

HARRIMAN

AUBURN PORTLAND PORTSMOUTH BOSTON

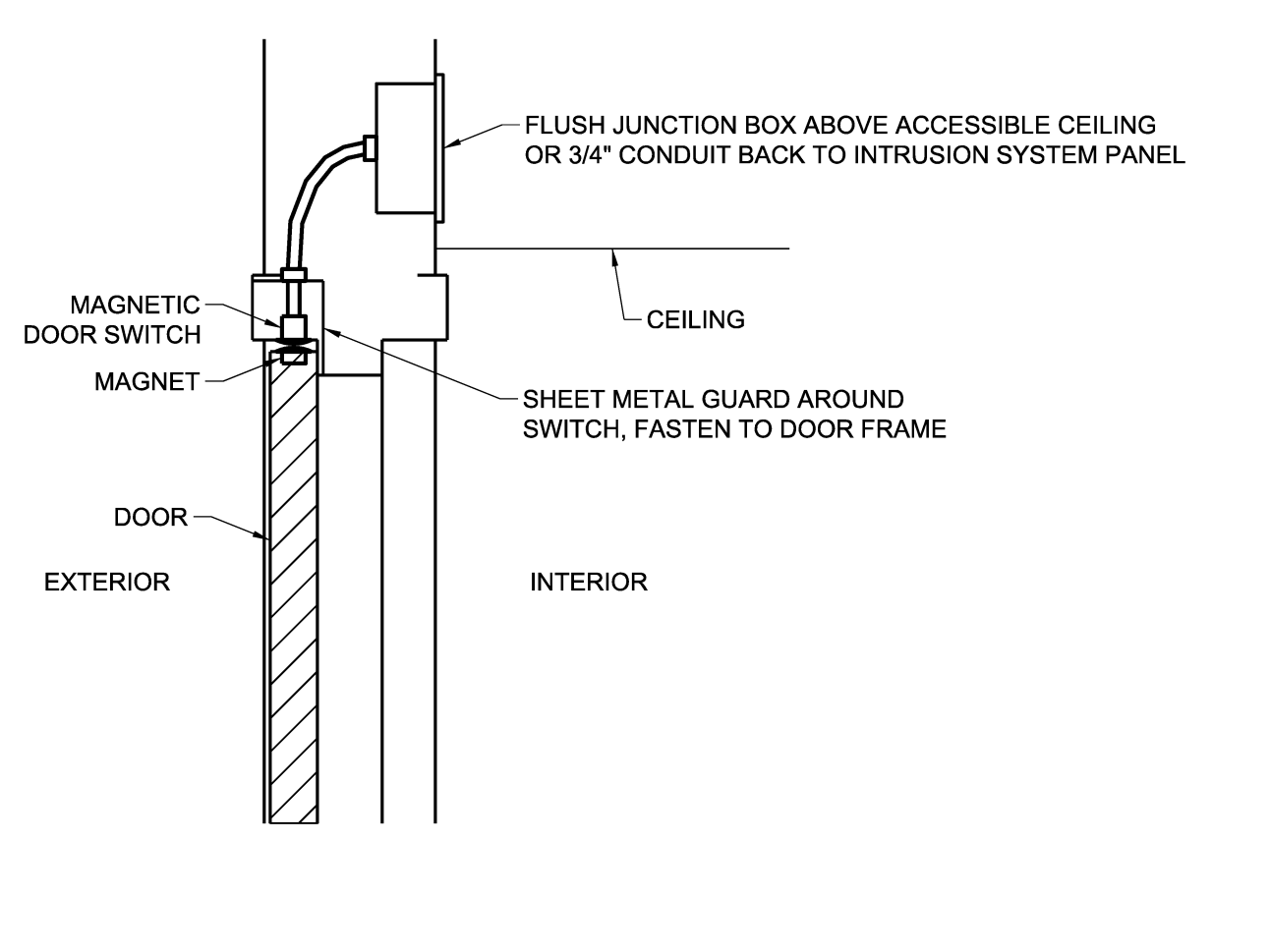
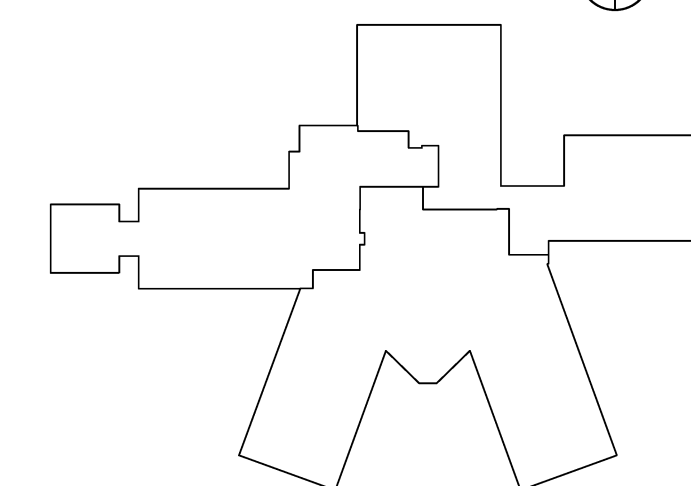
DOVER SCHOOL DISTRICT  
GARRISON ELEMENTARY  
SCHOOL  
RENOVATIONS &  
ADDITIONS - PHASE I

