN DURING ALARM ACTIVATION.
- PROVIDE FIRE ALARM RELAY/MODULE FOR INTERFACE WITH FHC-1. COORDINATE EXACT LOCATION WITH PLUMBING PLANS.
- PROVIDE ARL-1 SHUTDOWN RELAY, DUCT DETECTOR, AND REMOTE TEST SWITCH.



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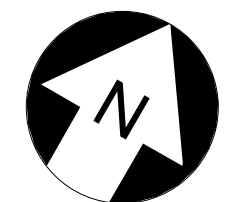
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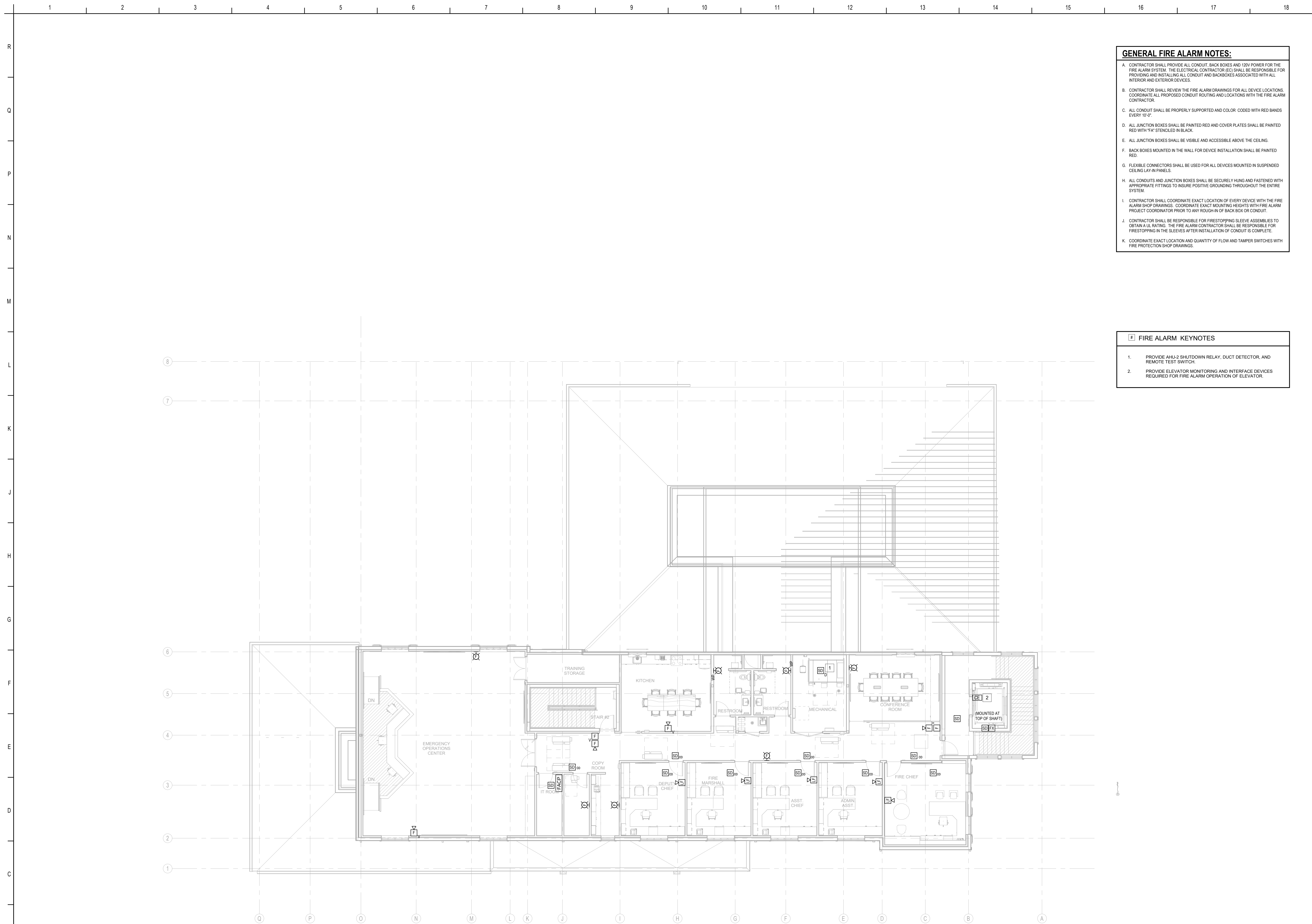
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**FLOOR PLAN - FIRST FLOOR
- FIRE ALARM**



1 FLOOR PLAN - FIRST FLOOR - FIRE ALARM

1/8" = 1'-0"



GENERAL FIRE ALARM NOTES:

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- COORDINATE EXACT LOCATION AND QUANTITY OF FLOW AND TAMPER SWITCHES WITH FIRE PROTECTION SHOP DRAWINGS.

