

**POST INDICATOR VALVE**  
10  
[Symbol]

**BACKFLOW PREVENTER**  
10  
[Symbol]

**WET SPRINKLER RISERS**  
8  
[Symbol]

**TEST HEADER**  
10  
[Symbol]

**DIESEL FIRE PUMP**  
10  
[Symbol]

**DIESEL FIRE PUMP CONTROLLER**  
11  
[Symbol]

**PUMP OR MOTOR RUNNING CONTROLLER MAN SWITCH IN OFF OR MANUAL POSITION CONTROLLER OR ENGINE TROUBLE**  
11  
[Symbol]

**EMERGENCY RESPONDER RADIO COMM. SYSTEM**  
15  
[Symbol]

- SIGNAL BOOSTER FAILURE
- SIGNAL STRENGTH DEGRADATION
- BATTERY CHARGER FAILURE
- LOW BATTERY VOLTAGE
- DONOR ANTENNA MALFUNCTION OR DISCONNECTION
- COMMUNICATIONS FAILURE
- AC POWER LOSS
- ERRCS GENERAL TROUBLE

**DRY SPRINKLER RISERS**  
9  
[Symbol]

**FIRE ALARM CONTROL CENTER**  
10  
[Symbol]

[Symbol]

[Symbol]

[Symbol]

[Symbol]

**GENERAL NOTES:**

- COORDINATE INSTALLATION OF ALL CEILING MOUNTED DEVICES WITH OTHER TRADES.
- INSTALL ALL RELAYS WITHIN THREE FEET OF THE DEVICE BEING CONTROLLED PER NFPA 72 SECTION 21.2.4.
- DO NOT INSTALL ANY SMOKE DETECTOR CLOSER THAN 3 FEET FROM A DIFFUSER OR 12 INCHES FROM A LIGHTING FIXTURE.
- MANUAL PULL STATIONS ARE NOT REQUIRED THROUGHOUT SINCE THIS IS A FULLY SPRINKLERED BUILDING WITH COMPLETE OCCUPANT NOTIFICATION PER IFC 907.2.7, EXCEPTION 2.
- HVAC UNITS IN EXCESS OF 2,000CFM SHALL BE EQUIPPED WITH AUTOMATIC SHUTOFF EQUIPMENT ON THE MAIN AIR SUPPLY DUCT. DETECTORS SHALL COMPLY WITH UL 268A, LABELED BY AN APPROVED AGENCY, AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS (PER IMC 609.1).

**KEYED NOTES:**

- NEW FIRE ALARM CONTROL PANEL LOCATE SMOKE DETECTOR NEAR THE FACP PER NFPA 72 10.4.5(1). CONNECT TO 120VAC PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. INSTALLING CONTRACTOR TO VERIFY LOCATION OF FACP WITH THE BUILDING OWNER.
- NEW NAC POWER SUPPLY PANEL(S) LOCATE SMOKE DETECTOR NEAR THE NAC PANEL(S) PER NFPA 72 10.4.5(1). CONNECT TO 120VAC PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- EXTEND WIRING TO ADDITIONAL NAC POWER SUPPLY(S) AS NECESSARY. COORDINATE EXACT QUANTITY PRIOR TO INSTALLATION.
- NEW FIRE ALARM REMOTE LCD ANNUNCIATOR. INSTALLING CONTRACTOR TO VERIFY LOCATION OF ANNUNCIATOR WITH THE BUILDING OWNER.
- CONFIRM LOCATION OF THE FIRE ALARM DOCUMENT CABINET AND DUAL PATH CELLULAR AND IP NETWORK COMMUNICATOR WITH THE OWNER.
- LINE ISOLATION MODULES. CONTRACTOR TO PLACE LINE ISOLATION MODULE BEFORE THE FIRST DEVICE ON THE SIGNALING LINE CIRCUIT (SLC) AND AFTER EACH 25 DEVICES ON THE CLASS A SLC.

- INTERFACE I/O CIRCUIT #1 WITH THE RED EXTERIOR NOTIFICATION APPLIANCE LOCATED ABOVE THE FIRE DEPARTMENT CONNECTION. PROGRAM I/O CIRCUIT TO ALARM ON SPRINKLER WATERFLOW. HOMERUN 24VDC WIRING TO THE FACP LOCATED AT THE MEMBERSHIP DESK. INSTALLING CONTRACTOR TO VERIFY THE LOCATION AND MOUNTING HEIGHT OF THE EXTERIOR NOTIFICATION APPLIANCE WITH THE AHU PRIOR TO INSTALLATION.
- NEW WET SPRINKLER SYSTEM RISERS. COORDINATE WITH FIRE SPRINKLER CONTRACTOR PRIOR TO INSTALLATION OF MONITOR MODULES.
- NEW DRY SPRINKLER SYSTEM RISERS. COORDINATE WITH FIRE SPRINKLER CONTRACTOR PRIOR TO INSTALLATION OF MONITOR MODULES.
- EMERGENCY RESPONDER RADIO COVERAGE SYSTEM. FIRE ALARM CONTRACTOR SHALL COORDINATE REQUIRED MONITORING POINTS WITH ERRCS CONTRACTOR. THESE DRAWINGS SHOW 6 POSSIBLE MONITORING POINTS PER CURRENT NFPA 1221 AND NFPA 1225. THEY ARE SHOWN FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE AND AHJ REQUIREMENTS. CONTRACTOR SHALL COORDINATE INTERCONNECTION BETWEEN ERRCS SYSTEM AND IDC-6 ACCESSORY CARDS WITH THE ERRCS CONTRACTOR.

