

PLUMBING LEGEND

- SOIL & WASTE PIPING
- VENT PIPING
- COLD WATER PIPING
- HOT WATER PIPING
- HOT WATER RETURN PIPING
- BALL VALVE
- BUTTERFLY VALVE
- VALVE IN C.I. BOX/SPECS
- CHECK VALVE
- FLOOR CLEANOUT - SEE DETAIL
- WALL CLEANOUT WITH STAINLESS STEEL COVER
- HOSE BIBB - SEE SPECS
- WALL HYDRANT - SEE SPECS
- FREEZE PROOF WALL HYDRANT
- REDUCED PRESSURE BACKFLOW PREVENTER
- SANITARY VENT
- VENT THRU ROOF
- AREA DRAIN
- ROOF DRAIN
- RAIN LEADER
- CATCH BASIN
- TOP OF COVER
- INVERT
- SWING JOINT - SEE DETAIL
- INDICATES ITEMS OF EQUIPMENT FURNISHED UNDER OTHER DIVISIONS OF THE SPECS, BUT ROUGHED-IN FOR & CONNECTED BY THIS CONTRACTOR

AIR CONDITIONING LEGEND

- INDICATES NEW SHEET METAL DUCTWORK. SIZES INDICATED ARE SHEET METAL DIMENSIONS. REFER TO SPECIFICATIONS FOR TYPE OF INSULATION
- INDICATES NEW PRE-INSULATED FLEXIBLE DUCT - MAXIMUM 12' IN LENGTH REFER TO SPECS FOR DETAILS
- INDICATES NEW CEILING DIFFUSER - CFM AS NOTED - 24x24 UNLESS OTHERWISE NOTED - SIZE INDICATES NECK SIZE - ARROWS INDICATE DIRECTION OF BLOW IF OTHER THAN 4-WAY
- INDICATES NEW VAV CEILING DIFFUSER EQUAL TO THERMADIFFUSER - CFM AS NOTED - 24x24 LAY-IN STYLE - REFER TO SPECS FOR DETAILS - ARROWS INDICATE DIRECTION OF BLOW IF OTHER THAN 4-WAY
- INDICATES NEW SIDEWALL SUPPLY REGISTER - SIZE AND CFM AS NOTED PROVIDE OPPOSED BLADE DAMPER AT EACH REGISTER
- INDICATES NEW RETURN AIR GRILLE OF SIZE INDICATED. WHEN INDICATED, BALANCE TO CFM SHOWN. WHEN DUCT RUNOUT SIZE IS NOT INDICATED IT SHALL BE SAME WIDTH OF GRILLE AND MINIMUM 10" DEEP
- INDICATES NEW EXHAUST GRILLE OF SIZE INDICATED. BALANCE TO CFM INDICATED. WHEN DUCT RUNOUT SIZE IS NOT INDICATED IT SHALL BE SAME WIDTH OF GRILLE AND MINIMUM 10" DEEP
- INDICATES NEW RETURN AIR CEILING TRANSFER GRILLE OF SIZE INDICATED. TRANSFER DUCT TO BE FLEX OR RECTANGULAR AS INDICATED
- INDICATES NEW OUTSIDE AIR WALL LOUVER OF SIZE INDICATED. PROVIDE FIRE DAMPER AT WALL AND MANUAL VOLUME
- INDICATES NEW THERMOSTAT OR TEMPERATURE SENSOR LOCATION. REFER TO TEMPERATURE CONTROLS SECTION.
- INDICATES NEW SMOKE DETECTOR (DUCT MOUNTED UNLESS OTHERWISE NOTED)
- INDICATES NEW DUCT MOUNTED FIRESTAT - SET AT 135°
- INDICATES WALL MOUNTED ANNUNCIATOR PANEL WITH VISUAL AND AUDIBLE SIGNAL TO INDICATE ALARM CONDITIONS OF DUCT MOUNTED SMOKE DETECTOR. PROVIDE ONE PANEL FOR EACH AIR UNIT (ANNUNCIATOR PANEL NOT REQUIRED IF BUILDING HAS FIRE ALARM)
- INDICATES DOOR TO BE UNDERCUT 3/4" OR 1" AS INDICATED. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO HAVE DOORS ORDERED WITH UNDERCUT.
- INDICATES CONDENSATE RETURN PIPING (PIPING TO BE TYPE 'L' COPPER WITH COPPER SWEAT FITTINGS)
- MVD DENOTES MANUAL VOLUME DAMPER
- FD DENOTES FIRE DAMPER
- AFF DENOTES ABOVE FINISHED FLOOR

GENERAL NOTES:

ALL MECHANICAL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH ALL STATE AND LOCAL CODES AND THE REQUIREMENTS OF THE STATE FIRE MARSHAL.

ALL BIDDERS MUST VISIT THE SITE PRIOR TO SUBMITTING A BID AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AS THEY RELATE TO THE WORK REQUIRED BY THESE DOCUMENTS. BIDDERS SHALL INCLUDE ALL COSTS ASSOCIATED WITH WORK REQUIRED BY EXISTING CONDITIONS. NO ADDITIONAL COMPENSATION SHALL BE AWARDED FOR FAILURE TO BE SO INFORMED.

BIDDERS SHALL INCLUDE IN THEIR BID ALL COSTS ASSOCIATED WITH PERMIT FEES, INSPECTIONS, UTILITY CONNECTIONS, METERS, JACKING AND BORING OR CUTTING AND PATCHING OF STREETS AS REQUIRED FOR BUILDING SERVICES, ETC. IT SHALL BE THE RESPONSIBILITY OF ALL BIDDERS TO CONTACT THE APPROPRIATE UTILITY COMPANIES OR CITY DEPARTMENTS AND TO FURNISH THEM WITH ALL PERTINENT INFORMATION ON REQUIRED SERVICES IN ORDER THAT PRICING FOR THESE CONNECTIONS CAN BE FURNISHED TO THE BIDDER IN SUFFICIENT TIME FOR THESE COSTS TO BE INCLUDED IN THE BID. NO ADDITIONAL COMPENSATION SHALL BE AWARDED AFTER BID TIME FOR FAILURE TO OBTAIN AND INCLUDE ALL ASSOCIATED COSTS IN THE BID.

CONTRACTOR SHALL COORDINATE ALL MECHANICAL WORK WITH WORK OF THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS AND EXISTING CONDITIONS SO AS TO AVOID CONFLICTS.

WHERE CUTTING AND PATCHING AND/OR BLOCKOUT INSTALLATION REQUIRED FOR MECHANICAL WORK IS TO BE DONE BY OTHER TRADES, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND LAYOUT OF THE REQUIRED WORK.

OWNER SHALL HAVE RIGHT OF REFUSAL OF ALL DEMO MATERIALS. MATERIALS NOT CLAIMED SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

MANUFACTURER'S NAMES AND MODEL NUMBERS LISTED ARE MEANT TO ESTABLISH A STANDARD. MANUFACTURERS PRODUCING EQUIPMENT OF EQUAL CAPACITY AND QUALITY SHALL BE ACCEPTABLE SUBJECT TO THE SUBMITTAL PROCESS.

REFER TO WRITTEN SPECIFICATIONS FOR DETAILS NOT COVERED ON THE PLANS. WHERE CONFLICT OCCURS BETWEEN PLANS AND SPECIFICATIONS, THE SPECIFICATION SHALL TAKE PRECEDENCE.

PLUMBING NOTES:

PRIOR TO INSTALLING ANY WASTE AND WATER PIPING, CONTRACTOR SHALL DETERMINE THE FINAL POINT OF CONNECTION AND MAKE REQUIRED ADJUSTMENTS IN ELEVATION, ROUTING, ETC.

PROVIDE A SHUT OFF VALVE ON EACH DOMESTIC HOT & COLD WATER BRANCH FROM MAIN. NO FIXTURE OR GROUP OF FIXTURES SHALL BE CONNECTED TO MAIN WITHOUT MEANS OF ISOLATION. THESE VALVES SHALL BE PROVIDED WHETHER SHOWN ON DRAWINGS OR NOT.

MINIMUM DOMESTIC WATER PIPE SIZE ABOVE CEILING SHALL BE 3/4". WHERE PIPE SERVES FIXTURE REQUIRING 1/2" SERVICE, PROVIDE 3/4" X 1/2" REDUCING ELBOW AT WALL.

WASTE & WATER PIPING SHALL BE PROVIDED FOR EVERY FIXTURE REQUIRED BY CONTRACT DOCUMENTS. WHERE PIPING IS NOT SHOWN OR SIZED, CONTRACTOR SHALL PROVIDE PIPING IN ACCORDANCE WITH PLUMBING FIXTURE SCHEDULE REQUIREMENTS.

PLUMBING VENTS SHALL BE COMBINED WHEREVER POSSIBLE & ROUTED UP THROUGH ROOF OR THROUGH UPPER FLOORS TO ROOF IN ORDER TO MINIMIZE ROOF PENETRATIONS.

CONTRACTOR SHALL DO ALL REQUIRED TRENCHING AND BACKFILL. BACKFILL SHALL BE CLEAN EARTH OR RIVER SAND. ALL UNDERGROUND LINES SHALL HAVE MINIMUM 24" FILL.

INSULATE HANDICAPPED LAVATORY WASTE AND WATER PIPING WITH APPROVED TRAP WRAP SYSTEM.

PROVIDE TRAP PRIMER IN COLD WATER SUPPLY TO LAVATORY, OR NEAREST FIXTURE, AS REQUIRED TO SERVE FLOOR DRAINS SUPPLIED WITH TRAP PRIMER.

PROVIDE VACUUM BREAKERS ON EACH FIXTURE SUPPLIED WITH A HOSE CONNECTION IN ACCORDANCE WITH ALL CODES.

PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER IN DOMESTIC WATER SERVICE IN ACCORDANCE WITH LOCAL CODES. INSULATE BACKFLOW PREVENTER AND ALL EXPOSED WATER PIPING WITH WEATHER PROOF INSULATION SYSTEM. PIPE DRAIN TO SUITABLE LOCATION.

HVAC NOTES:

PRIOR TO FABRICATION OF ANY EQUIPMENT, DUCTWORK, ETC., CONTRACTOR SHALL REVIEW ENTIRE SET OF CONTRACT DOCUMENTS AND COORDINATE ALL CLEARANCES WITH RESPECT TO STRUCTURAL LIMITATIONS AS WELL AS REQUIRED WORK OF OTHER TRADES. ANY CONFLICTS SHALL BE RESOLVED PRIOR TO FABRICATION OF EQUIPMENT, DUCTWORK, ETC.

CONTRACT DOCUMENTS ARE NOT INTENDED TO BE DETAILED SHOP DRAWINGS. THEY DO NOT INDICATE EVERY REQUIRED OFFSET IN DUCTWORK, PIPING, ETC. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS FOR THESE OFFSETS THAT MAY BE REQUIRED TO ALLOW FOR STRUCTURAL MEMBERS, WORK OF OTHER TRADES, CROSSING OF DUCTS, ETC. NO ADDITIONAL COMPENSATION SHALL BE AWARDED FOR THIS WORK.

CONTRACTOR SHALL PROVIDE ALL REQUIRED PIPING CONNECTIONS TO EACH PIECE OF EQUIPMENT AS REQUIRED FOR THE PROPER OPERATION OF THE EQUIPMENT WHETHER SPECIFICALLY SHOWN OR NOT. THIS SHALL INCLUDE DRAIN PIPING, RELIEF LINES, WATER MAKE UP PIPING, ETC.

FLEXIBLE DUCT CONNECTIONS SHALL BE PROVIDED ON EACH FAN POWERED PIECE OF EQUIPMENT.

ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN STRICT ACCORDANCE WITH SMACNA GUIDELINES.

REFRIGERANT PIPING SHALL BE SIZED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PIPING SHALL BE INSULATED WITH 3/4" ARMAFLEX INSULATION. INSULATION SHALL BE TIGHTLY BUTTED AND ALL SEAMS SEALED WITH WATERPROOF VAPOR BARRIER ADHESIVE.

CONDENSATE PIPING SHALL BE TYPE 'L' COPPER PIPE WITH COPPER SWEAT FITTINGS. PIPING SHALL BE INSULATED WITH 3/4" ARMAFLEX INSULATION. INSULATION SHALL BE TIGHTLY BUTTED AND ALL SEAMS SEALED WITH WATERPROOF VAPOR BARRIER ADHESIVE.

ALL AIR QUANTITIES SHALL BE BALANCED TO WITHIN 10% OF QUANTITIES SHOWN ON THE PLANS BY AN INDEPENDENT BALANCE CONTRACTOR.

PROVIDE WALL MOUNTED THERMOSTAT FOR EACH A/C SYSTEM. CONTROL THE CONDENSING UNIT ON THE COOLING CYCLE AND THE ELECTRIC HEATER ON THE HEATING CYCLE.

PROVIDE A FIRESTAT IN THE RETURN AIR OF ALL AIR HANDLERS UNDER 5 TONS AND A SMOKE DETECTOR IN THE SUPPLY AIR AND THE RETURN AIR OF UNIT 5 TONS AND ABOVE. FOR EACH SMOKE DETECTOR FURNISH AND INSTALL A REMOTE ANNUNCIATOR PANEL WITH BOTH AUDIBLE AND VISUAL SIGNALS IN AN OCCUPIED AREA OF THE BUILDING.

BIDDER'S QUALIFICATIONS:

ALL CONTRACTORS SUBMITTING BIDS FOR THE WORK UNDER THIS CONTRACT ARE REQUIRED TO REVIEW THE ENTIRE SET OF DRAWINGS AND SPECIFICATIONS AND TO BE FAMILIAR WITH THE FULL INTENT OF THE CONTRACT DOCUMENTS.

IF THERE ARE ANY ITEMS WHICH ARE NOT CLEAR TO THE BIDDER, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION MINIMUM OF 12 HOURS BEFORE BID TIME. BY SUBMITTING A BID, THE BIDDER SIGNIFIES THAT HE OR SHE FULLY UNDERSTANDS THE INTENT OF THE DOCUMENTS AND HAS INCLUDED ALL COSTS ASSOCIATED WITH A COMPLETE MECHANICAL SYSTEM IN THEIR BID.

NO ADDITIONAL COMPENSATION SHALL BE AWARDED AFTER BID TIME FOR FAILURE TO REQUEST CLARIFICATIONS.

INSTALLER'S QUALIFICATIONS:

ALL CONTRACTORS SUBMITTING BIDS FOR THE WORK UNDER THIS CONTRACT SHALL BE SPECIALISTS IN THEIR FIELD AND SHALL HAVE THE PERSONAL EXPERIENCE, TRAINING AND SKILL TO CONSTRUCT A PROPERLY OPERATING MECHANICAL SYSTEM AS DESCRIBED BY THE CONTRACT DRAWINGS.

IF REQUIRED, THE CONTRACTOR SHALL BE ABLE TO FURNISH EVIDENCE OF HAVING NOT LESS THAN THREE YEARS EXPERIENCE AND HAVING BEEN RESPONSIBLE FOR AT LEAST THREE PROJECTS COMPARABLE IN SIZE AND COMPLEXITY TO THIS ONE.