DOVER, NEW HAMPSHIRE

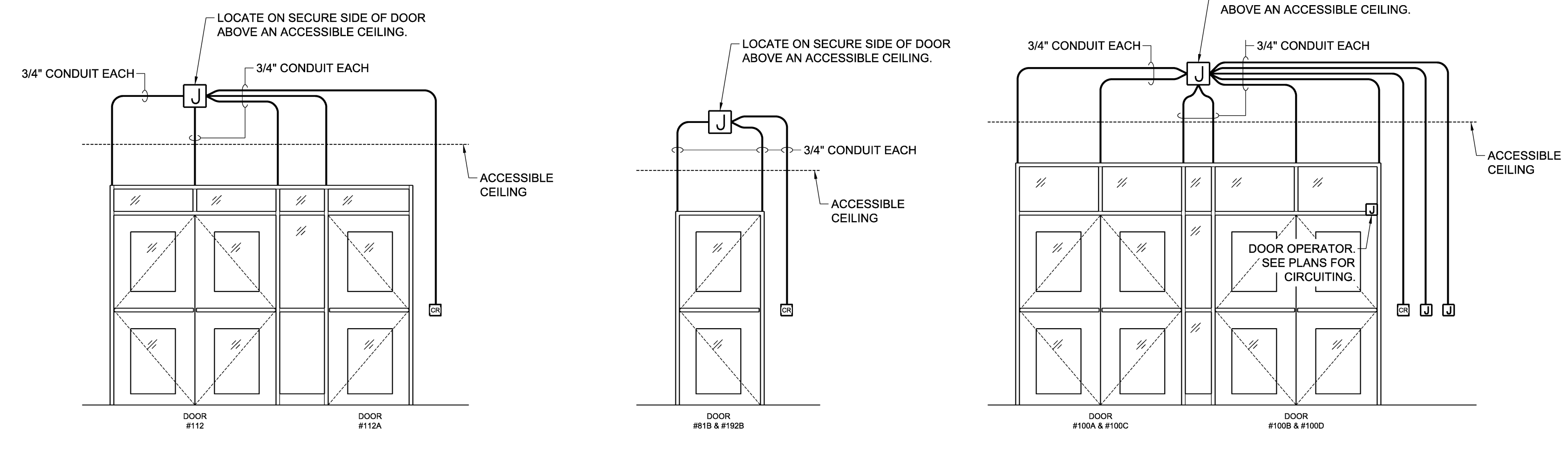
Harriman Project No. 15618

Key Plan

Proj North



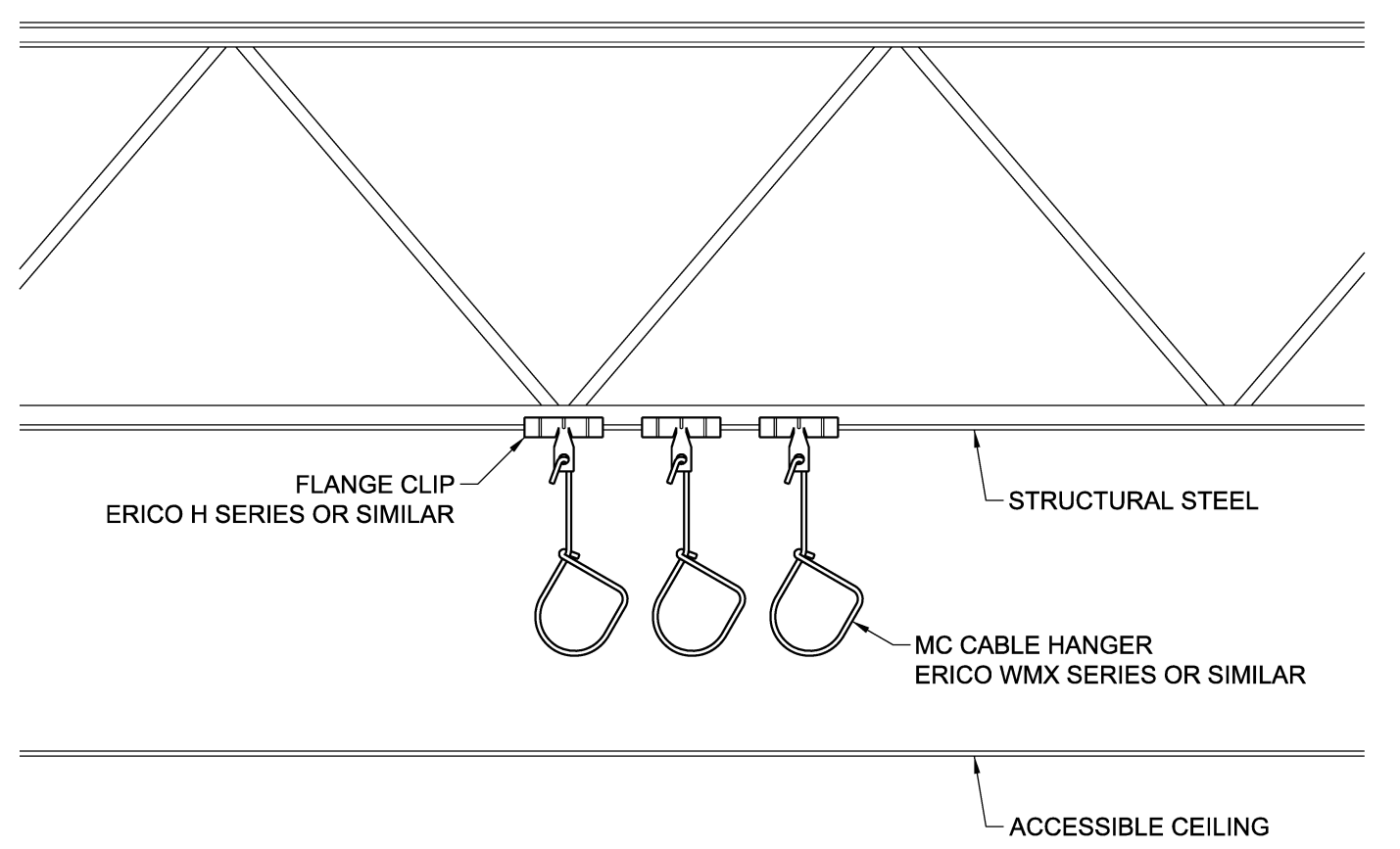
16 TYPICAL DOOR WITH MAGNETIC DOOR SWITCH  
SCALE: NO SCALE



17 NOT USED  
SCALE: NO SCALE

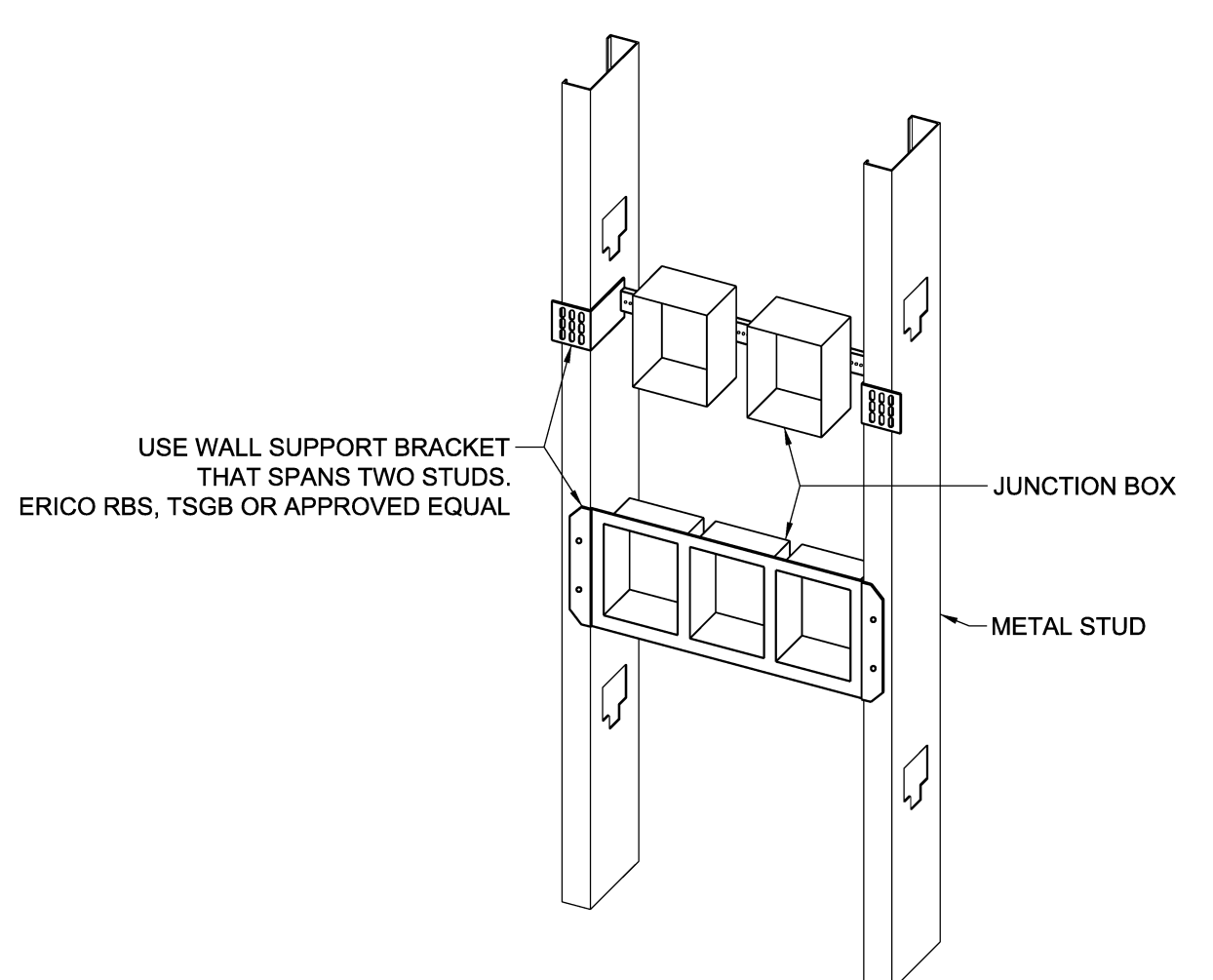
- NOTES:
1. LOW VOLTAGE WIRING FROM DOOR TO POWER SUPPLY BY DIVISION 08, AND POWER SUPPLIES PROVIDED UNDER DIVISION 08.
  2. COORDINATE WITH DIVISION 08 DOOR HARDWARE.
  3. SEE E20 SERIES DRAWINGS FOR POWER SUPPLY CIRCUITING.
  4. ALL CONDUITS SHALL BE CONCEALED. COORDINATE WITH DIVISION 08.

