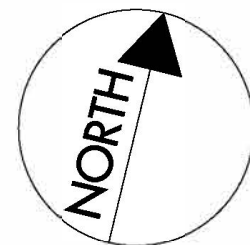


FIRST FLOOR SIGNALS AND SYSTEMS PLAN
SCALE: 1/8" = 1'-0"



ELECTRICAL SPECIFIC NOTES:

- CONTRACTOR TO REMOVE THE EXISTING DUCT DETECTOR FROM SYSTEM. THIS DEVICE IS TO BE REMOVED AND IS NOT TO BE REPLACED. CONTRACTOR TO REMOVE ALL ASSOCIATED EXISTING CONDUIT, CONDUCTORS, JBOXES, ETC. BACK TO THE NEXT ACTIVE DEVICE OR SOURCE, WHICHEVER COMES FIRST. CONDUIT AND JUNCTION BOXES WITHIN WALLS OR OTHER SURFACES THAT REMAIN, SHALL HAVE COVER PLATES PROVIDED OVER ABANDONED JUNCTION BOXES. UPON REMOVAL OF THE EXISTING DUCT SMOKE DETECTOR, THE CONTRACTOR SHALL SEAL THE AFFECTED DUCT SECTION TO RESTORE DUCT INTEGRITY. ALL SEALING METHODS SHALL PREVENT AIR LEAKAGE AND MAINTAIN REQUIRED FIRE AND SMOKE RESISTANCE RATINGS.
- CONTRACTOR TO REMOVE THE EXISTING NOTIFICATION DEVICE FROM SYSTEM. THIS DEVICE IS TO BE REMOVED AND IS NOT TO BE REPLACED. CONTRACTOR TO REMOVE ALL ASSOCIATED EXISTING CONDUIT, CONDUCTORS, JBOXES, ETC. BACK TO THE NEXT ACTIVE DEVICE OR SOURCE, WHICHEVER COMES FIRST. CONDUIT AND JUNCTION BOXES WITHIN WALLS OR OTHER SURFACES THAT REMAIN, SHALL HAVE COVER PLATES PROVIDED OVER ABANDONED JUNCTION BOXES.
- CONTRACTOR TO REMOVE THE EXISTING SMOKE DETECTOR DEVICE FROM SYSTEM. THIS DEVICE IS TO BE REMOVED AND IS NOT TO BE REPLACED. CONTRACTOR TO REMOVE ALL ASSOCIATED EXISTING CONDUIT, CONDUCTORS, JBOXES, ETC. BACK TO THE NEXT ACTIVE DEVICE OR SOURCE, WHICHEVER COMES FIRST. CONDUIT AND JUNCTION BOXES WITHIN WALLS OR OTHER SURFACES THAT REMAIN, SHALL HAVE COVER PLATES PROVIDED OVER ABANDONED JUNCTION BOXES.

ELECTRICAL SPECIFIC NOTES:

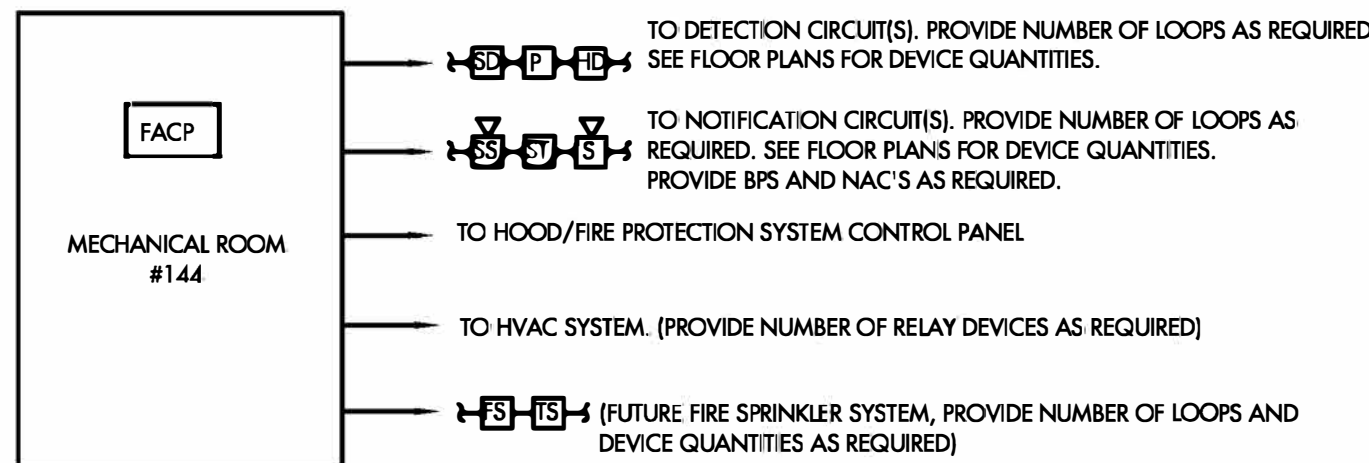
- THERE IS NO EXISTING DEVICE AT LOCATION SHOWN. PROVIDE NEW NOTIFICATION DEVICE AND TIE INTO THE FIRE ALARM SYSTEM. PROVIDE NEW CONDUIT AND CABLE AS REQUIRED TO TIE THE NEW DEVICE INTO THE FIRE ALARM SYSTEM.
- EXISTING ANSUL PANEL IS TO BE MONITORED BY FIRE ALARM SYSTEM. PROVIDE/REPLACE ANY NECESSARY CONTRACTOR RELAYS FOR INTERFACING.
- EXISTING DOOR HOLDER IS TO REMAIN. INTERLOCK WITH HEAT DETECTOR IN KITCHEN.
- REPLACE AND RELOCATE NEW HEAT DETECTOR WITHIN 5'-0" FROM KITCHEN DOOR WITH DOOR HOLDER. PROVIDE/REPLACE ANY NECESSARY CONTRACTOR RELAYS FOR INTERLOCKING OF DOOR HOLDER AND HEAT DETECTOR SO THAT THE DOOR CLOSURES UPON HEAT DETECTION.
- REPLACE EXISTING FIRE ALARM PANEL AND DIALER AS SPECIFIED. PROVIDE A COMPLETE FUNCTIONING FIRE ALARM SYSTEM. REUSE EXISTING POWER CIRCUITS TO THE EXTENT POSSIBLE FOR POWERING PANEL AND DIALER. EXTEND EXISTING CONDUIT AND CONDUCTORS AS REQUIRED FOR POWER.
- REPLACE EXISTING REMOTE ANNUNCIATOR WITH NEW REMOTE ANNUNCIATOR INTERFACABLE WITH NEW FIRE ALARM PANEL.
- CONTRACTOR TO REMOVE THE EXISTING PULL STATION DEVICE FROM SYSTEM. THIS DEVICE IS TO BE REMOVED AND IS NOT TO BE REPLACED. CONTRACTOR TO REMOVE ALL ASSOCIATED EXISTING CONDUIT, CONDUCTORS, JBOXES, ETC. BACK TO THE NEXT ACTIVE DEVICE OR SOURCE, WHICHEVER COMES FIRST. CONDUIT AND JUNCTION BOXES WITHIN WALLS OR OTHER SURFACES THAT REMAIN, SHALL HAVE COVER PLATES PROVIDED OVER ABANDONED JUNCTION BOXES.

ELECTRICAL MISCELLANEOUS NOTES:

- THE INTENT OF THIS PROJECT IS TO REPLACE THE EXISTING FAULTING FIRE ALARM SYSTEM WITH A NEW FULLY FUNCTIONAL VOICE/EVACUATION SYSTEM THAT MEETS CURRENT CODE REQUIREMENTS. UNLESS OTHERWISE NOTED, ALL FIRE ALARM DEVICES SHOWN ON DRAWINGS ARE EXISTING AND TO BE REPLACED WITH A NEW DEVICE ONE-FOR-ONE. CONTRACTOR TO REUSE EXISTING RACEWAY AND WIRING TO THE EXTENT POSSIBLE. ANY NEW FIRE ALARM CABLE INSTALLED ON THIS PROJECT SHALL BE ROUTED THROUGH A MINIMUM 3/4" RACEWAY WITHIN WALLS AND WHEN EXPOSED. OPEN WIRING TECHNIQUES WITH J-LOOKS MAY BE USED ABOVE ACCESSIBLE CEILINGS IF ALLOWED BY THE AHJ. ALL FIRE ALARM CIRCUITS SHALL REQUIRE A MINIMUM OF 2-#14 CABLE EXCEPT FOR NOTIFICATION CIRCUITS, WHICH SHALL REQUIRE A MINIMUM OF 4 -#14 CABLE.
- THE EXISTING FIRE ALARM PANEL IS LOCATED IN THE MECHANICAL ROOM AS SHOWN ON DRAWINGS. EXISTING FIRE ALARM PANEL IS A FIRESENSE MODEL #FDX5000. EXISTING FIRE PANEL SERVICE PROVIDED BY DOOR SECURITY PRODUCTS (605-343-1621).
- A FUTURE FIRE SPRINKLER SYSTEM WILL BE ADDED TO THE BUILDING. THIS BID SHALL INCLUDE PROVISIONS TO CONNECT TO THE FUTURE FLOW AND TAMPER SWITCHES. THE CONTRACTOR SHALL PLAN FOR A MINIMUM OF 7 FIRE SPRINKLER BRANCHES IN THE SYSTEM BID.

ELECTRICAL MISCELLANEOUS NOTES:

- THE CONTRACTOR SHALL PROVIDE BATTERY POWERED SUPPLIES (BPS) AND NOTIFICATION APPLIANCE CIRCUITS (NAC) AS REQUIRED BY THE FIRE ALARM DESIGN AND NFPA 72. ALL CIRCUITS SHALL BE SIZED TO ACCOUNT FOR VOLTAGE DROP, ENSURING ADEQUATE POWER DELIVERY TO ALL DEVICES. THE CONTRACTOR SHALL VERIFY COMPLIANCE WITH ALL CODE REQUIREMENTS AND COORDINATE WITH THE FIRE ALARM SYSTEM DESIGNER AND AHJ FOR FINAL APPROVAL.
- THE CONTRACTOR SHALL ENSURE THAT NOTIFICATION CIRCUITS IN THE VOICE/EVAC SYSTEM MEET ADA SYNC REQUIREMENTS, INCLUDING PROPER SYNCHRONIZATION OF STROBE LIGHTING. THE SYSTEM SHALL ALSO MEET AUDIBILITY AND INTELIGIBILITY REQUIREMENTS AS OUTLINED IN NFPA 72 AND ADA STANDARDS, ENSURING CLEAR COMMUNICATION THROUGHOUT THE FACILITY.
- HVAC RELAYS AND TEMPERATURE CONTROL PANELS ARE NOT SHOWN IN THESE DRAWINGS. CONTRACTOR SHALL REPLACE EXISTING HVAC RELAYS AND CONNECT THEM TO THE NEW VOICE EVACUATION FIRE ALARM SYSTEM. CONTRACTOR TO COORDINATE WITH TEMPERATURE CONTROL CONTRACTOR AND CONNECT ANY EXISTING CONTROL PANELS TO THE NEW VOICE EVACUATION FIRE ALARM SYSTEM IN ACCORDANCE WITH THE FIRE ALARM SYSTEM DESIGN REQUIREMENTS TO ENSURE PROPER SHUTDOWN AND SEQUENCING FOR EXISTING HVAC SYSTEM.



FIRE ALARM RISER DIAGRAM
NOT TO SCALE

1/8"=1'-0" 0 4' 8' 12' 20' 36'

AL SUTTON ELECTRIC
605-341-5300
INTEGRITY • QUALITY • PROFESSIONAL • EFFICIENT

NOT FOR
CONSTRUCTION

YFS FIRE ALARM UPGRADE
RAPID CITY, SD

PROJECT #:	2501
DATE:	5/12/2025
DESIGNED BY:	JGS
DRAWN BY:	JGS
CHECKED BY:	AGS

#	REVISION	DATE
1		
2		
3		
4		

THIS DRAWING AND ALL WRITTEN AND ILLUSTRATED INFORMATION HEREIN IS THE SOLE PROPERTY OF AL SUTTON ELECTRIC, INC. AND SHALL NOT BE USED, DISCLOSED, OR DUPLICATED IN WHOLE OR IN PART WITHOUT EXPRESS WRITTEN PERMISSION BY AL SUTTON ELECTRIC, INC.

SHEET NAME:
FIRE ALARM

SHEET NUMBER:

E2