









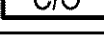


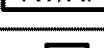
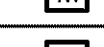
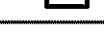


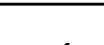





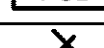



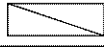





FIRE ALARM SYSTEM LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM SYSTEM CONTROL PANEL
	FIRE ALARM SYSTEM POWER SUPPLY FOR NOTIFICATION DEVICES
	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL
	AES WIRELESS TRANCIEVER
	BATTERY CABINET
	GRAPHIC MAP
	SMOKE DETECTOR (CEILING MOUNTED)
	SMOKE DETECTOR (WALL MOUNTED)
	HEAT DETECTOR (CEILING MOUNTED)
	HEAT DETECTOR (WALL MOUNTED)
	CARBON MONOXIDE SENSOR
	MANUAL PULL STATION - WALL MOUNT OPERABLE PART BETWEEN 42" AND 48" ABOVE FINISH FLOOR
	DUCT SMOKE DETECTOR
	REMOTE TEST STATION / REMOTE INDICATOR
	FIRE ALARM SYSTEM MONITOR MODULE
	FIRE ALARM SYSTEM RELAY MODULE
	FIRE ALARM HORN W/CLEAR (WHITE) STROBE - WALL MOUNTED W/ THE ENTIRE STROBE LENS NOT LESS THAN 80" OR MORE THAN 96" ABOVE THE FINISHED FLOOR OR NOT MORE THAN 6" BELOW THE CEILING, WHICHEVER IS LOWER
	FIRE ALARM HORN ONLY - WALL MOUNTED WITH THE TOP OF THE SPEAKER NOT LESS THAN 90" ABOVE THE FINISHED FLOOR OR NOT LESS THAN 6" BELOW THE CEILING, WHICHEVER IS LOWER
	FIRE ALARM CLEAR (WHITE) STROBE ONLY - WALL MOUNTED WITH THE ENTIRE STROBE LENS NOT LESS THAN 80" OR MORE THAN 96" ABOVE THE FINISHED FLOOR OR NOT MORE THAN 6" BELOW THE CEILING, WHICHEVER IS LOWER
	COMBINATION FIRE ALARM HORN AND SINGLE CLEAR (WHITE) STROBE APPLIANCE - CEILING MOUNTED
	FIRE ALARM SINGLE CLEAR (WHITE) STROBE APPLIANCE - CEILING MOUNTED
	SPRINKLER SYSTEM ALARM BELL (24 VOLTS D.C.)
	DOOR HOLDER
	FIRE / SMOKE DAMPER
	TRANSMITTER ANTENNA

MISCELLANEOUS	
SYMBOL	DESCRIPTION
	CONSTRUCTION NOTES
	RISER DIAGRAM NOTES
	ALL NEW DEVICES INDICATED WITH A DARK CONTINUOUS LINE TYPE
	ALL EXISTING DEVICES THAT ARE TO BE RETAINED ARE INDICATED WITH A LIGHT CONTINUOUS LINE TYPE
	ALL DEVICES THAT ARE TO BE REMOVED ARE INDICATED WITH A DARK DASH LINE TYPE
	MECHANICAL EQUIPMENT CONNECTION - "1" INDICATES MECHANICAL EQUIPMENT IDENTIFICATION AND "A" INDICATES THE DRAWING THE MECHANICAL EQUIPMENT CAN BE FOUND ON
	JUNCTION BOX
FA	FA INDICATES FIRE ALARM
RD	RD INDICATES RETURN DUCT
SD	SD INDICATES SUPPLY DUCT
W	W INDICATES WEATHERPROOF DEVICE

FIRE ALARM FLOOR PLAN GENERAL NOTES

1. PROVIDE ALL MATERIALS, EQUIPMENT, LABOR, DESIGN AND PROGRAMMING FOR A COMPLETE, INTELLIGENT (ANALOG) AND ADDRESSABLE (DIGITAL) LOW VOLTAGE 24 VOLT D.C., FULLY OPERATIONAL FIRE ALARM SYSTEM. ALL EQUIPMENT PROVIDED FOR THIS PROJECT SHALL BE NEW, CURRENTLY MANUFACTURED, AND SHALL BE DELIVERED TO THE PROJECT SITE WITH THE ORIGINAL FACTORY SEAL INTACT. MATERIALS AND WORKMANSHIP SHALL FULLY COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.F.P.A. #70), NATIONAL FIRE ALARM AND SIGNALING CODE (N.F.P.A. #72), AND THE LAWS AND REGULATIONS OF WASHINGTON STATE.
2. THE INITIATION DEVICES, NOTIFICATION APPLIANCES, HEAD END EQUIPMENT, ETC. SHOWN ON THESE CONTRACT DOCUMENTS ARE TO ASSIST THE FIRE ALARM CONTRACTOR IN THE DESIGN OF THE FIRE ALARM / EMERGENCY COMMUNICATION SYSTEM. ALL REQUIRED DEVICES MAY NOT BE INDICATED AND WILL BE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE.
3. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES WITH ARCHITECTURAL ELEVATIONS.
4. CORE DRILLED HOLES SHALL NOT PENETRATE THROUGH ANY STRUCTURAL BEAMS, REBAR CONCRETE SLABS, AND / OR WALLS THAT MAY COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING.
5. WHEN PENETRATING FIRE RATED WALLS, FLOORS, OR CEILINGS, THE CONTRACTOR SHALL UTILIZE APPROVED FIRE RATED PENETRATION METHODS. THE FIRE RATING OF THE WALLS, FLOORS, OR CEILINGS SHALL BE MAINTAINED AFTER THE CONDUIT HAS BEEN INSTALLED.
6. PRIOR TO ROUGH-IN, COORDINATE EXACT LOCATIONS OF FIRE ALARM APPLIANCES AND DEVICES WITH THE GENERAL ELECTRICAL, MECHANICAL, AND FIRE PROTECTION CONTRACTORS.
7. THE GENERAL CONTRACTOR AND FIRE ALARM SYSTEM CONTRACTOR SHALL COORDINATE ALL CUTTING, PATCHING AND FINISH WORK.
8. EACH NEW WATER FLOW SWITCH, PRESSURE SWITCH, OR TAMPER SWITCH SHALL HAVE A SEPARATE AND UNIQUE ADDRESS.
9. ALL MANUAL PULL STATIONS SHALL BE DUAL ACTION, KEY OPERABLE. THE USE OF BREAK GLASS FRONT STATIONS ARE NOT ALLOWED.
10. UNLESS OTHERWISE NOTED IN THESE DRAWINGS, THE BASIS FOR THE VISUAL NOTIFICATION APPLIANCES (STROBES) INDICATED ON THE CONTRACT DOCUMENTS IS THE UTILIZATION OF (75) CANDELA (C.D.) AT A 44'-0" X 44'-0" SPACING FOR CEILING MOUNTED APPLIANCES AND 45'-0" X 45'-0" SPACING FOR WALL MOUNTED APPLIANCES. IF THE FIRE ALARM SYSTEM CONTRACTOR DECIDES TO INSTALL LOWER OUTPUT VISUAL APPLIANCES, IT BECOMES THE RESPONSIBILITY OF THE FIRE ALARM SYSTEM CONTRACTOR TO MEET THE MINIMUM CANDELA (C.D.) RATING AT THE LISTED MAXIMUM ROOM SIZE INDICATED IN TABLE 18.5.5.4.1(A) FOR WALL MOUNTED VISIBLE APPLIANCES OR TABLE 18.5.5.4.1(B) FOR CEILING MOUNTED VISIBLE APPLIANCES IN THE 2013 EDITION OF N.F.P.A. #72.
11. ALL ADDRESSABLE DEVICES AND DETECTOR BASES SHALL BE PERMANENTLY AND CLEARLY LABELED WITH THE DEVICE ADDRESS IN A READILY VISIBLE LOCATION DIRECTLY ON THE DEVICE.

FIRE ALARM CABLING AND CONDUIT REQUIREMENTS

1. ALL INITIATING AND NOTIFICATION CIRCUITS SHALL BE "CLASS B" WIRING.
2. ALL "CLASS B" WIRING CIRCUITS SHALL BE PROVIDED WITH AN "END-OF-LINE" RESISTOR INSTALLED AT THE END OF EACH CIRCUIT.
3. THE USE OF T-TAPPING WILL BE ALLOWED ON S.L.C. (SIGNALING LINE CIRCUIT) CIRCUITS ONLY. T-TAPPING IS NOT ALLOWED ON ANY CIRCUIT REQUIRING AN END OF LINE RESISTOR.
4. ALL WIRE TERMINATIONS SHALL BE BY USE OF WIRE NUTS OR SCREW TYPE TERMINATION BLOCKS.
5. THE USE OF CRIMPED CONNECTORS, TWISTING OF WIRES, ETC. SHALL NOT BE ALLOWED IN J-BOXES, TERMINAL CABINETS, OR ENCLOSURES.
6. ALL WIRES OUTSIDE OF J-BOXES, TERMINAL CABINETS, OR ENCLOSURES SHALL BE FREE OF SPLICES.
7. CONDUITS SHALL BE CONCEALED IN CEILING SPACES, WALLS, AND OTHER AREAS WHEREVER POSSIBLE.
8. ALL CONDUIT SHALL BE INSTALLED IN A PARALLEL OR PERPENDICULAR FASHION THAT IS TIGHT TO STRUCTURE. THE CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING WITH OTHER TRADES.
9. FIRE ALARM CABLING INSTALLED ABOVE ACCESSIBLE CEILINGS SHALL BE ALLOWED TO BE INSTALLED AS OPEN CABLING. PROVIDE "D" RING HANGER FOR ALL OPEN CABLING AT A MAXIMUM SPACING OF 5'-0" ON CENTER.
10. CABLING THAT IS INSTALLED IN WALLS, CABLING THAT IS INSTALLED BELOW 8'-0" IN ELEVATION THAT IS SUBJECT TO DAMAGE, AND CABLING THAT IS INSTALLED ABOVE INACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT.
11. CONDUITS PASSING THROUGH BUILDING EXPANSION JOINTS OR BUILDING SEISMIC JOINTS SHALL HAVE JUNCTION BOXES AT EACH SIDE OF THE EXPANSION / SEISMIC JOINT. PROVIDE SECTION OF FLEXIBLE CONDUIT BETWEEN JUNCTION BOXES AND GROUNDING BUSHINGS WITH #12 GROUNDING CABLE TO MAINTAIN CONTINUITY BETWEEN ALL (2) JUNCTION BOXES. PROVIDE FLEX CONDUIT AND GROUNDING CABLE OF SUFFICIENT LENGTH TO ACCOMMODATE THE CALCULATED BUILDING MOVEMENT PLUS 6" OF ADDITIONAL MOVEMENT. PROVIDE QUANTITIES AS REQUIRED.
12. ALL EXPOSED SURFACE MOUNTED RACEWAYS IN FINISHED SPACES BELOW 8'-0" IN ELEVATION SHALL BE A MINIMUM OF SERIES 700 METAL WIREMOLD OR EQUAL. THE INSTALLATION OF EXPOSED ELECTRICAL METALLIC TUBING (EMT) IN FINISHED SPACES BELOW 8'-0" IN ELEVATION WILL NOT BE ALLOWED.
13. CONDUITS SHALL NOT EXCEED FILL RATING OF 40% AS DEFINED BY THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (N.F.P.A. #70). PROVIDE SIZES AND QUANTITIES AS REQUIRED.
14. WHERE EXPOSED TO VIEW IN FINISHED SPACES, PAINT ALL NEW CONDUITS, MOUNTING HARDWARE, AND RACEWAYS TO MATCH THE ADJACENT SURFACES.
15. ALL NEW FIRE ALARM SYSTEM JUNCTION BOXES SHALL BE PAINTED RED AND ANNOTATED "FIRE ALARM POWER LIMITED" ON THE COVER IN BLACK BOLD PRINT HAVING MINIMUM CHARACTER FONT SIZE ¼" TALL X ½" WIDE.

