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SEAL

PROJECT # 6203.00

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PROJECT TITLE

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DRAWING TITLE

MECHANICAL
DEMOLITION PLANS

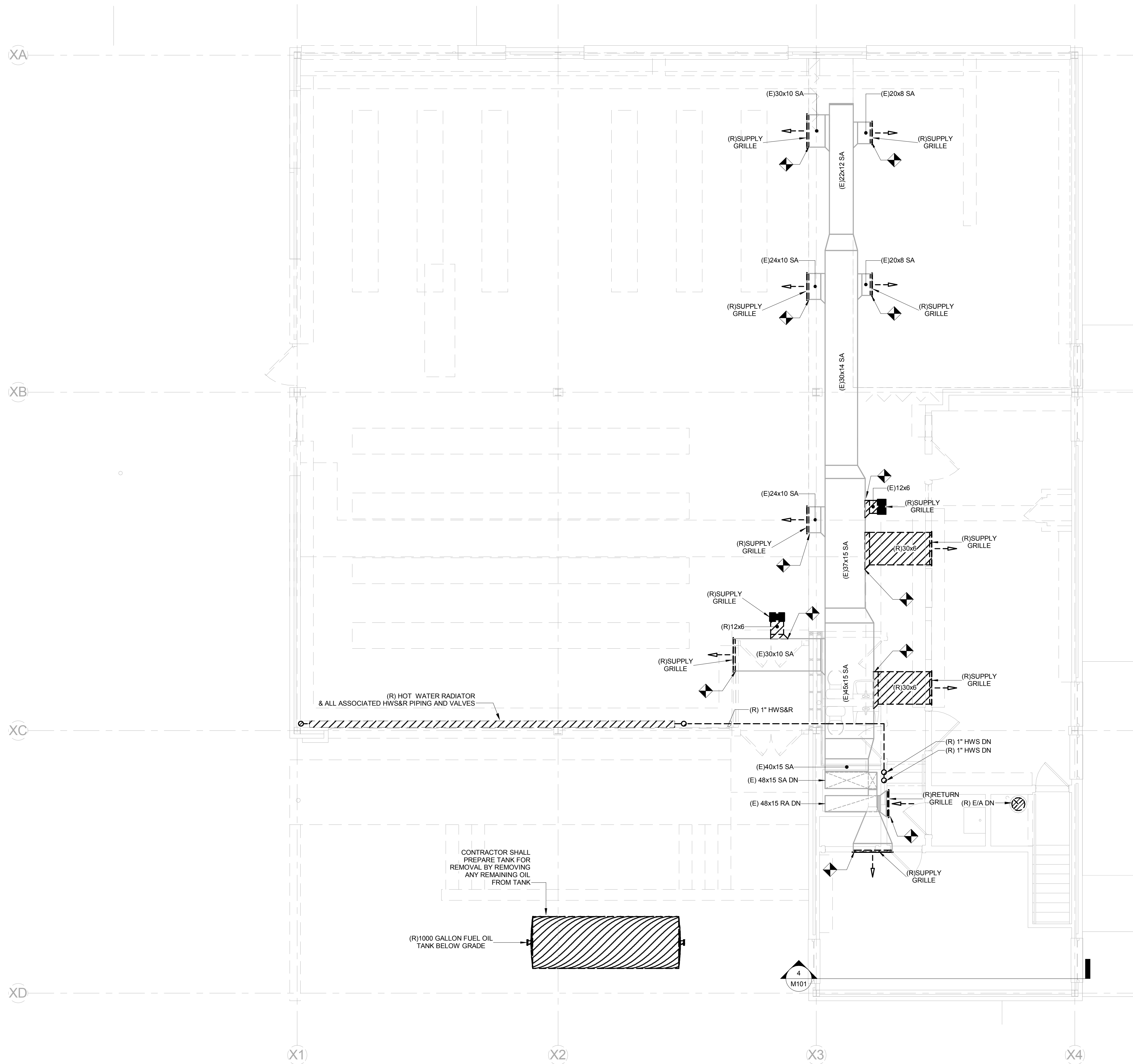
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SYMBOL	DATE	DESCRIPTION
	9-28-2018	DD SUBMISSION
	10-31-2018	50% CD SUBMISSION
	1-11-2019	100% CD SUBMISSION
	6-21-2019	FOR BIDS AND PERMITS ONLY

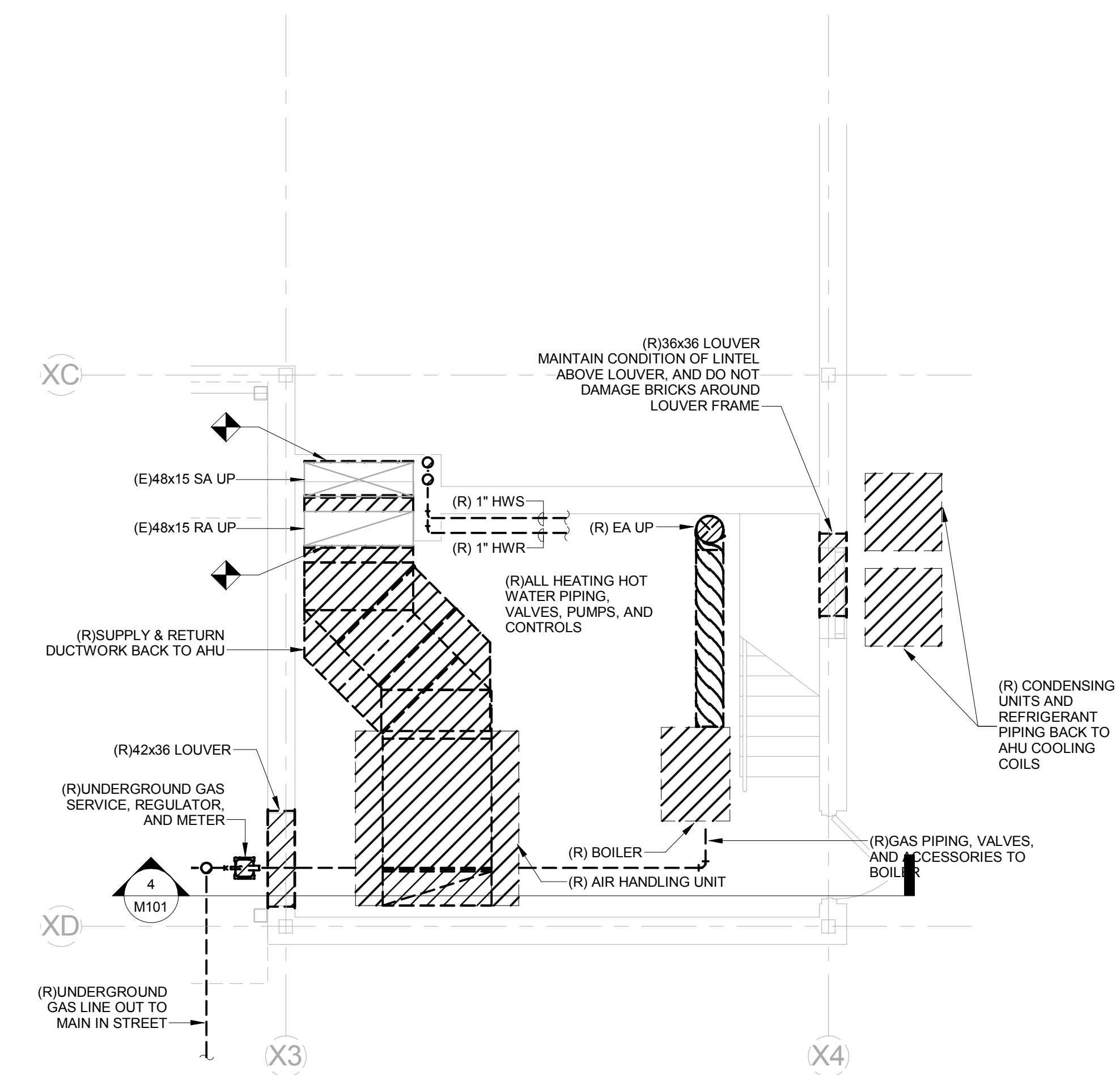
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MD101