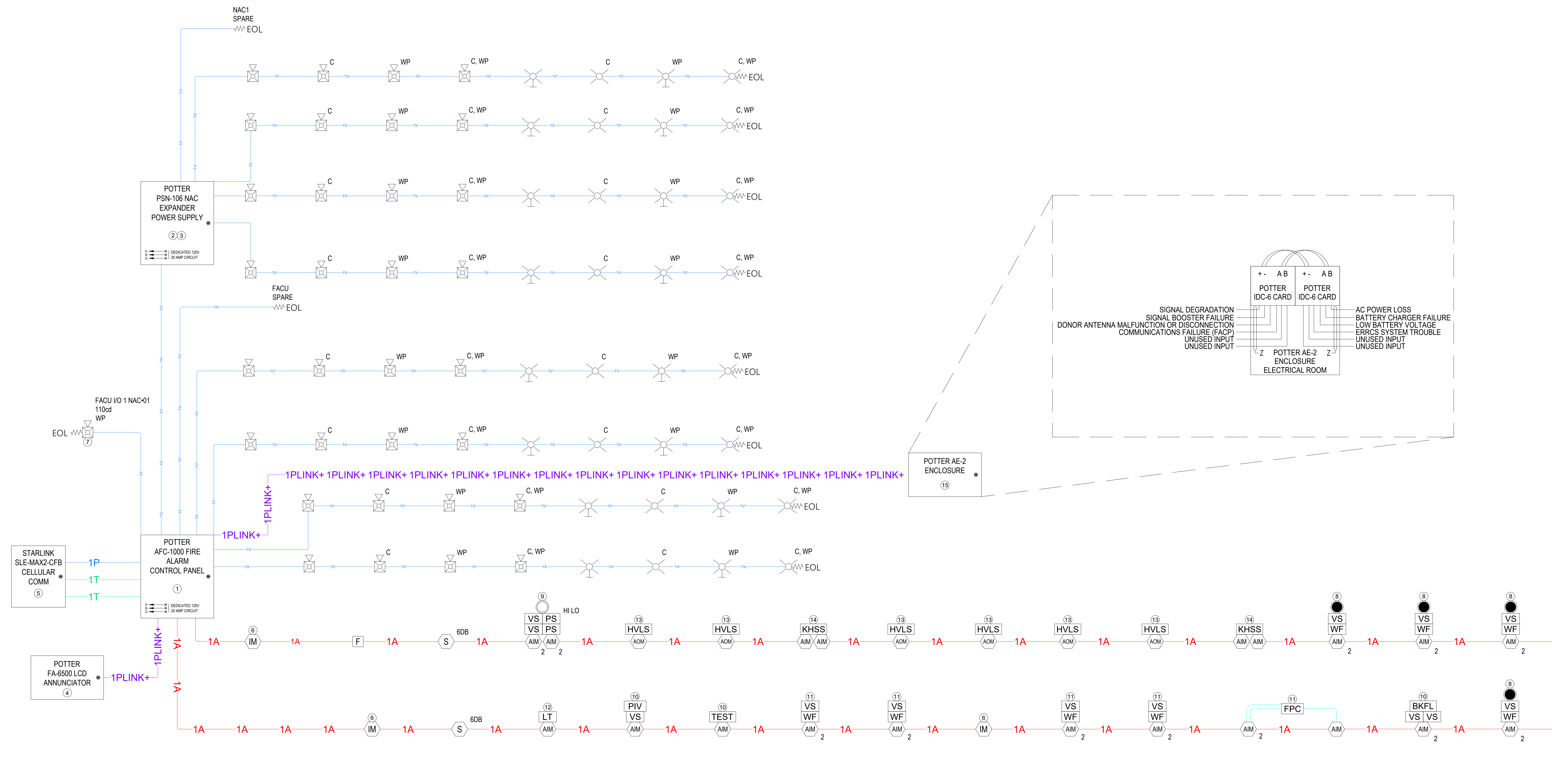
- INTERFACE INPUT MODULE WITH ROOM TEMPERATURE SWITCH TO MONITOR FOR SUPERVISORY CONDITION. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- INTERFACE RELAY WITH THE HIGH VOLUME LOW SPEED (HVLS) FANS FOR SHUTDOWN.
- INTERFACE INPUT MODULES WITH THE KITCHEN HOOD SUPPRESSION SYSTEM TO MONITOR ALARM AND TROUBLE CONDITIONS. FIELD VERIFY EXACT QUANTITY OF CONTACTS NEEDED FOR MONITORING OF THE KITCHEN HOOD SUPPRESSION SYSTEM.
- NEW DIESEL FIRE PUMP AND FIRE PUMP CONTROLLER. COORDINATE FIRE PUMP LOCATION AND QUANTITY OF MONITORING POINTS WITH FIRE SPRINKLER CONTRACTOR PRIOR TO INSTALLATION OF MONITOR MODULES.