AIR CONDITIONING SYSTEM SCHEDULE

SYSTEM NO.	AIR CAPACITY			COOLING CAPACITY					AIR HANDLING UNIT			ELECTRIC HEAT		CONDENSING UNIT			REMARKS			
	TOTAL CFM	MINIMUM O.A. CFM	EXT. S.P. INCHES	TOTAL BTU/HR	SENSIBLE BTU/HR	ENTERING		MAX. COIL FACE VEL.	TRANE CO. MODEL NO.	MOTOR HP	WEIGHT LBS.	KW AT 208V/3PH	CONTROL STEPS	TRANE CO. MODEL NO.	VOLTS/PH.	UNIT MCA MCA/MOCP		WEIGHT LBS.		
						DB F	WB F												DB F	WB F
AHU-1	5600	100	0.6	111,130	110,890	76.6	65.1	583	55.4	500	TUE180E	3	750	37.4	2	TTA180E	208/3	66.3/100	900	1, 2, 3, 4, 5
AHU-2	5600	100	0.6	111,130	110,890	76.6	65.1	583	55.4	500	TUE180E	3	750	37.4	2	TTA180E	208/3	66.3/100	900	1, 2, 3, 4, 5
AHU-3	2850	450	0.5	81431	53111	78.2	67.1	56.1	54.3	500	TUE030D	15	350	26.2	2	(2) 4TTA9048	208/3	20/30	215	1, 2, 3, 4

- REFRIGERANT PIPING SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- AIR UNIT AND ELECTRIC HEATER SECTION SHALL INCORPORATE SINGLE POINT ELECTRICAL CONNECTION.
- AIR UNIT SHALL HAVE BELT DRIVEN EVAPORATOR FAN
- VERIFY AVAILABLE VOLTAGE AND PHASE WITH ELECTRICAL CONTRACTOR PRIOR TO RELEASE OF EQUIPMENT FOR MANUFACTURE AND SHIPPING
- SYSTEM SHALL HAVE TWO REFRIGERANT CIRCUIT

EXHAUST FAN SCHEDULE

FAN DESIG.	TYPE	BALANCE CFM	SELECTION CFM	S.P. IN INCHES	RPM	MOTOR DATA			COOK MODEL NO.	REMARKS
						HP	VOLTS	PH.		
EF-1	CEILING MOUNTED	300	425	0.375	1075	1/3	120	1	GC-640	1, 2, 3, 4, 5
EF-2	IN-LINE	400	641	0.375	1325	1/2	120	1	GN-120	1, 2, 3, 4, 5

- FAN SHALL BE SELECTED BASED ON SELECTION CFM AND STATIC PRESSURE LISTED. FAN SHALL BE BALANCED IN FIELD TO BALANCE CFM INDICATED.
- PROVIDE SOLID STATE SPEED SWITCH MOUNTED ON FAN. FOR USE IN AIR BALANCE.
- PROVIDE BACKDRAFT DAMPER AND DISCONNECT SWITCH
- INTERLOCK FAN TO RUN WHENEVER FAN IN AHU SERVING THE SPACE IS RUNNING.
- PROVIDE ANODIZED ALUMINUM BRICK VENT WITH FAN, SIZED PER MANUFACTURER'S GUIDELINES OR AS INDICATED ON PLANS



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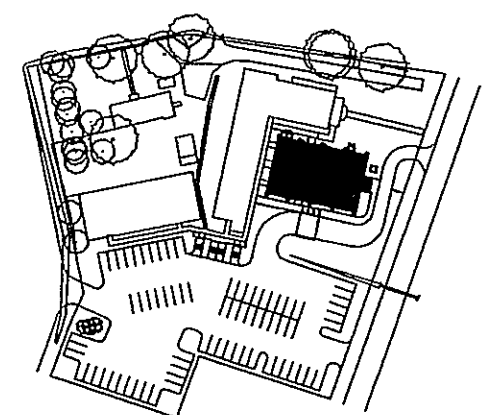
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A NEW CHURCH BUILDING FOR
FIRST BAPTIST CHURCH PEARL RIVER

FIRST BAPTIST CHURCH
64541 HIGHWAY 3081
PEARL RIVER, LOUISIANA 70452

KEY PLAN - FLOOR



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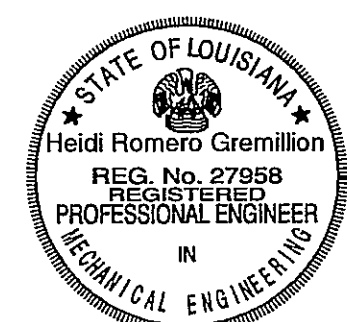
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NOTES, SCHEDULES AND LEGENDS

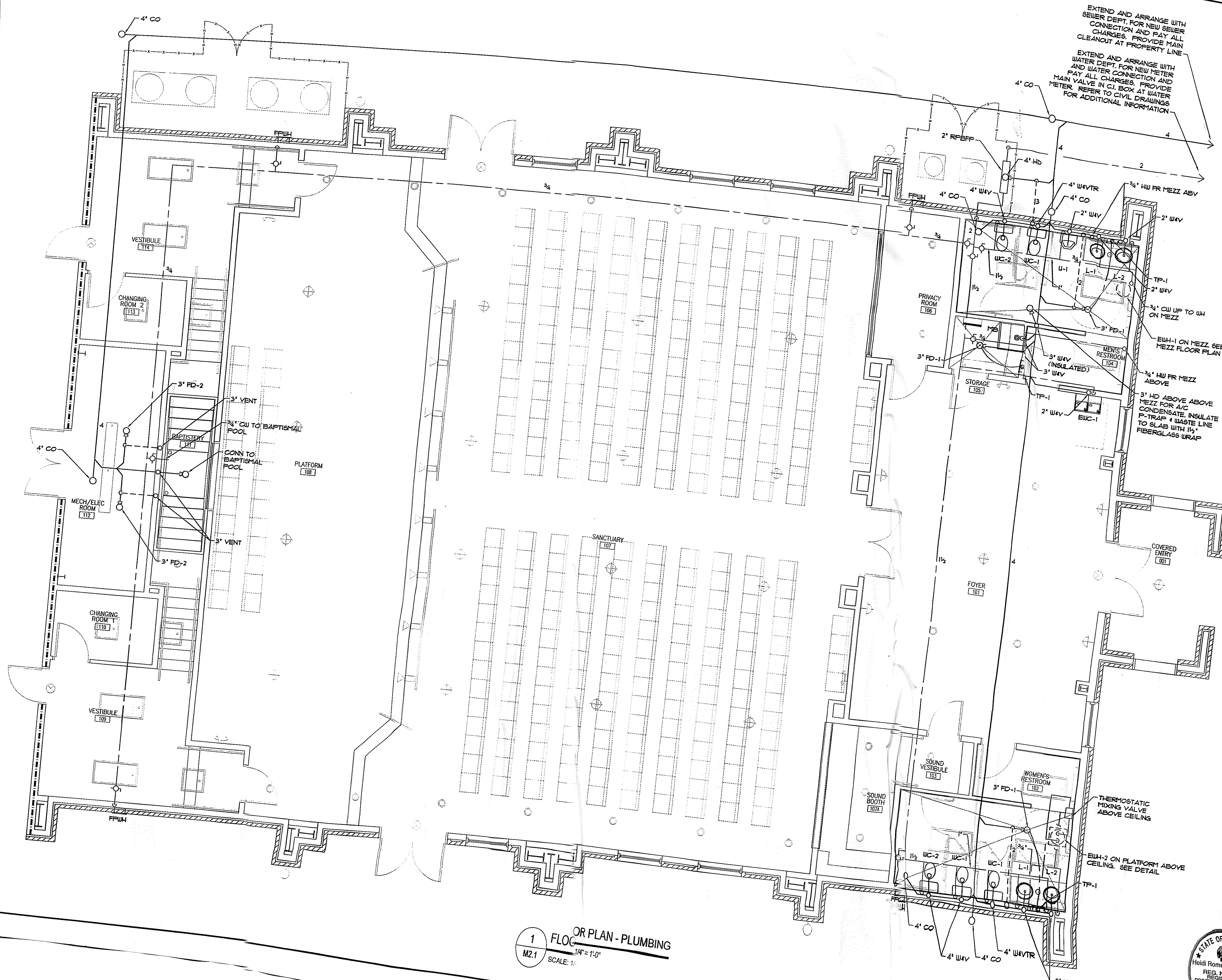
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M1.1



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10022



EXTEND AND ARRANGE WITH SEWER DEPT. FOR NEW SEWER CONNECTION AND PAY ALL CHARGES. PROVIDE MAIN CLEANOUT AT PROPERTY LINE.

EXTEND AND ARRANGE WITH WATER DEPT. FOR NEW METER AND WATER CONNECTION AND PAY ALL CHARGES. PROVIDE MAIN VALVE IN C.I. BOX AT WATER METER. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

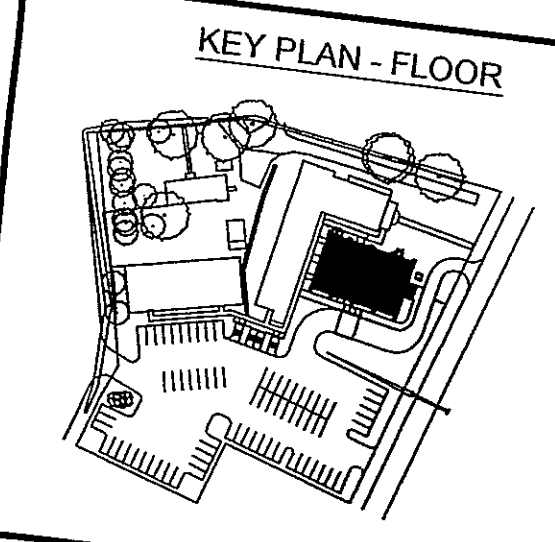
1 FLOOR PLAN - PLUMBING
 M2.1 SCALE: 1/4" = 1'-0"