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1 LEVEL 1 OVERALL HVAC PLAN
MD101 1/4" = 1'-0"



2 BASEMENT HVAC PLAN
MD101 1/4" = 1'-0"

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BASEMENT & LEVEL 1 MECHANICAL PLANS

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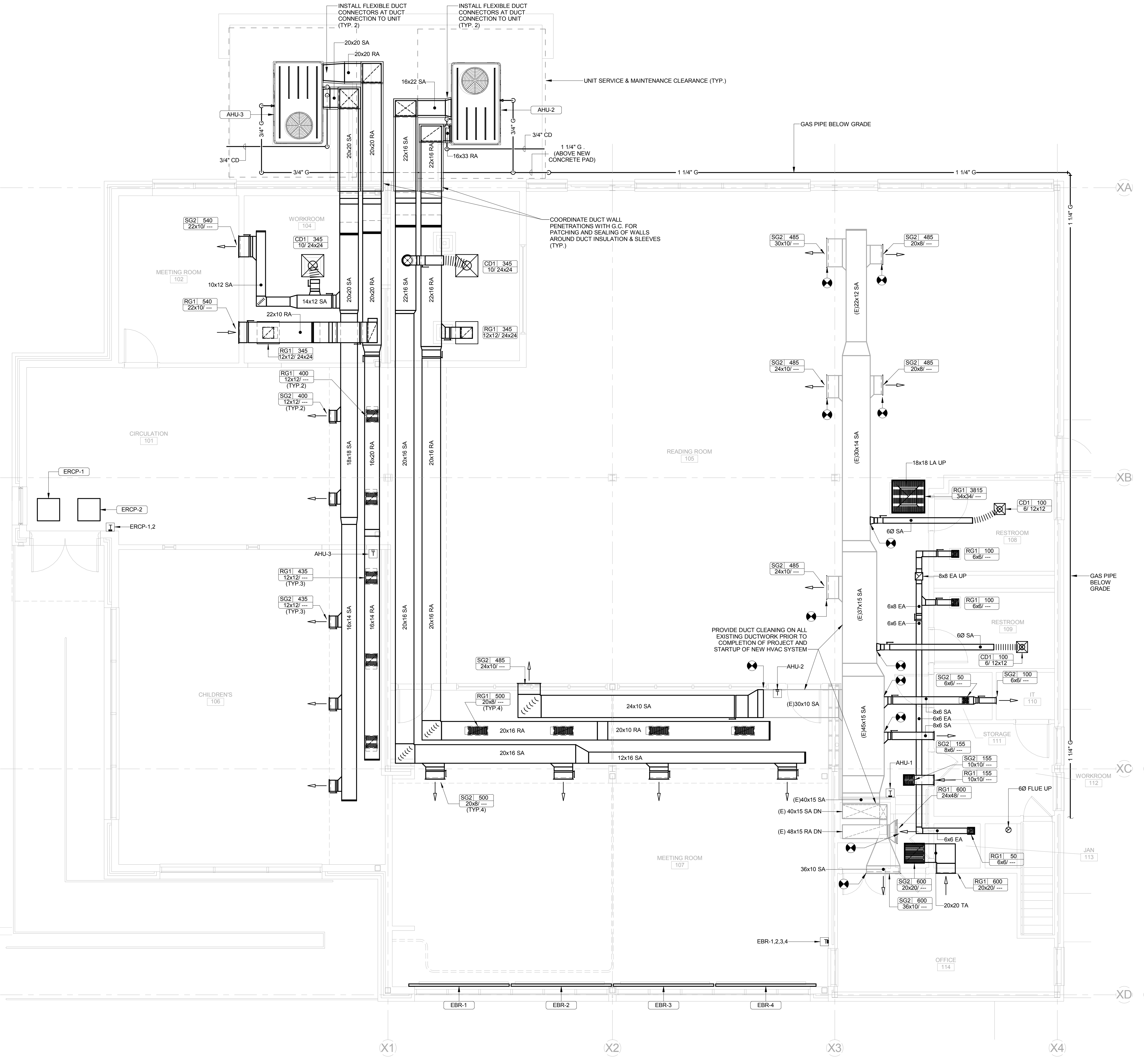
M101

- #### DUCT CONSTRUCTION & INSULATION
- DUCTWORK SHALL BE G-90, HOT DIPPED, GALVANIZED SHEET METAL BRACED AND SEALED PER SMACNA AND LOCAL CODES.
 - INSTALL 2" FLEXIBLE GLASS FIBER BATT INSULATION WITH FSK VAPOR BARRIER JACKET ON THE FOLLOWING SYSTEMS:
 - SUPPLY AIR DUCTS
 - EXHAUST AIR DUCTS WITHIN 10 FT OF EXTERIOR OPENINGS
 - OUTDOOR AIR DUCTS
 - FINISH JOINTS BETWEEN INSULATION WITH VAPOR BARRIER TAPE.
 - INSTALL 1/2" - 3 LB. MINIMUM DUCT LINER INSULATION, WITH ANTI-MICROBIAL AGENT BONDED TO THE AIR SIDE FACE OF LINER, ON THE FOLLOWING SYSTEMS:
 - RETURN AIR DUCTS
 - TRANSFER AIR DUCTS
 - DIMENSIONS NOTED ON FLOOR PLANS ARE INSIDE CLEAR DIMENSIONS.
 - CONTINUE INSULATION THROUGH WALLS, SLEEVES, HANGERS, AND OTHER DUCT PENETRATIONS. INSULATE ENTIRE SYSTEMS INCLUDING FITTINGS, JOINTS, FLANGES, DAMPERS, AND FLEXIBLE CONNECTIONS.