20 NOT USED  
SCALE: NO SCALE



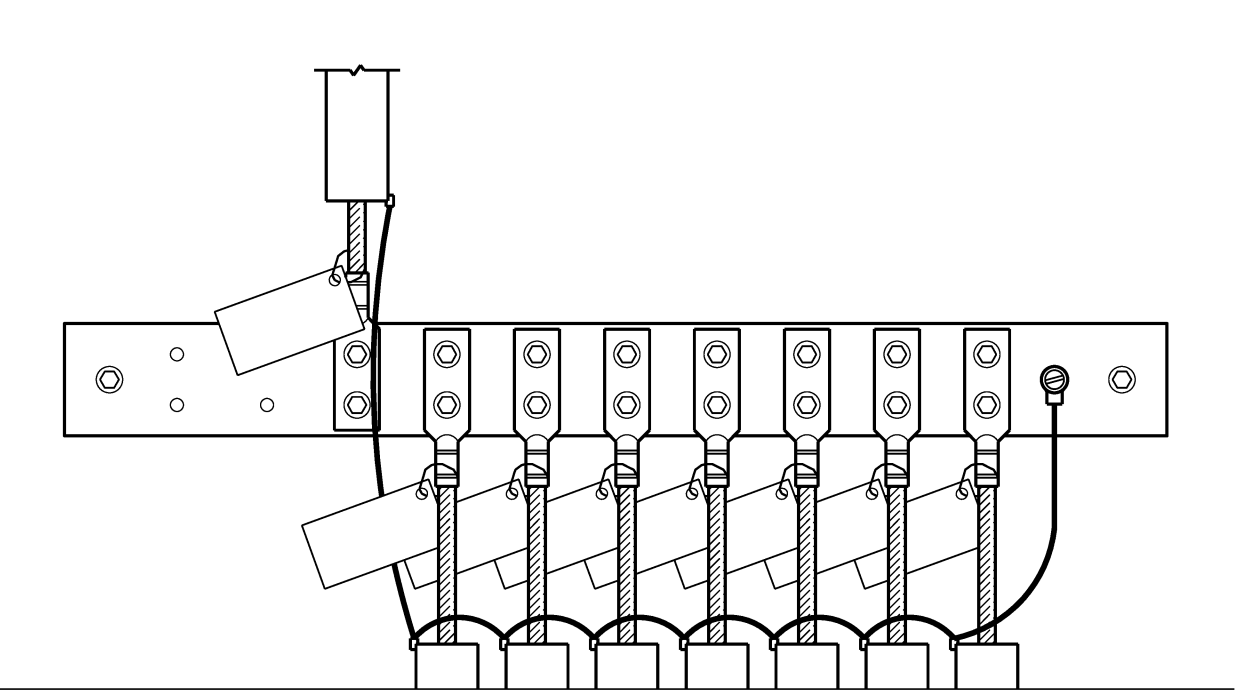
- NOTES:
1. SUPPORT CABLES ABOVE ACCESSIBLE CEILING USING SPRING METAL CLIPS OR APPROVED CABLE TIES TO SUPPORT CABLES FROM STRUCTURE.
    - DO NOT SUPPORT FROM CEILING SUSPENSION SYSTEM.
    - DO NOT DRAPE OVER DUCTWORK OR BETWEEN THROUGH BAR JOIST.
    - DO NOT REST CABLE ON CEILING PANELS.
  2. CABLING SHALL BE RUN PARALLEL AND PERPENDICULAR TO STRUCTURE AND SHALL BE CABLED NEATLY.

11 MC CABLE SUPPORT  
SCALE: NO SCALE



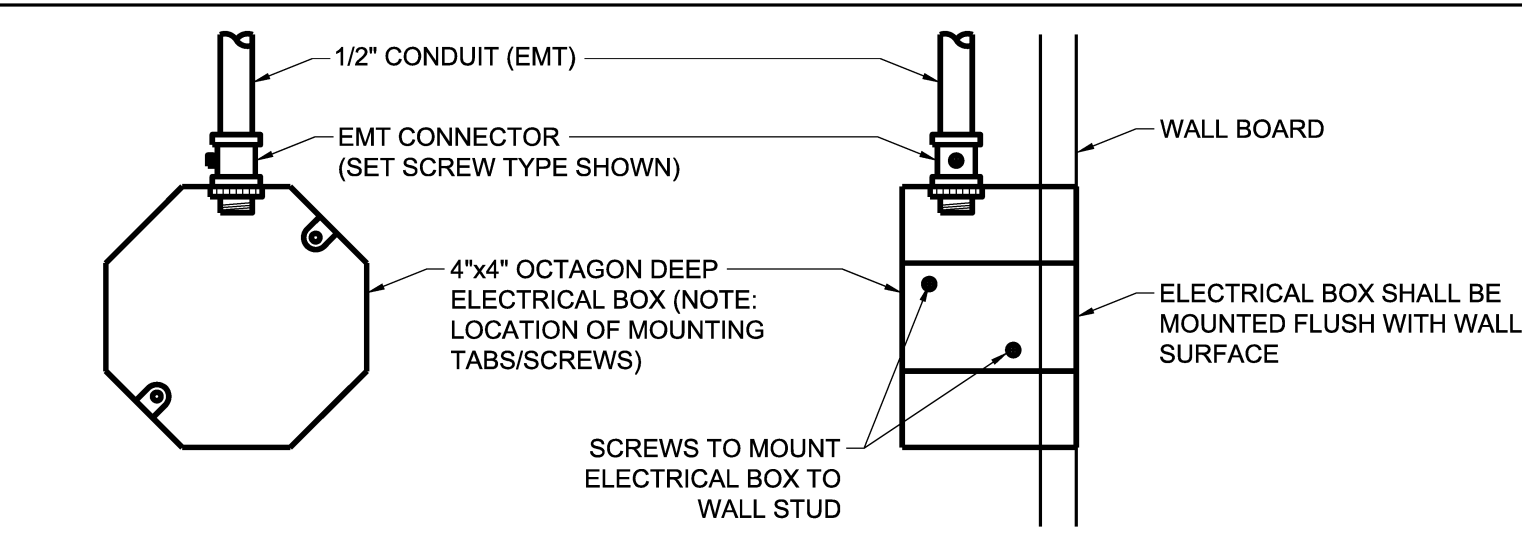
- NOTE:
1. SUPPORTS THAT DO NOT SPAN TWO STUDS OR RELY ON WALL COVER FOR SUPPORT ARE NOT ACCEPTABLE.

