

GENERAL NOTES:

- INSTALL ALL MODULES WITHIN SMOKE CONTROL INTERFACE CABINET AS INDICATED. INSTALL CABINET WITHIN 30' OF ASSOCIATED SMOKE CONTROL FAN CONTROLLER.
- WIRING BETWEEN MODULES AND TERMINALS NOT SHOWN FOR CLARITY.
- THIS DETAIL IS APPLICABLE TO ALL SMOKE CONTROL FANS.
- WIRING FROM FIRE ALARM MODULES TO INTERFACE EQUIPMENT BY DIVISION 28.
- INTERPOSING RELAYS AND ADDRESSABLE RELAYS SHALL BE CAPABLE OF OPERATING WITHIN THE VOLTAGE AND CURRENT LIMITATIONS OF THE FIRE ALARM SYSTEM CONTROL UNIT.
- INTERPOSING RELAYS SHALL BE LISTED FOR USE IN SMOKE CONTROL APPLICATIONS.
- FACTORY WIRING SHALL BE BY IPC CERTIFIED WIRING TECHNICIAN IN A CONTROLLED ISO 9001 REGISTERED ENVIRONMENT.

KEY NOTES:

- EQUIPMENT:**
- MONITOR MODULE (MM) SUPERVISION OF FAN POWER VOLTAGE RELAY
 - MM SUPERVISION OF LOCAL FAN MOTOR DISCONNECT POSITION
 - MM SUPERVISION OF DIFFERENTIAL PRESSURE SWITCH / CURRENT TRANSFORMER (CT) SENSOR
 - MM SUPERVISION OF AUTOMATIC CONTROL DAMPER (ACD) POSITION (OPEN)
 - MM SUPERVISION OF ACD POSITION (CLOSED)
 - RELAY MODULE (RM) START FAN
 - RM STOP FAN
 - RM OPEN/CLOSE AUTOMATIC CONTROL DAMPER
 - INTERPOSING RELAY (IR) FAN VOLTAGE MONITORING MR SERIES RELAY
 - IR AUTOMATIC CONTROL DAMPER CONTROL MR SERIES RELAY

FIELD WIRING:

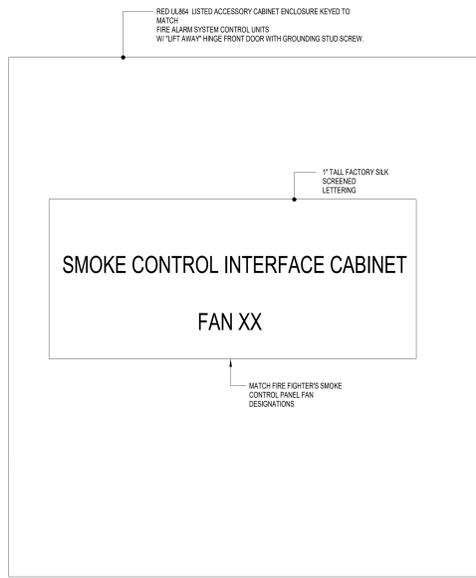
- SIGNALING LINE CIRCUIT (SLC) IN
- SLC OUT
- INITIATING DEVICE CIRCUIT (IDC) WIRING TO LOCAL DISCONNECT SWITCH FAN MOTOR
- IDC WIRING TO DP SWITCH / CT SENSOR
- IDC WIRING TO ACD "OPEN" END SWITCH
- IDC WIRING TO "CLOSED" END SWITCH
- RELAY WIRING TO FAN VARIABLE FREQUENCY DRIVE (VFD) START/STOP CONTACTS
- RELAY WIRING TO FAN VFD SAFETY INTERLOCK CONTACTS
- SUPERVISION WIRING TO FAN POWER CIRCUIT. MAKE CONNECTION DOWNSTREAM OF LOCAL DISCONNECT ON FAN VFD.
- 120VAC DAMPER POWER WIRING IN
- 120VAC DAMPER POWER WIRING OUT

FACTORY WIRING:

- SLC TO/FROM ADDRESSABLE MODULES
- SLC IN/OUT OF ADDRESSABLE MODULE
- IDC / RELAY / VOLTAGE WIRING TO FACTORY TERMINAL CONNECTION SWITCH FAN MOTOR
- IDC / RELAY / VOLTAGE WIRING FROM ADDRESSABLE MODULES / MR SERIES RELAYS
- IDC WIRING TO FAN POWER VOLTAGE RELAY
- RELAY WIRING TO DAMPER CONTROL RELAY
- IDC / RELAY WIRING FROM ADDRESSABLE MODULES
- PRE-LABELED FIELD TERMINAL CONNECTIONS
- FACTORY TERMINAL CONNECTIONS
- HIGH/LOW VOLTAGE CLEAR LED/AN DIVIDER

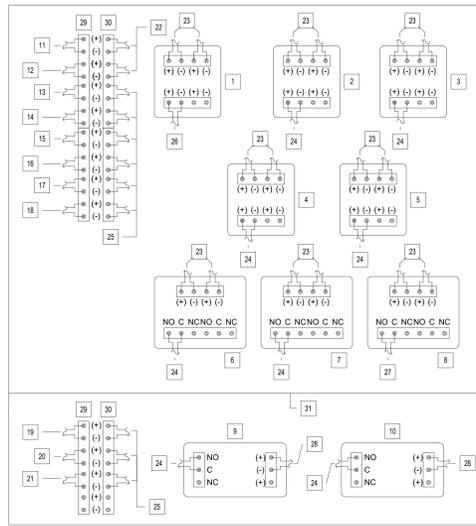
CABINET ENCLOSURE:

- PRE-LABELED FIELD TERMINAL CONNECTIONS
- FACTORY TERMINAL CONNECTIONS
- HIGH/LOW VOLTAGE CLEAR LED/AN DIVIDER

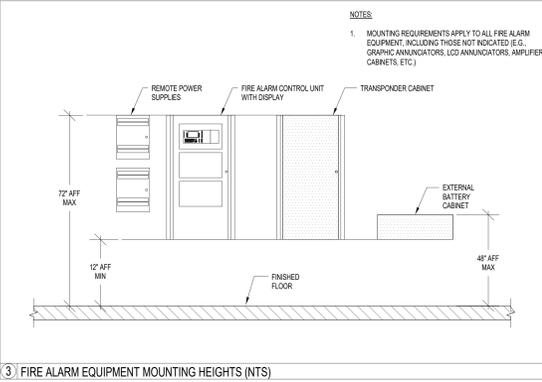


SMOKE CONTROL CABINET - FRONT VIEW

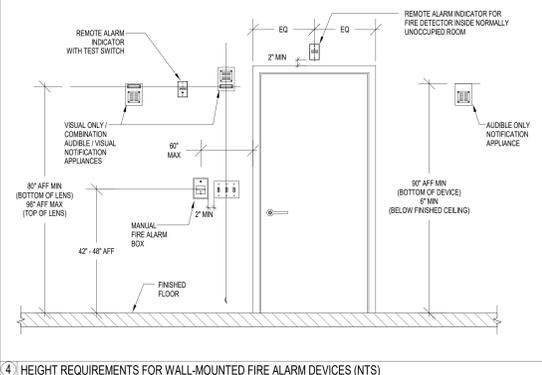
6) SMOKE CONTROL INTERFACE CABINET (NTS)



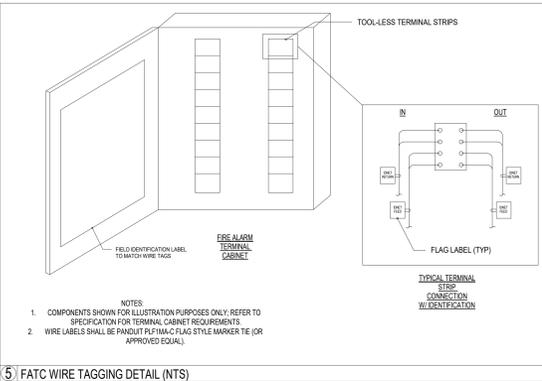
SMOKE CONTROL CABINET - INTERIOR VIEW



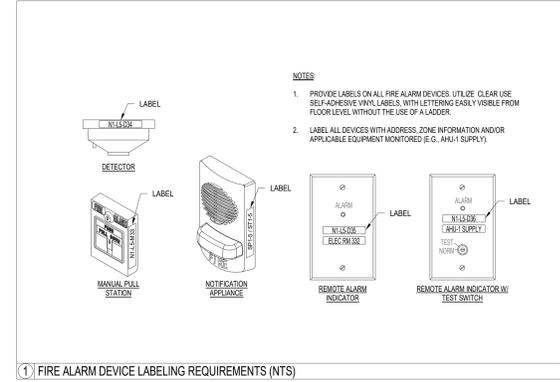
3) FIRE ALARM EQUIPMENT MOUNTING HEIGHTS (NTS)



