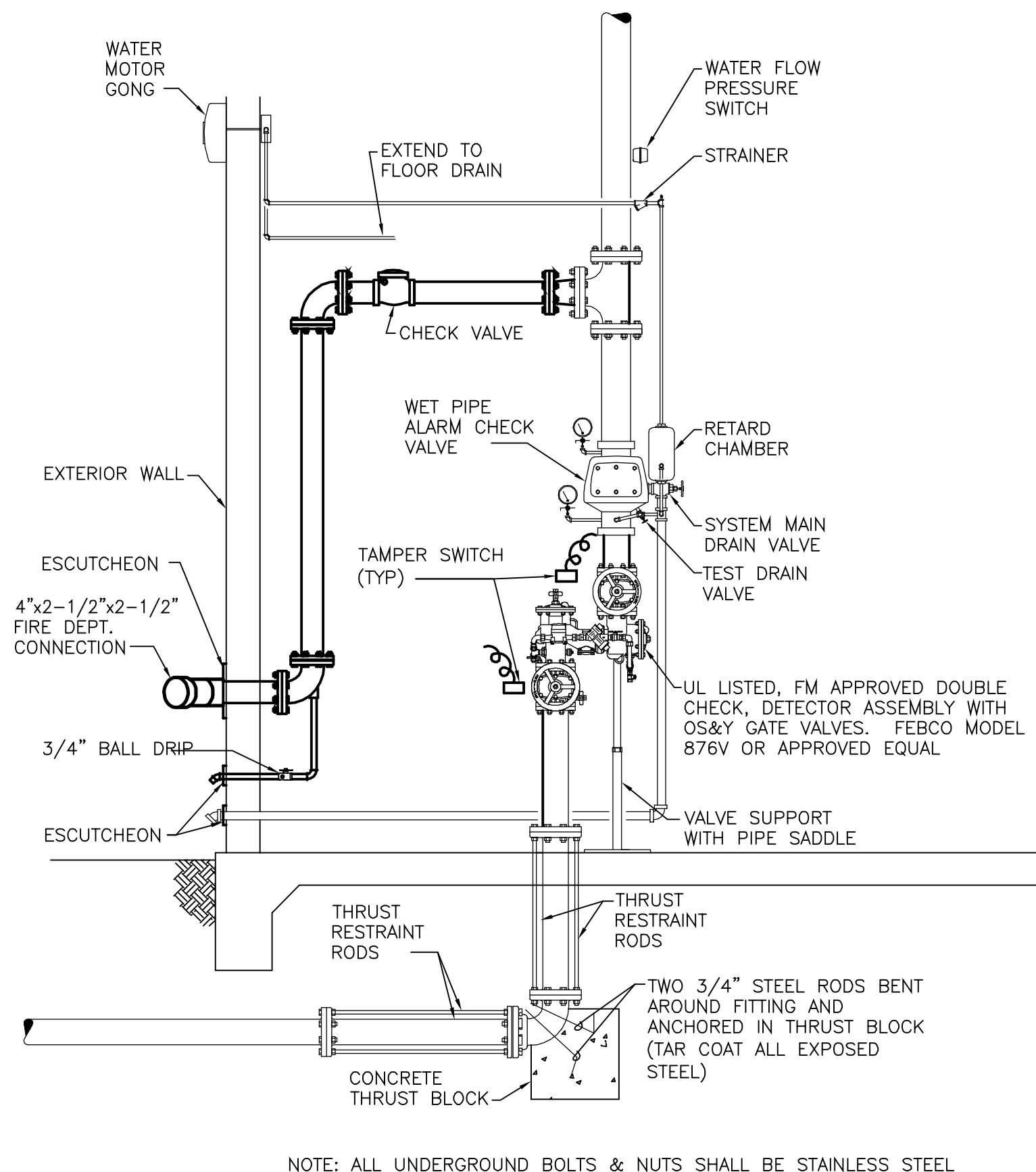


Drawing Title: FIRE PROTECTION NOTES & LEGENDS	
Project No. 2403	Date: 08/05/2024
	Sheet No. FPO.1