FIRE ALARM SYSTEM EQUIPMENT REQUIREMENTS

1. THE FIRE ALARM SYSTEM SHALL BE FULLY FUNCTIONAL WITHOUT THE USE OF PRIMARY POWER. THE FIRE ALARM SYSTEM SHALL BE PROVIDED WITH A MINIMUM OF 24 HOURS OF STANDBY OPERATION FOLLOWED BY AN ADDITIONAL 5 MINUTES OF ALARM OPERATION.
2. ALL BATTERIES SHALL PROVIDE AT LEAST 25% SPARE CAPACITY.
3. THE FIRE ALARM SYSTEM CONTROL PANEL (FACP) MAY INCLUDE INTERNAL POWER SUPPLIES. THE FIRE ALARM SYSTEM POWER SUPPLIES (FAPS) ARE SHOWN FOR REFERENCE ONLY. PROVIDE ADDITIONAL QUANTITIES OF POWER SUPPLIES AS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. THE FIRE ALARM SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ELECTRICAL CONTRACTOR FOR ALL POWER CONNECTIONS THE FIRE ALARM SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL COSTS ASSOCIATED WITH ALL NON-COORDINATED POWER CONNECTIONS.
4. PROVIDE 25% SPARE CAPACITY FOR NOTIFICATION POWER SUPPLIES.
5. PROVIDE MULTIPLE INITIATING DEVICE CIRCUITS AND SIGNALING LINE CIRCUITS SO THAT FAILURE OF ONE CIRCUIT DOES NOT CAUSE THE FACILITY TO LOSE OVER 50% OF ITS DETECTION CAPABILITY PER FLOOR.
6. PROVIDE A MINIMUM OF 2 ISOLATION MODULES PER CIRCUIT. EACH CIRCUIT SHALL HAVE A MAXIMUM OF 20 DEVICES PER ISOLATION MODULE.
7. PROVIDE BATTERY CALCULATIONS FOR ALL FIRE ALARM SYSTEMS.
8. PROVIDE AUDIO AMPLIFIERS, SWITCHES, AND OTHER APPURTENANCES, AS REQUIRED.
9. PROVIDE AUDIO AMPLIFIER WITH 50% SPARE CAPACITY FOR VOICE NOTIFICATION
10. AMPLIFIER CIRCUITS SHALL BE LOADED TO NO MORE THAN 75% OF RATED CONTINUOUS CAPACITY WHEN PRODUCING SOUND LEVELS AS REQUIRED BY N.F.P.A. #72 AGAINST NORMAL AMBIENT BACKGROUND NOISE LEVELS.

FIRE ALARM SYSTEM
AUDIBILITY & INTELLIGIBILITY REQUIREMENTS

1. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PERFORM AUDIBILITY TESTING IN EACH SPACE OF THE BUILDING PRIOR TO ACCEPTANCE TESTING. DOCUMENTATION OF DECIBEL (dB) VALUES RECORDED IN ALL SPACES SHALL BE PROVIDED TO THE ARCHITECT / ENGINEER PRIOR TO ACCEPTANCE TESTING.
 - A. DECIBEL READINGS SHALL BE TAKEN AT A POINT 10'-0" FROM THE APPLIANCE AT AN ELEVATION OF 5'-0" ABOVE FINISHED FLOOR.
 - B. THE SOUND LEVEL SHALL BE A MINIMUM OF 15 DECIBELS (dBs) ABOVE THE AVERAGE AMBIENT SOUND LEVEL.
 - C. THE SOUND LEVEL SHALL BE A MAXIMUM OF 30 DECIBELS (dBs) ABOVE THE AVERAGE AMBIENT SOUND LEVEL.
 - D. THE SOUND LEVEL SHALL BE A MINIMUM OF 5 DECIBELS (dBs) ABOVE THE MAXIMUM SOUND LEVEL HAVING A MINIMUM DURATION OF 60 SECONDS.
 - E. IN SPACES THAT DO NOT MEET THE MINIMUM AUDIBLE (dB) VALUES, THE FIRE ALARM / EMERGENCY COMMUNICATION SYSTEM CONTRACTOR SHALL PROVIDE ADDITIONAL AUDIBLE NOTIFICATION APPLIANCES UNTIL THE MINIMUM DECIBEL (dB) VALUES ARE OBTAINED.

FIRE ALARM FLOOR PLAN CONSTRUCTION NOTES

- ① SEE THE FIRE ALARM RISER DIAGRAM ON SHEET FA0.03 FOR MORE INFORMATION.
- ② AUDIBLE / VISUAL NOTIFICATION DEVICES TO BE COORDINATED WITH THE INSTALLATION LOCATIONS OF THE MECHANICAL UNITS AND DUCTWORK, SEE MECHANICAL DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT.
- ③ LOCATION FOR AES ANTENNA IF REQUIRED TO BE PLACED ON EXTERIOR OF THE BUILDING.
- ④ THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE CARBON MONOXIDE DETECTION IN SPACES WITH FOSSIL FUEL BURNING APPLIANCES, EQUIPMENT, STOVES, OR FIRE PLACES PER IBC 915.1.2. THE FIRE ALARM CONTRACTOR SHALL PROVIDE CARBON MONOXIDE DETECTION IN CLASSROOMS PER IBC 915.2.3. THE AUDIBLE MESSAGE AND TONE SHALL BE UNIQUE AND DIFFERENT FROM ALL FIRE ALARM SYSTEM MESSAGES AND TONES.
- ⑤ DETECTORS MARKED WITH THIS NOTE NUMBER REPRESENTS A SLOPED CEILING AREA. PROVIDE SMOKE DETECTION AS REQUIRED BY NFPA #72 SECTION 17.7.3.3 THRU 17.7.3.4 SMOKE DETECTOR SPACING SHALL BE DE-RATED FOR SLOPED CEILINGS BASED ON THE AVERAGE HEIGHT OF THE CEILING USING TABLE 17.6.3.5.1 OF THE 2015 EDITION OF NFPA #72.
- ⑥ ANY PORTABLE OR OUT BUILDING CURRENTLY CONNECTED TO THE SYSTEM SHALL BE RECONNECTED VIA EXISTING CONDUITS. PROVIDE SPEAKER STROBES AND DETECTION AS NECESSARY. SEE SITE PLAN E1.01 FOR ADDITIONAL REQUIREMENTS.
- ⑦ AUDIBLE / VISUAL NOTIFICATION DEVICES AND MANUAL PULL STATIONS TO BE COORDINATED WITH THE INSTALLATION LOCATIONS OF THE MECHANICAL UNITS AND DUCTWORK, SEE MECHANICAL DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT.

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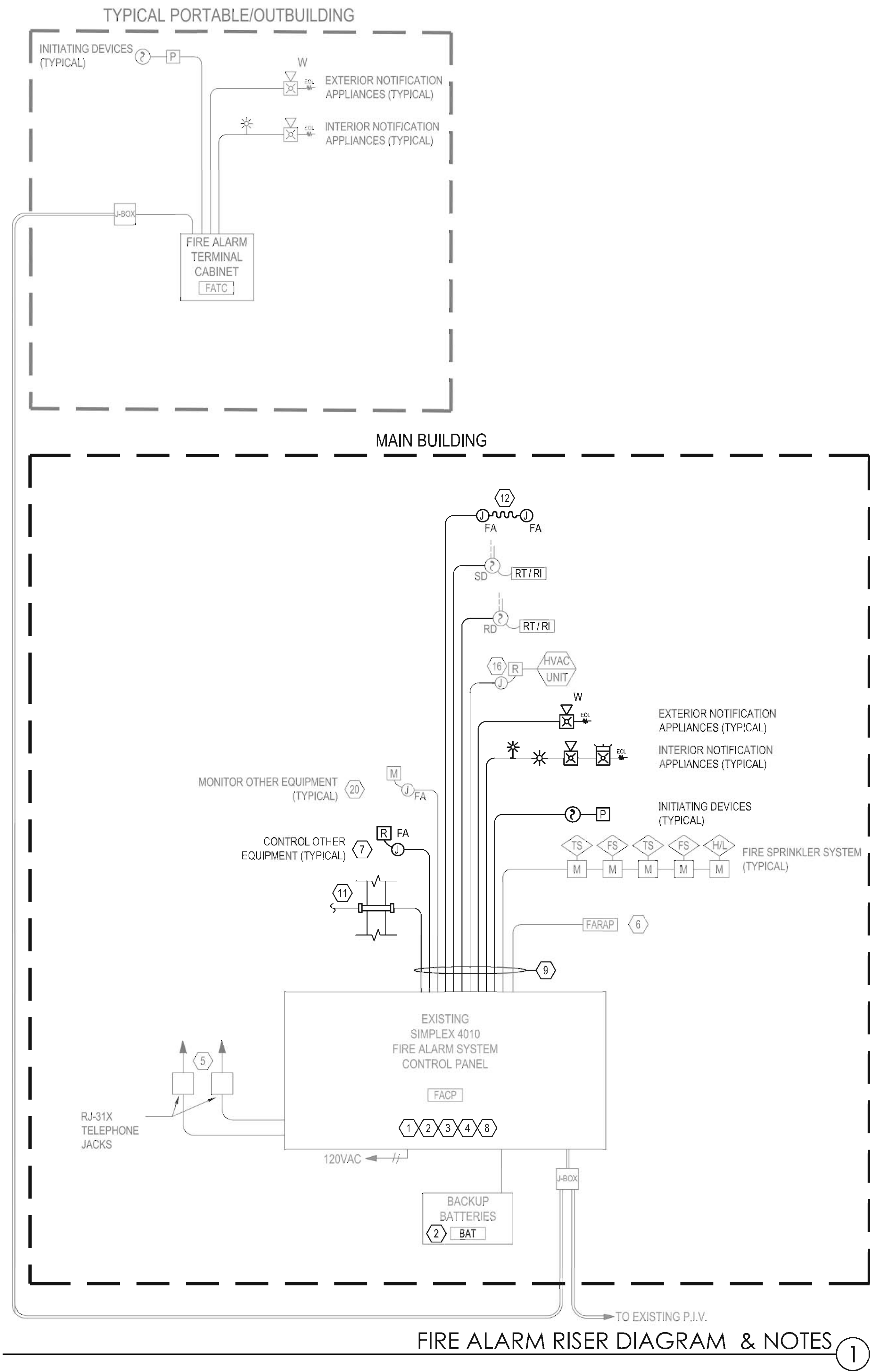
Vancouver School District
**FRANKLIN
ELEMENTARY
SCHOOL
ADDITION**

1698, 5206 NW Franklin St.
Vancouver, WA 98663

JOB NO: 1806
ISSUE DATE: 08/19/2019
Jurisdiction Stamp Area

**FIRE ALARM
SYSTEM
LEGEND &
NOTES**

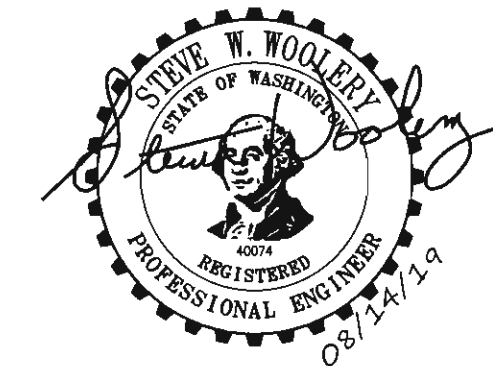
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FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS MATRIX																			
Notes: 1. If "Sequence of Operations" indicated here conflicts with specification, this "Sequence of Operations" supersedes specification sequence. 2. Provide a complete "Sequence of Operations" in accordance with N.F.P.A. #72 and contract documents. 3. This "Sequence of Operations" is considered to be the minimum amount of items required for this project. Provide additional Inputs and/or Outputs as required by the Authority Having Jurisdiction.	System Inputs	System Outputs																	
		Fire Alarm System Control Panel																	
		Annunciate "Alarm Condition" at the Fire Alarm System Control Panel																	
		Annunciate "Alarm Condition" at the Fire Alarm System Remote Annunciator																	
	System Inputs	Transmit "Alarm Signal" to the Central Station Monitoring Company																	
		Annunciate "Trouble Condition" at the Fire Alarm Control Panel																	
		Annunciate "Trouble Condition" at the Fire Alarm Remote Annunciator																	
		Transmit "Trouble Signal" to the Central Station Monitoring Company																	
	System Inputs	Annunciate "Supervisory Condition" at the Fire Alarm Control Panel																	
		Annunciate "Supervisory Condition" at the Fire Alarm Remote Annunciator																	
		Transmit "Supervisory Signal" to the Central Station Monitoring Company																	
		Audible / Visual Notification Appliances																	
	System Inputs	Activate All Fire Alarm System Audible Notification Appliances																	
		Activate All Fire Alarm System Visual Notification Appliances																	
		Immediately Deactivate All Fire Alarm System Audible Notification Appliances																	
		Immediately Deactivate All Fire Alarm System Visual Notification Appliances																	
	System Inputs	Immediately Disable All Audio / Visual (A/V), Public Address (P/A), and Intercom Systems																	
		Audible Notification Appliances Operation Maintained until Fire Alarm System Reset																	
		Visual Notification Appliances Operation Maintained until Fire Alarm System Reset																	
		Doors Holders																	
	System Inputs	Release All Doors in Stairways to be Closed																	
		Release Door(s) to be Closed																	
		H.V.A.C. Mechanical Systems																	
		Initiate Local H.V.A.C. Unit Shutdown for the H.V.A.C. Unit that the Smoke Detector is Serving only																	
	System Inputs	Initiate Global H.V.A.C. Unit Shutdown to the Energy Management Control System (EMCS)																	
		Fire Suppression / Sprinkler Systems																	
		Local Sprinkler System Electric Bell Activation Upon the Flow of Sprinkler System Water																	
		Send a Signal to the Sprinkler System Control Panel																	
	System Inputs	Send a Signal to the Suppression System Control Panel																	
		Fire Alarm System:																	
		Fire Alarm System Control Panel in Alarm Condition																	
		Manual Pull Station																	
	System Inputs	Smoke Detector																	
		Beam Detector																	
		Heat Detector																	
		Fire Alarm System Control Panel in Trouble Condition																	
	System Inputs	Fire Alarm System Control Panel in Supervisory Condition																	
		Fire Alarm Control Panel Bypass																	
		Wet Pipe Automatic Fire Protection Sprinkler Systems:																	
		Water Flow Switch																	
	System Inputs	Control Valve Tamper Switch																	
		Post Indicating Valve Tamper Switch																	
		Dry Pipe Automatic Fire Protection Sprinkler Systems:																	
		Activation of Pressure Switch – Alarm (Loss of Air Pressure)																	
	System Inputs	Activation of Pressure Switch – Supervisory Air (Low System Air Pressure)																	
		Control Valve Tamper Switch																	
		Post Indicating Valve Tamper Switch																	