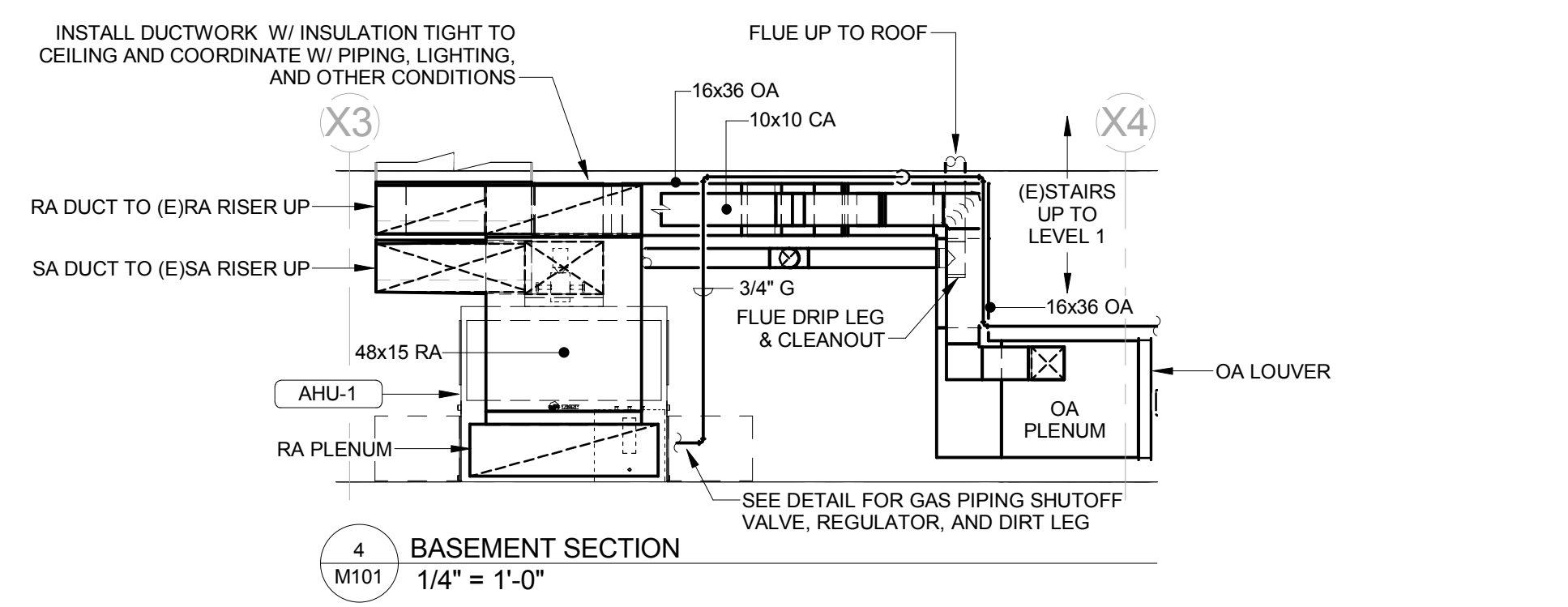
PIPE INSULATION

- INSTALL GLASS FIBER INSULATION WITH VAPOR BARRIER JACKET ON PIPING SYSTEMS ACCORDING TO THE TABLE BELOW.
- FINISH JOINTS BETWEEN INSULATION WITH VAPOR BARRIER TAPE.
- CONTINUE INSULATION THROUGH WALLS, SLEEVES, HANGERS, AND OTHER PIPE PENETRATIONS. INSULATE ENTIRE SYSTEMS INCLUDING FITTINGS, VALVES, UNIONS, FLANGES, STRAINERS, FLEXIBLE CONNECTIONS, AND PUMP BODIES.

SYSTEM TYPE	MINIMUM PIPE INSULATION THICKNESS (INCHES)			
	NOMINAL PIPE OR TUBE SIZE (INCHES)	< 1	1 TO 1 1/2	> 1 1/2
COOLING COIL		0.5	0.5	1.0
CONDENSATE DRAIN				