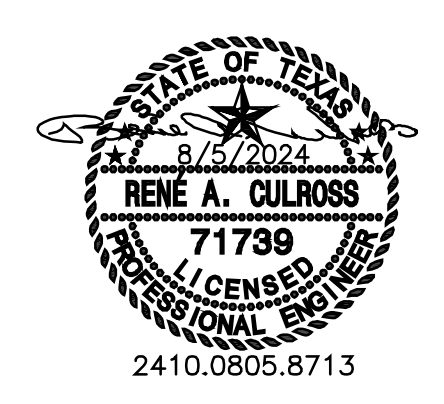
FIRE SPRINKLER SYMBOLS AND ABBREVIATIONS

NOTE: ALL SYMBOLS AND ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS

FIRE PROTECTION GENERAL NOTES	ABBREVIATIONS	VALVES AND FITTINGS	GENERAL NOTES																																																																																																																																																																																																										
<ol style="list-style-type: none"> PROVIDE A COMPLETE AND OPERABLE WET PIPE FIRE SUPPRESSION SYSTEM FOR CONDITIONED SPACES INSIDE THE BUILDING AND A DRY PIPE SYSTEM FOR AREAS SUBJECT TO FREEZING TEMPERATURES INSIDE OR ATTACHED TO THE BUILDING, CONFORMING TO NFPA 13/13R, LOCAL CODES AND ORDINANCES AND THE AUTHORITY HAVING JURISDICTION. THE FIRE SUPPRESSION SYSTEM SHALL CONFORM TO ALL APPLICABLE NFPA CODES IN ADDITION TO THE FOLLOWING: <ol style="list-style-type: none"> VELOCITIES IN MAINS SHALL NOT EXCEED 15 FEET PER SECOND. VELOCITIES IN BRANCHES AND BRANCH MAINS SHALL NOT EXCEED 20 FEET PER SECOND. HYDRAULIC CALCULATIONS SHALL SHOW THE ELEVATIONS OF INDIVIDUAL HEADS AND REFERENCE POINTS (NODES). HYDRAULIC CALCULATIONS SHALL DESCRIBE EACH INDIVIDUAL HEAD IN THE ZONE BEING CALCULATED. HYDRAULIC CALCULATIONS USING "K" FACTORS TO DESCRIBE WHOLE BRANCH LINES ARE NOT ACCEPTABLE. SUBMITTALS SHALL BE COMPLETE AND INCLUDE: HYDRAULIC CALCULATIONS, SHOP DRAWINGS AND MATERIAL SUBMITTAL. SUBMITTALS NOT CONFORMING TO THE ABOVE WILL BE REJECTED WITH NO COMMENT. FIRE SUPPRESSION SYSTEM PIPING 2-INCHES AND SMALLER SHALL BE STEEL CONSTRUCTION, SCHEDULE 10 WITH ROLLED GROOVE COUPLERS. FIRE SUPPRESSION SYSTEM PIPING 2.5-INCHES AND LARGER SHALL BE STEEL CONSTRUCTION, SCHEDULE 40 WITH THREADED ENDS OR MECHANICAL COUPLERS. WELDED OUTLETS MAY BE USED IF THE OUTLET IS A MINIMUM OF TWO PIPE SIZES SMALLER THAN THE PIPING THE OUTLET IS ATTACHED TO. POWDER DRIVEN STUDS (SHOT STUDS) ARE NOT ALLOWED AS HANGER ANCHORS. PROVIDE SPRINKLER HEAD GUARDS IN ALL AREAS SUBJECT TO POSSIBLE DAMAGE AS REQUIRED BY CODE. IN ROOMS WITH NO CEILINGS THAT ARE EXPOSED TO THE PUBLIC, PROVIDE BRASS UPRIGHT SPRINKLER HEADS AND PAINT THE EXPOSED PIPE RED. THE FIRE DEPARTMENT CONNECTION AND TRIM SHALL HAVE A NICKEL FINISH UNLESS ANOTHER COLOR/MATERIAL IS REQUIRED BY CODE. COORDINATE ALL SPRINKLER DROPS FOR HEAD LOCATION WITH LIGHTS, CEILING GRIDS, STRUCTURAL STEEL, DUCTWORK AND EQUIPMENT LOCATIONS. INSTALL ALL SPRINKLER HEADS CENTERED IN TILES OF LAY-IN OR GRID-TYPE CEILINGS. FIRE PROTECTION CONTRACTOR TO SECURE AND VERIFY ALL MEASUREMENTS AND CONDITIONS AT JOB BEFORE