12 BOX MOUNTING DETAIL  
SCALE: NO SCALE



- NOTES:
1. PROVIDE COPPER GROUNDING BUS (ERICO EG8A SERIES OR APPROVED EQUAL) IN MAIN ELECTRICAL ROOM.
  2. PROVIDE PERMANENT PHENOLIC TAG ON EACH CONDUCTOR INDICATING ORIGIN OF EACH CONDUCTOR.
  3. GROUNDING THAT SHALL BE TERMINATED ON GROUNDING BUS INCLUDES BUT IS NOT LIMITED TO:
    - a. MAIN SERVICE ENTRANCE
    - b. ALTERNATE POWER SERVICE
    - c. LIFE-SAFETY POWER SERVICE
    - d. FIRE PUMP SERVICE
    - e. WATER SERVICE ENTRANCE
    - f. GROUNDING ELECTRODE IN BUILDING FOOTING
    - g. BUILDING STEEL
    - h. DRY-TYPE TRANSFORMERS IN MAIN ELECTRICAL ROOM
  4. REFER TO SPECIFICATION SECTION 260170 FOR SIZING OF GROUND CONDUCTORS.

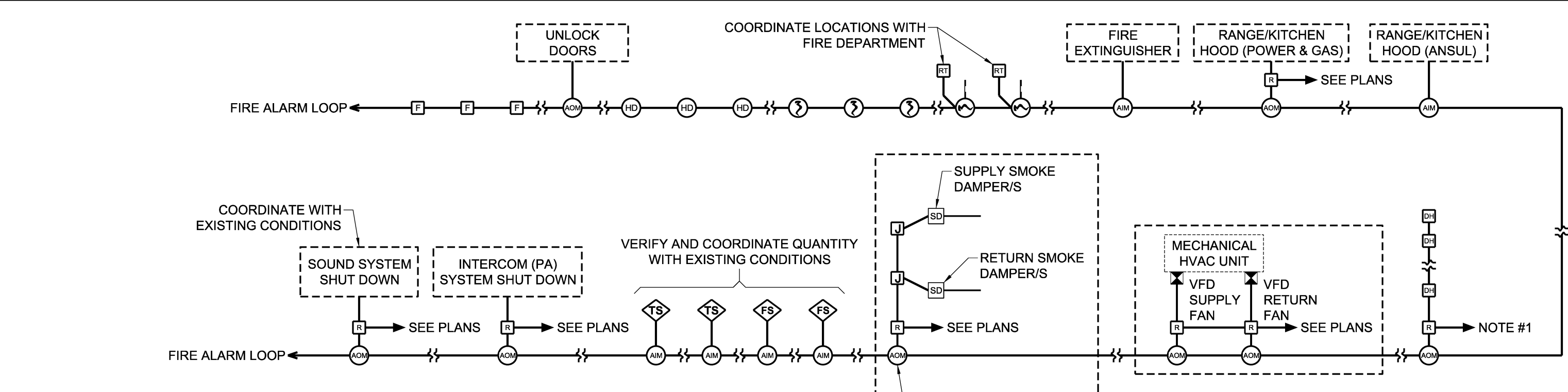
13 GROUNDING BUS DETAIL  
SCALE: NO SCALE



- NOTES:
1. BOX MUST BE A 4\"/>
  2. CONDUIT MUST BE 1/2\"/>
  3. CONDUIT MUST BE STRAIGHT. CONTAIN ON BENDS AND BE STUBBED 6\"/>
  4. MOUNTING TABS/SCREWS ON ELECTRICAL BOX MUST BE POSITIONED AT APPROXIMATELY 2 AND 8 O'CLOCK (SEE DETAIL).
  5. PER BOC INTERNATIONAL MECHANICAL CODE, BOX MUST BE LOCATED AT OR NEAR REARS OF EGRESS AT A MINIMUM OF 10\"/>
  6. CONDUIT MUST BE SECURELY FASTENED TO THE ELECTRICAL BOX USING EMT CONNECTOR WITH SET SCREW OR COMPRESSION TYPE CONNECTION.