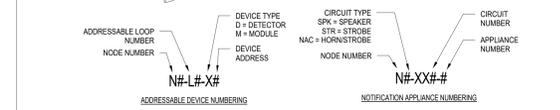
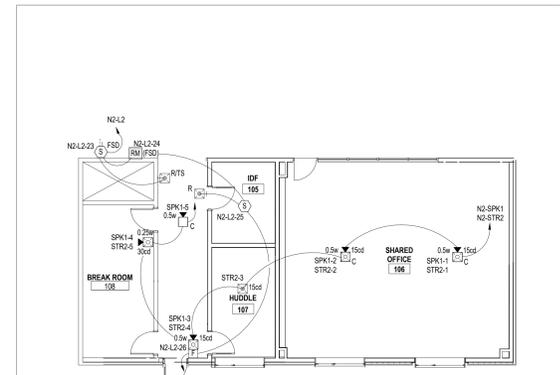
4) HEIGHT REQUIREMENTS FOR WALL-MOUNTED FIRE ALARM DEVICES (NTS)



5) FATC WIRE TAGGING DETAIL (NTS)



1) FIRE ALARM DEVICE LABELING REQUIREMENTS (NTS)



NOTES:

- PARTIAL PLAN LAYOUT ABOVE IS INCLUDED AS AN EXAMPLE OF A PORTION OF A FIRE ALARM SHOP DRAWING AND THE REQUIRED LEVEL OF DETAIL.
- SHOP DRAWINGS SHALL IDENTIFY POINT TO POINT WIRING WITH CIRCUIT IDENTIFICATION.
- IDENTIFY ALL ISOLATION MODULES, END OF LINE RESISTORS, INTERPOSING RELAYS AND SIMILAR ACCESSORIES.
- SHOP DRAWINGS SHALL INCLUDE ADDRESSES FOR EACH INITIATING DEVICE. ALL INTERFACE MODULES SHALL BE LABELED FOR FUNCTION (E.G. FSD FOR FIRE SMOKE DAMPER AS INDICATED ON THE DETAIL ABOVE).
- SHOP DRAWINGS SHALL INCLUDE SPEAKER WATTAGE TAPS AND VISUAL NOTIFICATION APPLIANCE CANDELA RATINGS.

2) FIRE ALARM SHOP DRAWING CONTENT REQUIREMENTS (NTS)

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drawn by: CRB, SSK
checked by: Checker
job no. 2052
date 11/18/2022

revisions:

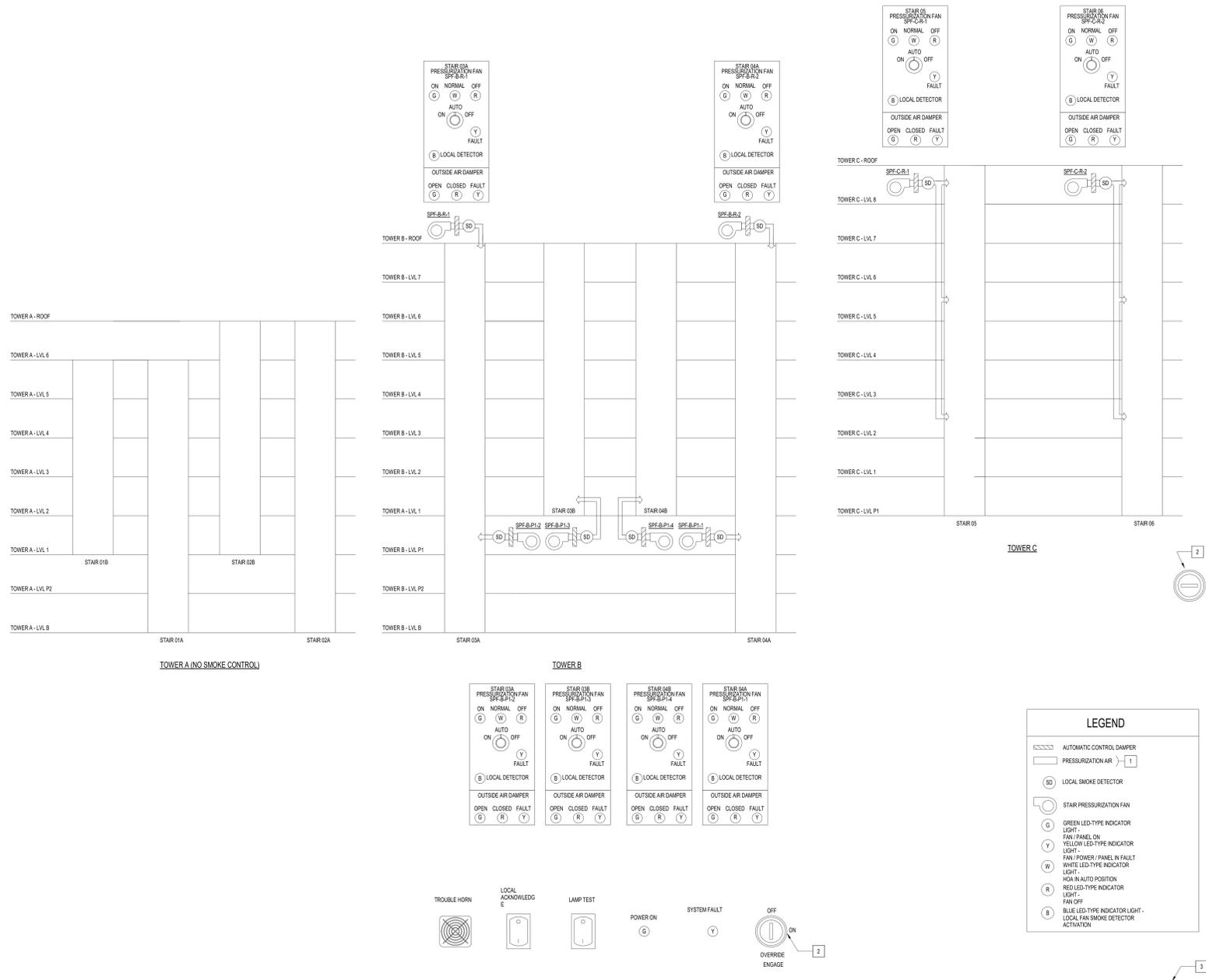
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FIRE ALARM DETAILS
FA7.01

FIREFIGHTER'S SMOKE CONTROL PANEL

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- KEY NOTES**
- 1 PRESSURIZATION AIR - SHADED BLUE
 - 2 KEYED TO MATCH LOCATE FIRE DEPARTMENT REQUIREMENTS
 - 3 NEMA 1 ENCLOSURE WITH HINGED FRONT PANEL

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FIRE FIGHTER'S SMOKE CONTROL PANEL

FA9.01

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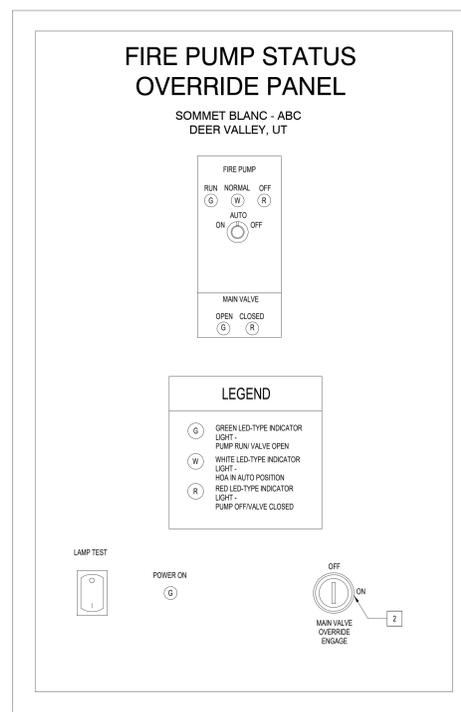
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FIRE PUMP STATUS/OVERRIDE PANEL

FA9.02



NOTES:

- WHITE LED SHALL ILLUMINATE WHEN HOA IS IN AUTO POSITION.
- GREEN PUMP LED SHALL ILLUMINATE UPON FIRE PUMP RUN SIGNAL FROM CONTROLLER. RED LED SHALL ILLUMINATE WHEN PUMP RUN SIGNAL CLEARS.
- VALVE GREEN/RED LED SHALL ILLUMINATE BASED UPON VALVE POSITION SUPERVISION BY FIRE ALARM SYSTEM.