FIRE ALARM SYSTEM RISER DIAGRAM NOTES

- 1 THE RISER DIAGRAM IS DIAGRAMMATIC IN NATURE. IT DOES NOT SHOW ALL DEVICES AND DOES NOT REPRESENT ACTUAL CONDUIT OR CABLE ROUTING.
- 2 THE FIRE ALARM SYSTEM SHALL BE FULLY FUNCTIONAL WITHOUT THE USE OF PRIMARY POWER. THE FIRE ALARM SYSTEM SHALL BE PROVIDED WITH A MINIMUM OF 24 HOURS OF STANDBY OPERATION FOLLOWED BY AN ADDITIONAL 5 MINUTES OF ALARM OPERATION. ALL BATTERIES SHALL BE SIZED TO PROVIDE AT LEAST 25% ADDITIONAL SPARE CAPACITY. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 3 PROVIDE SYSTEM POWER SUPPLIES WHERE REQUIRED.
- 4 PROVIDE ALL NECESSARY EQUIPMENT, INTERFACES, OTHER APPURTENANCES, AND PROGRAMMING AS REQUIRED FOR COMMUNICATION TO THE CENTRAL STATION MONITORING COMPANY OR MONITORING STATION.
- 5 FIRE ALARM SYSTEM MONITORING IS EXISTING VIA POTTS LINES
- 6 FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL INSTALLED IN MAIN ENTRY
- 7 PROVIDE FIRE ALARM CONTROL RELAYS TO SHUNT THE AUDIO / VIDEO SYSTEM, ETC.
- 8 PROVIDE SURGE PROTECTION ON ALL INCOMING PRIMARY POWER SUPPLIES SERVING FIRE ALARM SYSTEM PANELS.
- 9 PROVIDE SYSTEM CABLES FOR A FULLY FUNCTIONAL SYSTEM AS REQUIRED.
- 10 ALL WIRE RUN UNDERGROUND SHALL BE SUITABLE FOR "WET" INSTALLATIONS.
- 11 FIRE ALARM SYSTEM CABLING THAT PENETRATES EXISTING OR NEW WALLS SHALL BE PROVIDED WITH AN APPROVED PENETRATION METHOD AS OUTLINED IN THE PROJECT SPECIFICATIONS.
- 12 CONDUITS PASSING THROUGH BUILDING EXPANSION JOINTS OF BUILDING SEISMIC JOINTS SHALL HAVE JUNCTION BOXES AT EACH SIDE OF THE EXPANSION / SEISMIC JOINT. PROVIDE SECTION OF FLEXIBLE CONDUIT BETWEEN JUNCTION BOXES AND GROUNDING BUSHINGS WITH 12 GROUNDING CABLE TO MAINTAIN CONTINUITY BETWEEN ALL (2) JUNCTION BOXES. PROVIDE FLEX CONDUIT AND GROUNDING CABLE OF SUFFICIENT LENGTH TO ACCOMMODATE THE CALCULATED BUILDING MOVEMENT PLUS 6" OF ADDITIONAL MOVEMENT.
- 13 PROVIDE REMOTE ALARM INDICATOR FOR EACH INITIATING DEVICE NOT VISIBLE FROM THE FLOOR (WHERE APPLICABLE). REMOTE ALARM INDICATORS INSTALLED IN ACOUSTICAL CEILING TILES SHALL BE CENTERED ON THE CEILING TILES (12" FROM AN ACOUSTICAL TILE RUNNER) OR ON THE WALL OF EXPOSED STRUCTURE SPACES.
- 14 THE FIRE ALARM CONTRACTOR SHALL PROVIDE CARBON MONOXIDE DETECTION IN SPACES WITH FOSSIL FUEL BURNING APPLIANCES, EQUIPMENT, STOVES, OR FIRE PLACES. THE AUDIBLE MESSAGE AND TONE SHALL BE UNIQUE AND DIFFERENT FROM ALL FIRE ALARM SYSTEM MESSAGES AND TONES.
- 15 DUCT SMOKE DETECTOR SHALL BE PROVIDED BY THE FIRE ALARM SYSTEM CONTRACTOR, INSTALLED BY THE MECHANICAL CONTRACTOR, WITH CABLING AND TERMINATION PROVIDED BY THE ELECTRICAL CONTRACTOR. INSTALL DUCT SMOKE DETECTORS FOR AIR HANDLING UNITS GREATER THAN 2,000 C.F.M. CAPACITY ON THE RETURN SIDE OF H.V.A.C. UNIT PER INTERNATIONAL MECHANICAL CODE SECTION 606.2. INSTALL DUCT SMOKE DETECTORS FOR AIR HANDLING UNITS OF 2,000 C.F.M. OR GREATER CAPACITY ON THE SUPPLY SIDE OF H.V.A.C. UNIT PER NFPA 90A CODE SECTION 6.4.
- 16 THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE A RELAY MODULE TO SHUT DOWN THE H.V.A.C. UNIT UPON ACTIVATION OF H.V.A.C. UNIT DUCT SMOKE DETECTOR IN ADDITION TO TRANSMITTING A SUPERVISORY SIGNAL AT THE FIRE ALARM CONTROL PANEL.



REVISIONS	DATE

Vancouver School District
**FRANKLIN
ELEMENTARY
SCHOOL**

**FIRE ALARM
RISER DIAGRAM
AND NOTES**



#	REVISIONS	DATE

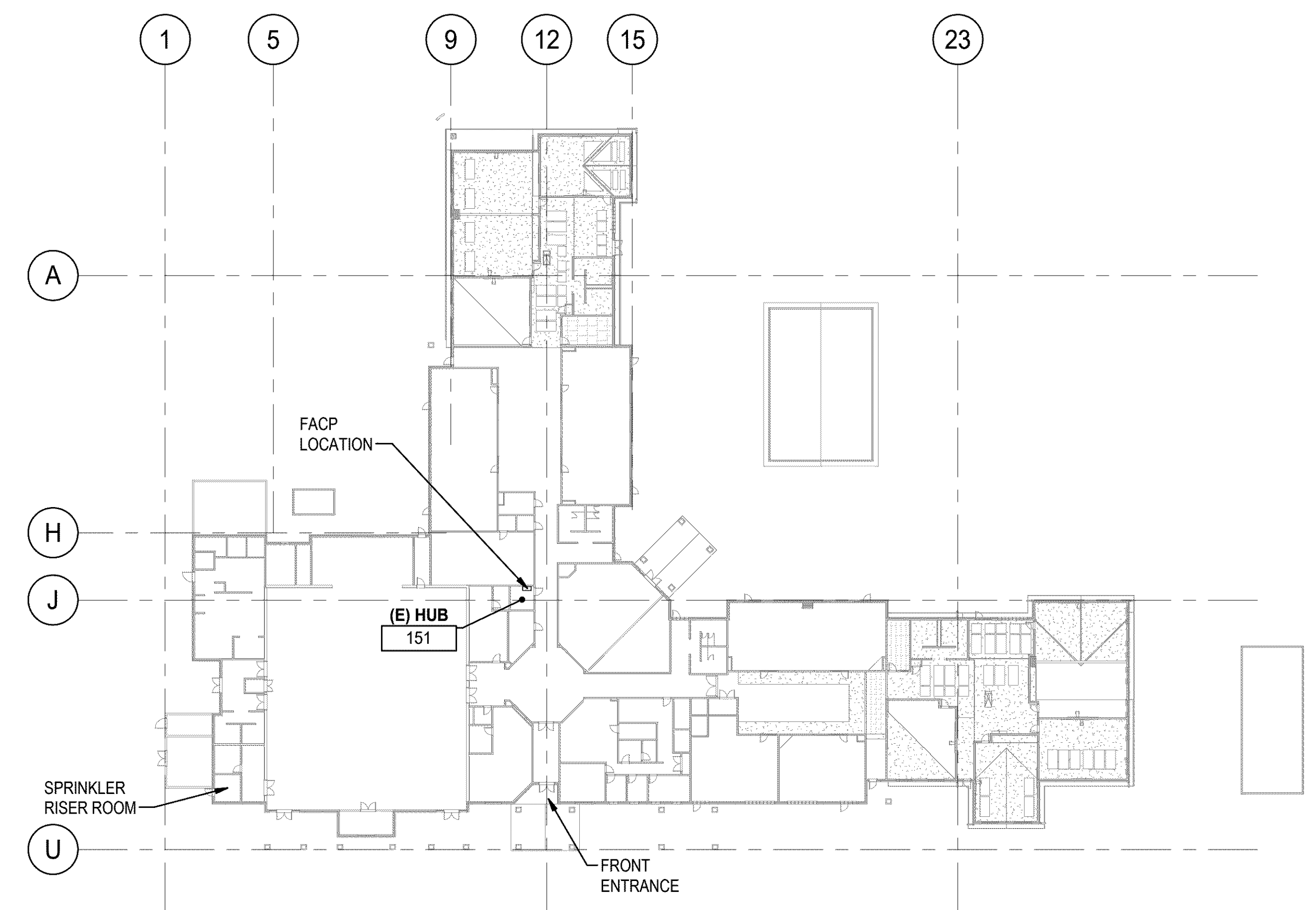
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**FIRE ALARM
SYSTEM FLOOR
PLANS**