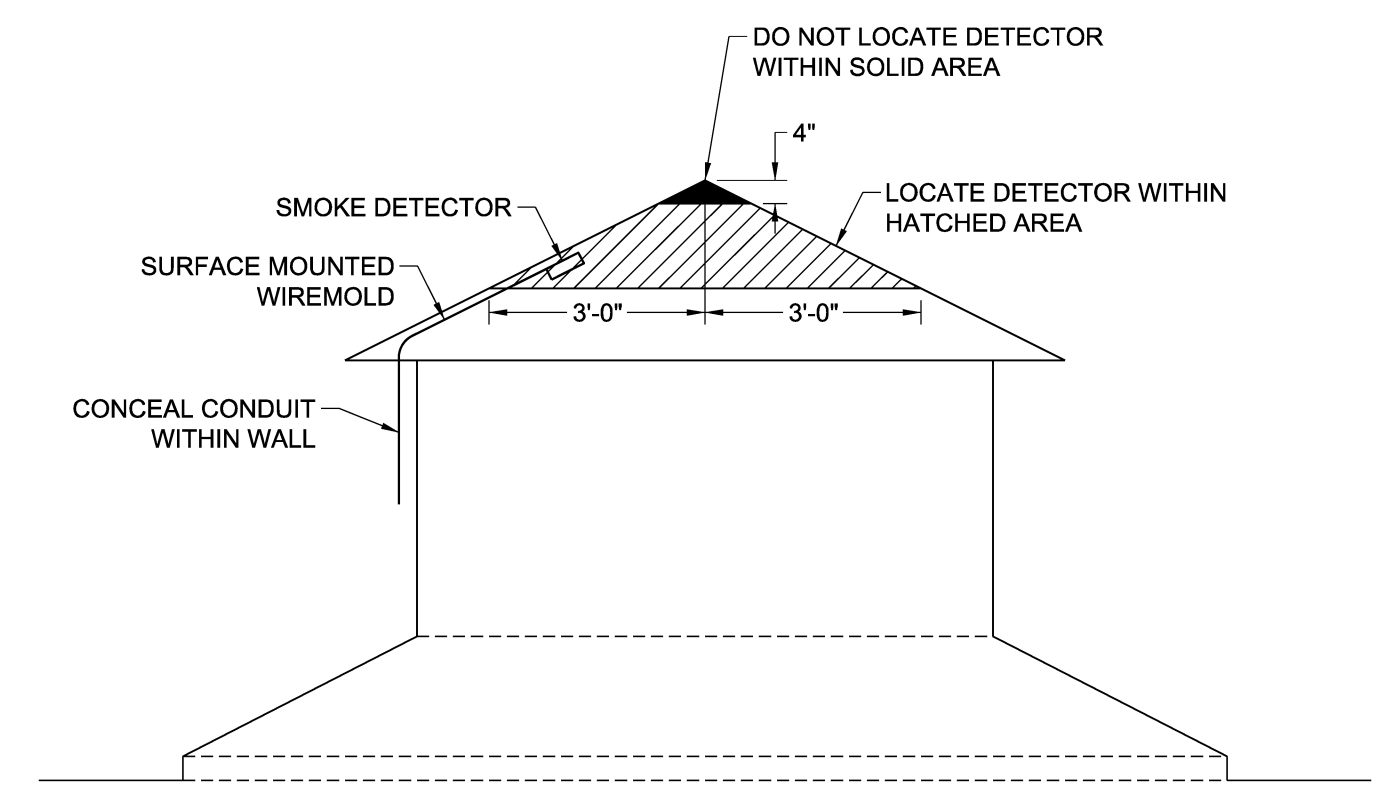
14 ANSUL SYSTEM MANUAL PULL BOX DETAIL  
SCALE: NO SCALE