PROCEEDING WITH FABRICATION OF WORK. FIRE PROTECTION CONTRACTOR TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQUIRED FOR COORDINATION AND APPROVED INSTALLATION. ALL VALVES CAPABLE OF INTERRUPTING FIRE PROTECTION SYSTEM FLOWS SHALL BE PROVIDED WITH A TAMPER SWITCH OR CHAIN WITH PADLOCK AS REQUIRED. ALL FIRE PROTECTION PIPING IN FINISHED AREAS SHALL BE CONCEALED. SEAL ALL PIPE PENETRATIONS THROUGH FIRE RATED BUILDING ELEMENTS WITH AN APPROVED FIRE PROOFING MATERIAL. PROVIDE FIRE-STOPPING AT ALL PENETRATIONS OF FIRE AND/OR SMOKE RATED FLOORS, WALLS AND PARTITIONS. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATIONS OF ALL RATED STRUCTURES. FLOW TEST AND HYDRAULIC CALCULATIONS SHALL BE PERFORMED. SUBMIT SPRINKLER DRAWINGS, CALCULATIONS AND ADDITIONAL INFORMATION AS REQUIRED BY THE LOCAL AUTHORITY OR INSURANCE UNDERWRITER. 	<table border="1"> <tr> <th colspan="2">ABBREVIATIONS</th> </tr> <tr> <td>A/E</td> <td>ARCHITECT/ENGINEER</td> </tr> <tr> <td>AFF</td> <td>ABOVE FINISHED FLOOR</td> </tr> <tr> <td>AHU</td> <td>AIR HANDLING UNIT</td> </tr> <tr> <td>APPROX</td> <td>APPROXIMATE</td> </tr> <tr> <td>BD</td> <td>BUILDING DRAIN (BELOW FLOOR)</td> </tr> <tr> <td>B.F.G.</td> <td>BELOW FINISHED GRADE</td> </tr> <tr> <td>BS</td> <td>BUILDING SEWER (OUTSIDE OF BLDG)</td> </tr> <tr> <td>CU</td> <td>COPPER, CONDENSING UNIT</td> </tr> <tr> <td>CW</td> <td>DOMESTIC COLD WATER</td> </tr> <tr> <td>D</td> <td>EQUIPMENT DRAIN</td> </tr> <tr> <td>DCO</td> <td>TWO-WAY GRADE CLEANOUT</td> </tr> <tr> <td>DEG</td> <td>DEGREES</td> </tr> <tr> <td>DSN</td> <td>DOWNSPOUT NOZZLE</td> </tr> <tr> <td>(E)</td> <td>EXISTING</td> </tr> <tr> <td>EQUIP</td> <td>EQUIPMENT</td> </tr> <tr> <td>EW</td> <td>ELECTRIC WATER COOLER</td> </tr> <tr> <td>F</td> <td>DEGREES FAHRENHEIT</td> </tr> <tr> <td>FCO</td> <td>FLOOR CLEANOUT</td> </tr> <tr> <td>FCU</td> <td>FAN COIL UNIT</td> </tr> <tr> <td>FD</td> <td>FLOOR DRAIN</td> </tr> <tr> <td>FS</td> <td>FLOOR SINK</td> </tr> <tr> <td>FT.</td> <td>FOOT, FEET</td> </tr> <tr> <td>FVC</td> <td>FIRE VALVE CABINET</td> </tr> <tr> <td>G</td> <td>NATURAL GAS</td> </tr> <tr> <td>GCO</td> <td>GRADE CLEANOUT</td> </tr> <tr> <td>GWH</td> <td>NATURAL GAS WATER HEATER</td> </tr> <tr> <td>H</td> <td>HEIGHT</td> </tr> <tr> <td>HB</td> <td>HOSE BIBB</td> </tr> <tr> <td>HP</td> <td>HORSEPOWER</td> </tr> <tr> <td>HW</td> <td>DOMESTIC HOT WATER</td> </tr> <tr> <td>HWC</td> <td>DOMESTIC HOT WATER CIRCULATION LOOP</td> </tr> <tr> <td>HWTM</td> <td>HOT WATER TEMPERATURE MAINTENANCE CABLE</td> </tr> <tr> <td>HZ</td> <td>HERTZ</td> </tr> <tr> <td>IE</td> <td>INVERT ELEVATION</td> </tr> <tr> <td>IN.