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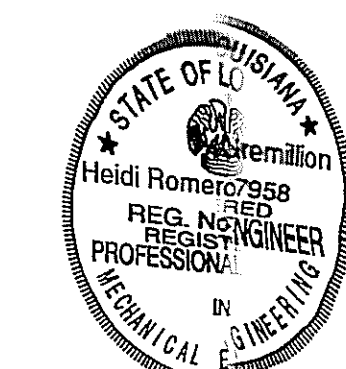
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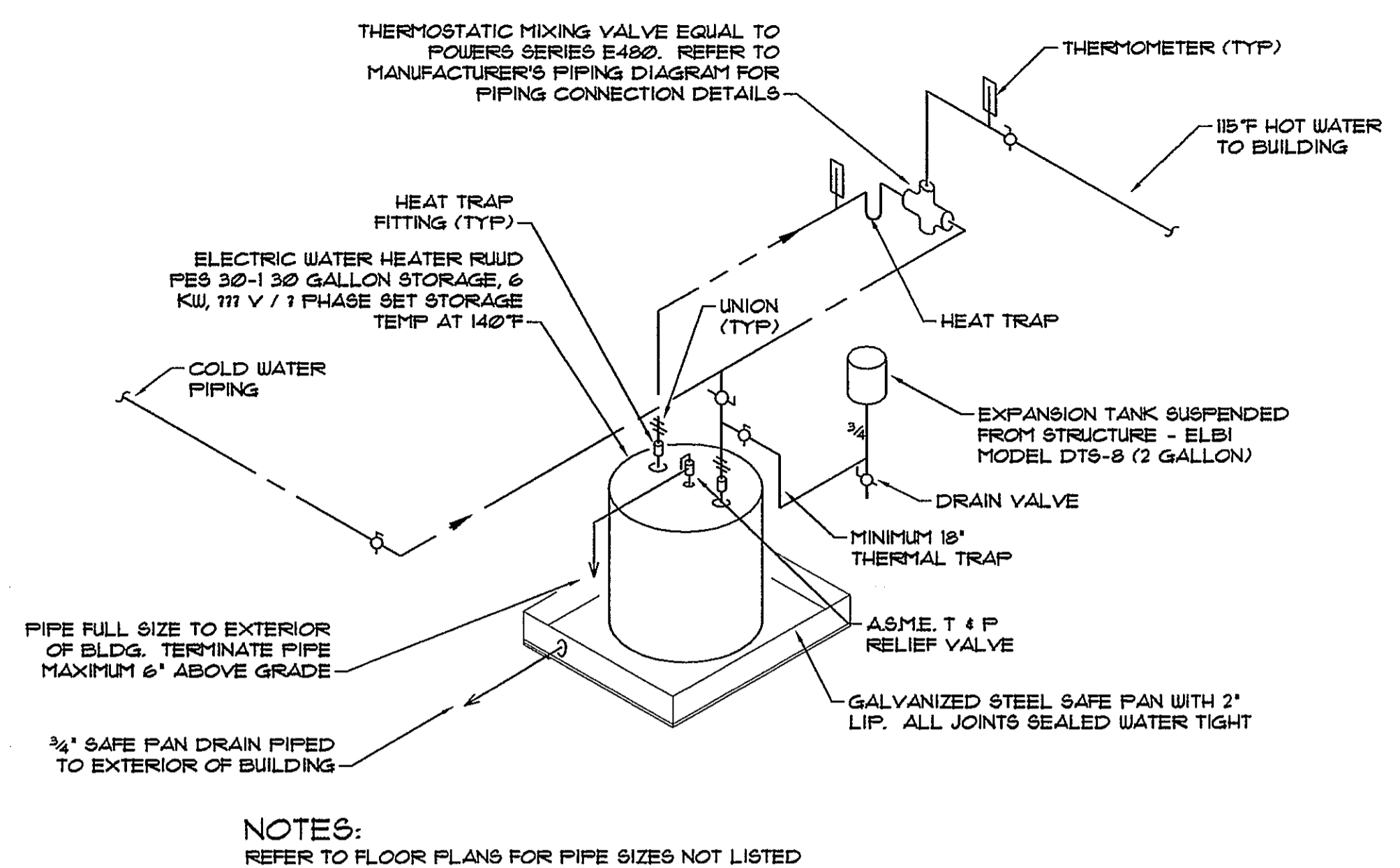
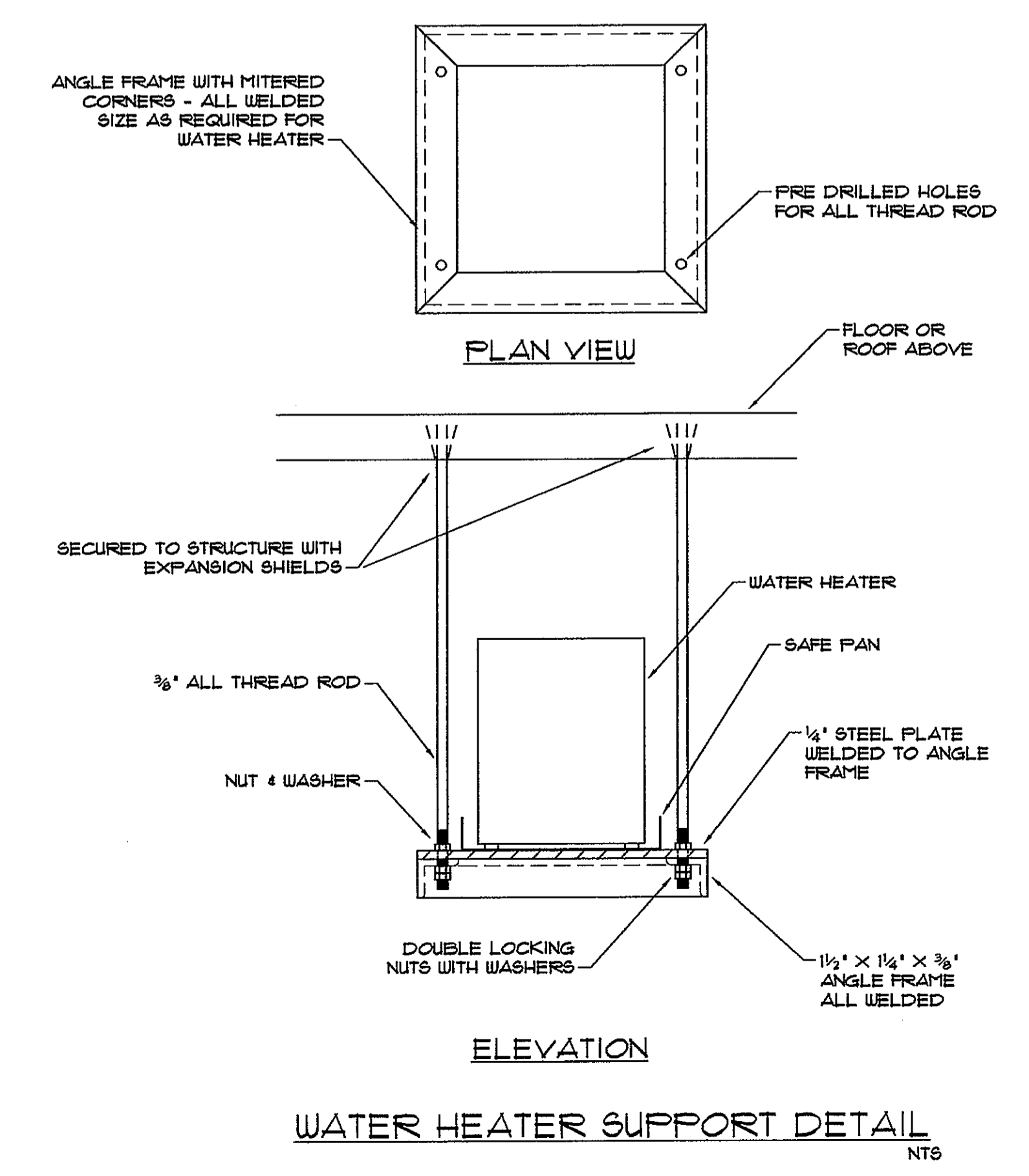
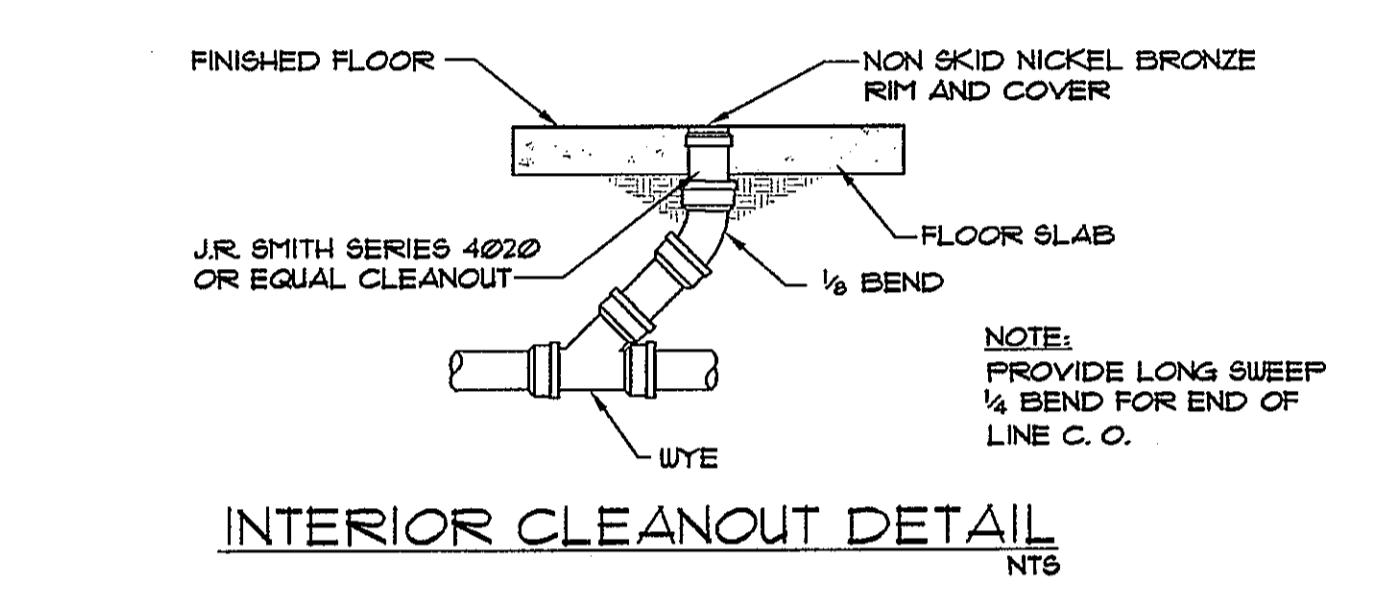
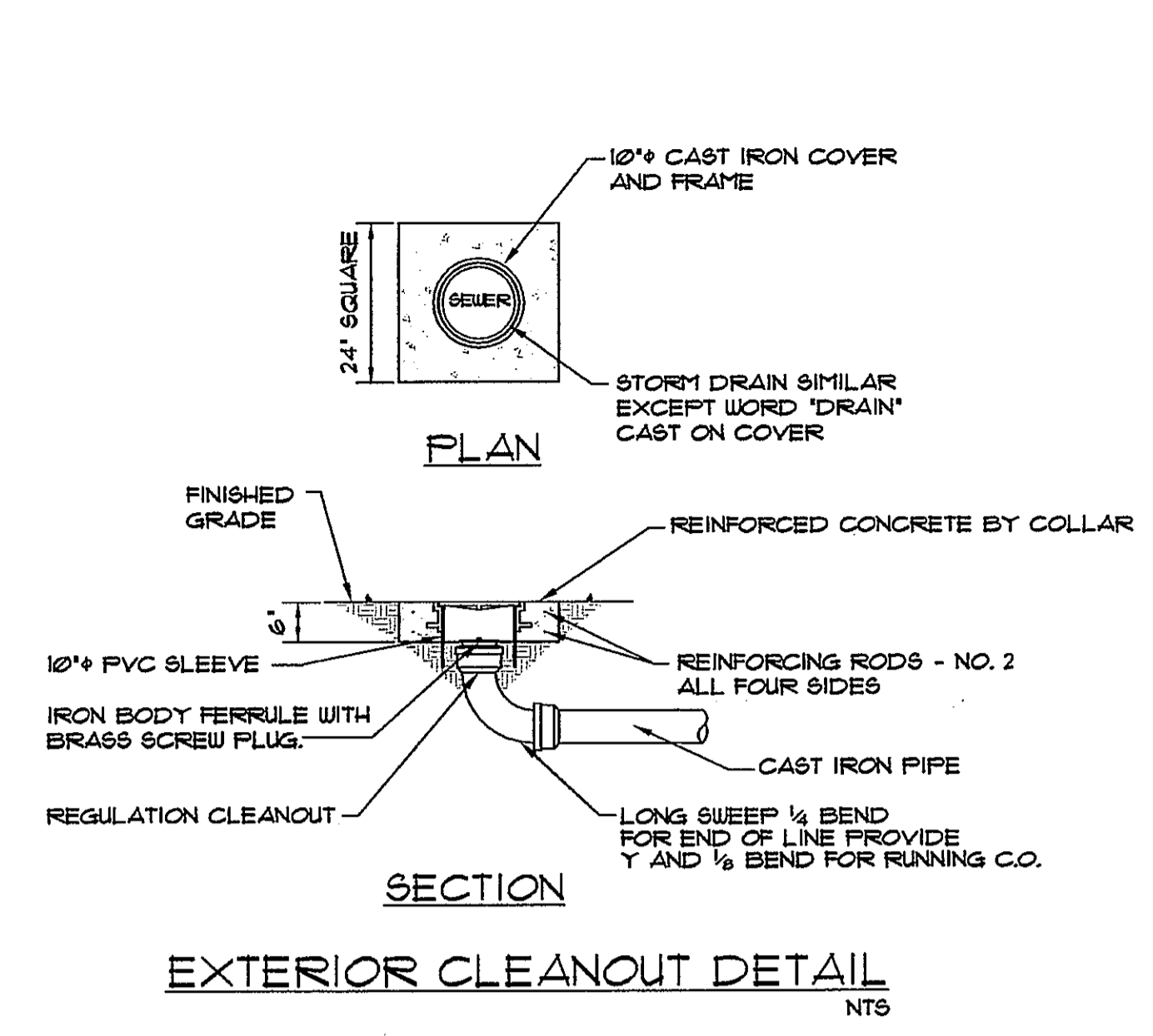
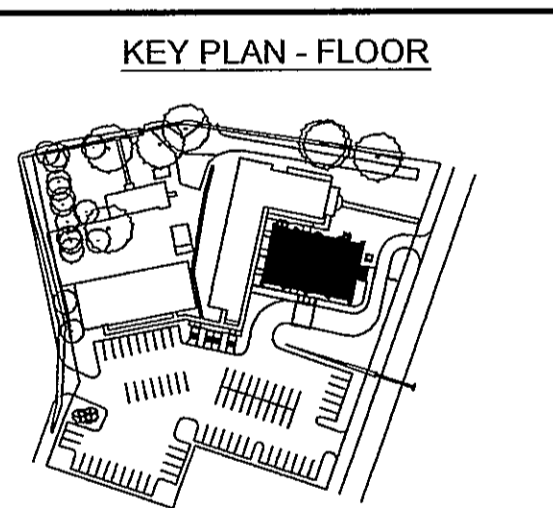
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FLOOR PLAN - PLUMBING

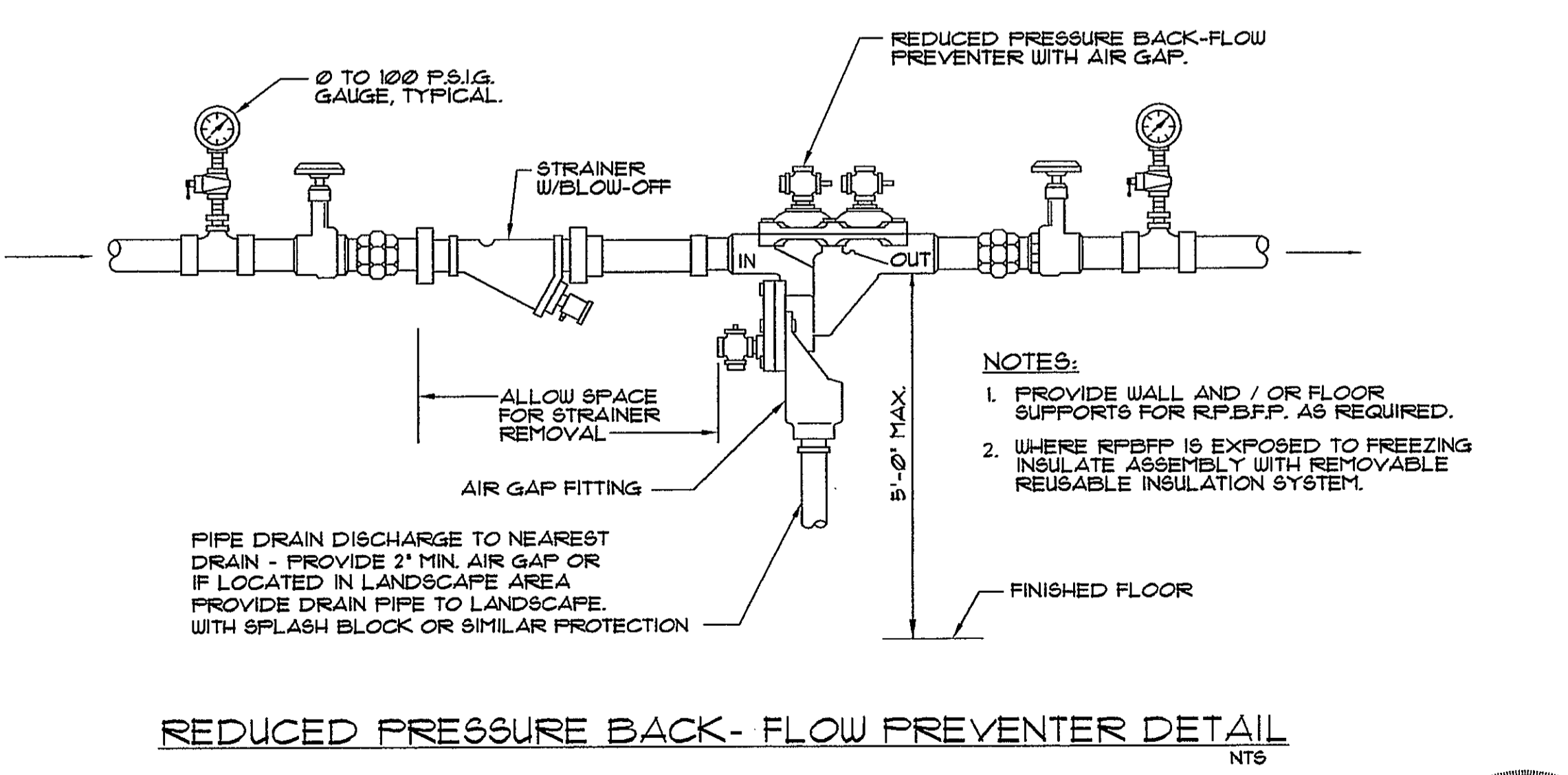
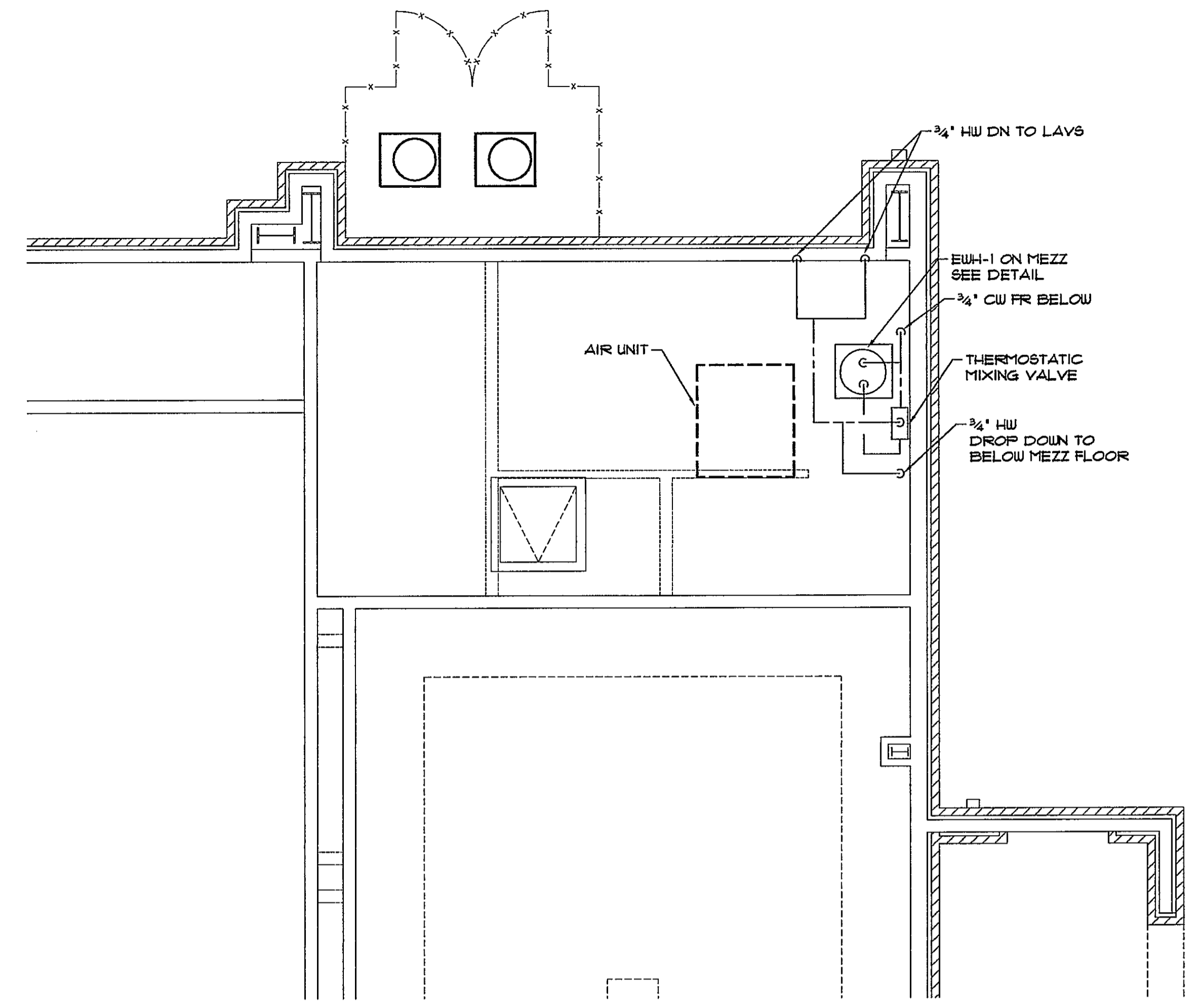
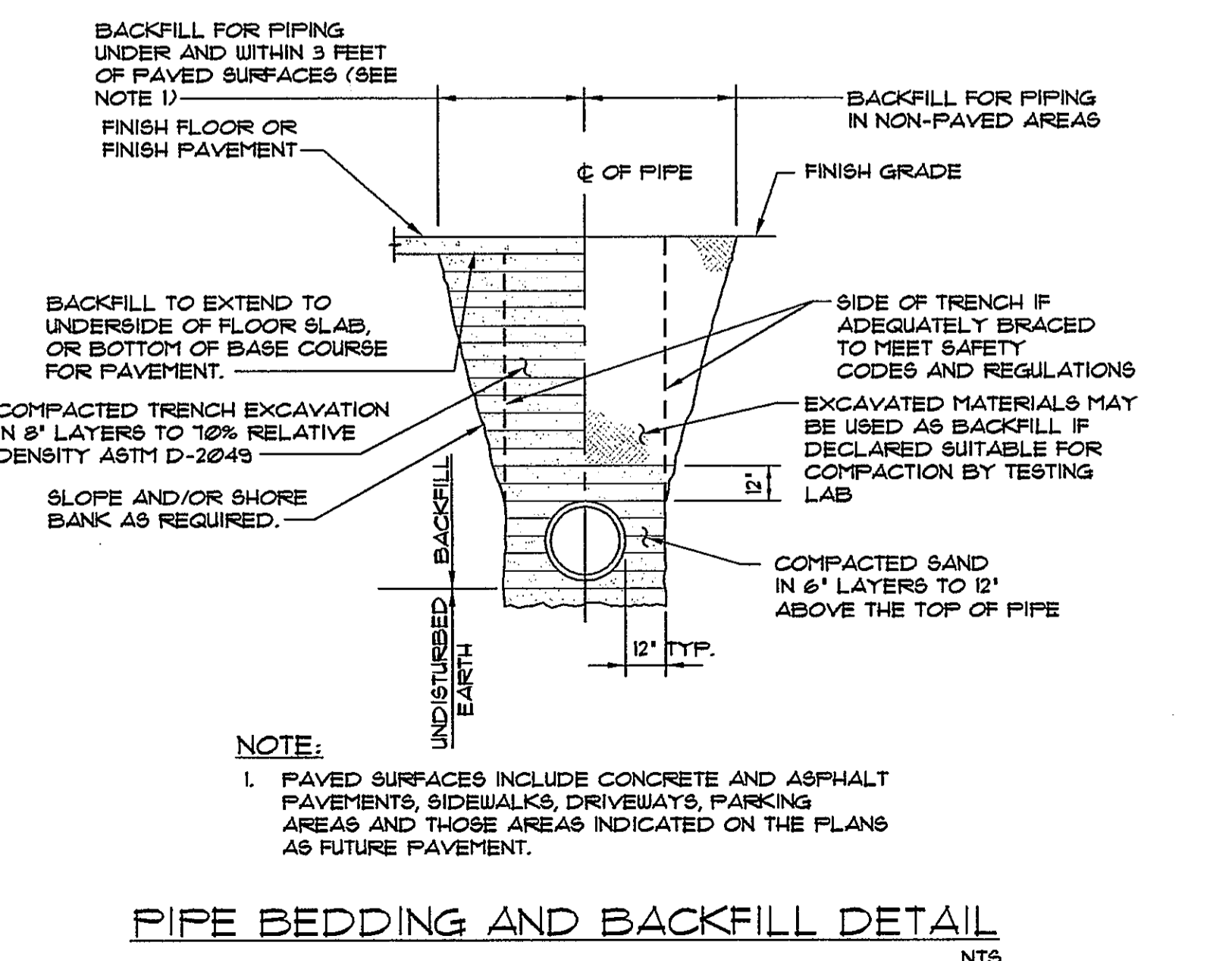
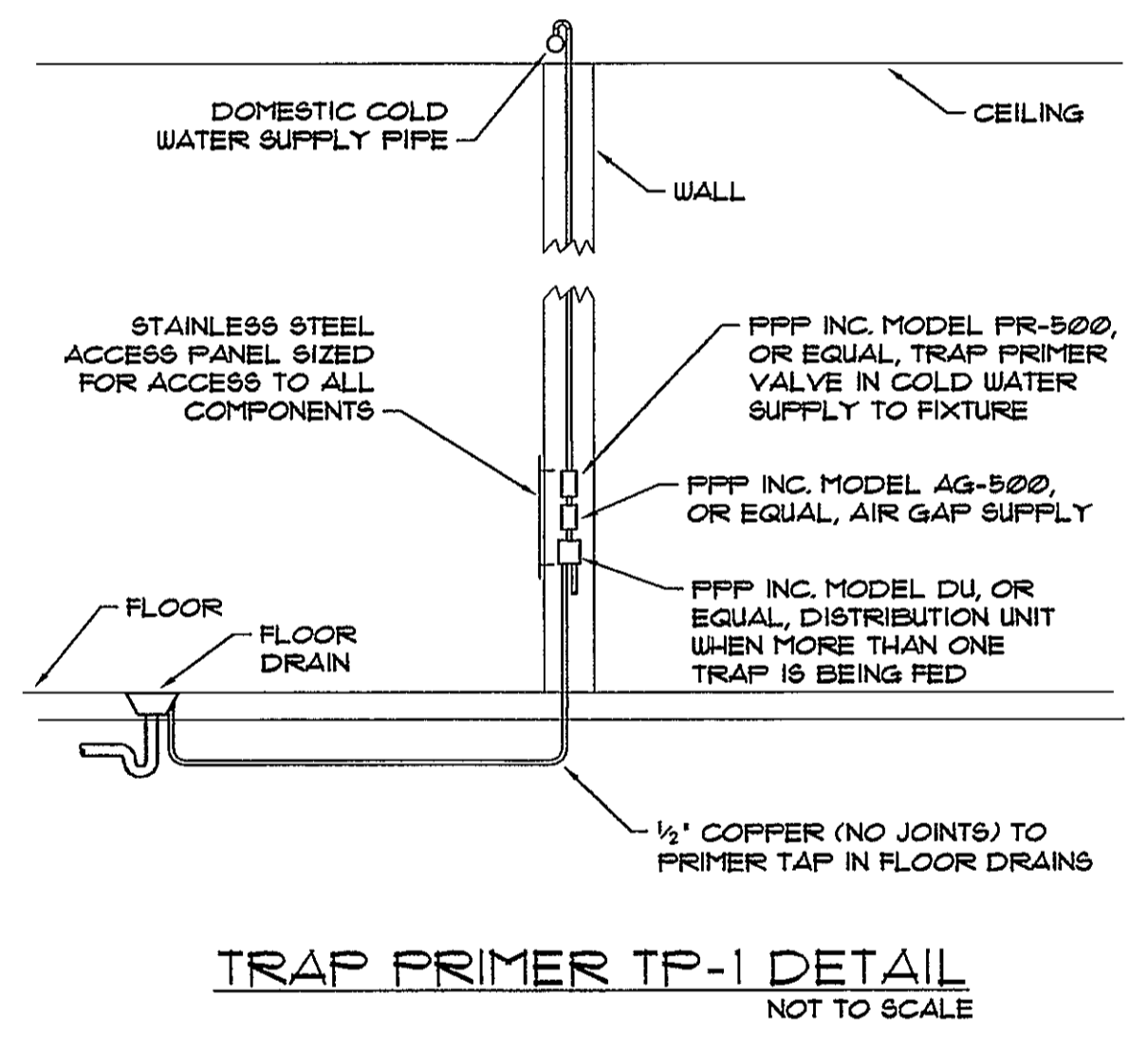
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NOTES:
REFER TO FLOOR PLANS FOR PIPE SIZES NOT LISTED
PROVIDE GALVANIZED SAFE PAN UNDER WATER HEATER. PAN SHALL HAVE 3" HIGH SIDES ALL SOLDERED WATER TIGHT. EXTEND 1" COPPER DRAIN TO NEAREST FLOOR DRAIN OR TO EXTERIOR OF BUILDING.
EUH-1 SHALL BE INSTALLED ON THE MEZZANINE FLOOR.
EUH-2 SHALL BE SUSPENDED IN THE CEILING. SEE PLATFORM DETAIL.