1 LEVEL 1 OVERALL HVAC PLAN
1/4" = 1'-0"



2 BASEMENT HVAC PLAN
1/4" = 1'-0"

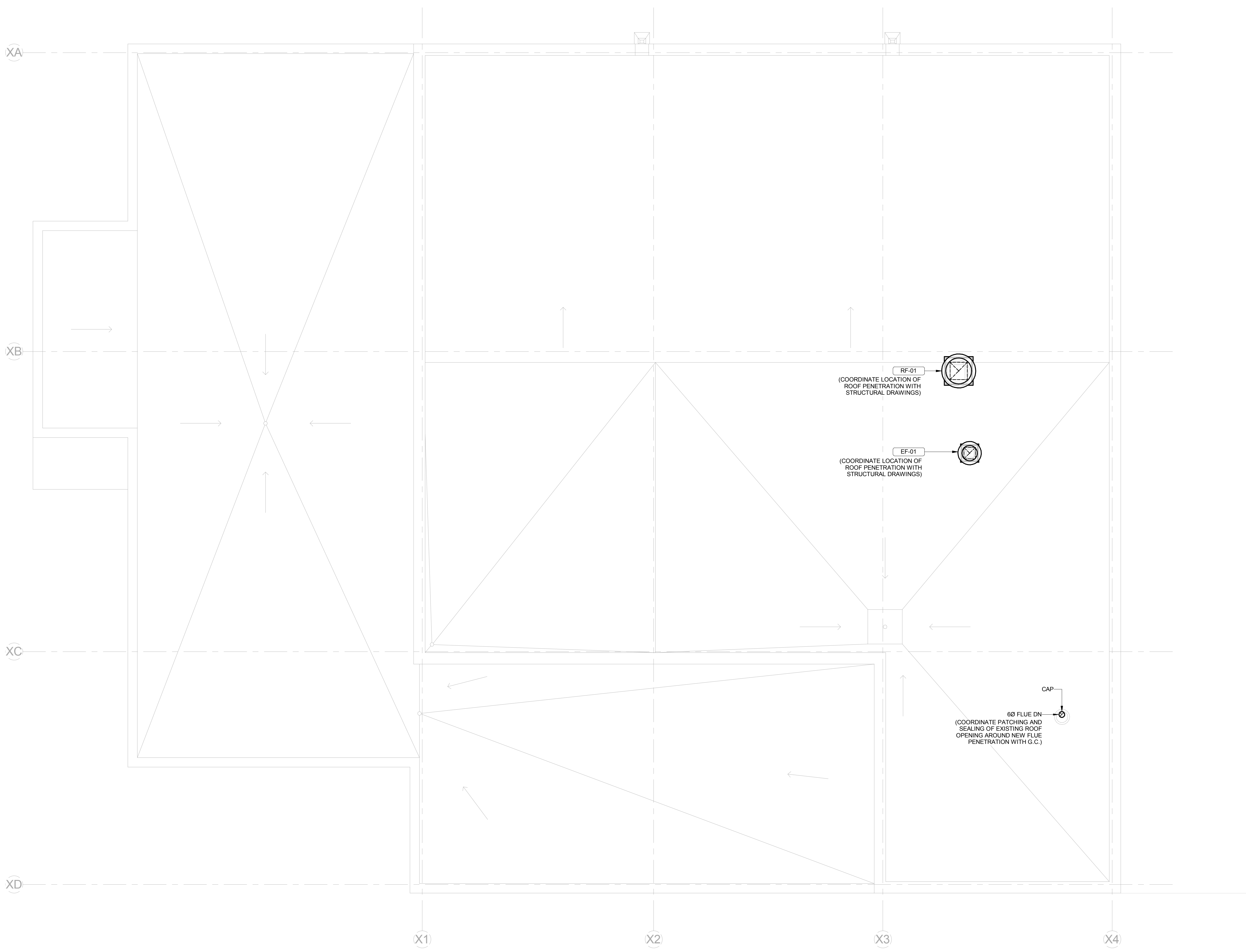
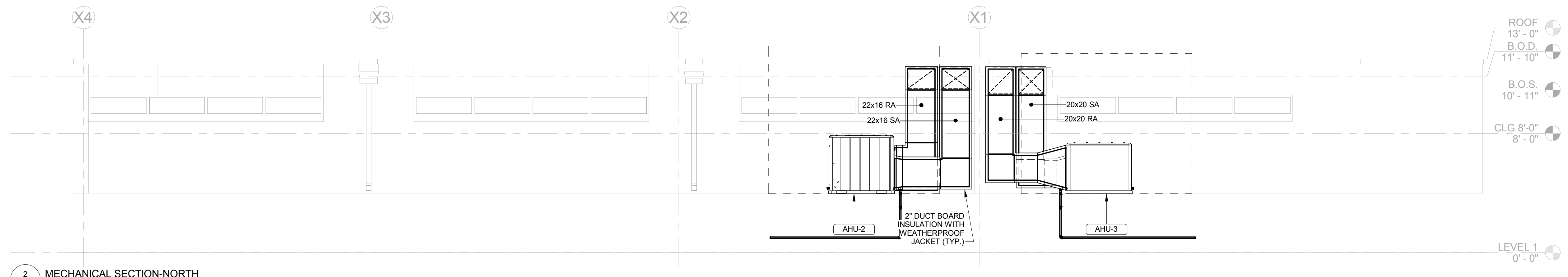
- INSTALL THE FOLLOWING FOR AHU-1:
- REFRIGERANT PIPING W/ INSULATION & VAPOR BARRIER JACKET TO/FROM CU-1, SIZED PER MFG. REQ.
 - 3/4" COPPER CONDENSATE DRAIN PIPING TO (E)FLOOR DRAIN
 - 8" FLUE FROM GAS FURNACE SECTION UP THROUGH EXISTING CHASE FROM (R)BOILER FLUE
 - 10x10 COMBUSTION AIR INTAKE FROM GAS FURNACE SECTION TO OA PLENUM

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DRAWING TITLE

MECHANICAL ROOF PLAN

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REVISIONS

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	9-28-2018	DD SUBMISSION
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M102

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1 ROOF MECHANICAL PLAN
 M102 1/4" = 1'-0"

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**BASEMENT AND LEVEL
1 PLUMBING
DEMOLITION PLANS**

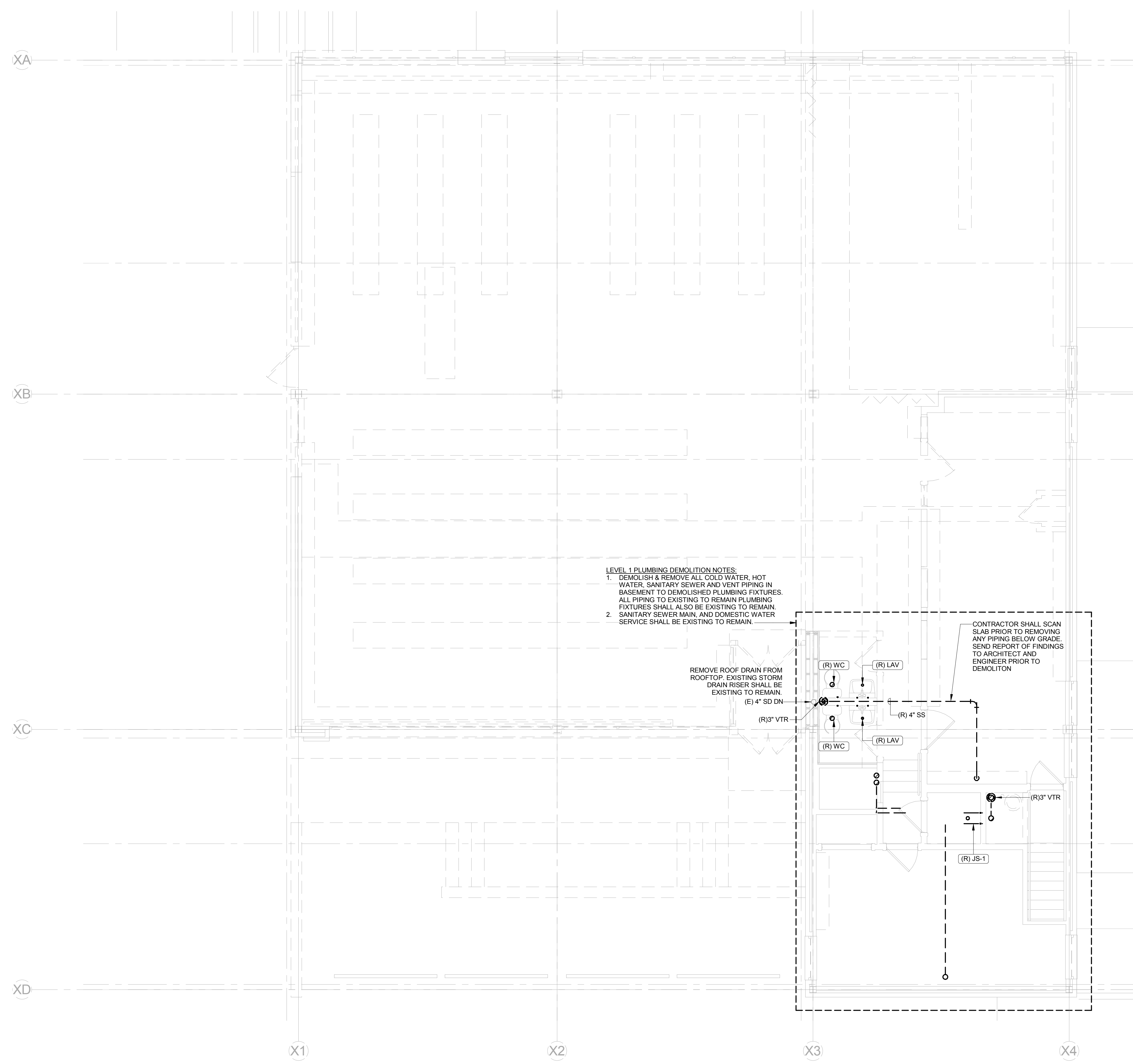
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PD101

