

GENERAL NOTES:

(NOTES APPLY TO SHEETS FA210B THROUGH FA218)

1. CONTRACTOR SHALL INSTALL DUCT SMOKE DETECTORS DOWNSTREAM OF THE AIR FILTERS AND AHEAD OF ANY BRANCH CONNECTIONS IN AIR SUPPLY SYSTEMS HAVING A CAPACITY GREATER THAN 2,000 CFM, PER NFPA 90A. CONTRACTOR SHALL ALSO INSTALL DUCT DETECTORS AT EACH STORY PRIOR TO THE CONNECTION TO A COMMON RETURN AND PRIOR TO ANY RECIRCULATION OR FRESH AIR INLET CONNECTION IN AIR RETURN SYSTEMS HAVING A CAPACITY GREATER THAN 15,000 CFM AND SERVING MORE THAN ONE STORY, PER NFPA 90A. PROVIDE REMOTE TEST STATIONS FOR EACH DUCT DETECTOR. CONTRACTOR SHALL CONNECT NEW DUCT DETECTORS TO THE NEW FIRE ALARM CONTROL PANEL. NEW RELAYS (NOT SHOWN) SHALL BE INSTALLED IN-LINE WITH THE POWER FEED TO EACH AHU TO SHUT DOWN ALL AHU'S IN THE EVENT THAT SMOKE IS DETECTED IN THE BUILDING. REFER TO THE ED SHEETS FOR APPROXIMATE LOCATIONS AND CMF'S OF EXISTING HVAC EQUIPMENT. REFER TO VOLUME 2 FOR AS-BUILT INFORMATION OF THE HVAC SYSTEM.

2. THE NEW FIRE ALARM/MASS NOTIFICATION SYSTEM SHALL BE CONTRACTOR DESIGNED AND INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS INCLUDING BUT NOT LIMITED TO NFPA 70, NFPA 72, AND NFPA 101. NUMBER AND LOCATIONS OF DEVICES SHOWN ARE GENERIC. FINAL PLACEMENT AND QUANTITIES SHALL BE DETERMINED BY CONTRACTOR'S DESIGN.

3. FINAL LOCATIONS OF ALL CEILING MOUNTED INITIATING AND NOTIFICATION DEVICES SHALL BE COORDINATED TO AVOID CONFLICTS WITH EXISTING LIGHTING, HVAC, ETC.

4. ALL NEW SECURITY CIRCUITS FOR THE NEW SECURITY SYSTEMS SHALL ORIGINATE FROM PP1.

5. ALL NEW WALL MOUNTED EQUIPMENT SHALL BE SURFACE MOUNTED. CONTRACTOR SHALL PAINT THE EXPOSED CONDUIT TO MATCH THE COLOR OF THE SUPPORTING SURFACE.

6. CONDUIT ASSOCIATED WITH NEW DEVICES CEILING MOUNTED ON SUSPENDED CEILINGS SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING TO THE GREATEST EXTENT POSSIBLE.

7. EXISTING CONCEALED CONDUIT MAY BE REUSED FOR NEW WIRING WHEREVER PRACTICAL.

8. REFER TO SHEET FA601 FOR INFORMATION REGARDING THE LOCATION OF HVAC EMERGENCY SHUTDOWN SWITCHES (EPO).

9. NO EQUIPMENT OR CONDUIT SHALL BE MOUNTED TO THE BOTTOM FACE OF ANY CONCRETE BEAM.

10. REFER TO SHEET FA501 FOR CONDUIT INSTALLATION INFORMATION.

11. THE SECURITY SYSTEM INSTALLED WITHIN THE FORT PECK POWERHOUSES SHALL UTILIZE EQUIPMENT THAT IS FULLY COMPATIBLE WITH THE EXISTING SOFTWAREHOUSE C-CURE 9000 AND AVIGILON CONTROL CENTER SOFTWARE..

12. CABLE TUNNELS ARE SUBJECT TO HIGH HUMIDITY AND LOW/HIGH TEMPERATURES. ALL EQUIPMENT AND DEVICES INSTALLED WITHIN THESE LOCATIONS SHALL BE RATED FOR INSTALLATION IN THIS ENVIRONMENT WITHOUT AN APPRECIABLE EFFECT ON THE OPERATIONAL LIFE OF THE EQUIPMENT OR DEVICE.

13. ALL CONDUIT, JUNCTION BOXES, COVERS, AND COUPLINGS ASSOCIATED WITH THE FIRE/MASS NOTIFICATION SYSTEM MUST BE FACTORY PAINTED RED WHERE INSTALLED IN UNFINISHED LOCATIONS, INCLUDING INSTALLATIONS ABOVE SUSPENDED CEILINGS.