</td> <td>INCH, INCHES</td> </tr> <tr> <td>J-BOX</td> <td>JUNCTION BOX</td> </tr> <tr> <td>KW</td> <td>KILOWATT</td> </tr> <tr> <td>L</td> <td>LENGTH</td> </tr> <tr> <td>LB</td> <td>POUNDS</td> </tr> <tr> <td>LRA</td> <td>LOCKED ROTOR AMPS</td> </tr> <tr> <td>MAX</td> <td>MAXIMUM</td> </tr> <tr> <td>MCA</td> <td>MINIMUM CIRCUIT AMPACITY</td> </tr> <tr> <td>MIN</td> <td>MINIMUM</td> </tr> <tr> <td>MSB</td> <td>MOP SINK BASIN</td> </tr> <tr> <td>N/A</td> <td>NOT APPLICABLE</td> </tr> <tr> <td>NFPA</td> <td>NATIONAL FIRE PROTECTION ASSOCIATION</td> </tr> <tr> <td>NFZH</td> <td>NON-FREEZE WALL HYDRANT</td> </tr> <tr> <td>N/O,N/C</td> <td>NORMALLY OPEN, NORMALLY CLOSED</td> </tr> <tr> <td>O/C</td> <td>ON CENTER</td> </tr> <tr> <td>OFD</td> <td>ROOF OVERFLOW DRAIN</td> </tr> <tr> <td>PCO</td> <td>PLUG CLEANOUT</td> </tr> <tr> <td>PH</td> <td>PHASE</td> </tr> <tr> <td>PROVIDE</td> <td>FURNISH AND INSTALL</td> </tr> <tr> <td>PSI</td> <td>POUNDS PER SQUARE INCH</td> </tr> <tr> <td>RD</td> <td>ROOF DRAIN</td> </tr> <tr> <td>RE</td> <td>REFERENCE, REFER</td> </tr> <tr> <td>RLA</td> <td>RUNNING LOAD AMPS</td> </tr> <tr> <td>RM</td> <td>ROOM</td> </tr> <tr> <td>RPBFP</td> <td>REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER</td> </tr> <tr> <td>S</td> <td>SINK</td> </tr> <tr> <td>SD</td> <td>STORM DRAIN (BELOW FLOOR)</td> </tr> <tr> <td>ST</td> <td>STORM WATER (ABOVE CEILING)</td> </tr> <tr> <td>SSD</td> <td>SUBSURFACE DRAIN</td> </tr> <tr> <td>THRU</td> <td>THROUGH</td> </tr> <tr> <td>TP</td> <td>TRAP PRIMER</td> </tr> <tr> <td>TYP</td> <td>TYPICAL</td> </tr> <tr> <td>U</td> <td>URINAL</td> </tr> <tr> <td>UL</td> <td>UNDERWRITERS LABORATORIES, INC.</td> </tr> <tr> <td>V</td> <td>SANITARY VENT</td> </tr> <tr> <td>VTR</td> <td>SANITARY VENT THRU ROOF</td> </tr> <tr> <td>W</td> <td>SANITARY WASTE (ABOVE FLOOR)</td> </tr> <tr> <td>WC</td> <td>WATER CLOSET</td> </tr> <tr> <td>WCO</td> <td>WALL CLEANOUT</td> </tr> <tr> <td>W/</td> <td>WITH</td> </tr> <tr> <td>W/O</td> <td>WITHOUT</td> </tr> </table>	ABBREVIATIONS		A/E	ARCHITECT/ENGINEER	AFF	ABOVE FINISHED FLOOR	AHU	AIR HANDLING UNIT	APPROX	APPROXIMATE	BD	BUILDING DRAIN (BELOW FLOOR)	B.F.G.	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PROVIDE ALL PERMITS, INSPECTIONS, LICENSES AND FEES. FURNISH ALL LABOR, EQUIPMENT, SUPPLIES AND MATERIALS NECESSARY TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS. THE DRAWINGS AND SPECIFICATIONS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF PIPES, FIXTURES, EQUIPMENT, SYSTEMS, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DO