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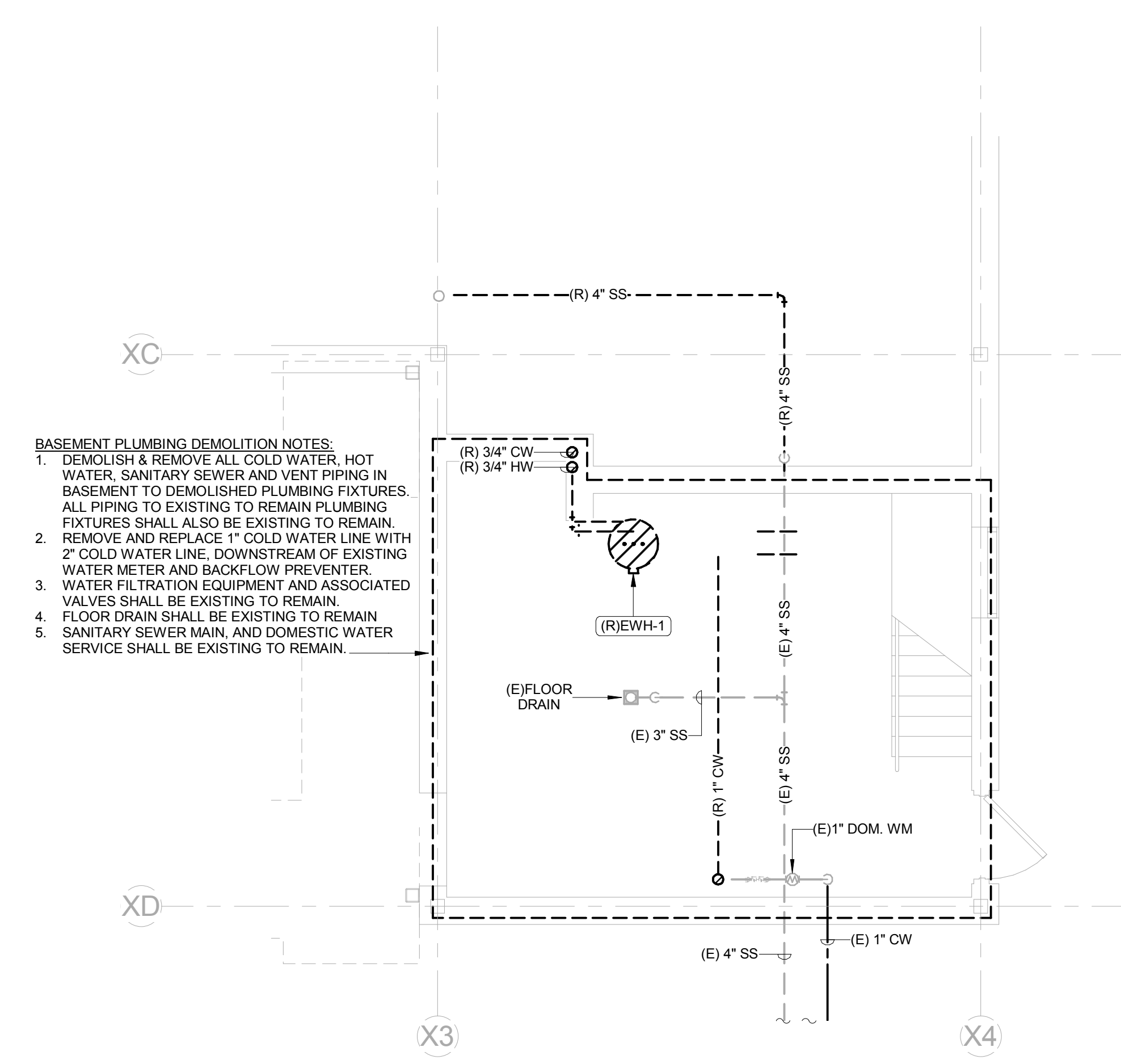


LEVEL 1 PLUMBING DEMOLITION NOTES:
1. DEMOLISH & REMOVE ALL COLD WATER, HOT WATER, SANITARY SEWER AND VENT PIPING IN BASEMENT TO DEMOLISHED PLUMBING FIXTURES. ALL PIPING TO EXISTING TO REMAIN PLUMBING FIXTURES SHALL ALSO BE EXISTING TO REMAIN.
2. SANITARY SEWER MAIN, AND DOMESTIC WATER SERVICE SHALL BE EXISTING TO REMAIN.