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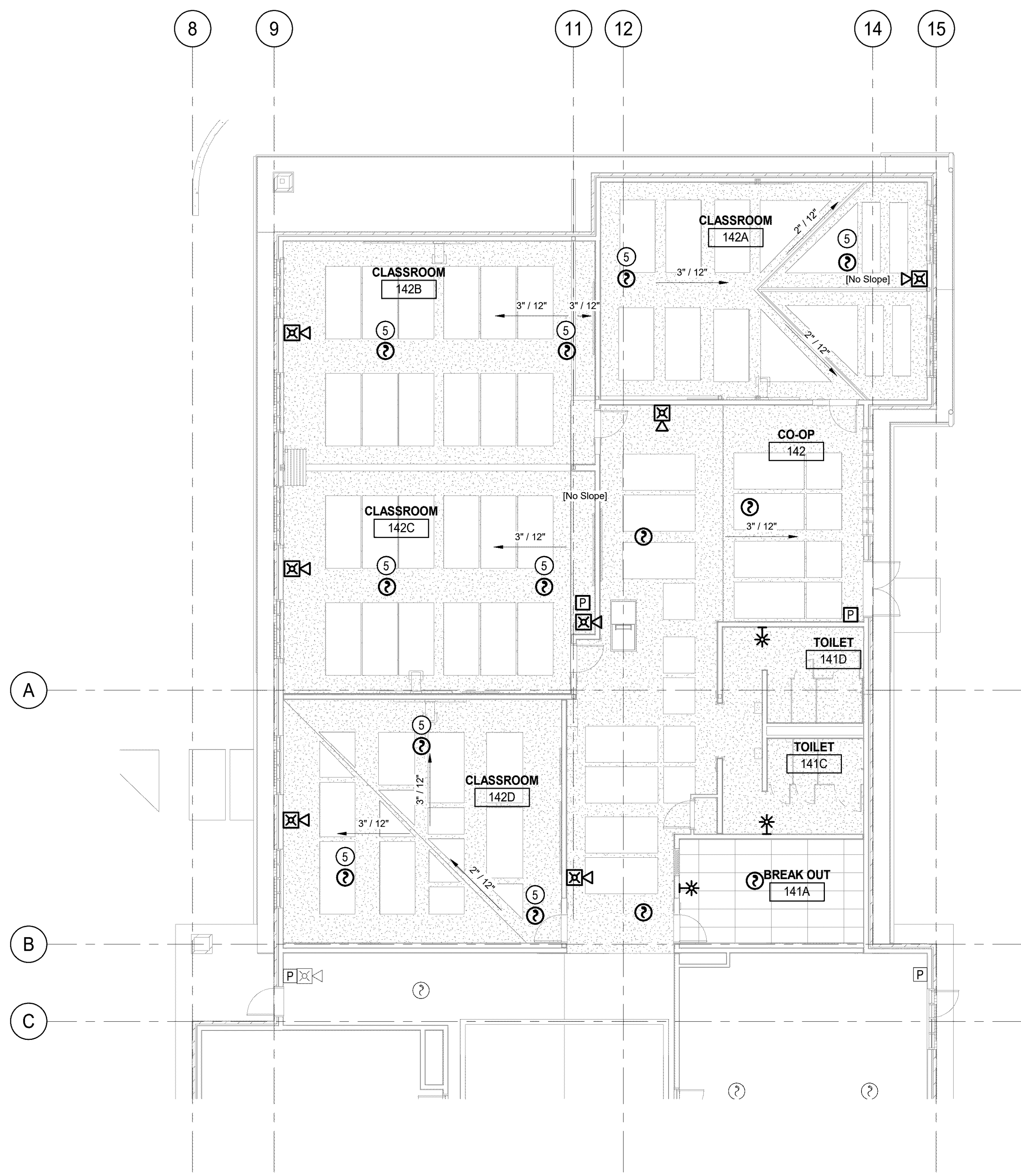
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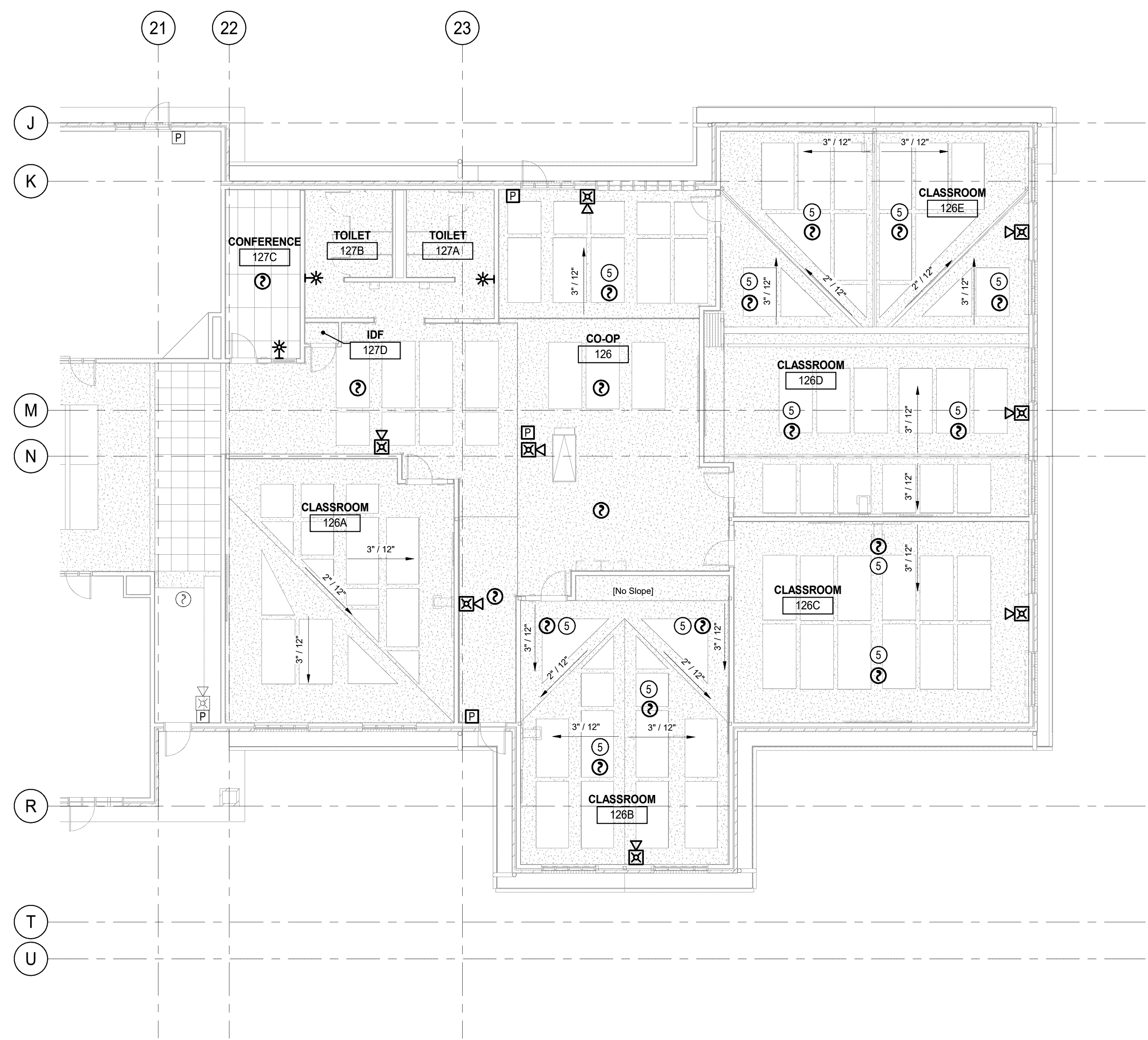
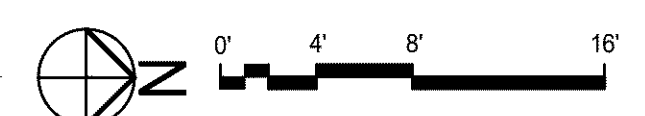
3 FIRE ALARM OVERALL PLAN
1" = 40'-0"



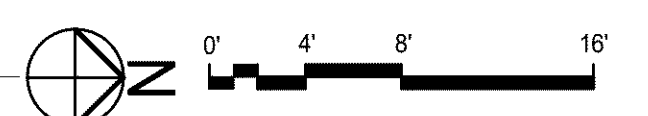
- GENERAL NOTES**
- THE FIRE ALARM SYSTEM CONTRACTOR SHALL COMPLETELY REPLACE ALL FIRE ALARM SYSTEM PANELS, INITIATION DEVICES, NOTIFICATION DEVICES, CONTROL DEVICES, AND WIRING IN THE AREA OF WORK SHOWN ON THESE PLANS IN THEIR ENTIRETY.
 - SEE SHEET FA0.01 FOR FIRE ALARM SYSTEM EQUIPMENT REQUIREMENTS, AUDIBILITY REQUIREMENTS, CABLING AND CONDUIT REQUIREMENTS, FLOOR PLAN GENERAL AND FLOOR PLAN CONSTRUCTION NOTES.
 - WHERE NEW FIRE ALARM SYSTEM DEVICES ARE INSTALLED ON EXISTING WALLS, PROVIDE WIREMOLD 700 OR 2400 SERIES RACEWAY, SIZED AS REQUIRED, ROUTED TO NEAREST ACCESSIBLE CEILING SPACE. **RUN SURFACE RACEWAY AS INCONSPICUOUSLY AS POSSIBLE.** FOLLOW WALL AND CEILING JOINTS TO MAINTAIN A CLEAN VISUAL APPEARANCE. PROVIDE FLEXIBLE ELBOWS WHERE NECESSARY FOR SURFACE RACEWAY CONTAINING DATA CABLES. IN AREAS THAT ARE NOT BEING REPAINTED, PAINT SURFACE RACEWAY TO MATCH ADJACENT SURFACES.
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 - THE FIRE ALARM SYSTEM CONTRACTOR SHALL COORDINATE THE FIRE ALARM SYSTEM INSTALLATION WITH EXISTING ARCHITECTURAL FEATURES, H.V.A.C. GRILLES, ELECTRICAL LIGHTS, FIRE PROTECTION SPRINKLER HEADS, AND/OR EXISTING CONDITIONS.
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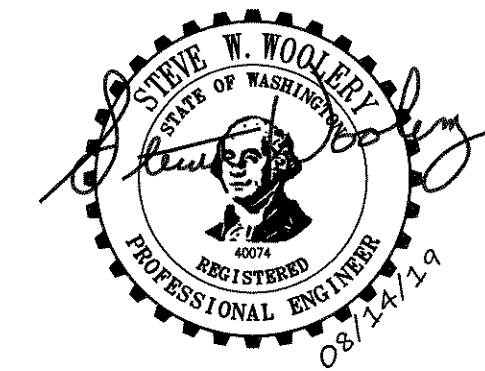


2 FIRST FLOOR FIRE ALARM PLAN - WEST
1/8" = 1'-0"

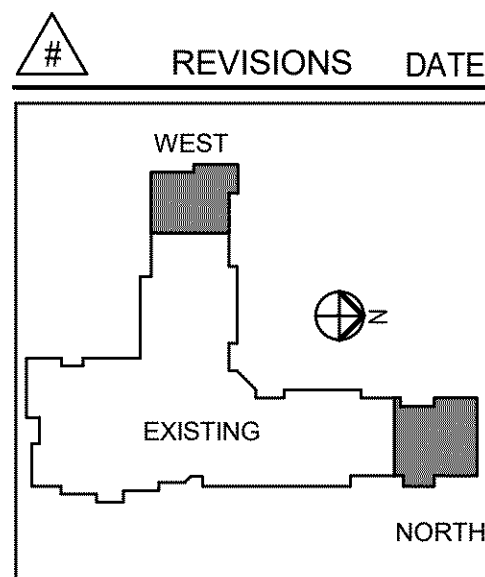


1 FIRST FLOOR FIRE ALARM PLAN - NORTH
1/8" = 1'-0"





#	REVISIONS	DATE



Vancouver School District
**FRANKLIN
ELEMENTARY
SCHOOL
ADDITION**

1698, 5206 NW Franklin St.
Vancouver, WA 98663

JOB NO: 1806
ISSUE DATE: 08/19/2019

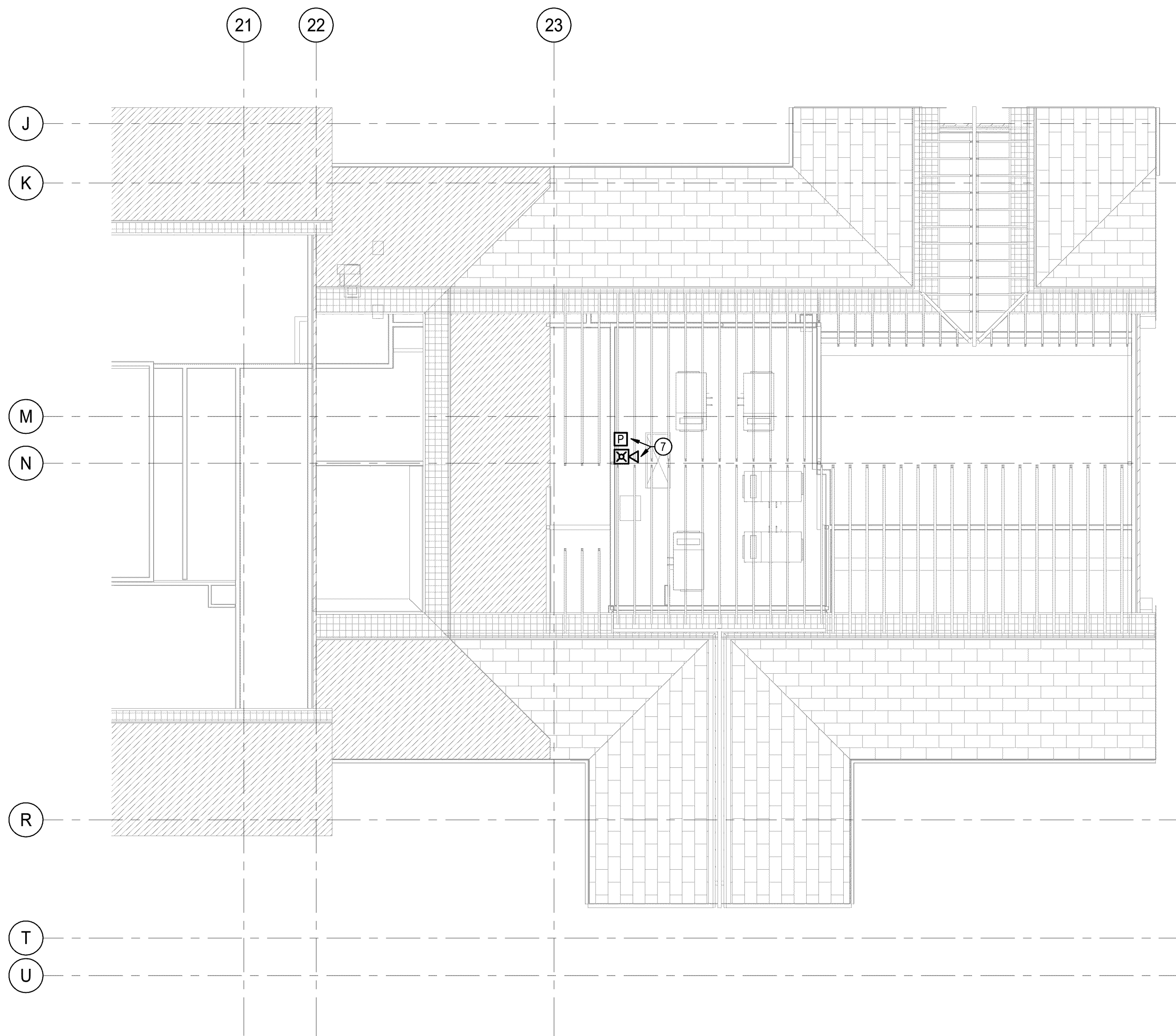
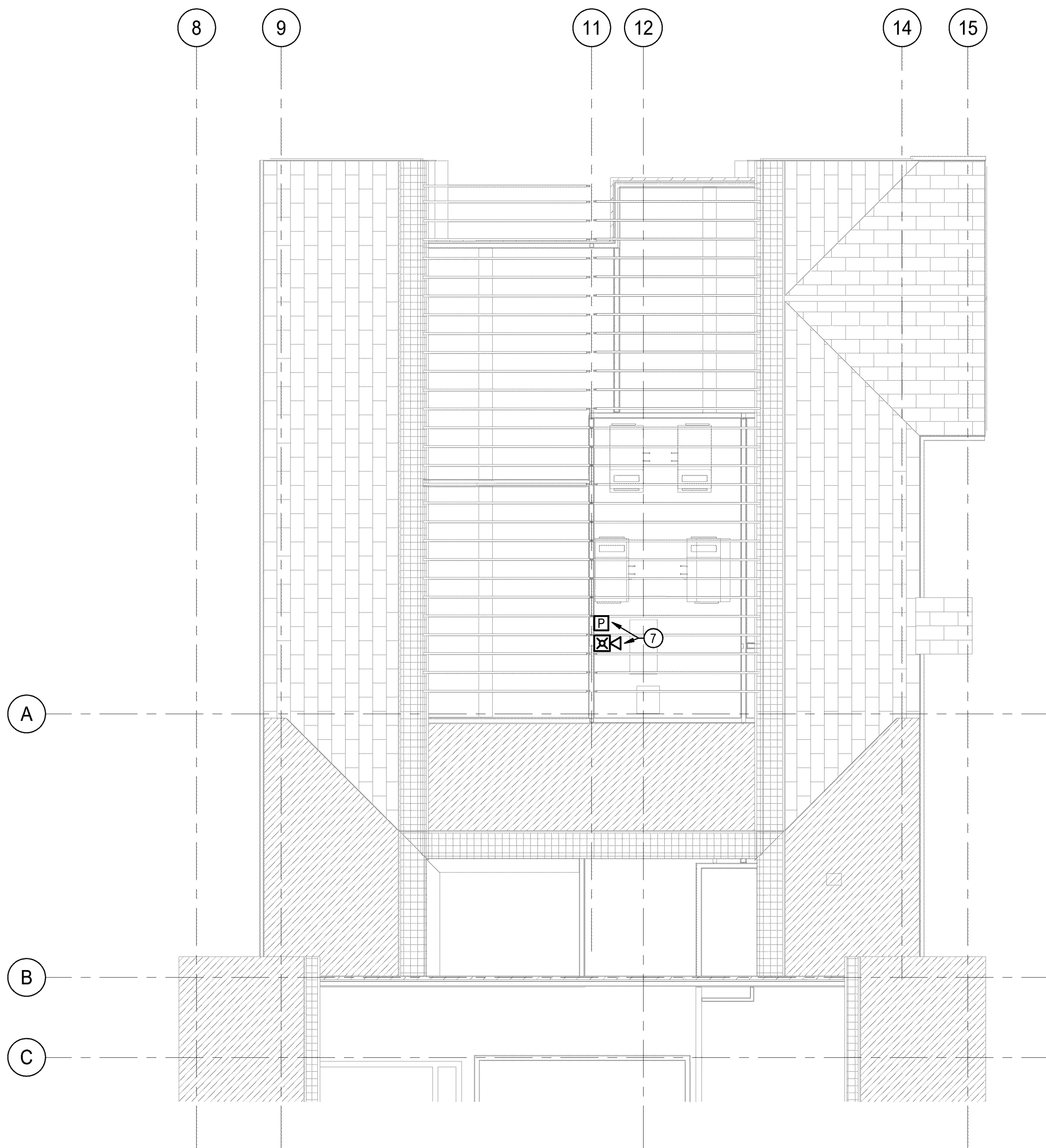
Jurisdiction Stamp Area