NOT SCALE THE DRAWINGS FOR DIMENSIONS. TAKE ALL DIMENSIONS, MEASUREMENTS, EQUIPMENT LOCATIONS, LEVELS, ETC FROM THE ARCHITECTURAL DRAWINGS AND FROM THE EQUIPMENT TO BE FURNISHED. PIPING MAY BE RELOCATED OR OFFSET FOR PROPER CLEARANCES OR TO AVOID CONFLICTS WITH OTHER TRADES. THE DESIGN INTENT (I.E. PITCHES, VELOCITIES, PRESSURE DROPS, VOLTAGE DROPS, ETC) CANNOT BE GREATLY ALTERED WITHOUT THE APPROVAL OF THE ARCHITECT. THE COST OF THESE DEVIATIONS TO AVOID INTERFERENCE'S SHALL BE PART OF THE ORIGINAL CONTRACT BID. EACH SUBCONTRACTOR SHALL CONFER AND COOPERATE WITH ALL OTHER TRADES TO COORDINATE THEIR WORK. COORDINATION SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO MATERIALS AND EQUIPMENT ROUTED IN CEILING AND WALL CAVITIES, EQUIPMENT ARRANGEMENT IN MECHANICAL SPACES, INCLUDING EQUIPMENT CLEARANCE REQUIREMENTS, ELEVATIONS AND DIMENSIONS OF STRUCTURAL MEMBERS AND OPENINGS, ETC. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS. BASE FINAL INSTALLATION OF MATERIALS AND EQUIPMENT ON ACTUAL DIMENSIONS AND CONDITIONS AT THE PROJECT SITE. FIELD MEASURE FOR MATERIALS AND EQUIPMENT REQUIRING EXACT FIT. NO EXTRAS WILL BE GIVEN FOR THE CONTRACTOR'S FAILURE TO FIELD COORDINATE. THE OWNER OR ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR FOR MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM THE WORK. THE CONTRACTOR SHALL LOCATE ALL EQUIPMENT THAT MUST BE SERVICED, OPERATED, OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS. EQUIPMENT SHALL INCLUDE (BUT NOT LIMITED TO) VALVES, MOTORS, CONTROLLERS, SWITCHGEAR, AND DRAIN POINTS IF REQUIRED FOR BETTER ACCESSIBILITY. FURNISH ACCESS DOORS FOR THIS PURPOSE. MINOR DEVIATIONS FROM THE DRAWINGS MAY BE ALLOWED TO PROVIDE FOR BETTER ACCESSIBILITY. ANY CHANGES SHALL BE APPROVED BY THE ARCHITECT AND CONSTRUCTION MANAGER/GENERAL CONTRACTOR PRIOR TO MAKING THE CHANGE. THE CONTRACTOR SHALL PROVIDE ACCESS DOORS, WALL OPENINGS, ROOF OPENINGS OR ANY OTHER CONSTRUCTION REQUIREMENT NEEDED TO ACCOMMODATE THE FIRE SPRINKLER EQUIPMENT. LOCATIONS OF THESE OPENINGS SHALL BE SUBMITTED IN SUFFICIENT TIME TO BE INSTALLED IN THE NORMAL COURSE OF WORK. THE CONTRACTOR SHALL COORDINATE ELECTRICAL REQUIREMENTS OF FIRE SPRINKLER EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO THE PURCHASE AND INSTALLATION OF ANY ELECTRICAL GEAR OR CONDUIT. PROVIDE VIBRATION ISOLATORS FOR MOTOR DRIVEN FIRE SPRINKLER EQUIPMENT UNLESS NOTED OTHERWISE. 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NOTE: ALL UNDERGROUND BOLTS & NUTS SHALL BE STAINLESS STEEL
1 WET PIPE FIRE RISER AND TRIM
 SCALE: NO SCALE