CONTRACTOR SHALL SCAN SLAB PRIOR TO REMOVING ANY PIPING BELOW GRADE. SEND REPORT OF FINDINGS TO ARCHITECT AND ENGINEERS PRIOR TO DEMOLITION

REMOVE ROOF DRAIN FROM ROOFTOP. EXISTING STORM DRAIN RISER SHALL BE EXISTING TO REMAIN.
(E) 4\"/>

1 LEVEL 1 PLUMBING DEMOLITION PLAN
1/4\"/>



BASEMENT PLUMBING DEMOLITION NOTES:
1. DEMOLISH & REMOVE ALL COLD WATER, HOT WATER, SANITARY SEWER AND VENT PIPING IN BASEMENT TO DEMOLISHED PLUMBING FIXTURES. ALL PIPING TO EXISTING TO REMAIN PLUMBING FIXTURES SHALL ALSO BE EXISTING TO REMAIN.
2. REMOVE AND REPLACE 1\"/>

2 BASEMENT PLUMBING DEMOLITION PLAN
1/4\"/>

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**PLUMBING DOMESTIC
WATER PLANS**

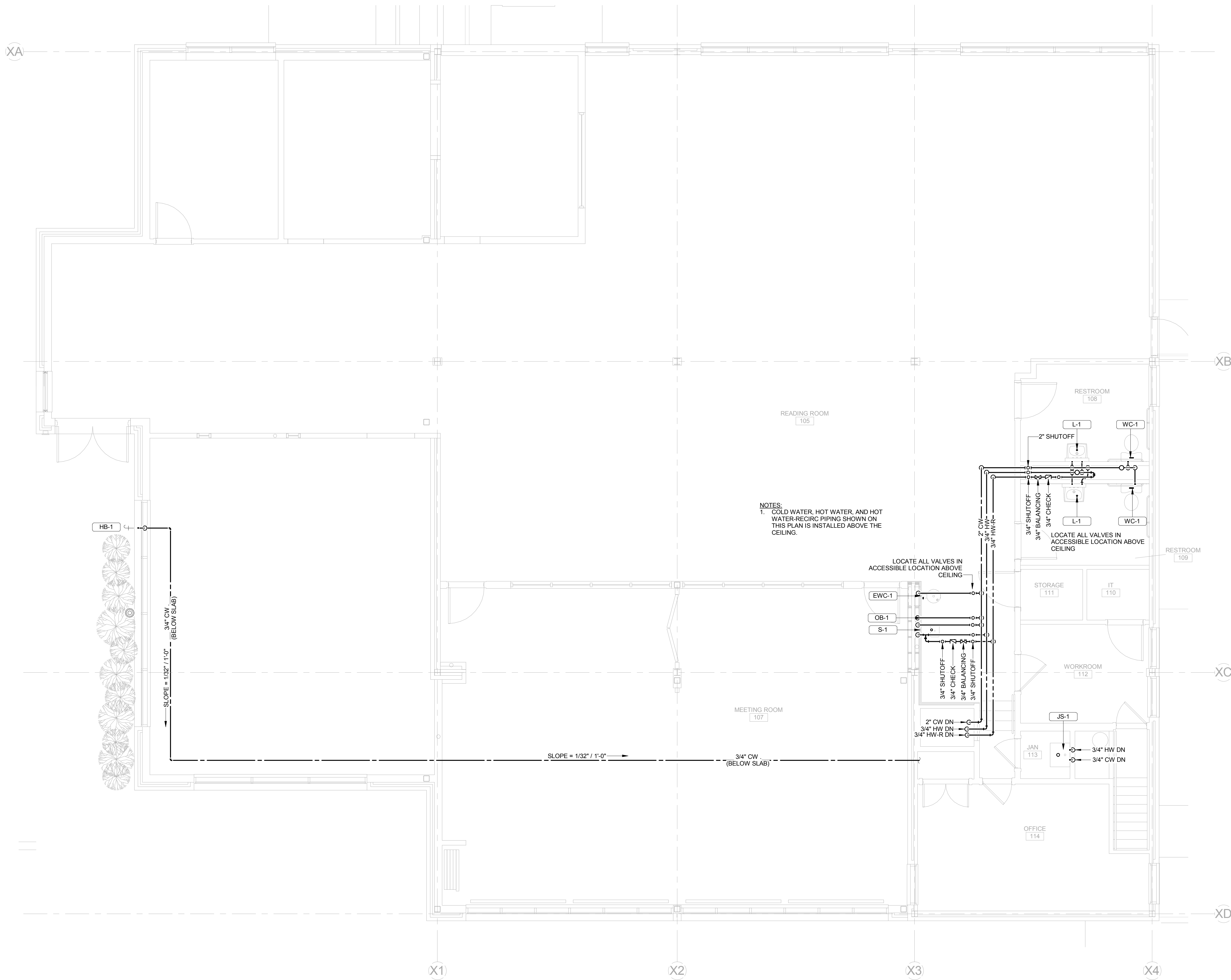
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PLUMBING PIPING