**FIRE ALARM
SYSTEM ATTIC
PLANS**

FA1.11

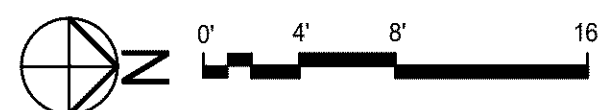
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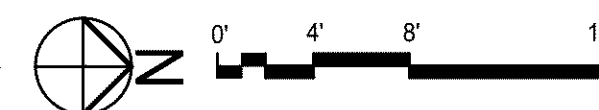


8/14/2019 8:56:17 AM

1 ATTIC FIRE ALARM PLAN - WEST
1/8" = 1'-0"



2 ATTIC FIRE ALARM PLAN - NORTH
1/8" = 1'-0"



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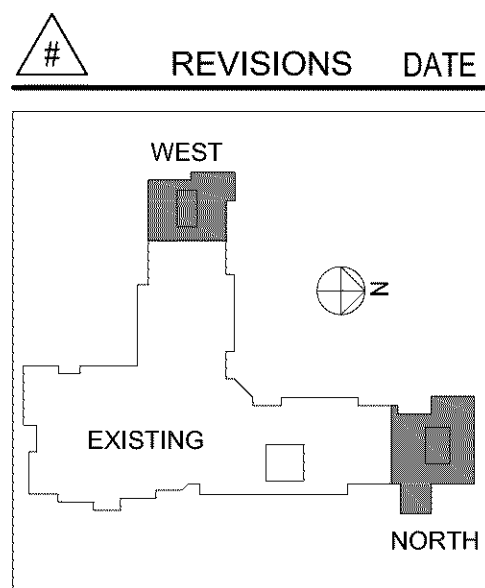
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COST CONSULTANT
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ONE INCH
AT FULL SIZE



#	REVISIONS	DATE



Vancouver School District
**FRANKLIN
ELEMENTARY
SCHOOL**

1698, 5206 NW Franklin St.
Vancouver, WA 98663

JOB NO: 1806
ISSUE DATE: 8/19/2019

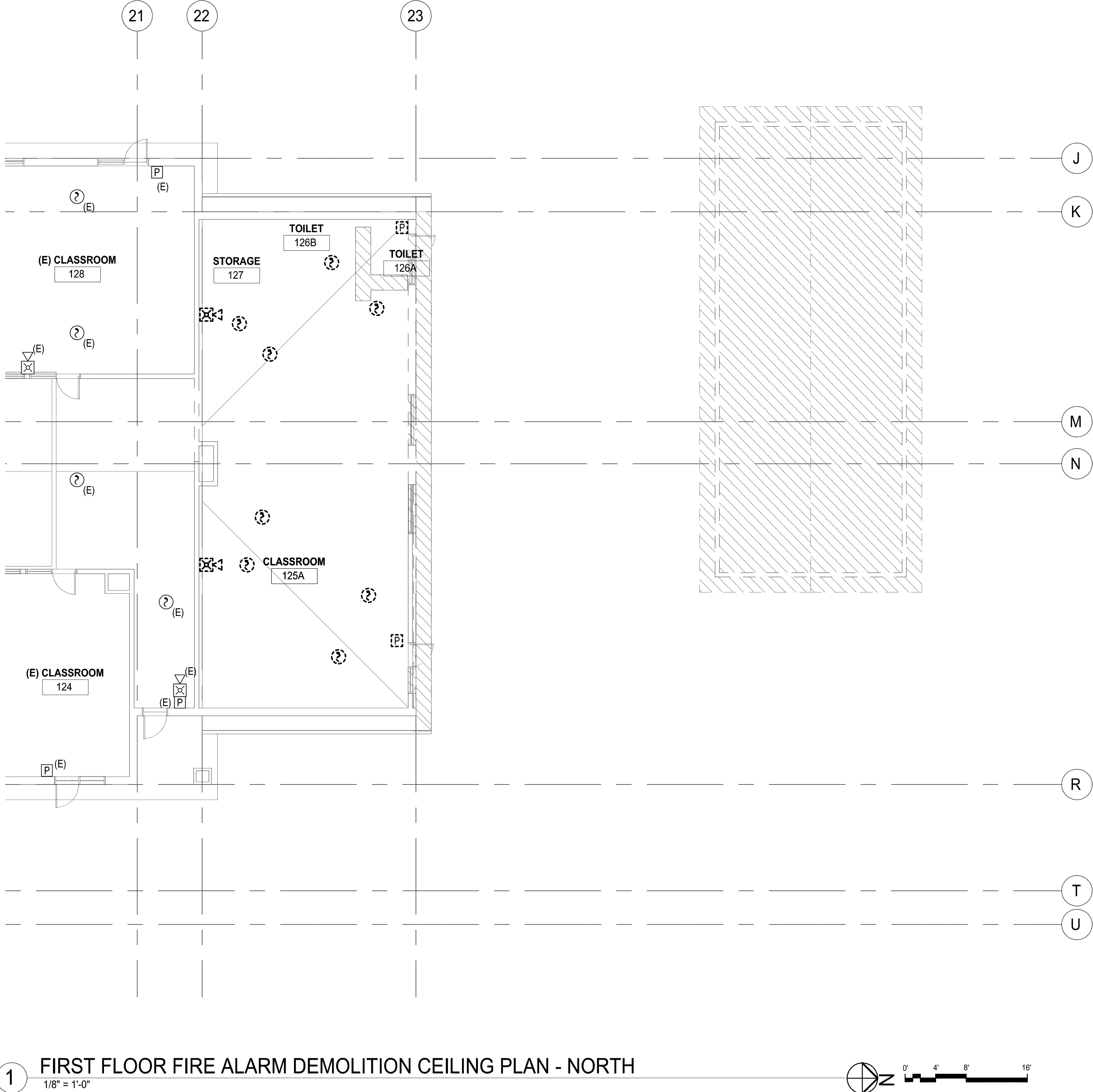
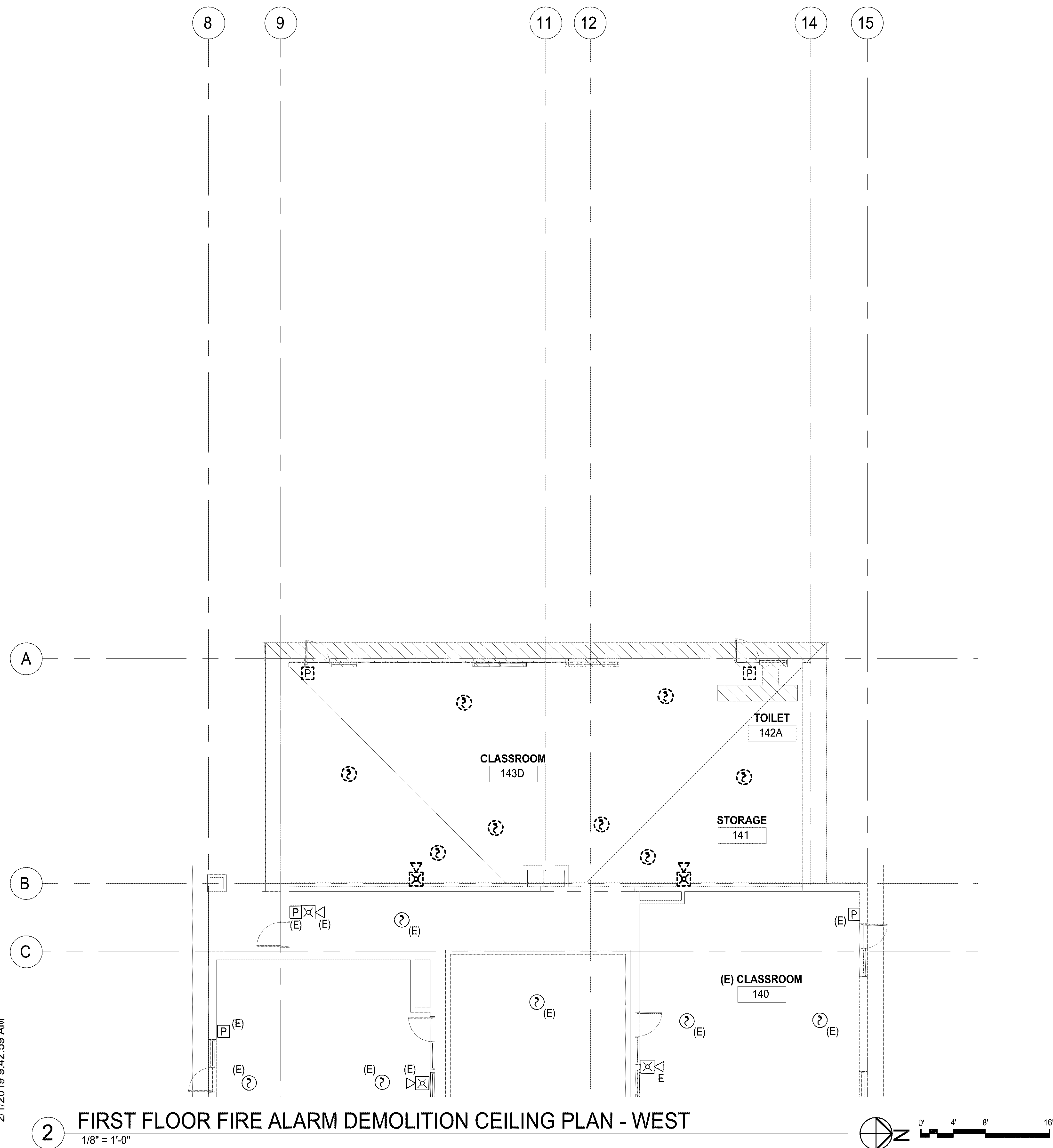
Stamp Area