NOTES:
1. PROVIDE WALL AND / OR FLOOR SUPPORTS FOR RPBFP. AS REQUIRED.
2. WHERE RPBFP IS EXPOSED TO FREEZING INSULATE ASSEMBLY WITH REMOVABLE REUSABLE INSULATION SYSTEM.

PIPE DRAIN DISCHARGE TO NEAREST DRAIN - PROVIDE 2" MIN. AIR GAP OR IF LOCATED IN LANDSCAPE AREA PROVIDE DRAIN PIPE TO LANDSCAPE WITH SPLASH BLOCK OR SIMILAR PROTECTION

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Issue	Date	Remark

MEZZ FLOOR PLAN - PLUMBING
DETAILS

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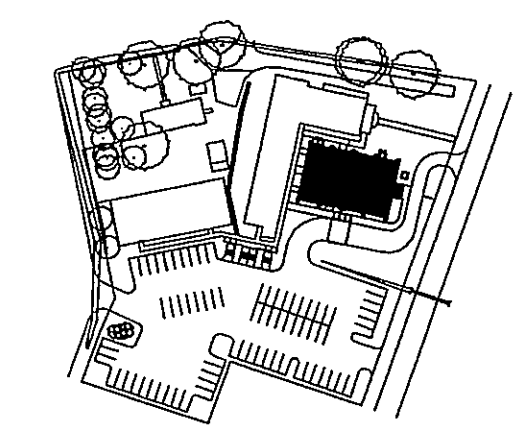
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A NEW CHURCH BUILDING FOR
**FIRST BAPTIST
CHURCH PEARL
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KEY PLAN - FLOOR



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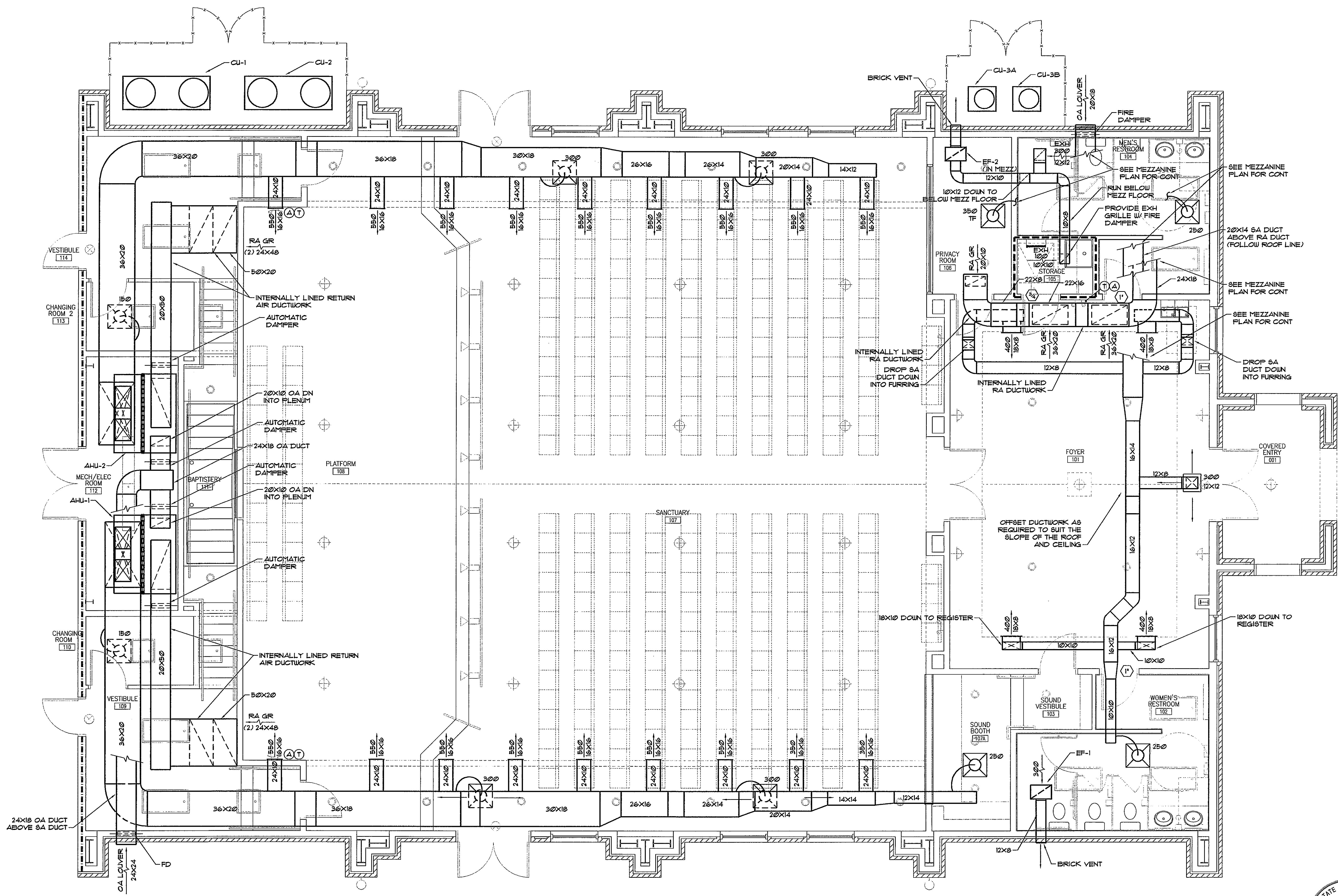
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FLOOR PLAN - HVAC

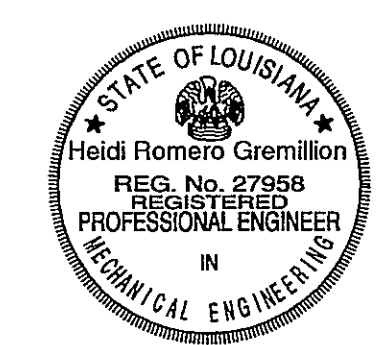
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1 FLOOR PLAN - HVAC
M3.1 SCALE: 1/4" = 1'-0"

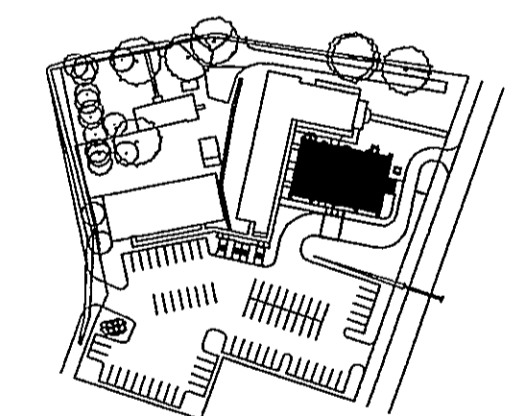


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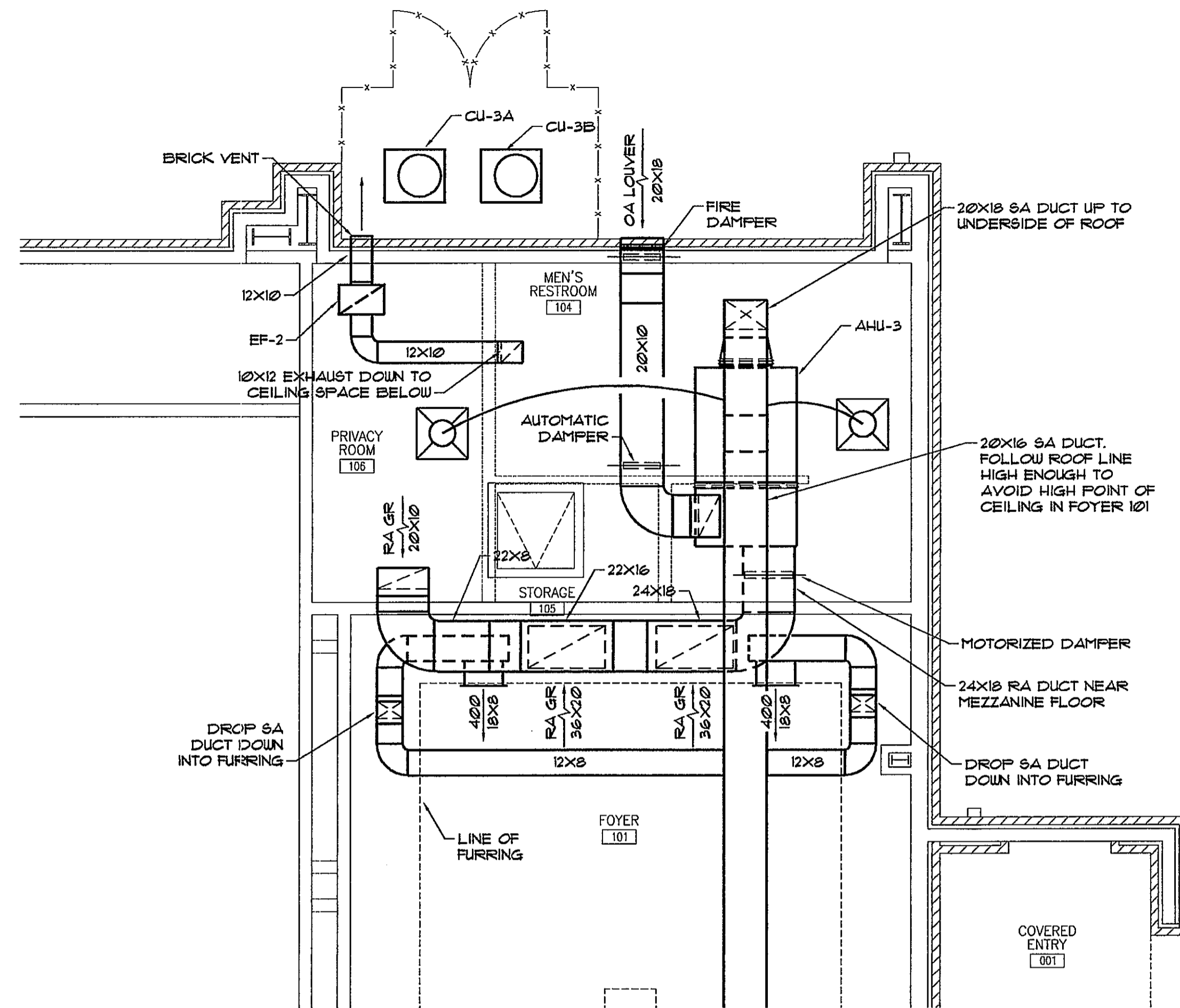
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MEZZ PLAN - DETAILS