MEP Consultant
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 raculross@gmail.com
 F-12230

SAINT TERESA
OF CALCUTTA
CATHOLIC
CHURCH

PARISH
HALL

13517 ALTA VISTA ROAD
FORT WORTH, TX 76262

CONSTRUCTION
DOCUMENTS

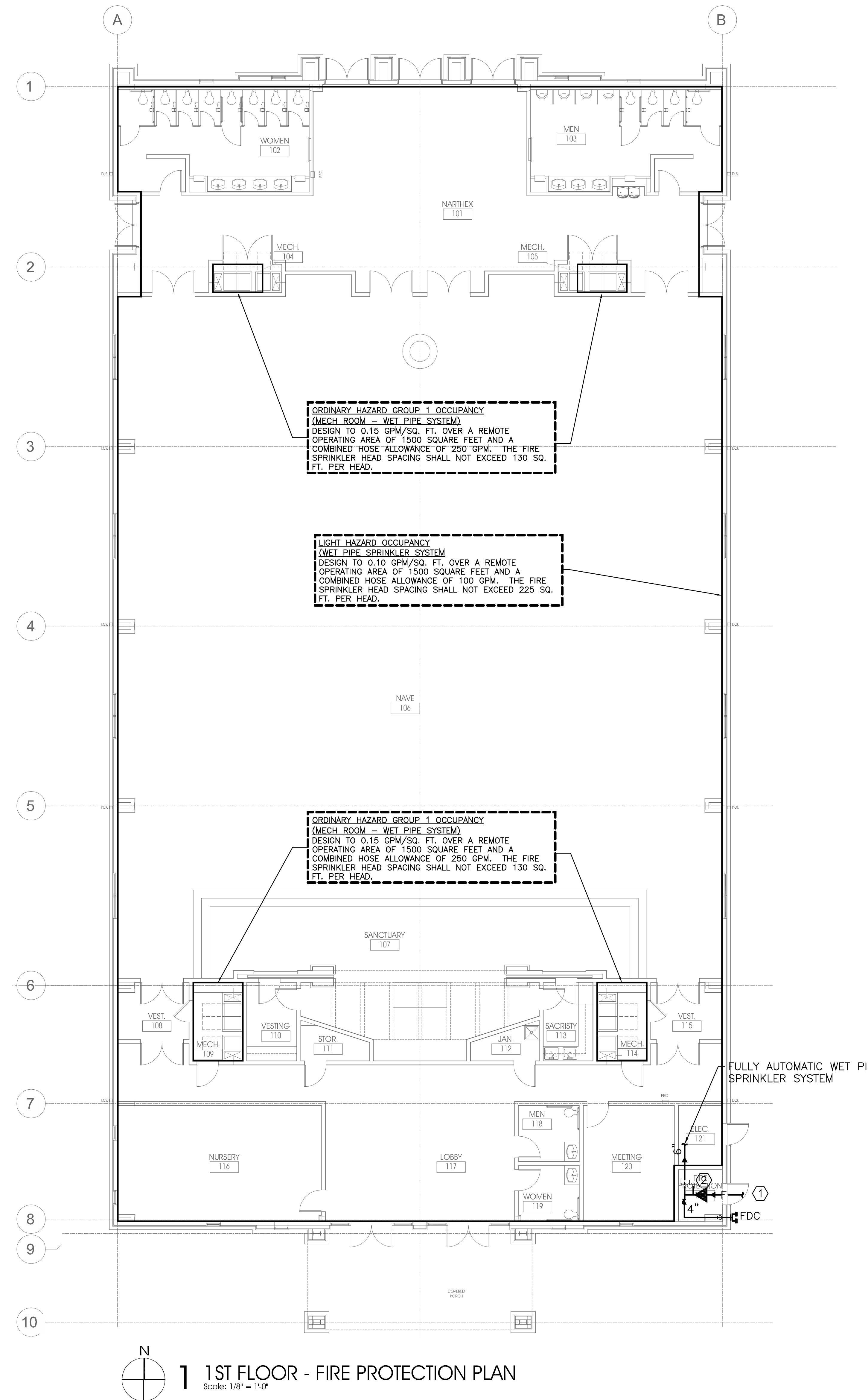
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1ST FLOOR
FIRE PROTECTION PLAN