**FIRE ALARM
SYSTEM
DEMOLITION
PLANS**

FAD1.01

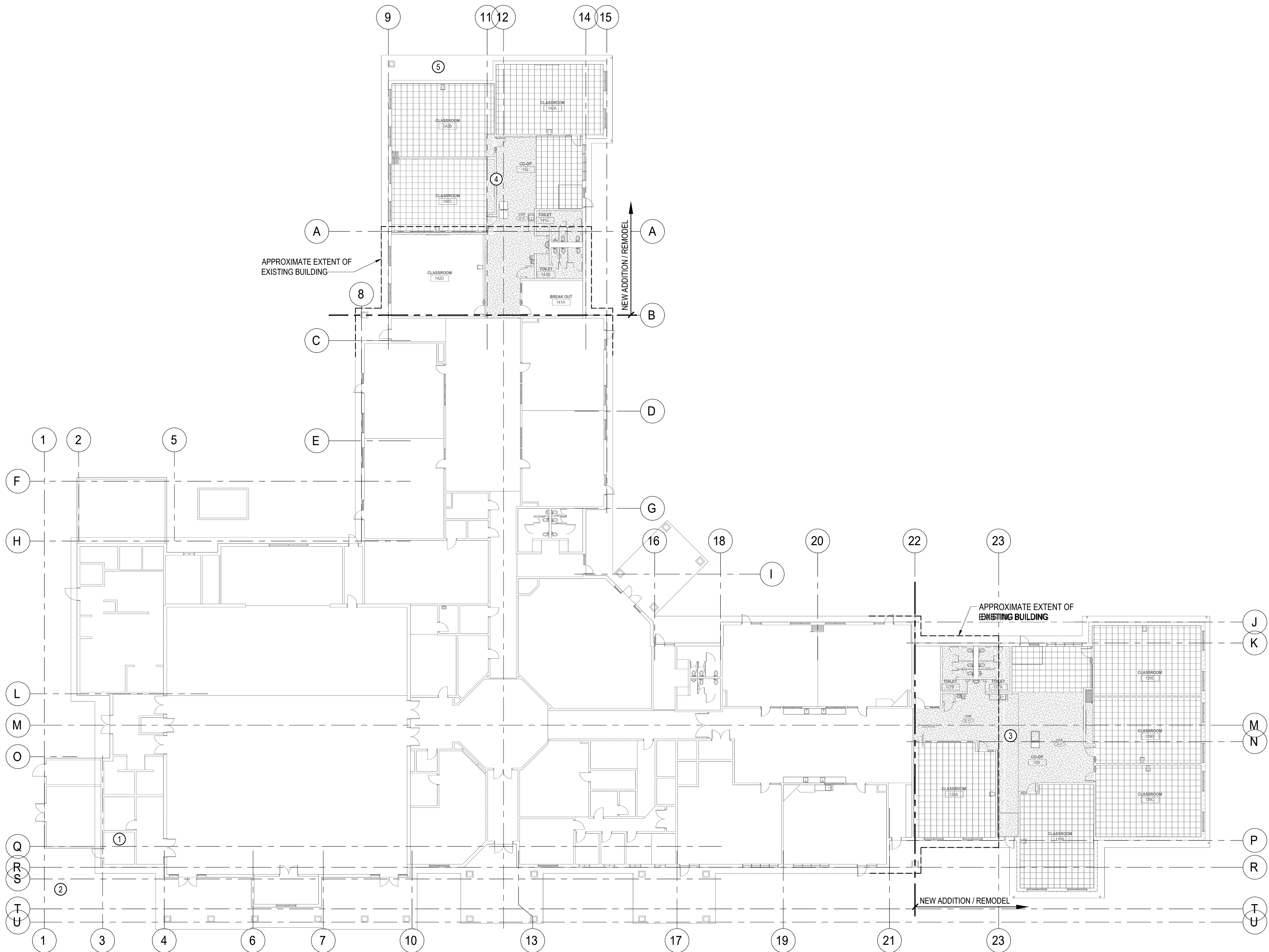
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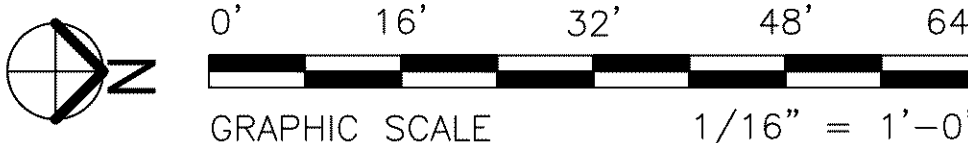
1 FIRE PROTECTION CONCEPT FLOOR PLAN 1/16" = 1'-0"

GENERAL NOTES

- THE FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR SHALL PROVIDE ALL THE FIRE SPRINKLER WORK TO MODIFY AND EXTEND THE EXISTING SPRINKLER SYSTEM(S) FOR PROTECTION THROUGHOUT THE NEW NORTH AND WEST ADDITIONS TO THE BUILDING, INCLUDING DESIGN, MATERIAL, FABRICATION, INSTALLATION LABOR, EQUIPMENT, PERMIT AND INSPECTIONS.
- THE FIRE SPRINKLER CONTRACTOR SHALL UTILIZE THE ORIGINAL FIRE PROTECTION AS-BUILT DRAWINGS (SEE SHEETS FX1.02 & FX1.03) AND SHALL SURVEY THE SITE CONDITIONS TO VERIFY THE EXTENT OF WORK REQUIRED TO DESIGN AND SUCCESSFULLY HYDRAULICALLY CALCULATE THE NEW WORK.
- THE FIRE SPRINKLER CONTRACTOR SHALL ALSO REFERENCE PROJECT SPECIFICATION SECTION 211315 "AUTOMATIC SPRINKLER SYSTEMS FOR IMPROVEMENTS / ADDITIONS."
- COORDINATE WITH ALL TRADES (INCLUDING MECHANICAL, ELECTRICAL, PLUMBING) TO AVOID CONFLICTS. OFFSET PIPING AS REQUIRED TO CLEAR ANY INTERFERENCES THAT MAY OCCUR. FAILURE TO COORDINATE WITH OTHER DISCIPLINES THAT RESULTS IN REMOVAL AND RE-INSTALLATION OF PIPING SHALL NOT BE CHARGED AS ADDITIONAL COST TO THE OWNER.
- NEW AND RELOCATED SPRINKLERS LOCATED IN ACOUSTIC CEILING TILES SHALL BE INSTALLED IN A CONSISTENT PATTERN, CENTERED BOTH DIRECTIONS WITHIN THE CEILING TILES (12" FROM A CEILING GRID), AND PLACED TO AVOID ALL LIGHTS AND HVAC GRILLES.
- NEW OR RELOCATED SPRINKLERS IN ACOUSTICAL CEILING TILES SHALL UTILIZE FLEXIBLE DROPS OR OVERSIZE ESCUTCHEON RINGS AND SEISMIC CLEARANCE PROVIDED AT THE TILE PENETRATION PER ASCE 7.
- ALL NEW FIRE PROTECTION SYSTEM COMPONENTS AND DEVICES SHALL BE DOMESTICALLY MANUFACTURED. IMPORTED COMPONENTS WILL NOT BE ALLOWED.
- ALL SPRINKLER BRANCH LINES SHALL BE VERTICALLY AND LATERALLY RESTRAINED AGAINST EXCESSIVE MOVEMENT PER NFPA #13.

CONSTRUCTION NOTES

- LOCATION OF EXISTING FIRE SPRINKLER RISER ROOM WITH ONE (1) 4" WET-PIPE SYSTEM RISER AND ONE (1) 4" DRY-PIPE SYSTEM RISER AND AIR COMPRESSOR.
- EXISTING FIRE SPRINKLER BACKFLOW PREVENTER AND F.D.C. ARE IN THE YARD, AND LOCATED NEAR THE SOUTHEAST CORNER OF THE BUILDING.
- EXTEND SPRINKLER SYSTEM THROUGHOUT NEW NORTH ADDITION OF THE SCHOOL INCLUDING ALL MECHANICAL AREAS AND ALL COMBUSTIBLE CONCEALED SPACES AS REQUIRED BY NFPA #13.
- EXTEND SPRINKLER SYSTEM THROUGH NEW WEST ADDITION OF THE SCHOOL INCLUDING ALL MECHANICAL AREAS AND ALL COMBUSTIBLE CONCEALED SPACES AS REQUIRED BY NFPA #13.
- REQUIREMENTS FOR PROTECTION WITHIN AND BELOW NEW ROOF OVERHANGS / BUILDING PROJECTIONS SHALL BE PER NFPA #13.



bassetti
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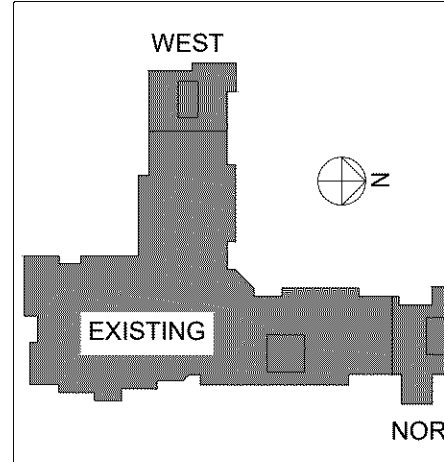
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ONE INCH
AT FULL SIZE



#	REVISIONS	DATE
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Vancouver School District
**FRANKLIN
ELEMENTARY
SCHOOL**