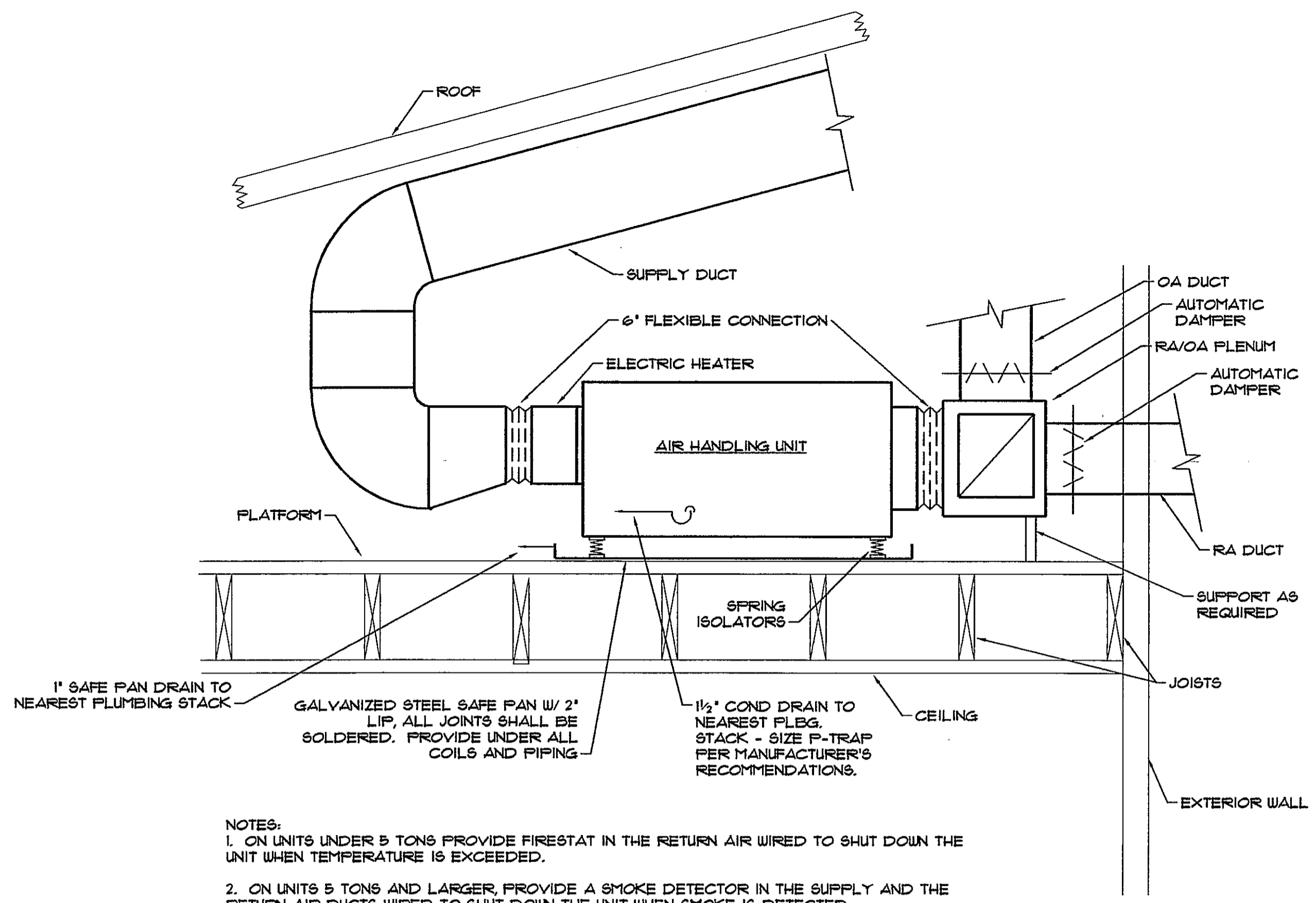
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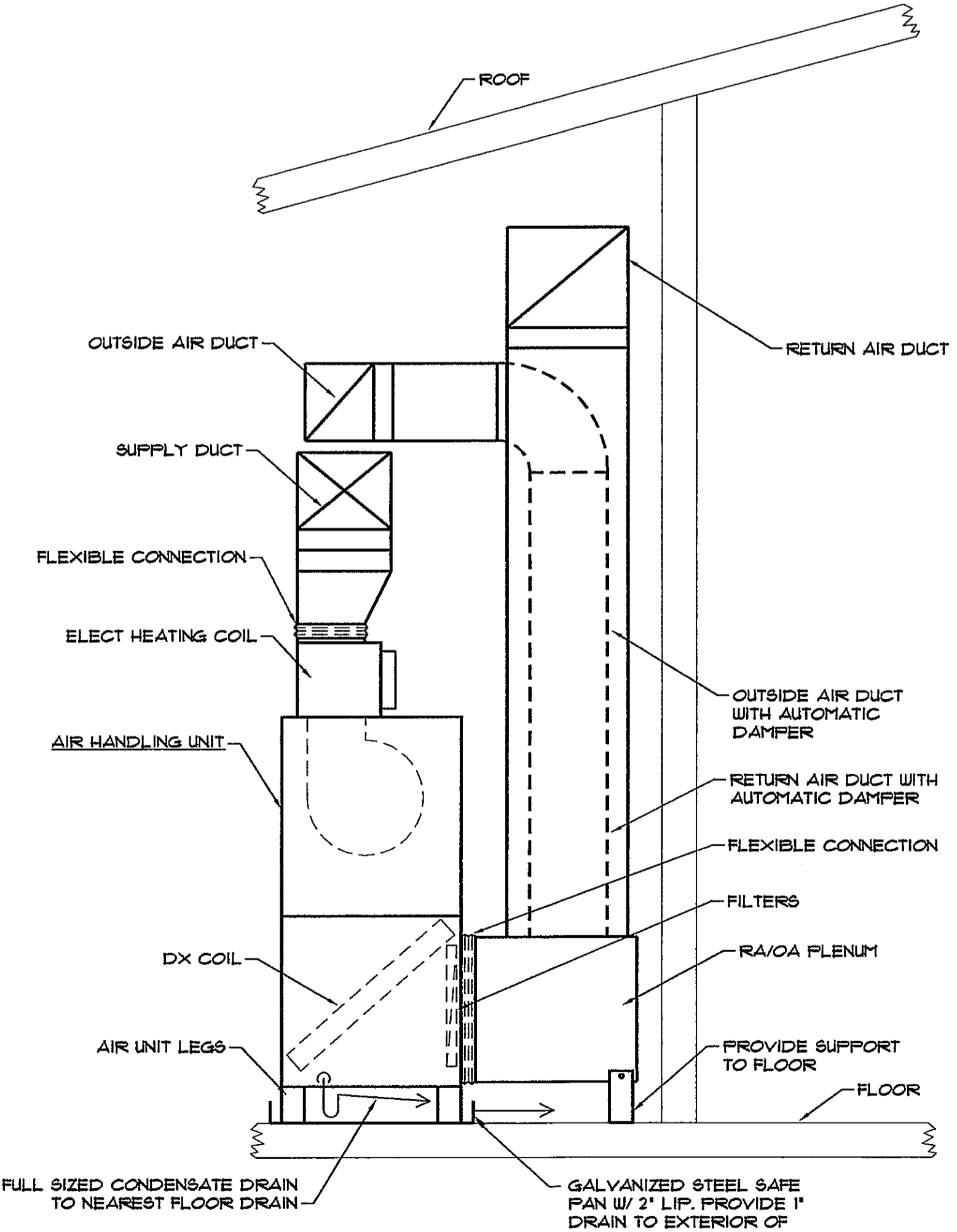


1 MEZZANINE FLOOR PLAN - HVAC
M3.2
SCALE: 1/4" = 1'-0"



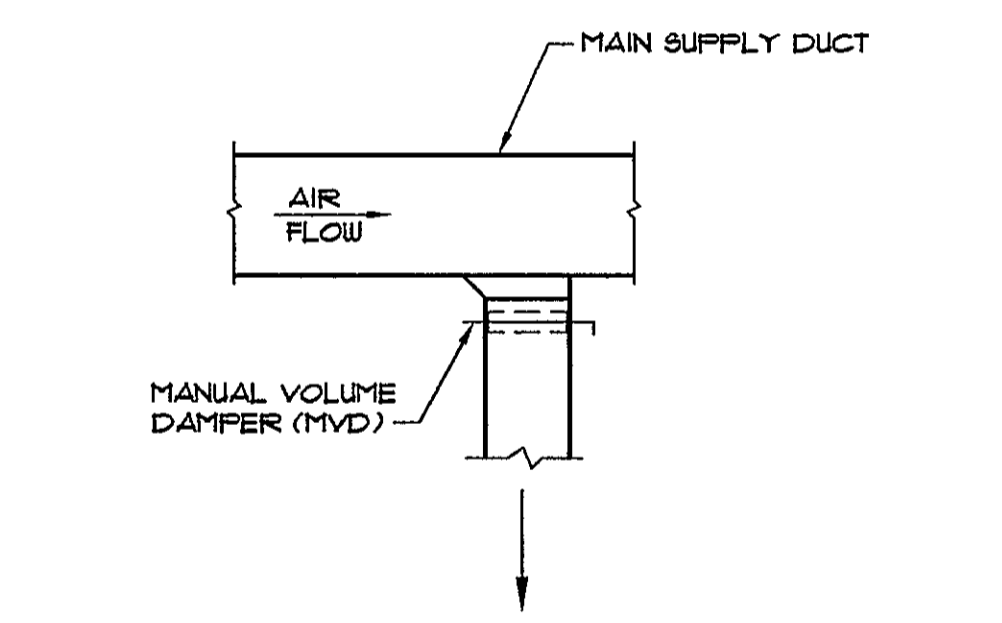
HORIZONTAL AIR HANDLING UNIT INSTALLATION DETAIL
NOT TO SCALE

- NOTES:
1. ON UNITS UNDER 5 TONS PROVIDE FIRESTAT IN THE RETURN AIR WIRED TO SHUT DOWN THE UNIT WHEN TEMPERATURE IS EXCEEDED.
2. ON UNITS 5 TONS AND LARGER, PROVIDE A SMOKE DETECTOR IN THE SUPPLY AND THE RETURN AIR DUCTS WIRED TO SHUT DOWN THE UNIT WHEN SMOKE IS DETECTED.

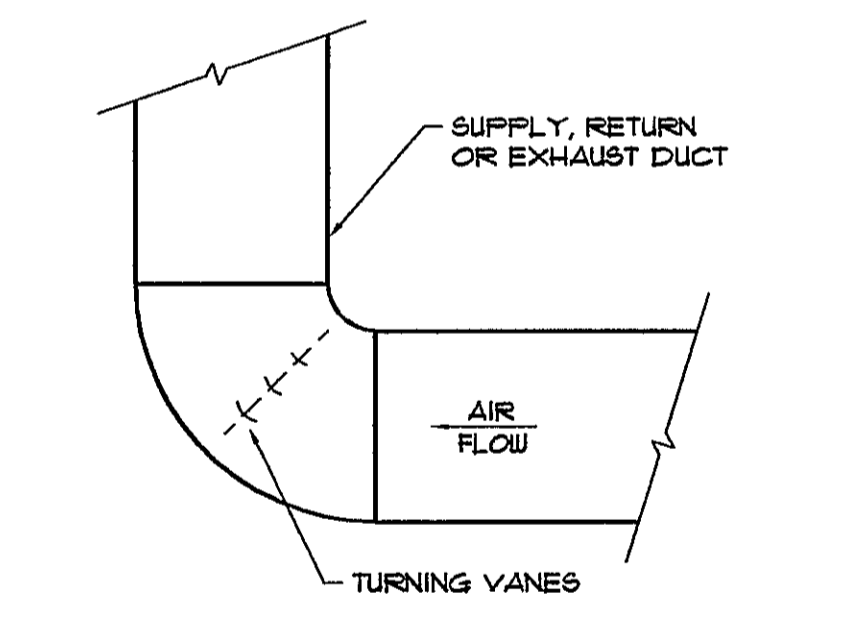


- NOTES:
1. ON UNITS UNDER 5 TONS PROVIDE FIRESTAT IN THE RETURN AIR WIRED TO SHUT DOWN THE UNIT WHEN TEMPERATURE IS EXCEEDED.
2. ON UNITS 5 TONS AND LARGER, PROVIDE A SMOKE DETECTOR IN THE SUPPLY AND THE RETURN AIR DUCTS WIRED TO SHUT DOWN THE UNIT WHEN SMOKE IS DETECTED.