14. ALL SMOKE DETECTORS INSTALLED WITHIN ELEVATOR SHAFTS SHALL BE SPECIFICALLY DESIGNED FOR INSTALLATION IN THAT TYPE OF SPACE.

15. CONTRACTOR SHALL UTILIZE A REBAR DETECTOR TO LOCATE REBAR WITHIN CONCRETE WALLS PRIOR TO BORING THROUGH CONCRETE WALLS.

16. ALL PERSONNEL DOORS TO BE EQUIPPED WITH BALANCED MAGNETIC SWITCHES SHALL ALSO BE EQUIPPED WITH REQUEST TO EXIT MOTION DETECTORS. REFER TO SHEETS EY503 AND EY602 FOR MORE INFORMATION.

KEYED NOTES:

(NOTES APPLY TO SHEETS FA210B THROUGH FA218)

1. THIS SPACE SHALL BE PROVIDED WITH BEAM TYPE SMOKE DETECTION. CONTRACTOR SHALL INSTALL BEAM TYPE SMOKE DETECTOR'S IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

2. THIS AREA IS A CAVERNOUS SPACE SUBJECT TO HIGH HUMIDITY AND LOW TEMPERATURES. CONTRACTOR SHALL INSTALL LINEAR HEAT DETECTOR IN ACCORDANCE WITH NFPA 72 AND MANUFACTURER'S INSTRUCTIONS.

3. DASHED LINE INDICATES THAT DEVICE IS INSTALLED IN CABLE TUNNEL LOCATED UNDER FLOOR.

4. THIS AREA IS SUBJECT TO HIGH HUMIDITY AND LOW TEMPERATURES. HEAT DETECTORS INSTALLED WITHIN THIS SPACE SHALL BE RATED FOR THE ENVIRONMENT AND INSTALLED IN ACCORDANCE WITH NFPA 72 AND MANUFACTURER'S INSTRUCTIONS.

5. PORTION OF LINEAR HEAT DETECTOR SHALL BE INSTALLED ON PENSTOCK CEILING ABOVE OIL STORAGE ROOM ROOF.

6. CONTRACTOR SHALL ASSUME AN EXISTING ELECTRIC STRIKE IS INSTALLED IN DOOR. CONTRACTOR SHALL WIRE NEW CARD READER WITH BUILT IN KEYPAD TO EXISTING ELECTRIC STRIKE. REFER TO SHEET EY503 FOR ADDITIONAL DETAILS.

7. MOUNT DETECTOR ON WALL ABOVE ELEVATOR DOORS. DETECTOR SHALL BE MOUNTED WITHIN 60" OF THE TOP OF THE ELEVATOR DOORS.

8. THIS AREA IS A CAVERNOUS SPACE SUBJECT TO HIGH HUMIDITY AND LOW/HIGH TEMPERATURES. ALL EQUIPMENT AND DEVICES INSTALLED WITHIN THIS LOCATION SHALL BE RATED FOR INSTALLATION IN THIS ENVIRONMENT WITHOUT AN APPRECIABLE EFFECT ON THE OPERATIONAL LIFE OF THE EQUIPMENT OR DEVICE. CONTROL EQUIPMENT SUCH AS LOCs INSTALLED WITHIN THIS AREA SHALL BE EQUIPPED WITH THERMOSTAT CONTROLLED HEATERS UNLESS RECOMMENDED OTHERWISE BY THE MANUFACTURER.

9. ROOM SHALL BE CONSIDERED A CLASS 1 DIVISION 2 HAZARDOUS LOCATION. ALL NEW EQUIPMENT INSTALLED WITHIN THIS ROOM SHALL BE RATED FOR INSTALLATION IN HAZARDOUS LOCATIONS. ALL CONDUIT INSTALLED IN THIS LOCATION SHALL BE RIGID METAL CONDUIT OR INTERMEDIATE METAL CONDUIT WITH LISTED THREADLESS FITTINGS. ALL CONDUIT LEAVING THE HAZARDOUS AREA SHALL HAVE A CONDUIT SEAL INSTALLED WITHIN 10 FEET ON EITHER SIDE OF THE BOUNDARY.



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FORT PECK DAM, MONTANA
POWER HOUSE FIRE AND SECURITY
SYSTEM REPLACEMENT
PP2 - FIRE AND SECURITY
FLOOR PLAN NOTES

SHEET ID
FA210A