1698, 5206 NW Franklin St.
Vancouver, WA 98663

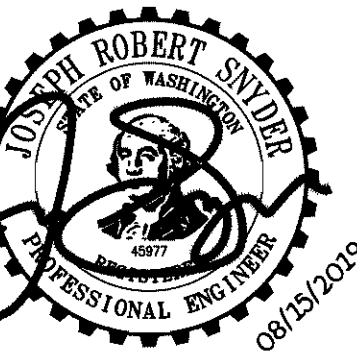
JOB NO: 1806
ISSUE DATE: 8/19/2019

Stamp Area

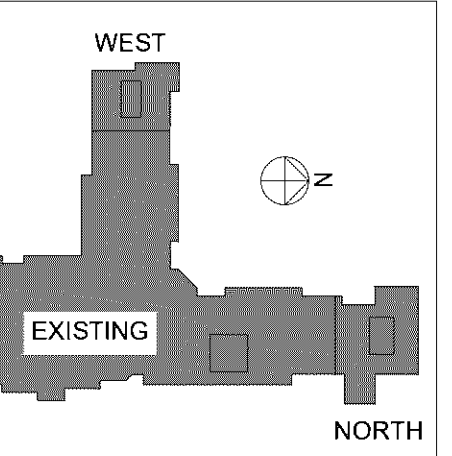
**FIRE
PROTECTION
CONCEPT
FLOOR PLAN**

FX1.01

BID SET



REVISIONS DATE



Vancouver School District
**FRANKLIN
ELEMENTARY
SCHOOL**

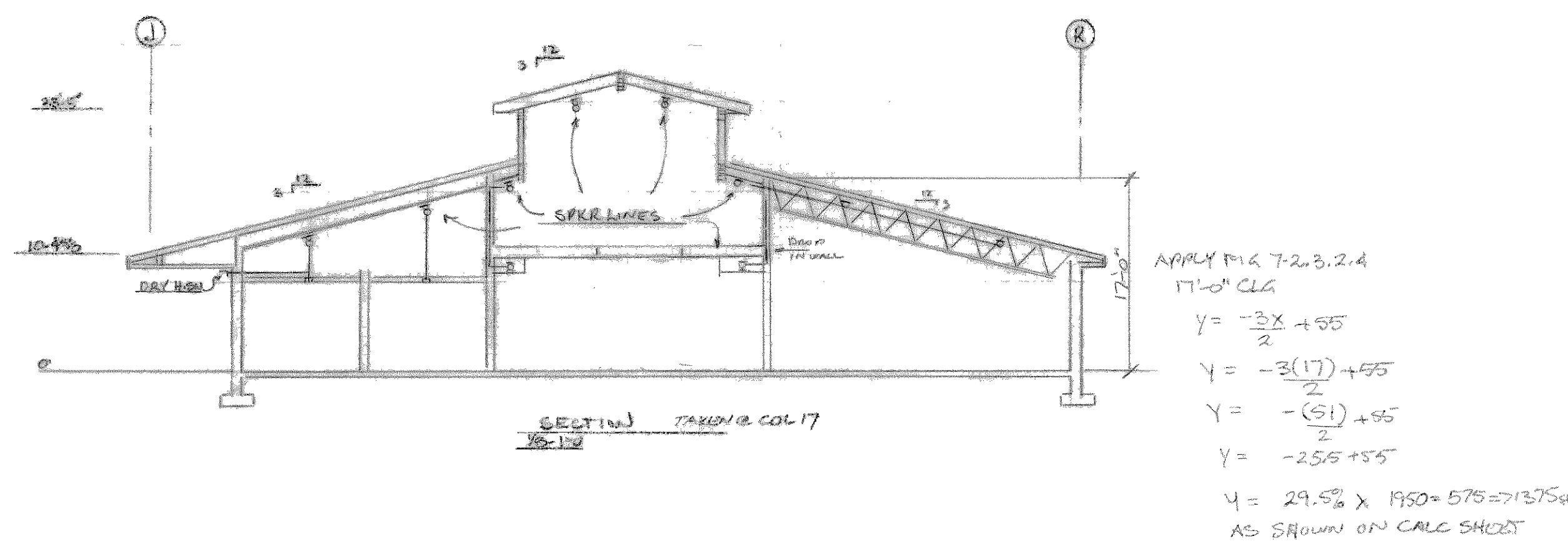
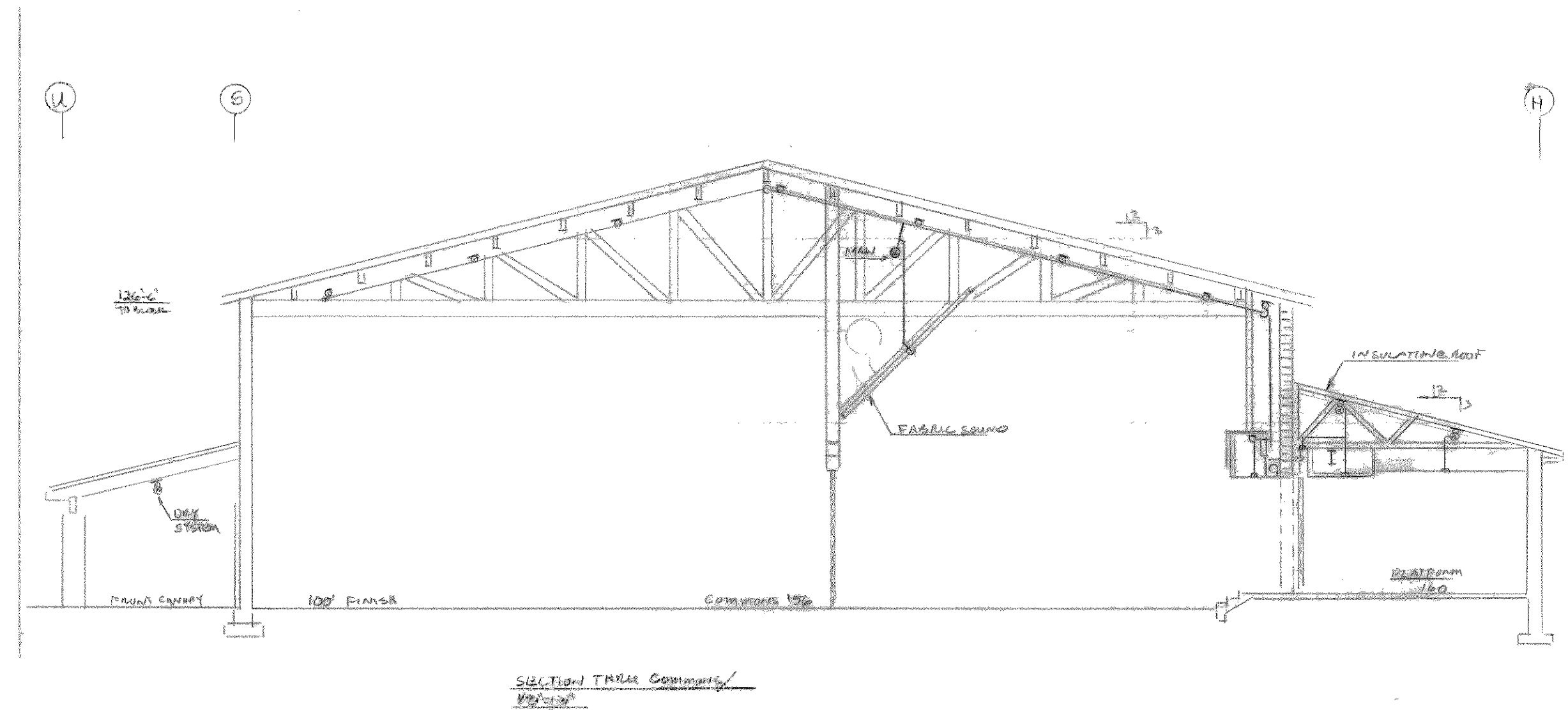
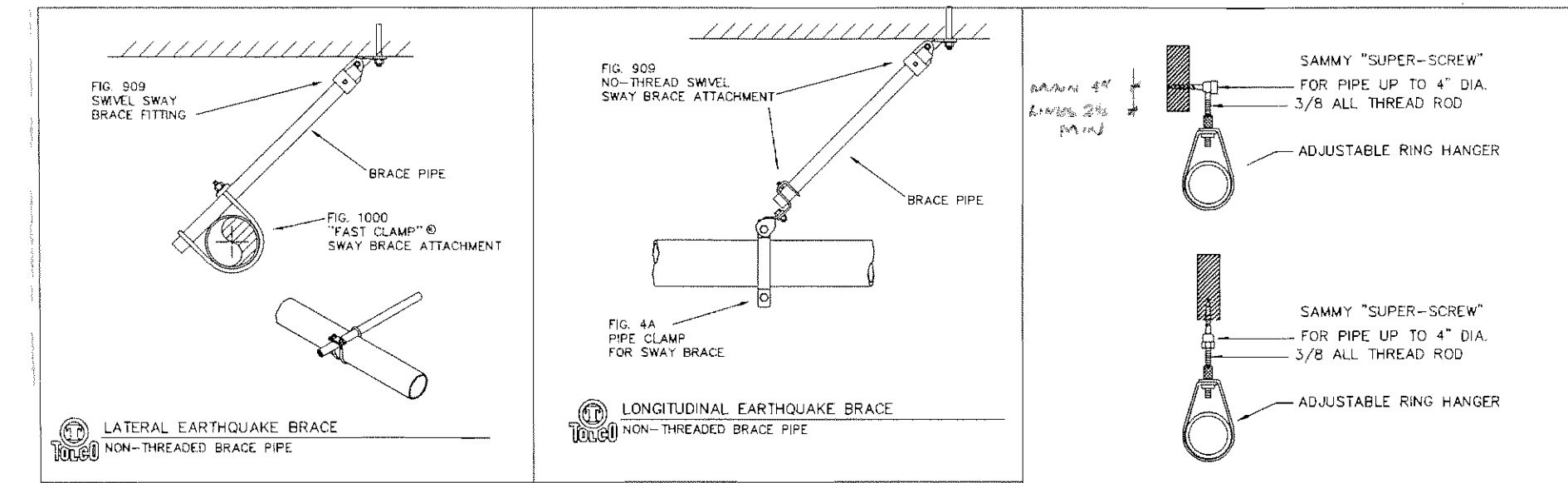
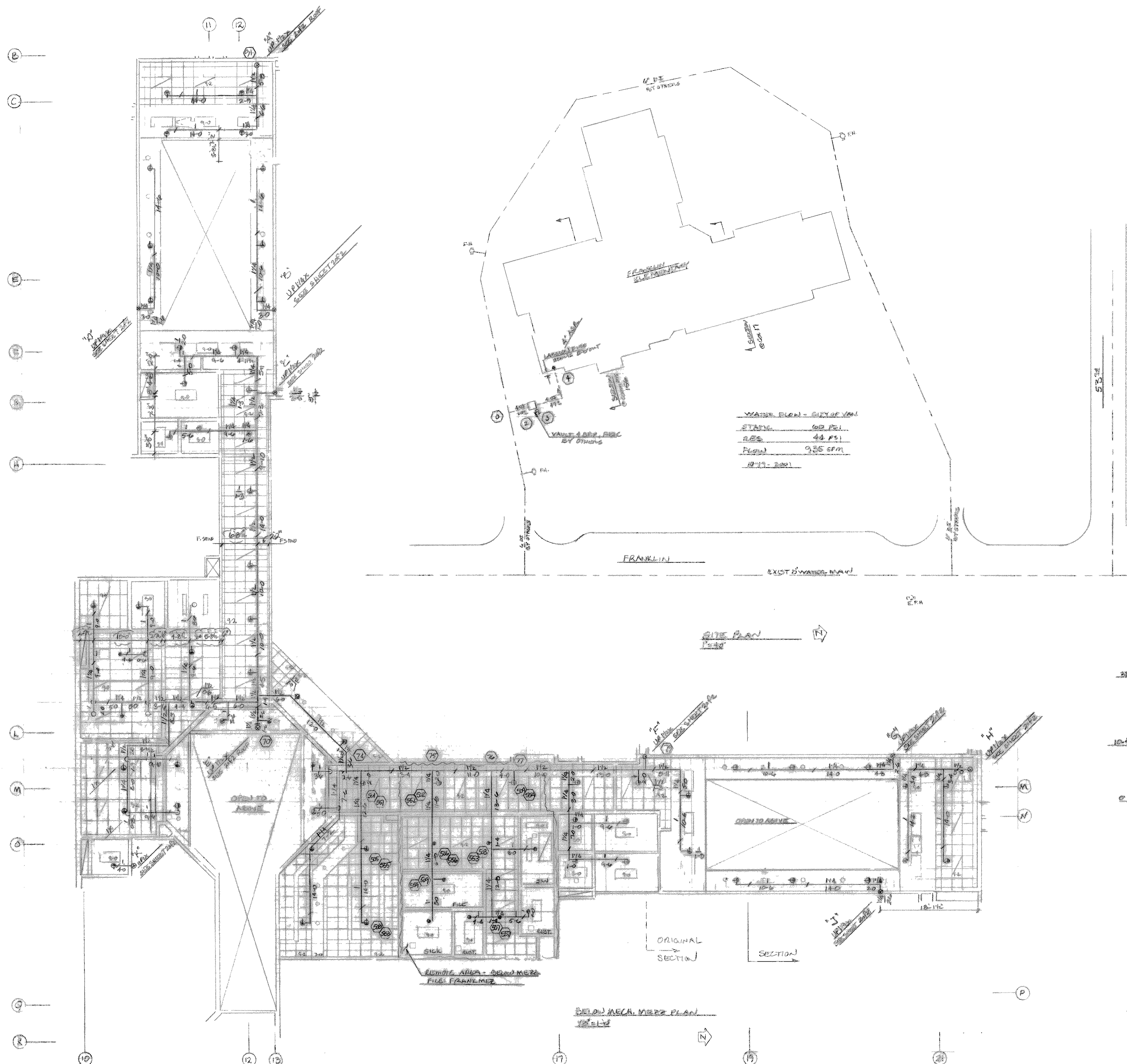
1698, 5206 NW Franklin St.
Vancouver, WA 98663