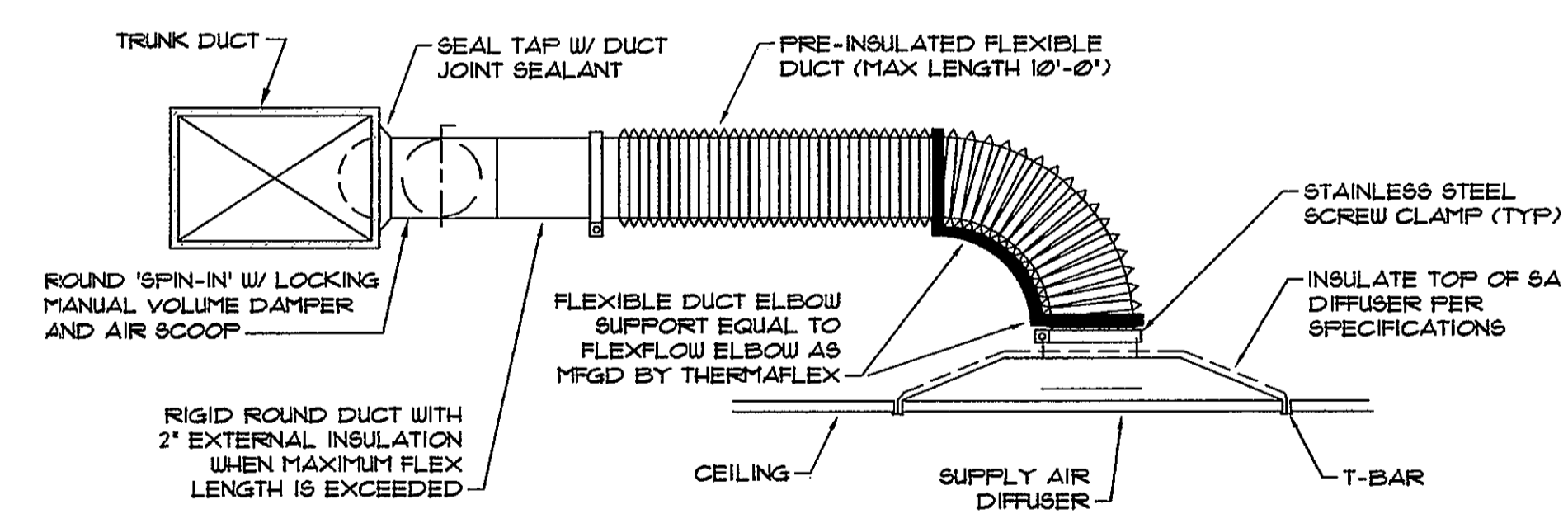
VERTICAL AIR HANDLING UNIT INSTALLATION DETAIL
NOT TO SCALE



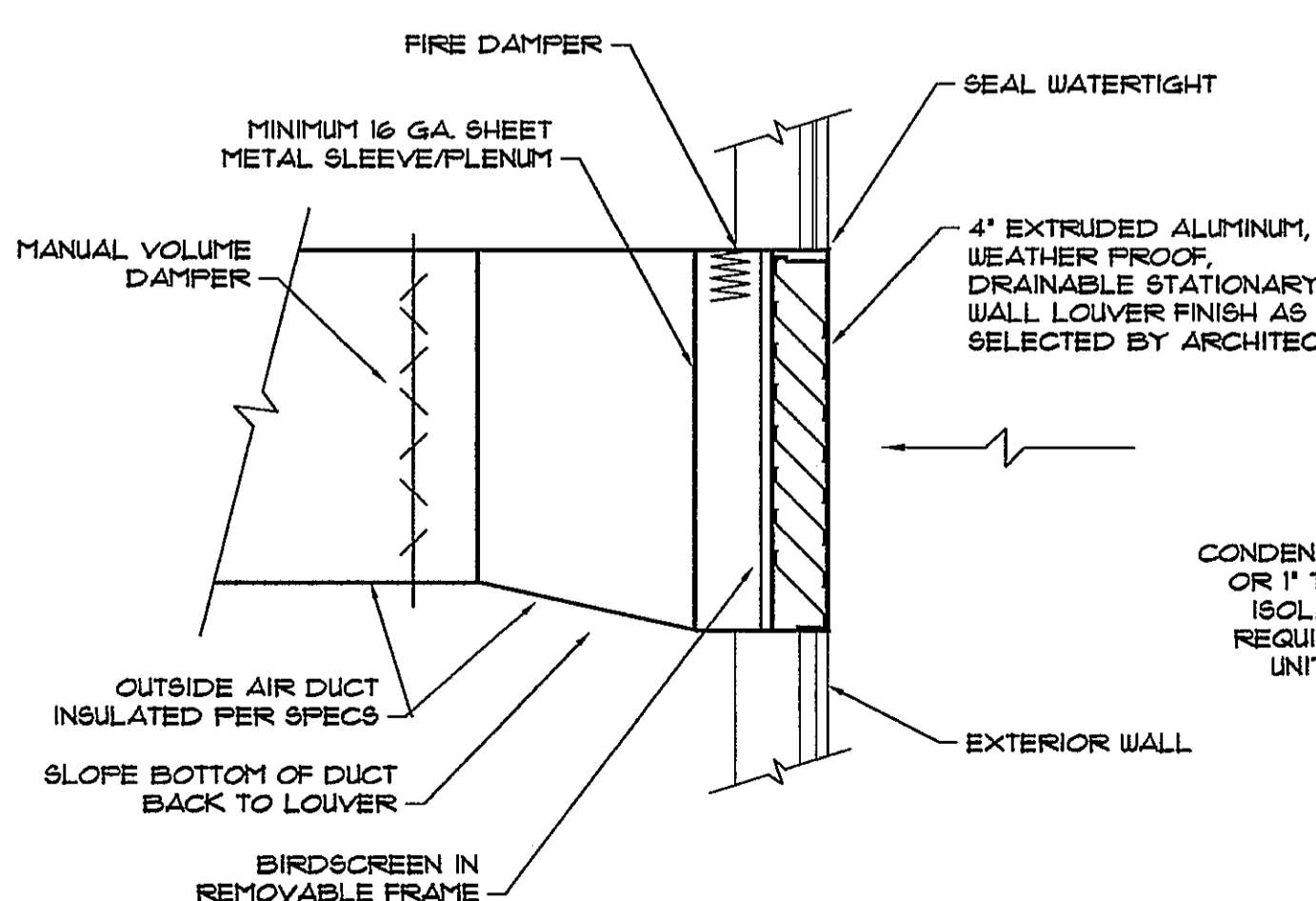
SUPPLY DUCT TAKE-OFF DETAIL
NOT TO SCALE



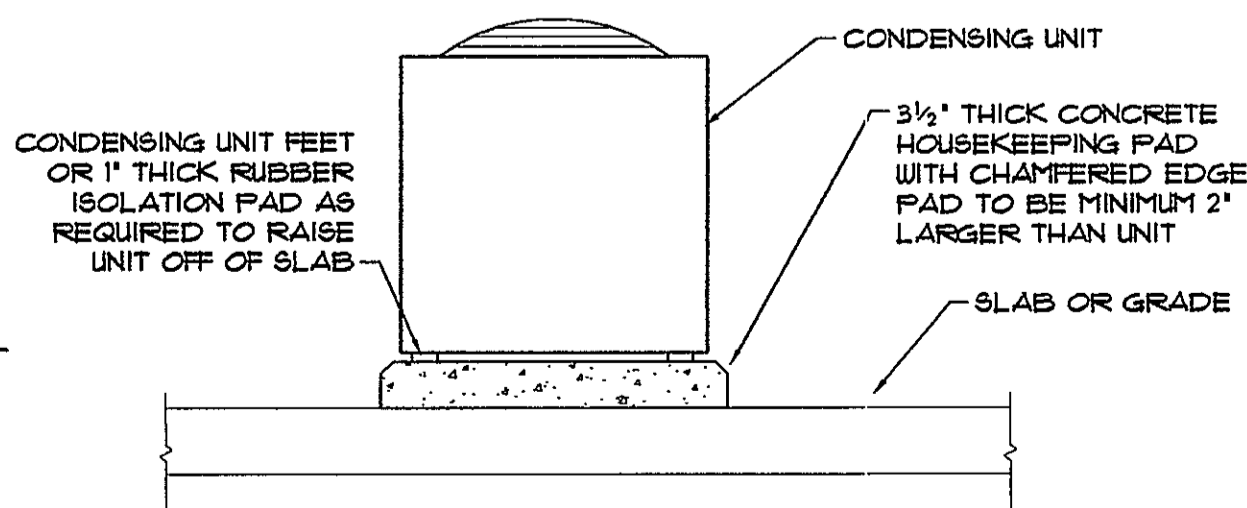
RADIUS SQUARE ELBOW DETAIL
NOT TO SCALE



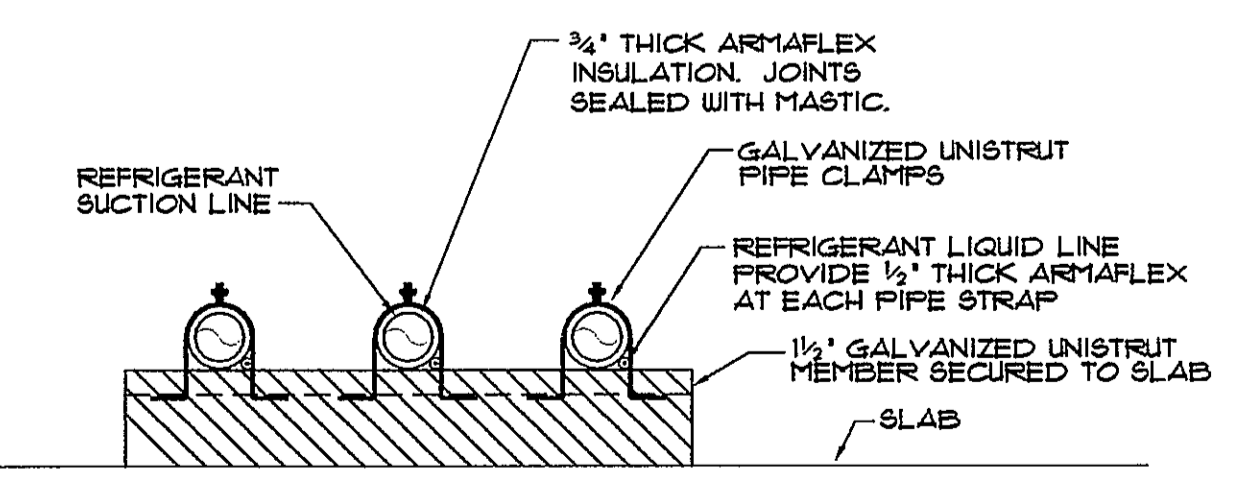
SPIN-IN & CEILING DIFFUSER DETAIL
NOT TO SCALE



DUCTED WALL LOUVER DETAIL
NOT TO SCALE







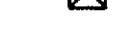


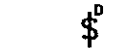
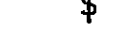














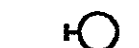




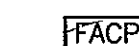







CONDENSING UNIT MOUNTING DETAIL
NOT TO SCALE



REFRIGERANT PIPE SUPPORT DETAIL
NOT TO SCALE



SYMBOL SCHEDULE:

-  LIGHTING AND RECEPTACLE PANELBOARD
-  CONDUIT RUN UNDERGROUND
-  HOMERUN TO PANEL BOARD - ARROWS INDICATE NO. OF CIRCUITS, CROSS MARKS INDICATE NO. OF WIRES WHEN MORE THAN TWO
-  DISCONNECT SWITCH
-  MOTOR STARTER
-  COMBINATION MOTOR STARTER
-  THERMAL OVERLOAD SWITCH
-  SINGLE POLE SWITCH - 20A, 120/277V, MTD, 48" AFF.
-  SINGLE POLE DIMMING SWITCH
-  3 WAY SWITCH - 20A, 120/277V, MTD, 48" AFF.
-  JUNCTION BOX - USE RAISED COVER & BLANK PANEL IN FINISHED AREAS
-  RECEPTACLE WITH GROUND FAULT INTERRUPTER
-  RECEPTACLE - DUPLEX, 20A, 1A, 120V, 3 POLES, GROUNDED
-  RECEPTACLE LOCATED ABOVE COUNTER
-  WEATHERPROOF RECEPTACLE
-  RECEPTACLE - FOURPLEX, 20A, 1A, 120V, GROUNDED
-  FLUSH MOUNTED FLOOR DATA OUTLET
-  FLUSH MTD. FLOOR DUPLEX RECEPT.
-  ELECTRIC MOTOR
-  TELEPHONE OUTLET 1-GANG J.B. W/ 3/4" C (E) STUBBED UP ABOVE CEILING W/ PULL STRING
-  2x4 FLUORESCENT LIGHTING FIXTURE
-  2x2 FLUORESCENT LIGHTING FIXTURE
-  1x4 FLUORESCENT LIGHTING FIXTURE
-  WALL MOUNTED FLUORESCENT LIGHTING FIXTURE
-  FLOURESCENT STRIP LIGHT
-  RECESSED MOUNTED INCANDESCENT/H.L.D. FIXTURE
-  WALL MOUNTED H.L.D. FIXTURE
-  WALL MOUNTED SELF-CONTAINED EMERGENCY LIGHTS
-  EXIT LIGHT
-  MICROPHONE OUTLET
-  WATER HEATER
-  FIRE ALARM CONTROL PANEL
-  SPEAKER/STROBE
-  SPEAKER/STROBE, CEILING MOUNTED
-  SMOKE DETECTOR
-  SPRINKLER SYSTEM TAMPER & FLOW SWITCHES

ELECTRICAL NOTES:

ALL WORK SHALL BE DONE IN STRICT CONFORMITY WITH THE LATEST EDITION OF NATIONAL ELECTRIC CODE, CITY BUILDING CODE, AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION AND FROM WHOM PROPER CERTIFICATES OF APPROVAL SHALL BE FURNISHED.

CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK. UPON COMPLETION CONTRACTOR SHALL FURNISH OWNER WITH A SET OF AS-BUILT DRAWINGS.

ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE UL LISTED.

ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS AND INCLUDE IN HIS BID AMOUNT, AS REQUIRED, FOR COORDINATION OF NEW SERVICE.

ELECTRICAL CONTRACTOR TO COORDINATE WITH THE MECHANICAL EQUIPMENT SUPPLIER FOR EXACT REQUIREMENTS PRIOR TO ROUGH-INS.

CONDUCTOR INSULATION SHALL BE THIN, COPPER TYPE, MOISTURE AND HEAT-RESISTANT THERMO-PLASTIC 75 DEG. C. TEMP. RATED, EXCEPT WHERE NOTED.

ALL ELECTRICAL ROUGH-INS SHOWN DRAWINGS SHALL INCLUDE AN INSULATED COPPER GROUNDING CONDUCTOR CONTAINED WITHIN THE SAME CONDUIT AS THE CIRCUIT CONDUCTORS. THE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROPERLY TERMINATED ON ONE END AT THE EQUIPMENT GROUND BUSS IN THE CORRESPONDING CIRCUIT BREAKER PANEL, AND ON THE OTHER END AT THE GROUNDING CONTACT OF A GROUNDING RECEPTACLE OR TO AN EQUIPMENT CABINET, AS APPLICABLE.

ALL EXPOSED NON-CURRENT CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, RACEWAY SYSTEM, AND THE NEUTRAL CONDUCTOR OF THE WIRING SYSTEM SHALL BE GROUNDED. THE GROUND CONNECTION SHALL BE MADE AT THE MAIN SERVICE EQUIPMENT.

ALL GROUNDING, FOR ANY PURPOSE, SHALL BE DONE IN STRICT COMPLIANCE WITH ARTICLE #250 OF NATIONAL ELECTRICAL CODE.

THIS CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC., AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS SO INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THIS CONTRACTOR AT HIS OWN EXPENSE SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE OWNER, AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.

ALL EXPOSED CONDUIT OR CONDUIT IN WET OR DAMP LOCATIONS SHALL BE RIGID GALVANIZED STEEL CONDUIT.

USE OF MC CABLE WILL BE PERMITTED WHERE CONCEALED ABOVE ACCESSIBLE CEILINGS OR IN WALLS.

ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY UNLESS OTHERWISE NOTED. ALL EXTERIOR DISCONNECT SWITCHES SHALL BE RATED NEMA 3R UNLESS OTHERWISE NOTED.

MAKE TEST WHICH MAY BE REQUIRED BY THE OWNER OR THE ARCHITECT IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING.

ALL TEST SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE IEEE AND THE NEC.

THE INSTALLATION SHALL BE TESTED FOR PERFORMANCE, GROUNDING, AND INSULATION RESISTANCE. "MEGGER" TYPE INSTRUMENT SHALL BE USED. CIRCUIT CONTINUITY AND OPERATION TESTS ON ALL EQUIPMENT FURNISHED AND/OR CONNECTED BY THE ELECTRICAL CONTRACTOR SHALL BE MADE BY HIM AFTER SUCH EQUIPMENT HAS BEEN INSTALLED.

CONTRACTOR TO COORDINATE WIRING DEVICE REQUIREMENTS WITH OWNER PROVIDED EQUIPMENT. CONTRACTOR TO MAKE NECESSARY MODIFICATIONS TO WIRING DEVICES TO MATCH PLUGS ON EQUIPMENT PRIOR TO ORDERING RECEPTACLES. WHERE REQUIRED BY CODES BUT NOT PROVIDED ON OWNER FURNISHED EQUIPMENT, CONTRACTOR SHALL PROVIDE PLUGS ON SAID EQUIPMENT.

ALL LIGHT FIXTURES INDICATED WITH THE DESIGNATION "EM" ARE TO BE WIRED SO THAT POWER REMAINS CONSTANT TO THE BATTERY WHEN THE LIGHT SWITCH IS IN THE OFF POSITION.