FIRE ALARM KEYNOTES

- PROVIDE AHJ-2 SHUTDOWN RELAY, DUCT DETECTOR, AND REMOTE TEST SWITCH.
- PROVIDE ELEVATOR MONITORING AND INTERFACE DEVICES REQUIRED FOR FIRE ALARM OPERATION OF ELEVATOR.



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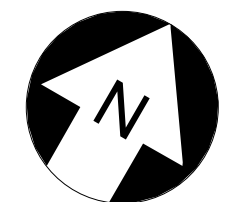
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FLOOR PLAN - SECOND FLOOR - FIRE ALARM



1 FLOOR PLAN - SECOND FLOOR - FIRE ALARM

1/8" = 1'-0"



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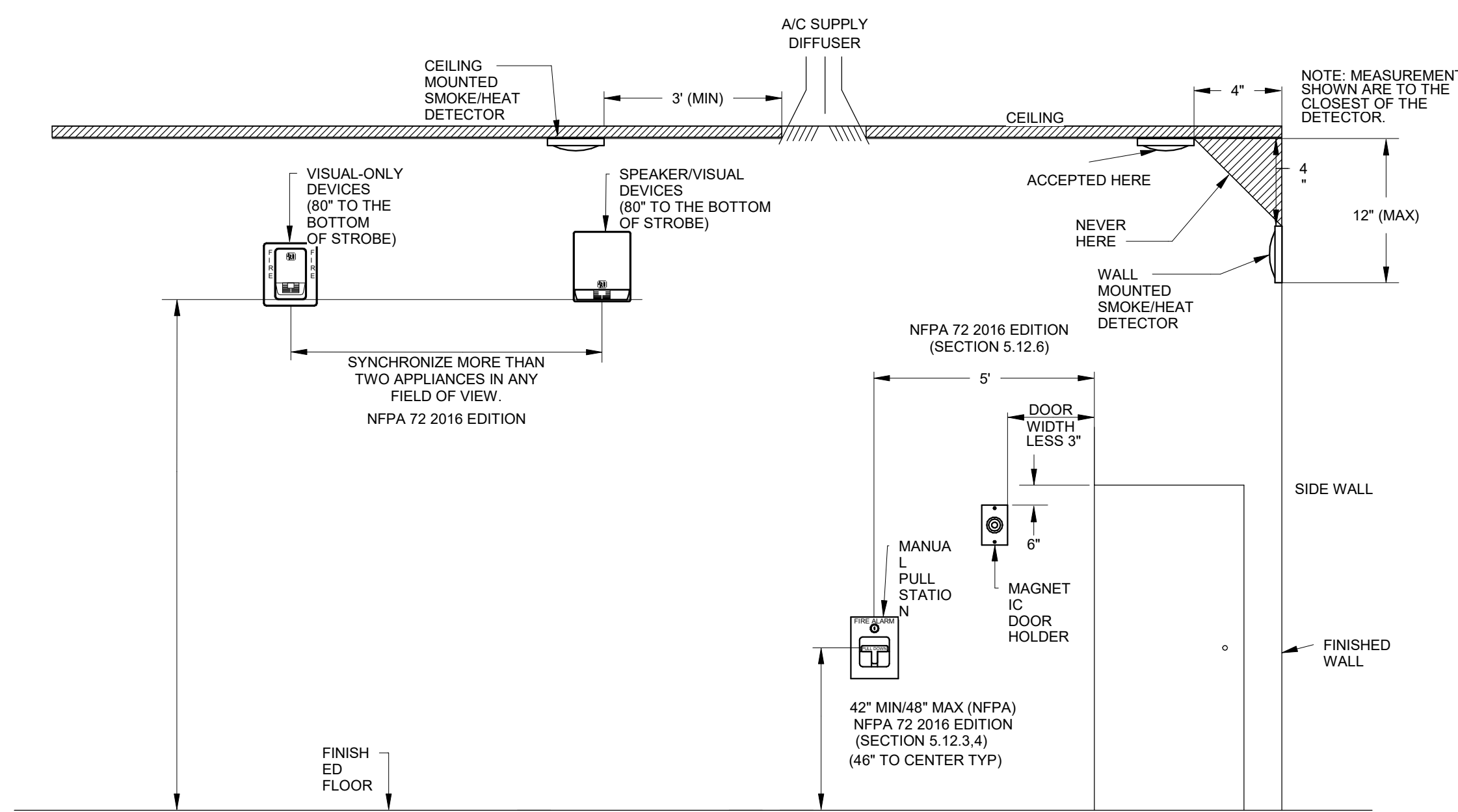
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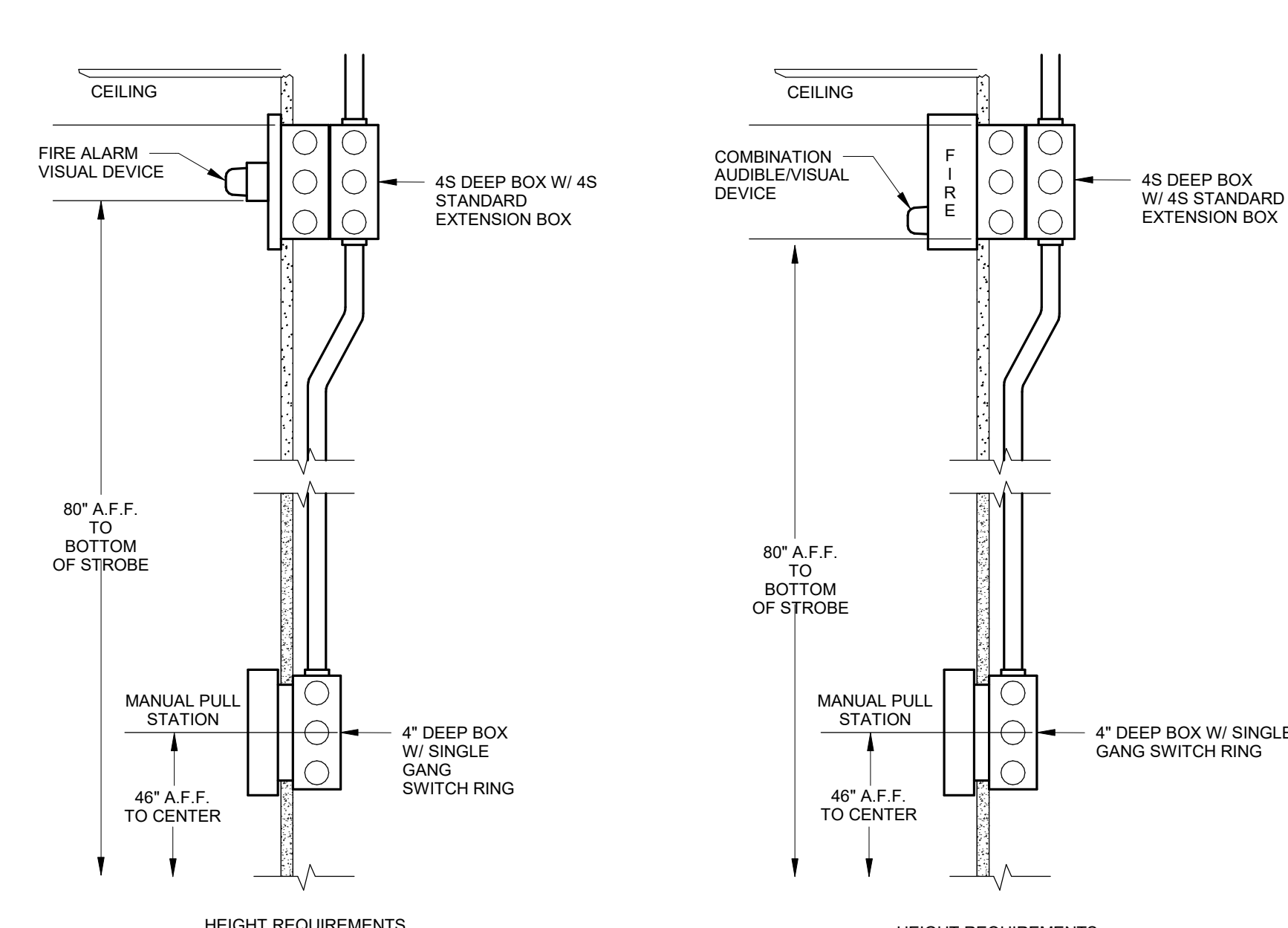
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DETAILS - FIRE ALARM