- ERRCS CONTRACTOR TO COORDINATE LOCATION OF THE ERRCS ANNUNCIATOR WITH THE FIRE ALARM CONTRACTOR, BUILDING OWNER, AND THE LOCAL AHJ.
- CONTRACTOR TO INSTALL NOTIFICATION APPLIANCE IN A MANNER TO ENSURE VISIBILITY OF THE NOTIFICATION APPLIANCE IS NOT IMPAIRED BY RACKING.
- RISER DIAGRAM IS FOR DIAGRAMMATICAL PURPOSES ONLY. CONTRACTOR TO COORDINATE ANY REQUIRED WIRE ROUTING AND ASSOCIATED REQUIREMENTS PRIOR TO INSTALLATION. REFER TO FA101 FOR DEVICE PLACEMENT.

DATE DESCRIPTION

11.19.25	DESIGN DEVELOPMENT SET
11.26.25	QA SET
12.09.25	QA BACKCHECK SET
12.22.25	PERMIT SET





1 RISER DIAGRAM 18

GENERAL NOTES:

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- AUTOMATIC HVAC SHUTOFF IS NOT REQUIRED ON UNITS SERVING ROOMS IN WHICH THERE IS A DIRECT EXIT TO THE EXTERIOR, AND THE TRAVEL DISTANCE DOES NOT EXCEED 100FT (PER IMC 609.1, EXCEPTION 2).
- DUCT SMOKE DETECTORS ARE NOT REQUIRED WHERE AIR DISTRIBUTION SYSTEMS ARE INCAPABLE OF SPREADING SMOKE BEYOND THE ROOM IN WHICH THE SMOKE IS GENERATED PER IMC 606.2, EXCEPTION 1.
- AREAS WITH OPEN CEILINGS ABOVE 30'-0" A.F.F., MAXIMUM, NOTIFY THE INSTALLING CONTRACTOR TO PLACE LINE ISOLATION MODULES PRIOR TO INSTALLATION.
- ANY FIRE ALARM SYSTEM WIRING SHOWN ON THE PLANS IS FOR REFERENCE ONLY. THE INSTALLING CONTRACTOR SHALL VERIFY EXACT WIRE AND ROUTING REQUIREMENTS PRIOR TO INSTALLATION.
- FIELD VERIFY ALL LOCATIONS AND QUANTITY OF SPRINKLER SYSTEM EQUIPMENT PRIOR TO INSTALLATION.

KEYED NOTES: 18

- NEW FIRE ALARM CONTROL PANEL. LOCATE SMOKE DETECTOR NEAR THE FACP PER NFPA 72 10.4.5(1). CONNECT TO 120VAC PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. INSTALLING CONTRACTOR TO VERIFY LOCATION OF FACP WITH THE BUILDING OWNER.
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- NEW WET SPRINKLER SYSTEM RISERS. COORDINATE WITH FIRE SPRINKLER CONTRACTOR PRIOR TO INSTALLATION OF MONITOR MODULES.
- NEW DRY SPRINKLER SYSTEM RISERS. COORDINATE WITH FIRE SPRINKLER CONTRACTOR PRIOR TO INSTALLATION OF MONITOR MODULES.
- NEW BACKFLOW PREVENTER, POST INDICATOR VALVE, AND TEST HEADER. COORDINATE LOCATION AND QUANTITY WITH FIRE SPRINKLER CONTRACTOR PRIOR TO INSTALLATION OF MONITOR MODULES.
- NEW DIESEL FIRE PUMP AND FIRE PUMP CONTROLLER. COORDINATE FIRE PUMP LOCATION AND QUANTITY OF MONITORING POINTS WITH FIRE SPRINKLER CONTRACTOR PRIOR TO INSTALLATION OF MONITOR MODULES.
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11.26.25	QA SET
12.09.25	QA BACKCHECK SET
12.22.25	PERMIT SET

25-5563-01  
PM: S. PISONI  
DRAWN: D. SHAW  
DATE: 11.19.25

RISER DIAGRAM

FA201

FILE: C:\USERS\OWNER\DESKTOP\WORK\STUFF\NRG FIRE CONSULTING\PROJECTS\COSTCO\NEW WAREHOUSE\LEE'S SUMMIT, MO (NEW WAREHOUSE) - FA.DWG