LOCATION OF CONNECTION POINTS OF MECHANICAL EQUIPMENT AND OWNER SUPPLIED EQUIPMENT ARE APPROXIMATE. EXACT LOCATION OF CONNECTION POINTS SHALL BE DETERMINED BASED ON APPROVED SHOP DRAWINGS ARE AS DIRECTED BY OWNER SUPPLIED EQUIPMENT VENDOR PRIOR TO ROUGHIN.

DO NOT LAY ANY SPECIAL SYSTEMS CABLING ON CEILING GRID. DO NOT USE SUPPORTS FOR ANY WIRING METHOD SUPPORTS.

ALL FUSES ON THIS PROJECT TO BE OF THE SAME MANUFACTURER. ALL FUSES IN EACH INDIVIDUAL DISCONNECT SWITCHES SHALL BE OF THE SAME IDENTICAL TYPE, AMPERAGE AND VOLTAGE RATING. ALL FUSES SHALL BE INSTALLED RIGHT SIDE UP, WITH THE AMPERAGE LABEL FACING OUT. FUSES OUTDOORS OR IN WET LOCATIONS SHALL BE INSTALLED USING INHIBITING COMPOUND (PENETROX OR EQUAL) IN ALL FUSE HOLDERS.

LABEL ALL ELECTRICAL EQUIPMENT WITH PANEL DESIGNATION, CIRCUIT NUMBER AND VOLTAGE. LABELING TO BE ACCOMPLISHED BY ENGRAVING FACEPLATES. SUBMIT METHOD OF ENGRAVING, STYLE AND HEIGHT FOR APPROVAL.

CONTRACTOR TO PROVIDE NEW TYPEWRITTEN DIRECTORIES IN ALL PANELBOARDS.

MINIMUM CONDUIT SIZE SHALL BE 1/2" C. UNLESS OTHERWISE NOTED.

WIRING DEVICE COLOR TO BE SELECTED BY OWNER.

FACEPLATES ON ALL WIRING DEVICES SHALL BE NYLON UNLESS OTHERWISE NOTED. COLOR TO BE SELECTED BY ARCHITECT.

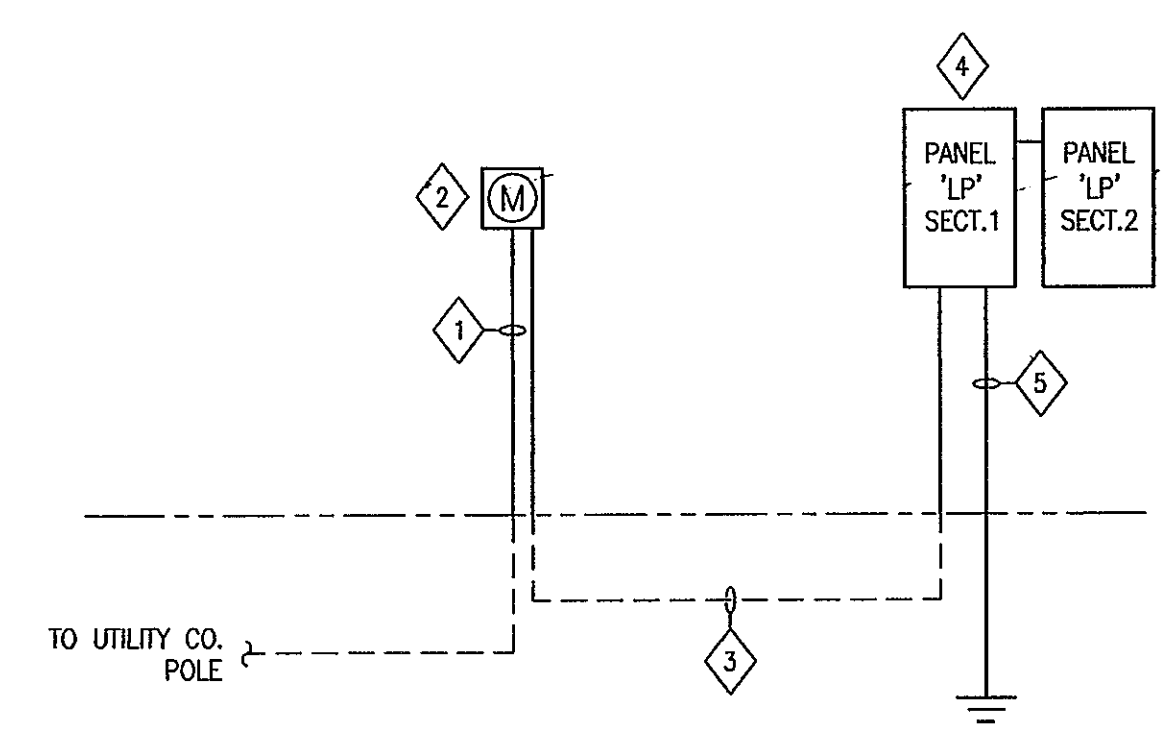
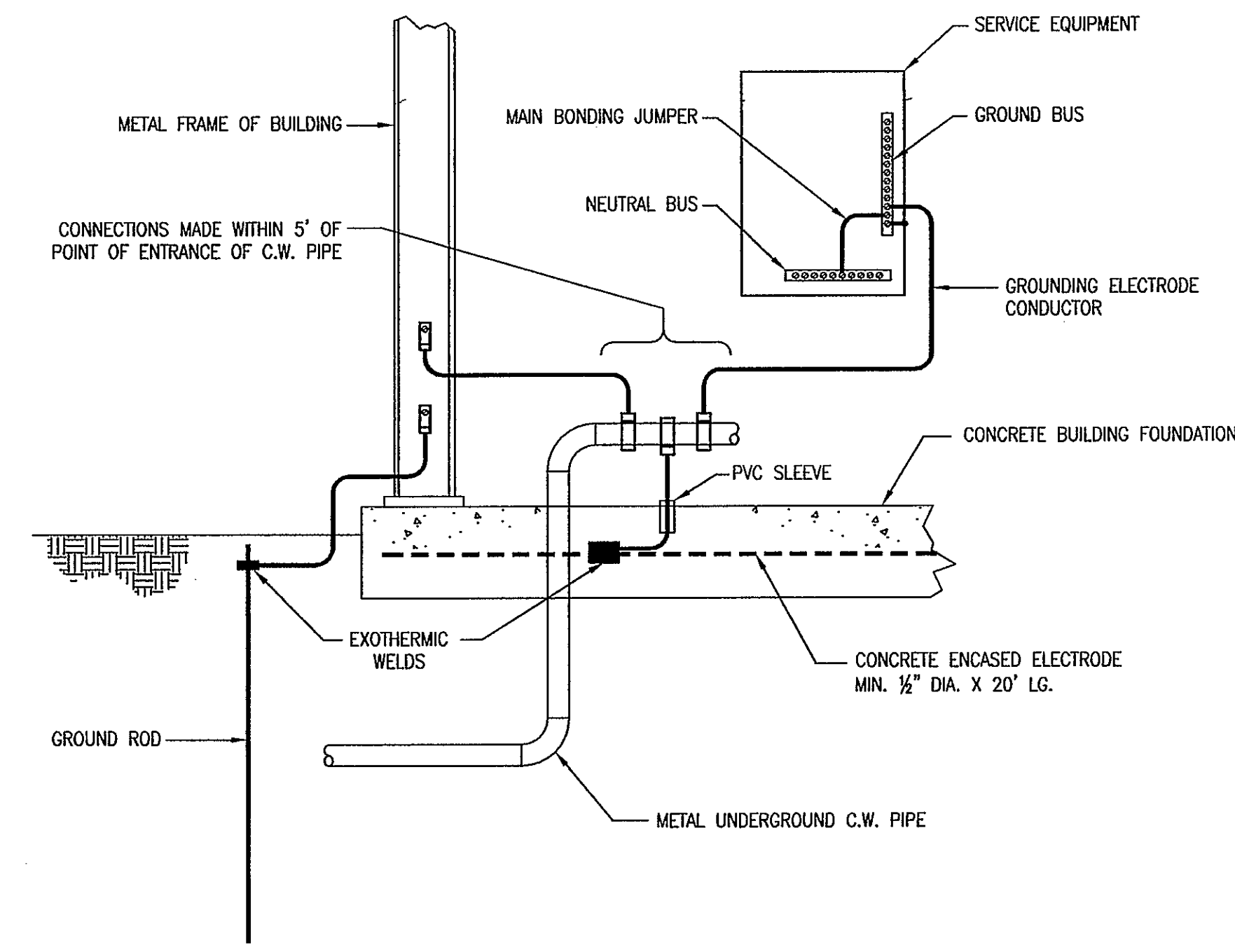
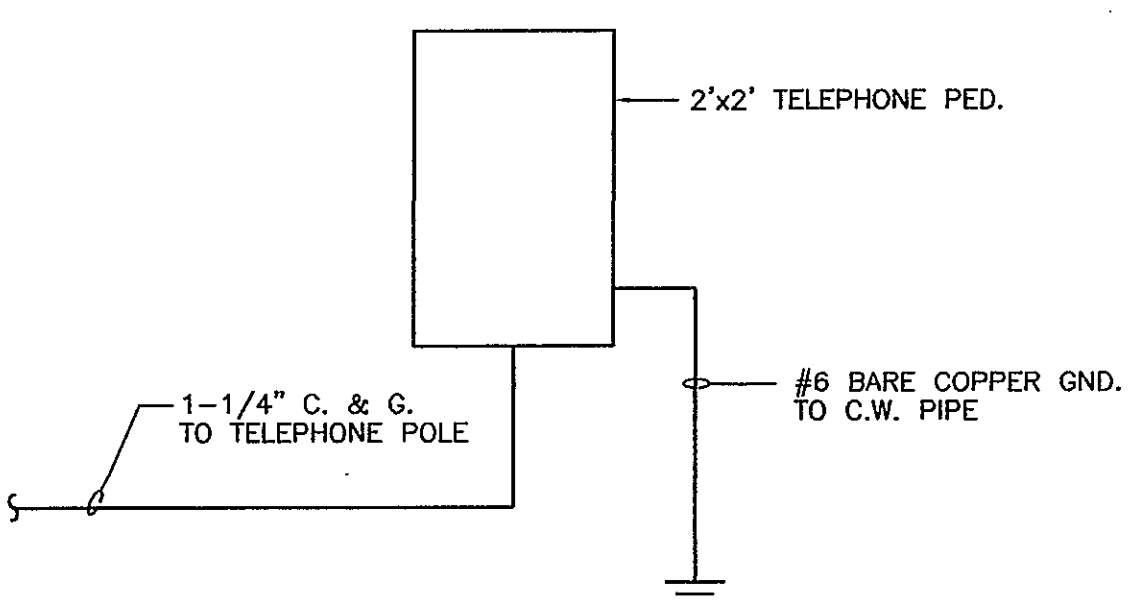
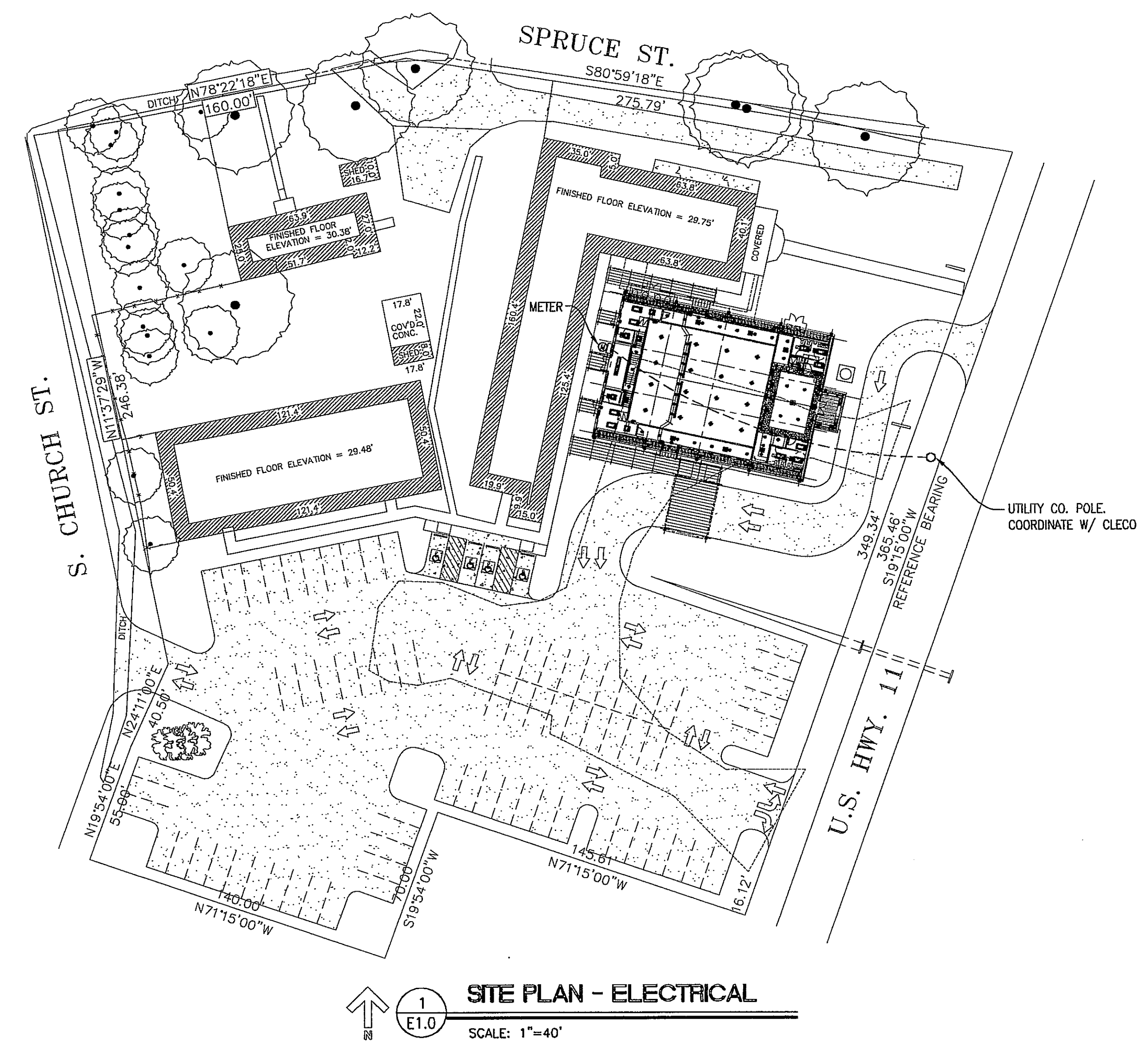
ALL CONDUCTORS SHALL BE MINIMUM OF #12 AWG COPPER CONDUCTOR UNLESS OTHERWISE NOTED.

RECEPTACLES SHALL BE SPECIFICATION GRADE 120V, 20AMP.

LIGHT SWITCHES SHALL BE SPECIFICATION GRADE AND RATED FOR 120/277V, 20A.