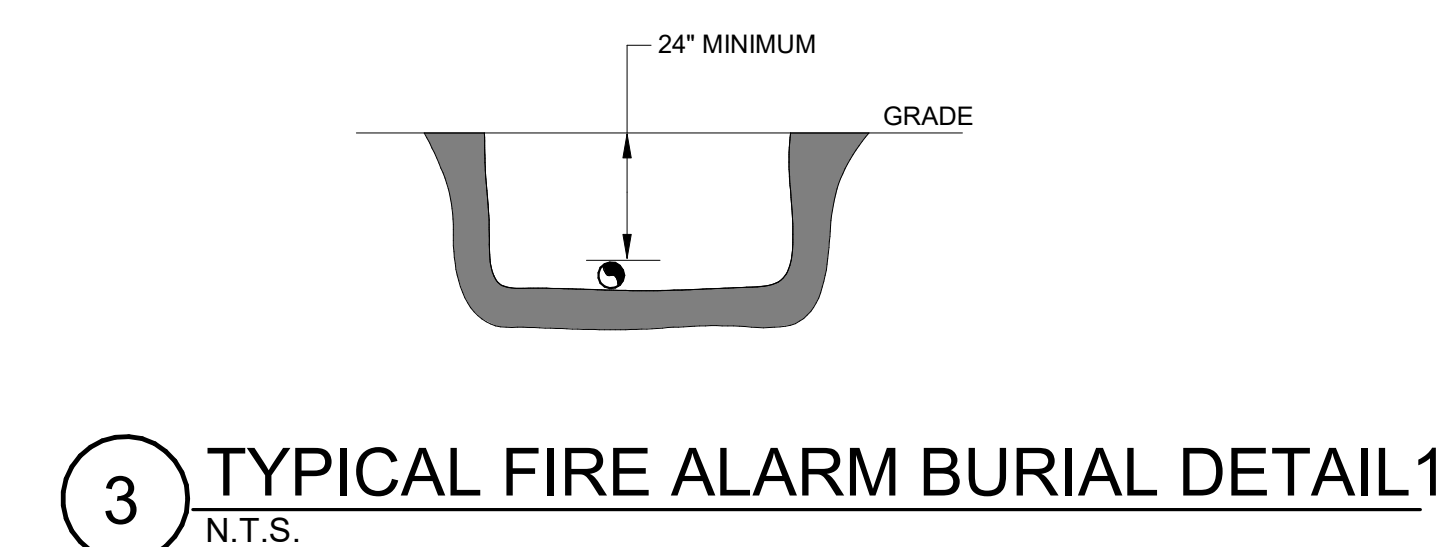
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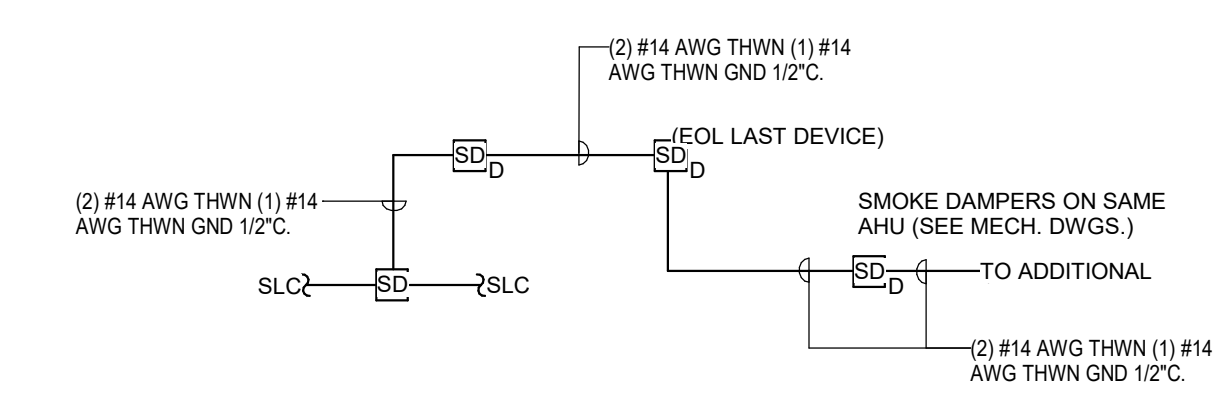
1 FIRE ALARM DEVICE MOUNTING HEIGHTS DETAIL 1
N.T.S.