Project No. 2403 Date: 08/05/2024

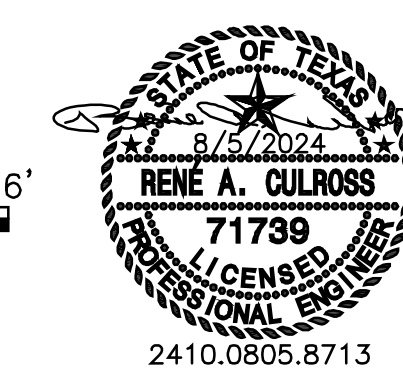
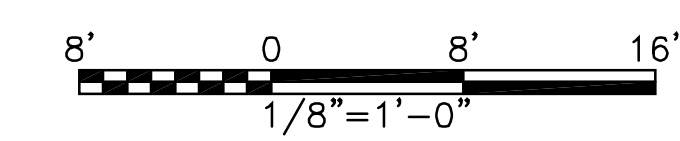
Sheet No.
FP1.1

GENERAL NOTES THIS SHEET

- REFER TO FPO.1 FOR ADDITIONAL INSTRUCTIONS.
- COVERED PORCHES ARE TO BE PROTECT WITH DRY HEADS FROM THE WET PIPE SPRINKLER SYSTEM.



1 1ST FLOOR - FIRE PROTECTION PLAN
Scale: 1/8" = 1'-0"



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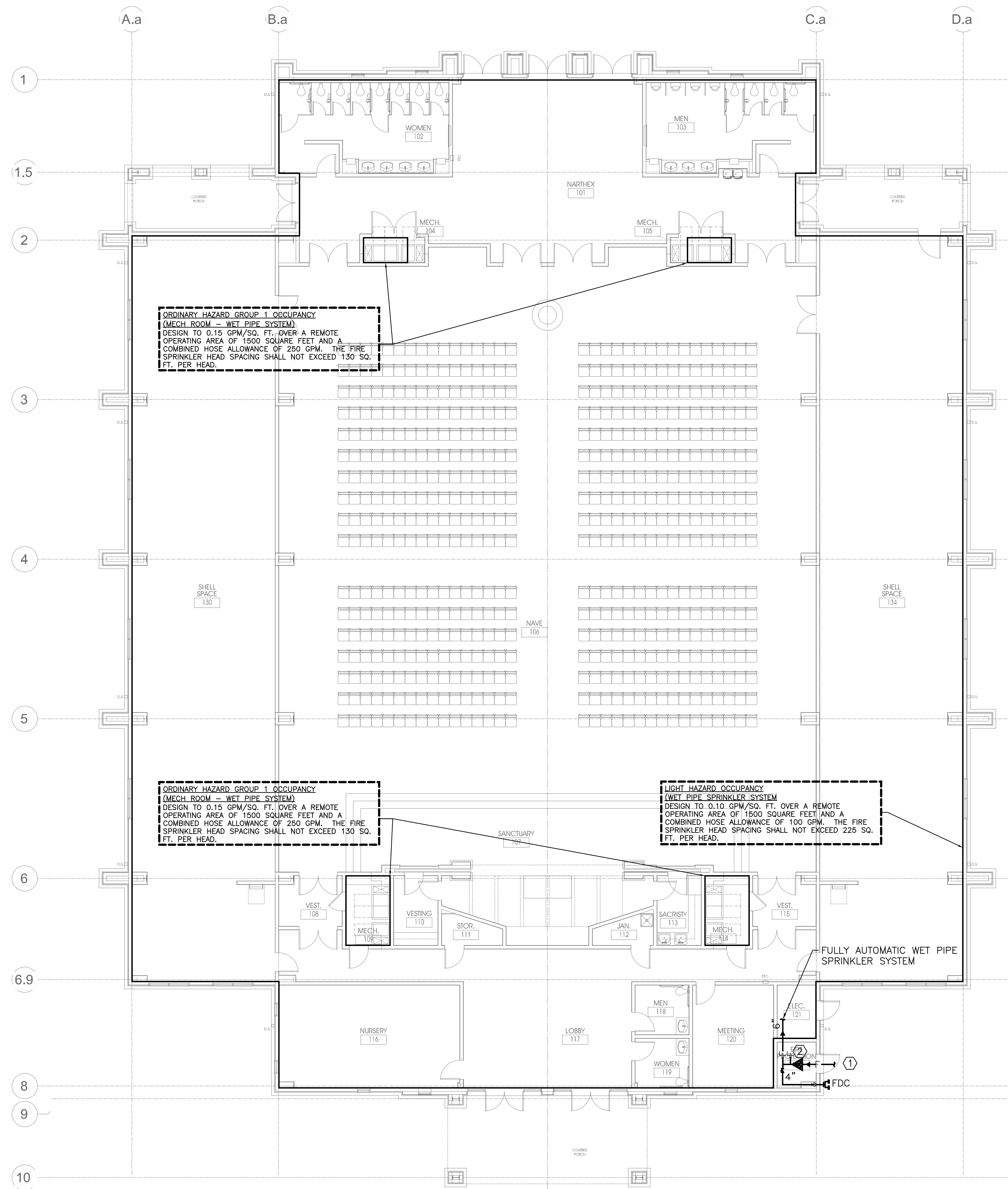
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1ST FLOOR (ALT)
FIRE PROTECTION PLAN