15 NOT USED  
SCALE: NO SCALE

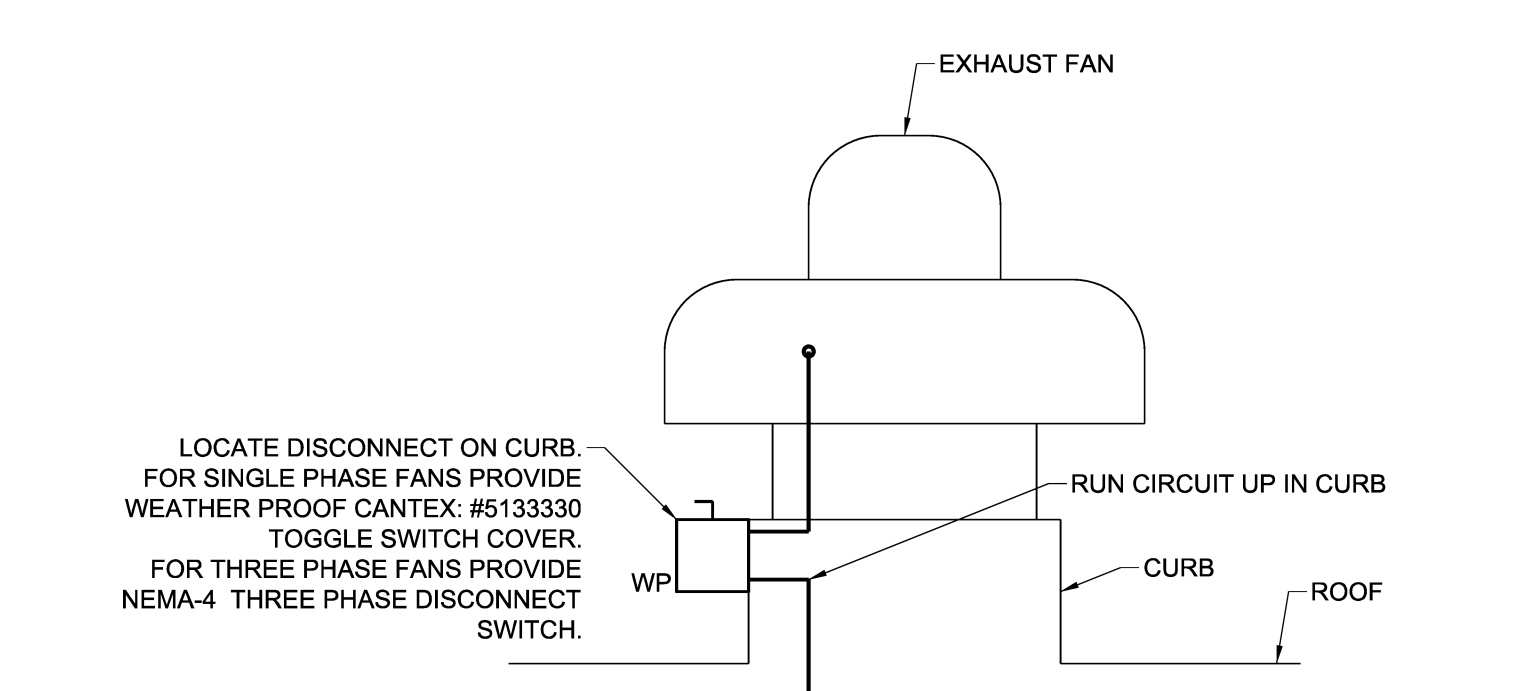


- NOTES:
1. WIRE TO NEAREST PANEL DOWNSTREAM OF GENERATOR CONNECTION BOX WITH SPARE SPACE. UTILIZE 120V, 20A SINGLE POLE CIRCUIT BREAKER. PROVIDE HANDLE LOCK ON CIRCUIT BREAKER AND LABEL IN RED "FIRE ALARM SYSTEM" NEXT TO CIRCUIT BREAKER AND IN THE PANEL DIRECTORY.
  2. FAPS (FIRE ALARM POWER SUPPLY) ARE NOT SHOWN ON THE FLOOR PLANS. PROVIDE THE NUMBER OF FAPS UNITS REQUIRED TO SERVE APPLIANCES SHOWN PLUS SPARE CAPACITY AS SPECIFIED.
  3. VERIFY LOCATION AND QUANTITY OF ALL SMOKE DAMPERS WITH THE MECHANICAL DUCTWORK DRAWINGS. SEE THE DUCTWORK DRAWINGS TO ASSOCIATE THE SMOKE DAMPERS WITH EACH AIR HANDLING UNIT FOR GROUPING. SMOKE DAMPERS SHALL BE CONTROLLED AS A GROUP PER AIR HANDLING UNIT SERVED. DAMPERS TAGGED AS FDSO ARE A COMBINATION FIRE AND SMOKE DAMPER AND ARE TO BE TREATED/CONTROLLED THE SAME AS A SMOKE DAMPER.
  4. THE SHUTDOWN OF HVAC EQUIPMENT AND CLOSING OF ALL SMOKE DAMPERS SHALL BE DONE DIRECTLY FROM THE FIRE ALARM SYSTEM AND NOT VIA THE DIVISION 23 AUTOMATIC TEMPERATURE CONTROL (ATC) SYSTEM.

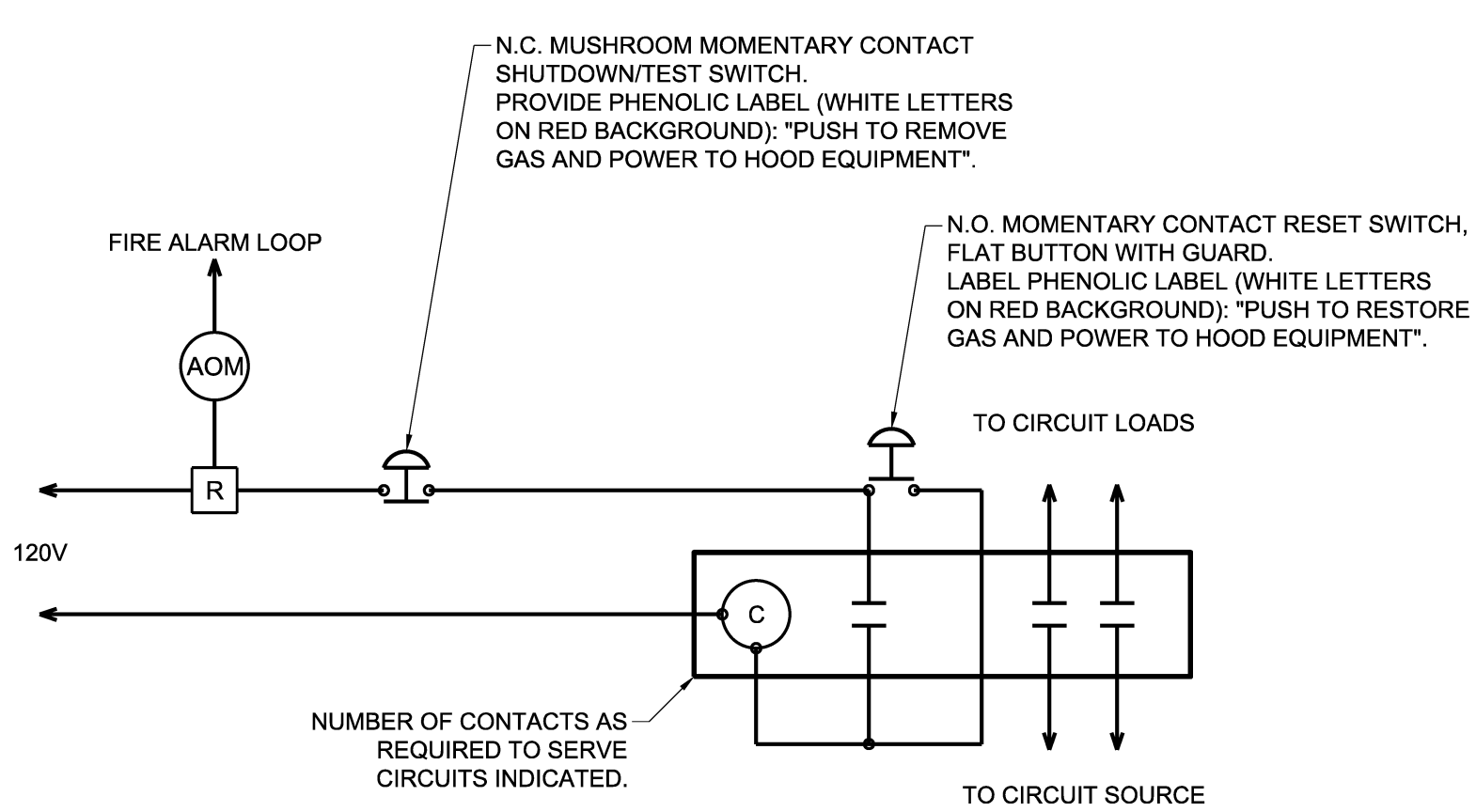
6 FIRE ALARM SYSTEM DETAILS AND NOTES  
SCALE: NO SCALE