JOB NO: 1806
ISSUE DATE: 8/19/2019
Stamp Area

**FIRE
PROTECTION
REFERENCE
PLANS**

FX1.02

BID SET

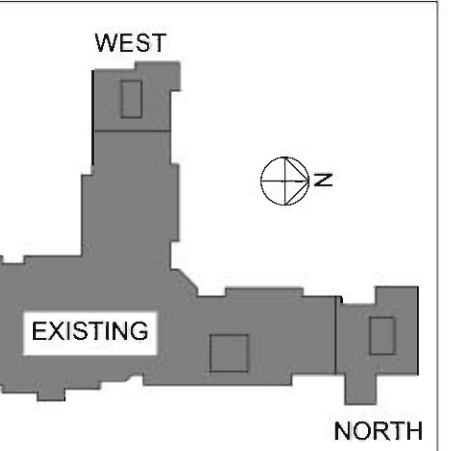


EXISTING BUILDING 2002-2003
FIRE SPRINKLER RECORD DRAWING -
FOR REFERENCE ONLY

SYN. MATERIALS	TYPE	MANUFACTURER	QTY	UNIT	PRICE	TOTAL
1.00	SPRINKLER	400	100	10.00	1000.00	1000.00
2.00	SPRINKLER	500	100	10.00	1000.00	1000.00
3.00	SPRINKLER	600	100	10.00	1000.00	1000.00
4.00	SPRINKLER	700	100	10.00	1000.00	1000.00
5.00	SPRINKLER	800	100	10.00	1000.00	1000.00
6.00	SPRINKLER	900	100	10.00	1000.00	1000.00
7.00	SPRINKLER	1000	100	10.00	1000.00	1000.00
8.00	SPRINKLER	1100	100	10.00	1000.00	1000.00
9.00	SPRINKLER	1200	100	10.00	1000.00	1000.00
10.00	SPRINKLER	1300	100	10.00	1000.00	1000.00
11.00	SPRINKLER	1400	100	10.00	1000.00	1000.00
12.00	SPRINKLER	1500	100	10.00	1000.00	1000.00
13.00	SPRINKLER	1600	100	10.00	1000.00	1000.00
14.00	SPRINKLER	1700	100	10.00	1000.00	1000.00
15.00	SPRINKLER	1800	100	10.00	1000.00	1000.00
16.00	SPRINKLER	1900	100	10.00	1000.00	1000.00
17.00	SPRINKLER	2000	100	10.00	1000.00	1000.00
18.00	SPRINKLER	2100	100	10.00	1000.00	1000.00
19.00	SPRINKLER	2200	100	10.00	1000.00	1000.00
20.00	SPRINKLER	2300	100	10.00	1000.00	1000.00
21.00	SPRINKLER	2400	100	10.00	1000.00	1000.00
22.00	SPRINKLER	2500	100	10.00	1000.00	1000.00
23.00	SPRINKLER	2600	100	10.00	1000.00	1000.00
24.00	SPRINKLER	2700	100	10.00	1000.00	1000.00
25.00	SPRINKLER	2800	100	10.00	1000.00	1000.00
26.00	SPRINKLER	2900	100	10.00	1000.00	1000.00
27.00	SPRINKLER	3000	100	10.00	1000.00	1000.00
28.00	SPRINKLER	3100	100	10.00	1000.00	1000.00
29.00	SPRINKLER	3200	100	10.00	1000.00	1000.00
30.00	SPRINKLER	3300	100	10.00	1000.00	1000.00
31.00	SPRINKLER	3400	100	10.00	1000.00	1000.00
32.00	SPRINKLER	3500	100	10.00	1000.00	1000.00
33.00	SPRINKLER	3600	100	10.00	1000.00	1000.00
34.00	SPRINKLER	3700	100	10.00	1000.00	1000.00
35.00	SPRINKLER	3800	100	10.00	1000.00	1000.00
36.00	SPRINKLER	3900	100	10.00	1000.00	1000.00
37.00	SPRINKLER	4000	100	10.00	1000.00	1000.00
38.00	SPRINKLER	4100	100	10.00	1000.00	1000.00
39.00	SPRINKLER	4200	100	10.00	1000.00	1000.00
40.00	SPRINKLER	4300	100	10.00	1000.00	1000.00
41.00	SPRINKLER	4400	100	10.00	1000.00	1000.00
42.00	SPRINKLER	4500	100	10.00	1000.00	1000.00
43.00	SPRINKLER	4600	100	10.00	1000.00	1000.00
44.00	SPRINKLER	4700	100	10.00	1000.00	1000.00
45.00	SPRINKLER	4800	100	10.00	1000.00	1000.00
46.00	SPRINKLER	4900	100	10.00	1000.00	1000.00
47.00	SPRINKLER	5000	100	10.00	1000.00	1000.00
48.00	SPRINKLER	5100	100	10.00	1000.00	1000.00
49.00	SPRINKLER	5200	100	10.00	1000.00	1000.00
50.00	SPRINKLER	5300	100	10.00	1000.00	1000.00
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60.00	SPRINKLER	6300	100	10.00	1000.00	1000.00
61.00	SPRINKLER	6400	100	10.00	1000.00	1000.00
62.00	SPRINKLER	6500	100	10.00	1000.00	1000.00
63.00	SPRINKLER	6600	100	10.00	1000.00	1000.00
64.00	SPRINKLER	6700	100	10.00	1000.00	1000.00
65.00	SPRINKLER	6800	100	10.00	1000.00	1000.00
66.00	SPRINKLER	6900	100	10.00	1000.00	1000.00
67.00	SPRINKLER	7000	100	10.00	1000.00	1000.00
68.00	SPRINKLER	7100	100	10.00	1000.00	1000.00
69.00	SPRINKLER	7200	100	10.00	1000.00	1000.00
70.00	SPRINKLER	7300	100	10.00	1000.00	1000.00
71.00	SPRINKLER	7400	100	10.00	1000.00	1000.00
72.00	SPRINKLER	7500	100	10.00	1000.00	1000.00
73.00	SPRINKLER	7600	100	10.00	1000.00	1000.00
74.00	SPRINKLER	7700	100	10.00	1000.00	1000.00
75.00	SPRINKLER	7800	100	10.00	1000.00	1000.00
76.00	SPRINKLER	7900	100	10.00	1000.00	1000.00
77.00	SPRINKLER	8000	100	10.00	1000.00	1000.00
78.00	SPRINKLER	8100	100	10.00	1000.00	1000.00
79.00	SPRINKLER	8200	100	10.00	1000.00	1000.00
80.00	SPRINKLER	8300	100	10.00	1000.00	1000.00
81.00	SPRINKLER	8400	100	10.00	1000.00	1000.00
82.00	SPRINKLER	8500	100	10.00	1000.00	1000.00
83.00	SPRINKLER	8600	100	10.00	1000.00	1000.00
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87.00	SPRINKLER	9000	100	10.00	1000.00	1000.00
88.00	SPRINKLER	9100	100	10.00	1000.00	1000.00
89.00	SPRINKLER	9200	100	10.00	1000.00	1000.00
90.00	SPRINKLER	9300	100	10.00	1000.00	1000.00
91.00	SPRINKLER	9400	100	10.00	1000.00	1000.00
92.00	SPRINKLER	9500	100	10.00	1000.00	1000.00
93.00	SPRINKLER	9600	100	10.00	1000.00	1000.00
94.00	SPRINKLER	9700	100	10.00	1000.00	1000.00
95.00	SPRINKLER	9800	100	10.00	1000.00	1000.00
96.00	SPRINKLER	9900	100	10.00	1000.00	1000.00
97.00	SPRINKLER	10000	100	10.00	1000.00	1000.00
98.00	SPRINKLER	10100	100	10.00	1000.00	1000.00
99.00	SPRINKLER	10200	100	10.00	1000.00	1000.00
100.00	SPRINKLER	10300	100	10.00	1000.00	1000.00
101.00	SPRINKLER	10400	100	10.00	1000.00	1000.00
102.00	SPRINKLER	10500	100	10.00	1000.00	1000.00
103.00	SPRINKLER	10600	100	10.00	1000.00	1000.00
104.00	SPRINKLER	10700	100	10.00	1000.00	1000.00
105.00	SPRINKLER	10800	100	10.00	1000.00	1000.00
106.00	SPRINKLER	10900	100	10.00	1000.00	1000.00
107.00	SPRINKLER	11000	100	10.00	1000.00	1000.00
108.00	SPRINKLER	11100	100	10.00	1000.00	1000.00
109.00	SPRINKLER	11200	100	10.00	1000.00	1000.00
110.00	SPRINKLER	11300	100	10.00	1000.00	1000.00
111.00	SPRINKLER	11400	100	10.00	1000.00	1000.00
112.00	SPRINKLER	11500	100	10.00	1000.00	1000.00
113.00	SPRINKLER	11600	100	10.00	1000.00	1000.00
114.00	SPRINKLER	11700	100	10.00	1000.00	1000.00
115.00	SPRINKLER	11800	100	10.00	1000.00	1000.00
116.00	SPRINKLER	11900	100	10.00	1000.00	1000.00
117.00	SPRINKLER	12000	100	10.00	1000.00	1000.00
118.00	SPRINKLER	12100	100	10.00	1000.00	1000.00
119.00	SPRINKLER	12200	100	10.00	1000.00	1000.00
120.00	SPRINKLER	12300	100	10.00	1000.00	1000.00
121.00	SPRINKLER	12400	100	10.00	1000.00	1000.00
122.00	SPRINKLER	12500	100	10.00	1000.00	1000.00
123.00	SPRINKLER	12600	100	10.00	1000.00	1000.00
124.00	SPRINKLER	12700	100	10.00	1000.00	1000.00
125.00	SPRINKLER	12800	100	10.00	1000.00	1000.00
126.00	SPRINKLER	12900	100	10.00	1000.00	1000.00
127.00	SPRINKLER	13000	100	10.00	1000.00	1000.00
128.00	SPRINKLER	13100	100	10.00	1000.00	1000.00
129.00	SPRINKLER	13200	100	10.00	1000.00	1000.00
130.00	SPRINKLER	13300	100	10.00	1000.00	1000.00
131.00	SPRINKLER	13400	100	10.00	1000.00	1000.00
132.00	SPRINKLER	13500	100	10.00	1000.00	1000.00
133.00	SPRINKLER	13600	100	10.00	1000.00	1000.00
134.00	SPRINKLER	13700	100	10.00	1000.00	1000.00
135.00	SPRINKLER	13800	100	10.00	1000.00	1000.00
136.00	SPRINKLER	13900	100	10.00	1000.00	1000.00
137.00	SPRINKLER	14000	100	10.00	1000.00	1000.00
138.00	SPRINKLER	14100	100	10.00	1000.00	1000.00
139.00	SPRINKLER	14200	100	10.00	1000.00	1000.00
140.00	SPRINKLER	14300	100	10.00	1000.00	1000.00



REVISIONS DATE



Vancouver School District
**FRANKLIN
ELEMENTARY
SCHOOL**

1698, 5206 NW Franklin St.
Vancouver, WA 98663

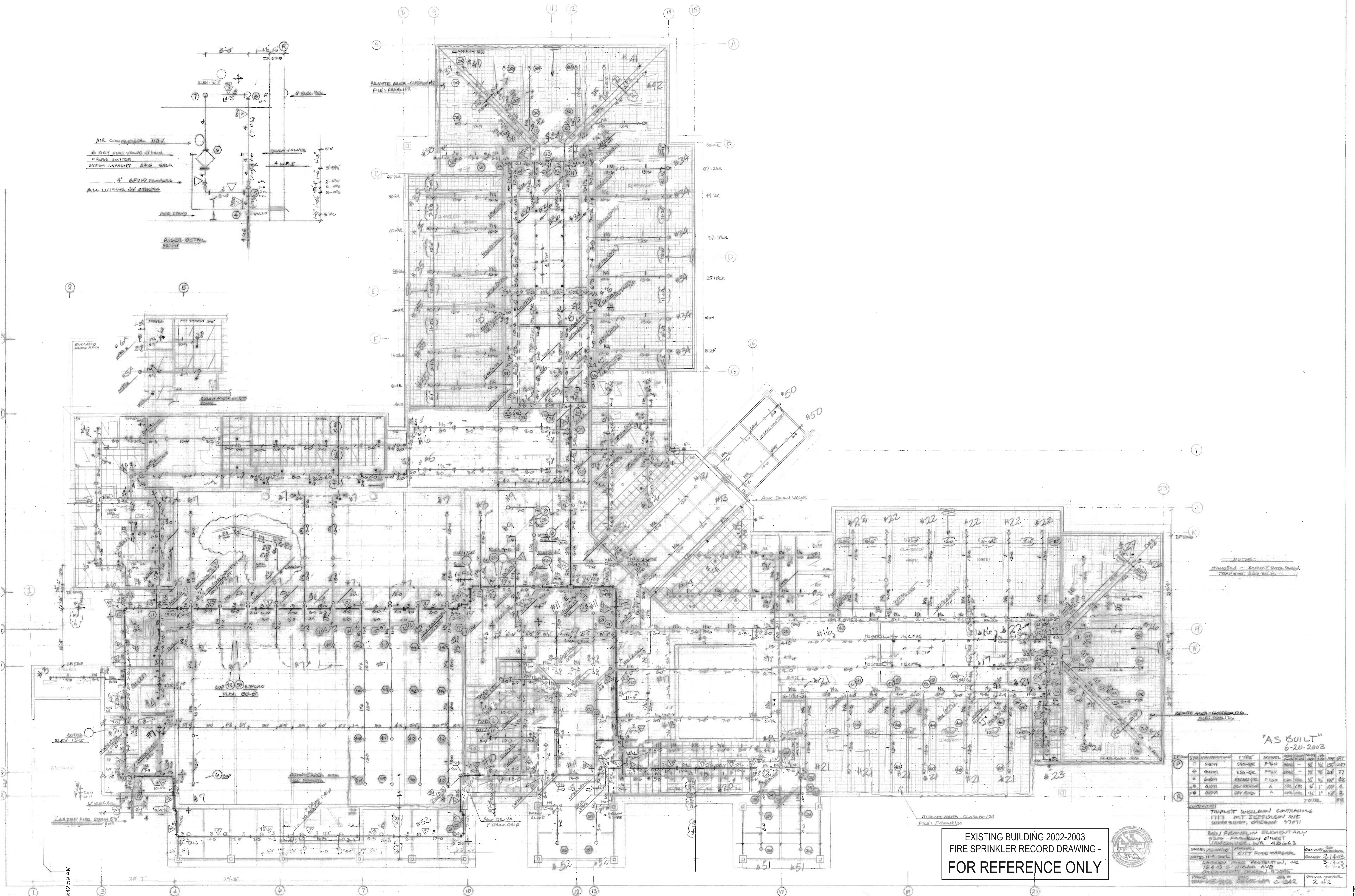
JOB NO: 1806
ISSUE DATE: 8/19/2019

Stamp Area

**FIRE
PROTECTION
REFERENCE
PLANS**

FX1.03

BID SET



2/12/2019 9:42:59 AM

1 ORIGINAL 2006 FIRE SPRINKLER INSTALLATION DRAWINGS (SHEET 2 OF 2)
PLAN VIEW: 3/32" = 1'-0"