1. DOMESTIC WATER PIPING SHALL BE TYPE "L" COPPER WITH LEAD-FREE SOLDER JOINTS.

PLUMBING PIPING INSULATION

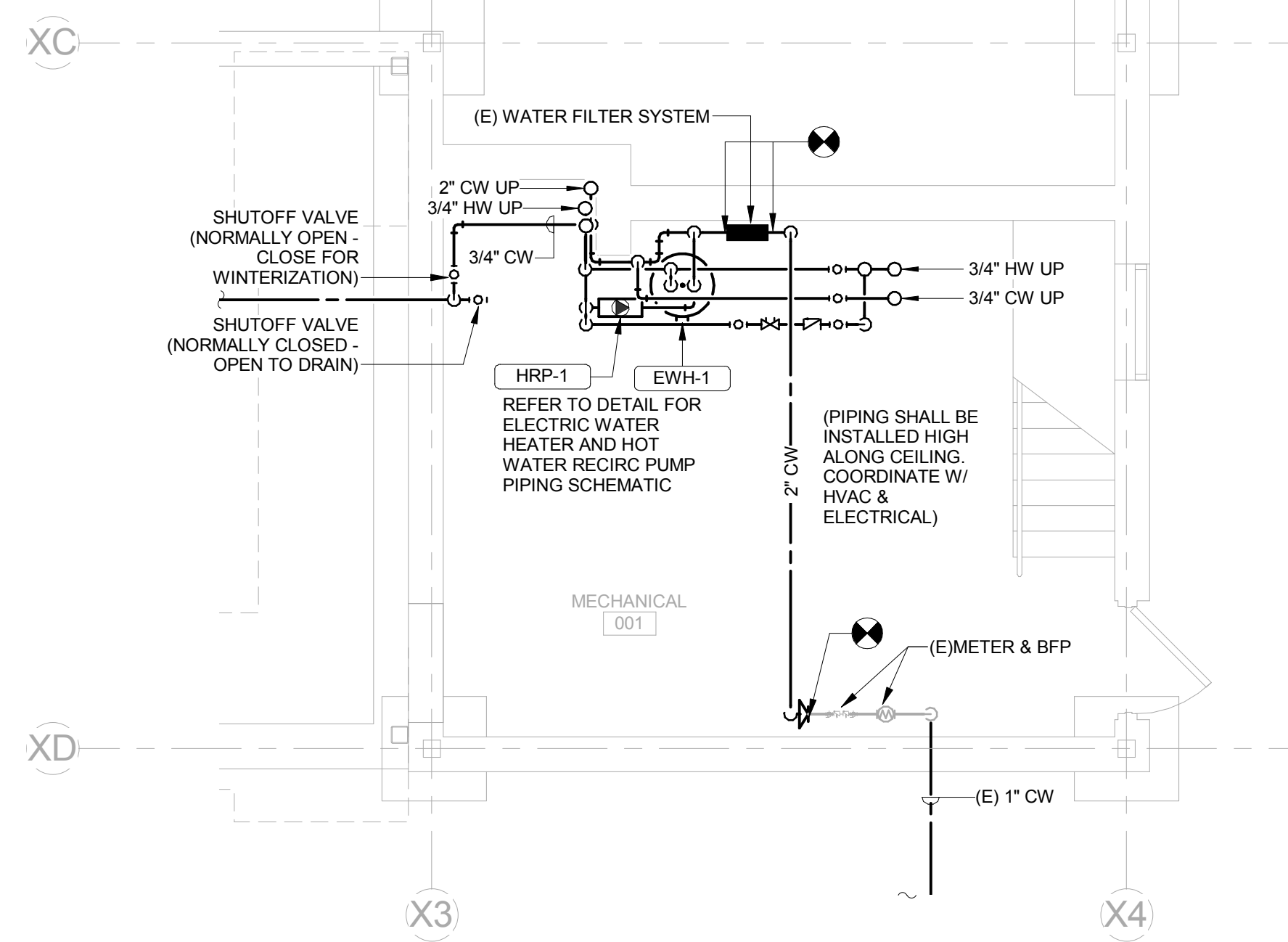
1. INSTALL GLASS FIBER INSULATION WITH ASJ VAPOR BARRIER JACKET ON ALL PLUMBING PIPING SYSTEMS ACCORDING TO THE TABLE BELOW.

2. FINISH JOINTS BETWEEN INSULATION WITH VAPOR BARRIER TAPE.

3. CONTINUE INSULATION THROUGH WALLS, SLEEVES, HANGERS, AND OTHER PIPE PENETRATIONS. INSULATE ENTIRE SYSTEMS INCLUDING FITTINGS, VALVES, UNIONS, FLANGES, STRAINERS, FLEXIBLE CONNECTIONS, AND PUMP BODIES.

4. PROVIDE PRE-PRINTED PIPE LABELS ON PIPING SYSTEMS TO INDICATE SPECIFIC SERVICES.

FLUID OPERATING TEMPERATURE (F) / SYSTEM TYPE	MINIMUM PIPE INSULATION THICKNESS (INCHES)		
	< 1	1 TO 1 1/2	> 1 1/2
105 - 140 DOMESTIC HOT WATER	1.0	1.0	1.5
40 - 60 DOMESTIC COLD WATER	0.5	0.5	1.0



2 LEVEL 1 PARTIAL PLUMBING PLAN - DOMESTIC WATER
P101 1/4" = 1'-0"

5 BASEMENT PLUMBING - DOMESTIC WATER PLAN
P101 1/4" = 1'-0"

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**PLUMBING SANITARY &
STORM PLANS**

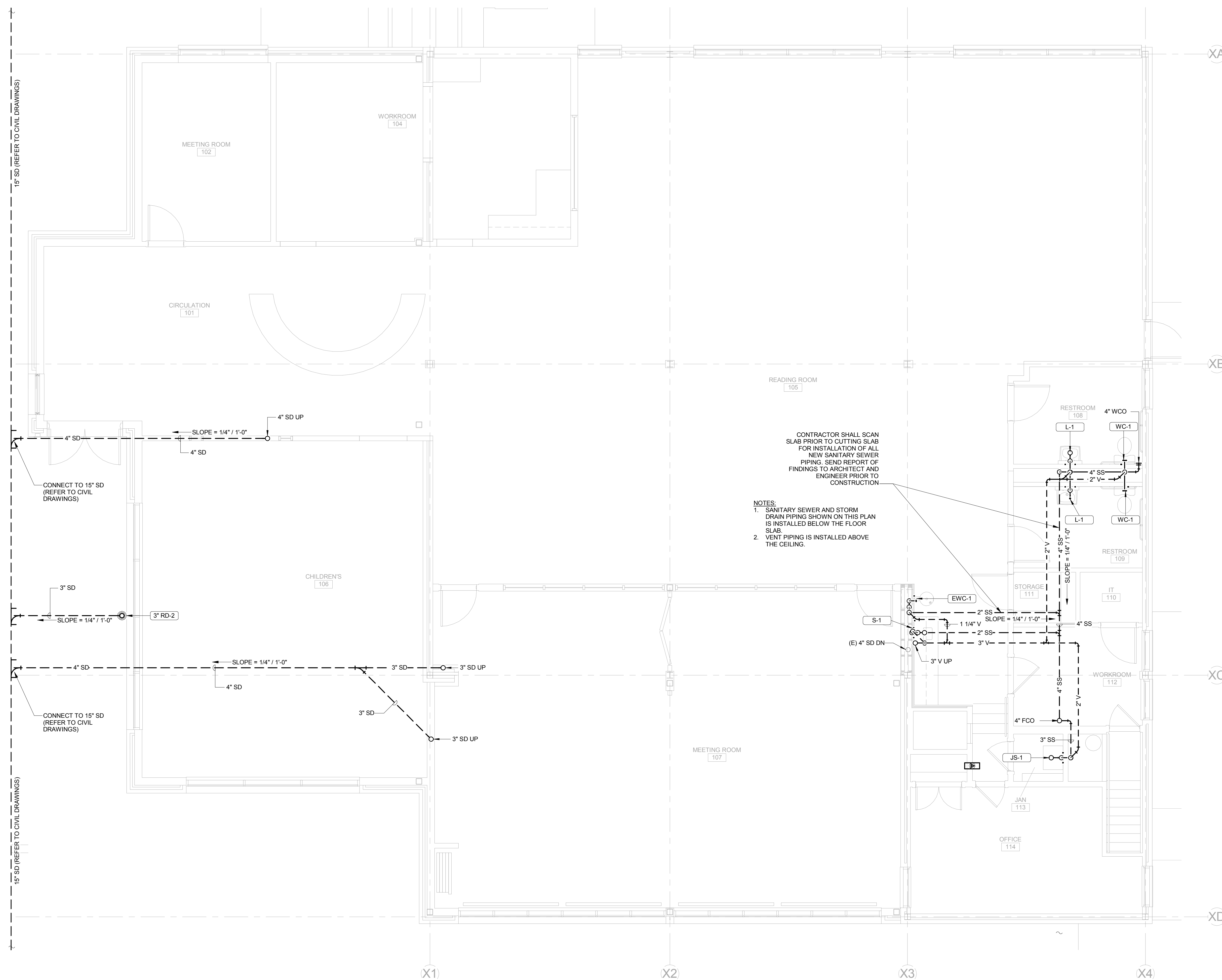
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2 LEVEL 1 PLUMBING PLAN - SANITARY & STORM
P102 1/4" = 1'-0"