Project No. 2403 Date: 08/05/2024

Sheet No.
FP1.1a

GENERAL NOTES THIS SHEET

- REFER TO FPO.1 FOR ADDITIONAL INSTRUCTIONS.
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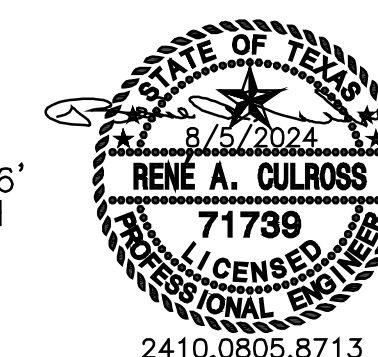
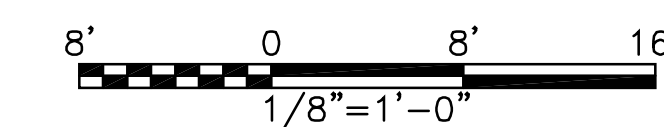
ORDINARY HAZARD GROUP 1 OCCUPANCY
(MECH. ROOM - WET PIPE SYSTEM)
DESIGN TO 0.15 GPM/SQ. FT. OVER A REMOTE
OPERATING AREA OF 1500 SQUARE FEET AND A
COMBINED HOSE ALLOWANCE OF 250 GPM. THE FIRE
SPRINKLER HEAD SPACING SHALL NOT EXCEED 130 SQ.
FT. PER HEAD.

ORDINARY HAZARD GROUP 1 OCCUPANCY
(MECH. ROOM - WET PIPE SYSTEM)
DESIGN TO 0.15 GPM/SQ. FT. OVER A REMOTE
OPERATING AREA OF 1500 SQUARE FEET AND A
COMBINED HOSE ALLOWANCE OF 250 GPM. THE FIRE
SPRINKLER HEAD SPACING SHALL NOT EXCEED 130 SQ.
FT. PER HEAD.

LIGHT HAZARD OCCUPANCY
(WET PIPE SPRINKLER SYSTEM)
DESIGN TO 0.10 GPM/SQ. FT. OVER A REMOTE
OPERATING AREA OF 1500 SQUARE FEET AND A
COMBINED HOSE ALLOWANCE OF 100 GPM. THE FIRE
SPRINKLER HEAD SPACING SHALL NOT EXCEED 225 SQ.
FT. PER HEAD.

FULLY AUTOMATIC WET PIPE
SPRINKLER SYSTEM

1 1ST FLOOR (ALT) - HVAC ZONING PLAN
Scale: 1/8" = 1'-0"



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