2 WALL MOUNTED FIRE ALARM DEVICE MOUNTING ELEVATIONS
N.T.S.

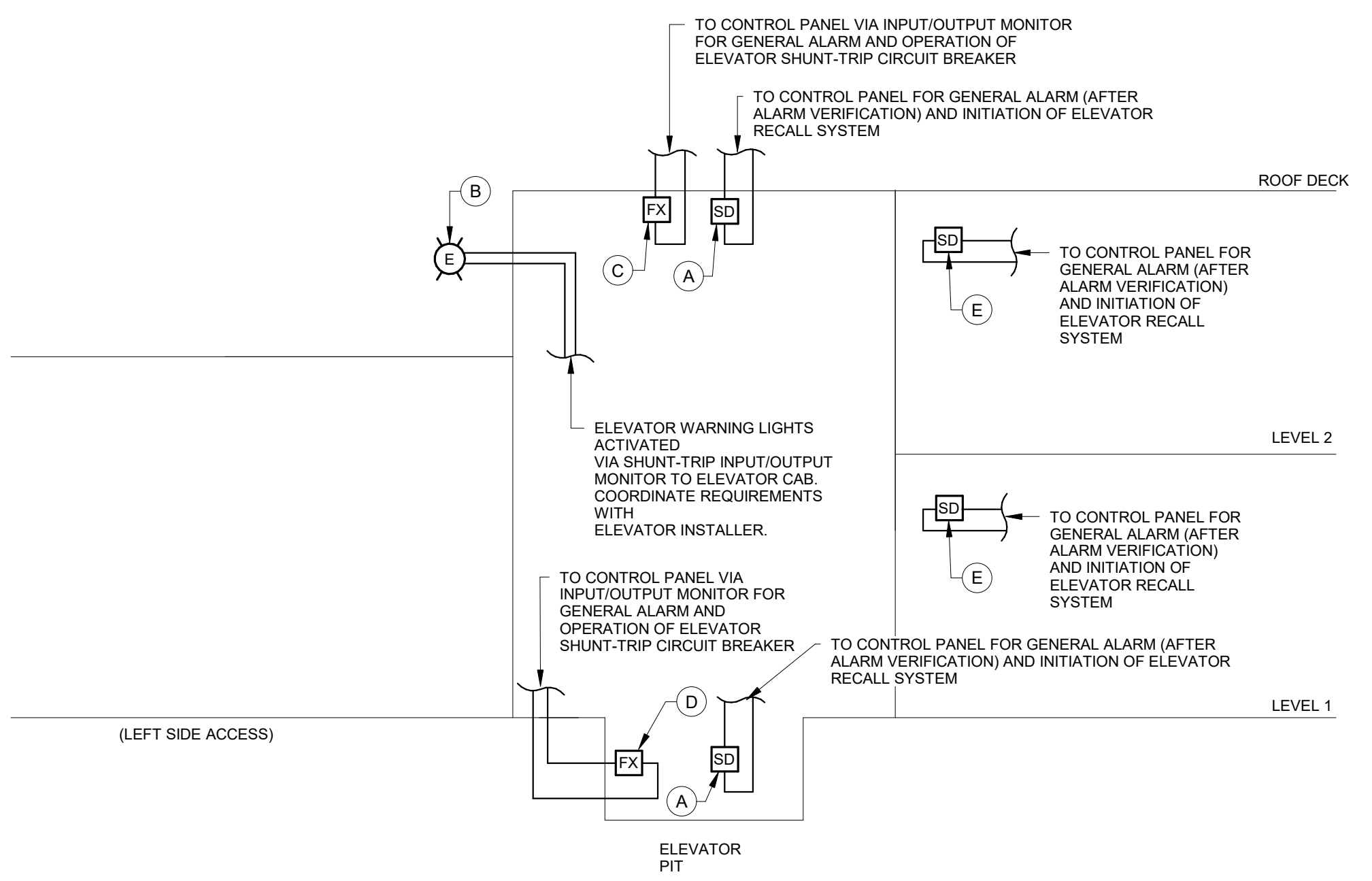


3 TYPICAL FIRE ALARM BURIAL DETAIL 1
N.T.S.

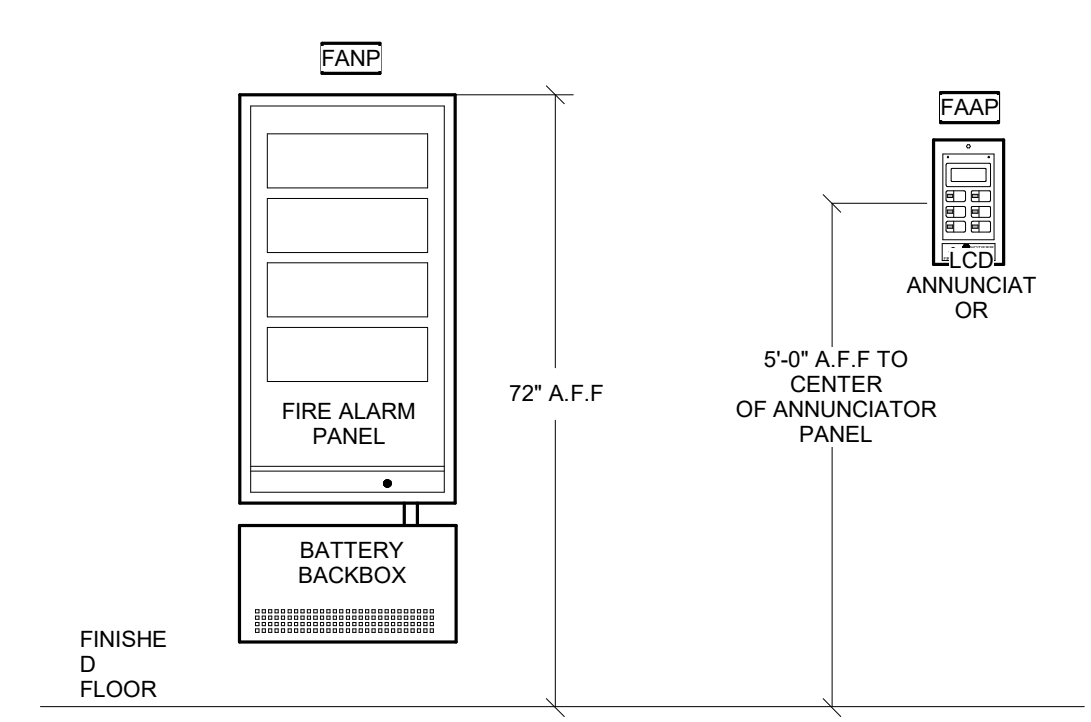


4 TYPICAL DUCT SMOKE DETECTOR SUPERVISION DIAGRAM
N.T.S.

- LEGEND**
- A SMOKE DETECTOR MOUNTED AT TOP AND BOTTOM OF ELEVATOR SHAFT.
 - B FLASHING WARNING LIGHT "DO NOT USE ELEVATOR" LOCATED WITHIN THE ELEVATOR CAB. COORDINATED EXACT WIRE TERMINATION LOCATION WITH THE ELEVATOR CONTRACTOR.
 - C 180° F FIXED TEMPERATURE CEILING MOUNTED HEAT DETECTOR AT THE TOP OF THE ELEVATOR SHAFT. ONE DETECTOR REQUIRED FOR EACH SPRINKLER HEAD WITHIN THE SHAFT. HEAT DETECTOR SHALL BE LOCATED WITHIN TWO FEET OF SPRINKLER HEAD.
 - D 136° F RATE-OF-RISE WALL MOUNTED HEAT DETECTOR IN ELEVATOR PIT.
 - E CEILING MOUNTED SMOKE DETECTOR IN ELEVATOR LOBBY.
- NOTES**
1. DERIVE POWER FOR FLASHING WARNING LIGHTS FROM VISUAL ALARM CIRCUIT IN FIRE ALARM CONTROL PANEL.
 2. INITIATION OF ELEVATOR LOBBY, TOP OF SHAFT, OR BOTTOM OF SHAFT SMOKE DETECTOR LOOP SHALL PLACE ELEVATOR CONTROL INTO PHASE 1 RECALL MODE AND RETURN ELEVATOR TO DESIGNATED SAFE LEVEL.



5 TYPICAL ELEVATOR FIRE ALARM SYSTEM 1
N.T.S.



6 FIRE ALARM PANEL ELEVATIONS 1
N.T.S.