8 SMOKE DETECTOR LOCATED IN SKYLIGHT  
SCALE: NO SCALE



9 TYPICAL ROOF MOUNTED EF CONNECTION  
SCALE: NO SCALE



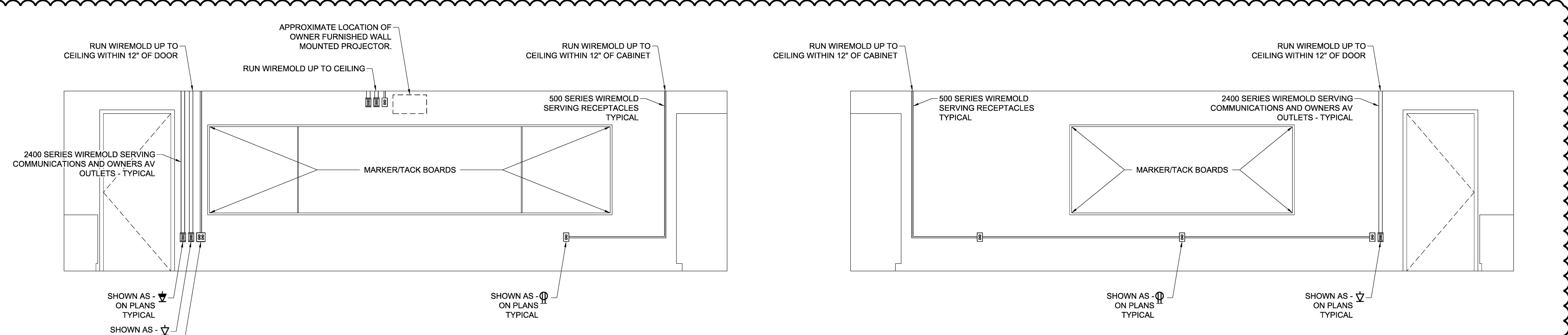
10 COOKING HOOD POWER SHUTDOWN WITH RESET  
SCALE: NO SCALE

PATHWAYS INSTALLED TO CARRY TELECOMMUNICATIONS CABLES SHALL GIVE CONSIDERATION TO NOISE SOURCES SUCH AS POWER WIRING, RADIO FREQUENCY (RF) SOURCES, MOTORS, GENERATORS, INDUCTION HEATERS, ARC WELDERS, TRANSFORMERS, LIGHTING FIXTURE BALLASTDRIVER, ETC.

1. TELECOMMUNICATIONS CABLES SHALL CROSS POWER CONDUCTORS IN A PERPENDICULAR ORIENTATION AND AT A MINIMUM DISTANCE OF 6 INCHES.
2. TELECOMMUNICATIONS PATHWAYS SHALL RUN A MINIMUM OF 6\"/>
3. TELECOMMUNICATIONS PATHWAYS WHICH RUN PARALLEL TO POWER CONDUCTORS SHALL MAINTAIN THE FOLLOWING MINIMUM DISTANCE SEPARATION:

CONDITION	MINIMUM REQUIRED SEPARATION			
	120V <20A	120V/208V <20A	120V/208V >20A	277V/480V
POWER CONDUCTORS IN TRAY; TELECOM CONDUCTORS IN TRAY OR AIR	12"	18"	24"	36"
POWER CONDUCTORS IN TRAY; TELECOM CONDUCTORS IN METAL CONDUIT	9"	12"	18"	24"
POWER CONDUCTORS IN METAL CONDUIT; TELECOM CONDUCTORS IN TRAY OR AIR	9"	12"	18"	24"
POWER CONDUCTORS IN METAL CONDUIT; TELECOM CONDUCTORS IN METAL CONDUIT OR WIREWAY	4"	9"	12"	24"

1 SEPARATION OF TELECOMMUNICATION CABLES FROM ELECTRICAL ITEMS  
SCALE: NO SCALE

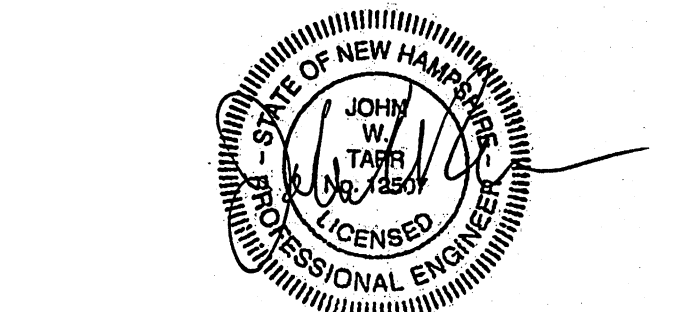


- NOTES:
1. TYPICAL TEACHING WALL ELEVATION.
  2. SOME ROOMS MIRRORED/SIMILAR.
- NOTE:
1. RUN ALL WIREMOLD TO WITHIN 12\"/>
  2. SOME ROOMS MIRRORED/SIMILAR.

2 TYPICAL FRONT/BACK OF CLASSROOM ELEVATIONS  
SCALE: NO SCALE

Issues and Revisions

Date	Description
08-31-17	75% REVIEW
10-06-17	CONSTRUCTION DOCUMENTS
10-18-17	ADDENDUM #1



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Drawn By: JMB Harriman Associates

DETAILS

E70.2