ABBREVIATIONS

- A AMPS
- AFF ABOVE FINISHED FLOOR
- AIC AMPERE INTERRUPTING CAPACITY
- BLDG BUILDING
- C CONDUIT
- CO CONDUIT ONLY
- CKT CIRCUIT
- DISC SW DISCONNECT SWITCH
- C (E) EMPTY CONDUIT
- EMT ELECTRICAL METAL TUBING
- EW EACH WAY
- EWC ELECTRIC WATER COOLER
- F FUSE, FUSIBLE
- FACP FIRE ALARM CONTROL PANEL
- FL FLOOR
- GFI GROUND FAULT INTERRUPTOR
- GFS GROUND FAULT SENSOR
- GND GROUND
- HP HORSEPOWER
- KW KILOWATT
- KVA KILOVOLTAMPERES
- MCB MAIN CIRCUIT BREAKER
- MH or M/H MANHOLE
- MLO MAIN LUGS ONLY
- MT MOUNT
- MTD MOUNTED
- MTR MOTOR
- NF NON-FUSED
- NTS NOT TO SCALE
- PVC POLYVINYL CHLORIDE
- REC, RECPT RECEPTACLE
- RGS RIGID GALVANIZED STEEL
- TTB TELEPHONE TERMINAL BOARD
- TYP TYPICAL
- UG UNDERGROUND
- UON UNLESS OTHERWISE NOTED
- WP WEATHERPROOF

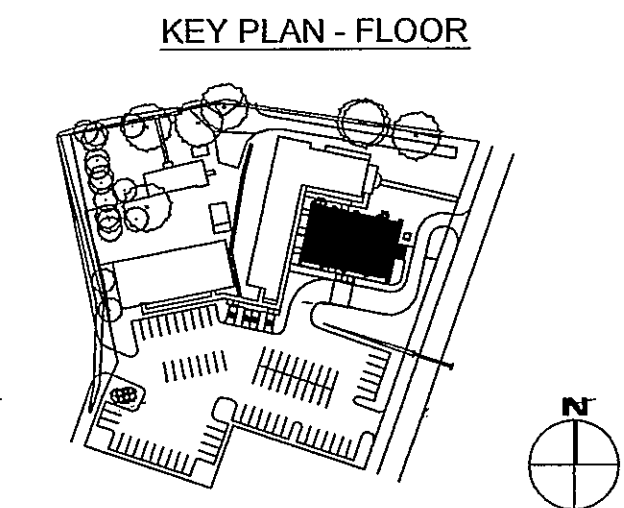


- SPECIFIC NOTES:**
- 1 ROUTE 2-3/4" (E) & 1-3/4" (E) SPARE TO UTILITY CO. POLE FOR SERVICE FEEDER BY CLECO. COORDINATE WITH CLECO.
 - 2 UTILITY CO. METER. COORDINATE WITH OWNER PRIOR TO ROUGH-IN.
 - 3 2 SETS OF 3/4" C, EACH WITH 4-300KCMIL & 1-3/4" (E) SPARE.
 - 4 120/208V, 3Ø, 4W, 2-SECTION, PANEL '1P'. SEE PANEL SCHEDULE.
 - 5 1#2/0 BARE COPPER GROUND TO 3/4"x10' COPPERWELD GROUND ROD, BLDG. STEEL & TO BLDG. C.W. PIPE.

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FIRST BAPTIST CHURCH PEARL RIVER
A NEW CHURCH BUILDING FOR

FIRST BAPTIST CHURCH
64541 HIGHWAY 3081
PEARL RIVER, LOUISIANA 70452



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Issue	Date	Remark

ELECTRICAL NOTES & SYMBOLS

CONSTRUCTION DOCUMENTS

Job No	209073.02	Sheet No	
Drawn by	BH		
Checked by	SJ		
Date	18.JAN.11		

E1.0

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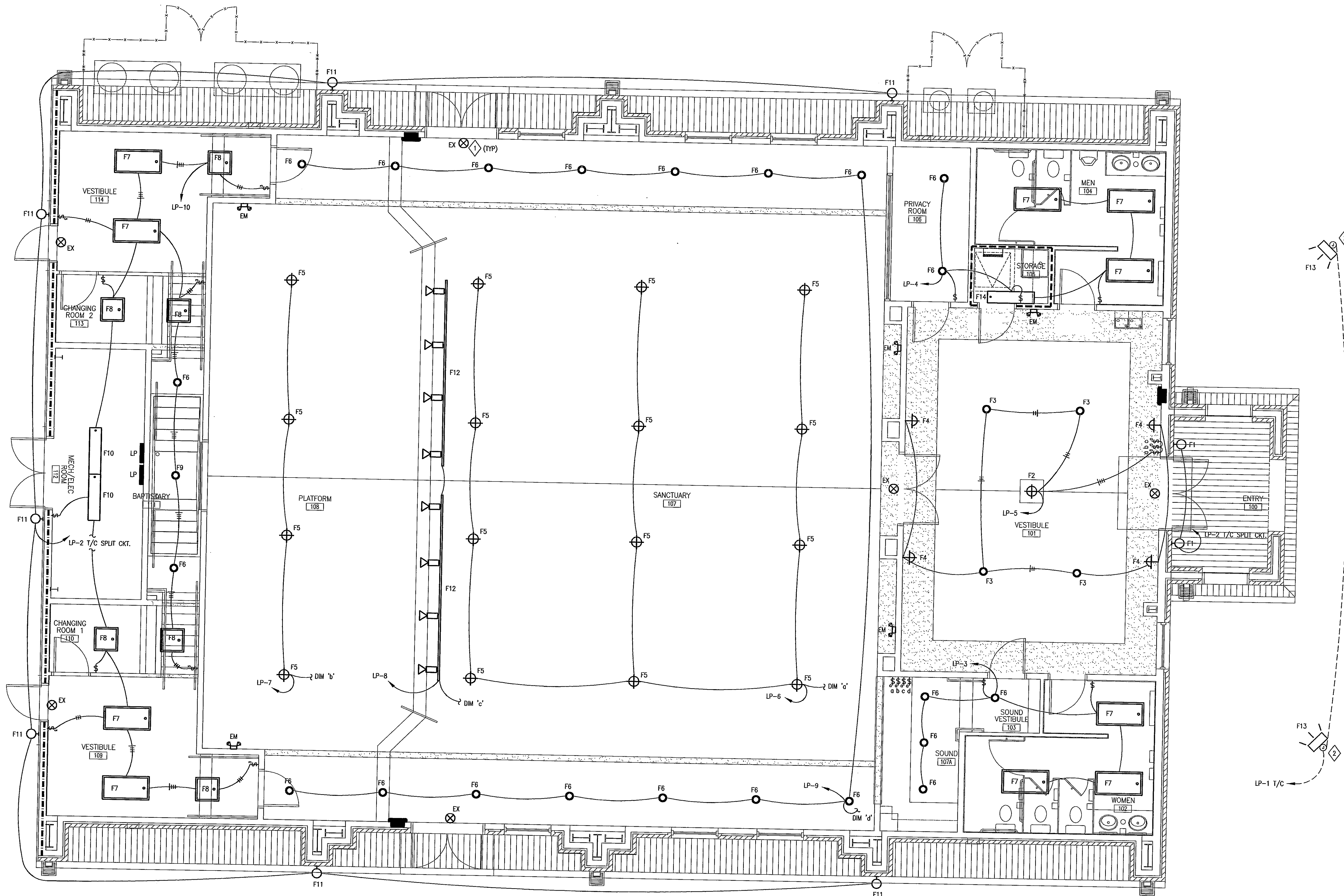
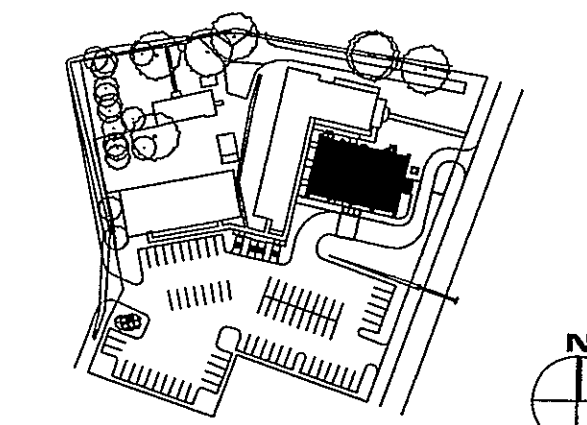
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**FIRST BAPTIST
CHURCH
PEARL
RIVER**

A NEW CHURCH BUILDING FOR

FIRST BAPTIST CHURCH
64541 HIGHWAY 3081
PEARL RIVER, LOUISIANA 70452

KEY PLAN - FLOOR



1 FLOOR PLAN - LIGHTING
E2.0
SCALE: 1/4" = 1'-0"

- SPECIFIC NOTES:**
- 1 CONNECT ALL EXIT AND EMERGENCY LIGHTS TO NEAREST UNSWITCHED LIGHTING CIRCUIT.
 - 2 LOCATE & POSITION FLOODLIGHTS TO ILLUMINATE STEEPLE TOWER. COORDINATE WITH OWNER.

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Issue	Date	Remark

FLOOR PLAN - LIGHTING

CONSTRUCTION DOCUMENTS

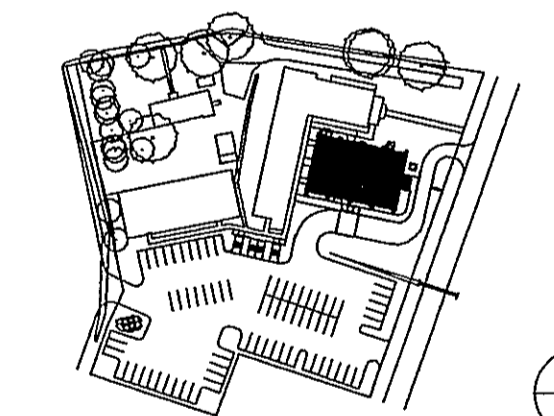
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Drawn by	BH		
Checked by	SJ		
Date	18.JAN.11		

**FIRST BAPTIST
CHURCH
PEARL
RIVER**

A NEW CHURCH BUILDING FOR

FIRST BAPTIST CHURCH
64541 HIGHWAY 3081
PEARL RIVER, LOUISIANA 70452

KEY PLAN - FLOOR



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Issue	Date	Remark

FLOOR PLAN - POWER & SPECIAL SYSTEMS

CONSTRUCTION DOCUMENTS

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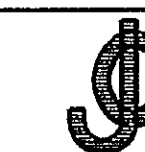
LOAD CALCULATIONS:

GENERAL LIGHTING	5.6kVA
TRACK LIGHTING	4.8kVA
RECEPTACLES	9.0kVA
WATER HEATER	9.0kVA
HEATING	126kVA
CONNECTED LOAD	154.4kVA

DEMAND LOAD:	
LIGHTING AT 100%	10.4kVA
RECEPTACLES AT 50%	4.5kVA
WATER HEATER AT 100%	9.0kVA
HEATING AT 100%	126kVA
TOTAL	149.9kVA

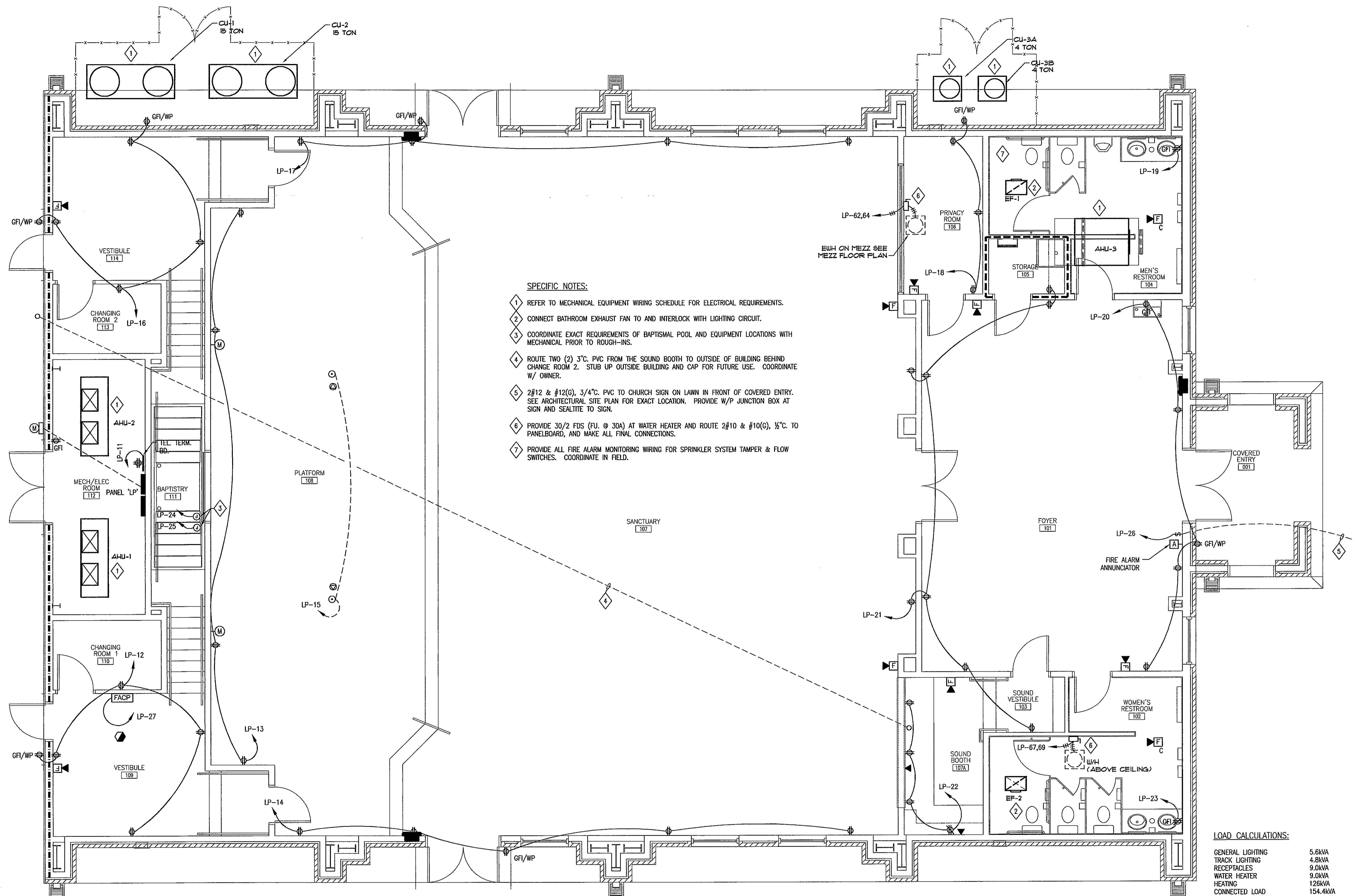
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NEW SERVICE SIZED AT 120/208V, 3ø, 4W, 600A.



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SPECIFIC NOTES:

- 1 REFER TO MECHANICAL EQUIPMENT WIRING SCHEDULE FOR ELECTRICAL REQUIREMENTS.
- 2 CONNECT BATHROOM EXHAUST FAN TO AND INTERLOCK WITH LIGHTING CIRCUIT.
- 3 COORDINATE EXACT REQUIREMENTS OF BAPTISMAL POOL AND EQUIPMENT LOCATIONS WITH MECHANICAL PRIOR TO ROUGH-INS.
- 4 ROUTE TWO (2) 3" PVC FROM THE SOUND BOOTH TO OUTSIDE OF BUILDING BEHIND CHANGE ROOM 2. STUB UP OUTSIDE BUILDING AND CAP FOR FUTURE USE. COORDINATE W/ OWNER.
- 5 2#12 & #12(G), 3/4" PVC TO CHURCH SIGN ON LAWN IN FRONT OF COVERED ENTRY. SEE ARCHITECTURAL SITE PLAN FOR EXACT LOCATION. PROVIDE W/P JUNCTION BOX AT SIGN AND SEALTITE TO SIGN.
- 6 PROVIDE 30/2 FDS (FU @ 30A) AT WATER HEATER AND ROUTE 2#10 & #10(G), 1/2" C. TO PANELBOARD, AND MAKE ALL FINAL CONNECTIONS.
- 7 PROVIDE ALL FIRE ALARM MONITORING WIRING FOR SPRINKLER SYSTEM TAMPER & FLOW SWITCHES. COORDINATE IN FIELD.

MECHANICAL EQUIPMENT WIRING SCHEDULE

TAG	SAFETY SWITCH	CONDUCTORS	CIRCUIT	REMARKS
AHU-1	200/3 FDS FU. @175A	3#2/0 & #6(G) 2" C.	LP-43,45,47	
AHU-2	200/3 FDS FU. @175A	3#2/0 & #6(G) 2" C.	LP-44,46,48	
AHU-3	100/3 FDS FU. @85A	3#4 & #8(G) 1" C.	LP-49,51,53	
CU-1	100/3 NEMA 3R FDS FU. @80A	3#4 & #8(G) 1" C.	LP-50,52,54	
CU-2	100/3 NEMA 3R FDS FU. @80A	3#4 & #8(G) 1" C.	LP-55,57,59	
CU-3A	30/3 NEMA 3R FDS FU. @30A	3#10 & #10(G) 1/2" C.	LP-56,58,60	
CU-3B	30/3 NEMA 3R FDS FU. @30A	3#10 & #10(G) 1/2" C.	LP-61,63,65	

1
E3.0

FLOOR PLAN - POWER & SPECIAL SYSTEMS

SCALE: 1/4" = 1'-0"