PLUMBING PIPING

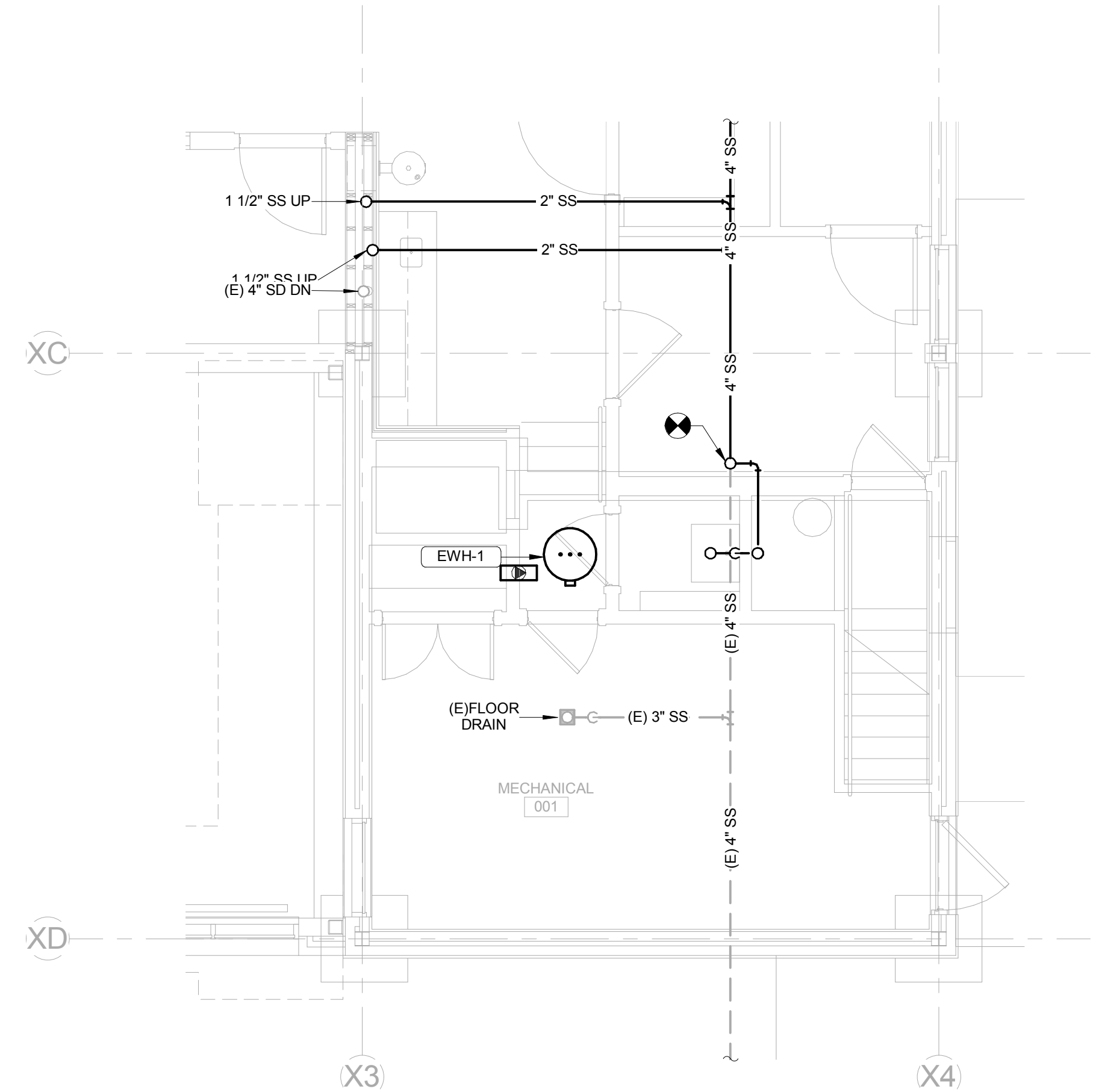
1. ABOVE GRADE SANITARY SEWER AND VENT PIPING SHALL BE CAST IRON NO HUB PIPE WITH STAINLESS STEEL CLAMPS.
2. BELOW GRADE SANITARY SEWER AND VENT PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD FITTINGS.

PLUMBING PIPING INSULATION

1. INSTALL 1" GLASS FIBER INSULATION WITH ASJ VAPOR BARRIER JACKET ON ALL ABOVE-GROUND STORM DRAIN (SD) PIPING.
2. FINISH JOINTS BETWEEN INSULATION WITH VAPOR BARRIER TAPE.
3. CONTINUE INSULATION THROUGH WALLS, SLEEVES, HANGERS, AND OTHER PIPE PENETRATIONS. INSULATE ENTIRE SYSTEMS INCLUDING FITTINGS, VALVES, UNIONS, FLANGES, STRAINERS, FLEXIBLE CONNECTIONS, AND PUMP BODIES.
4. PROVIDE WITH INSULATION JACKET SUITABLE FOR FINISH PAINTING.

CONTRACTOR SHALL SCAN SLAB PRIOR TO CUTTING SLAB FOR INSTALLATION OF ALL NEW SANITARY SEWER PIPING. SEND REPORT OF FINDINGS TO ARCHITECT AND ENGINEER PRIOR TO CONSTRUCTION.

NOTES:
1. SANITARY SEWER AND STORM DRAIN PIPING SHOWN ON THIS PLAN IS INSTALLED BELOW THE FLOOR SLAB.
2. VENT PIPING IS INSTALLED ABOVE THE CEILING.



1 BASEMENT PLUMBING - SANITARY PLAN
P102 1/4" = 1'-0"

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ROOF PLUMBING PLAN

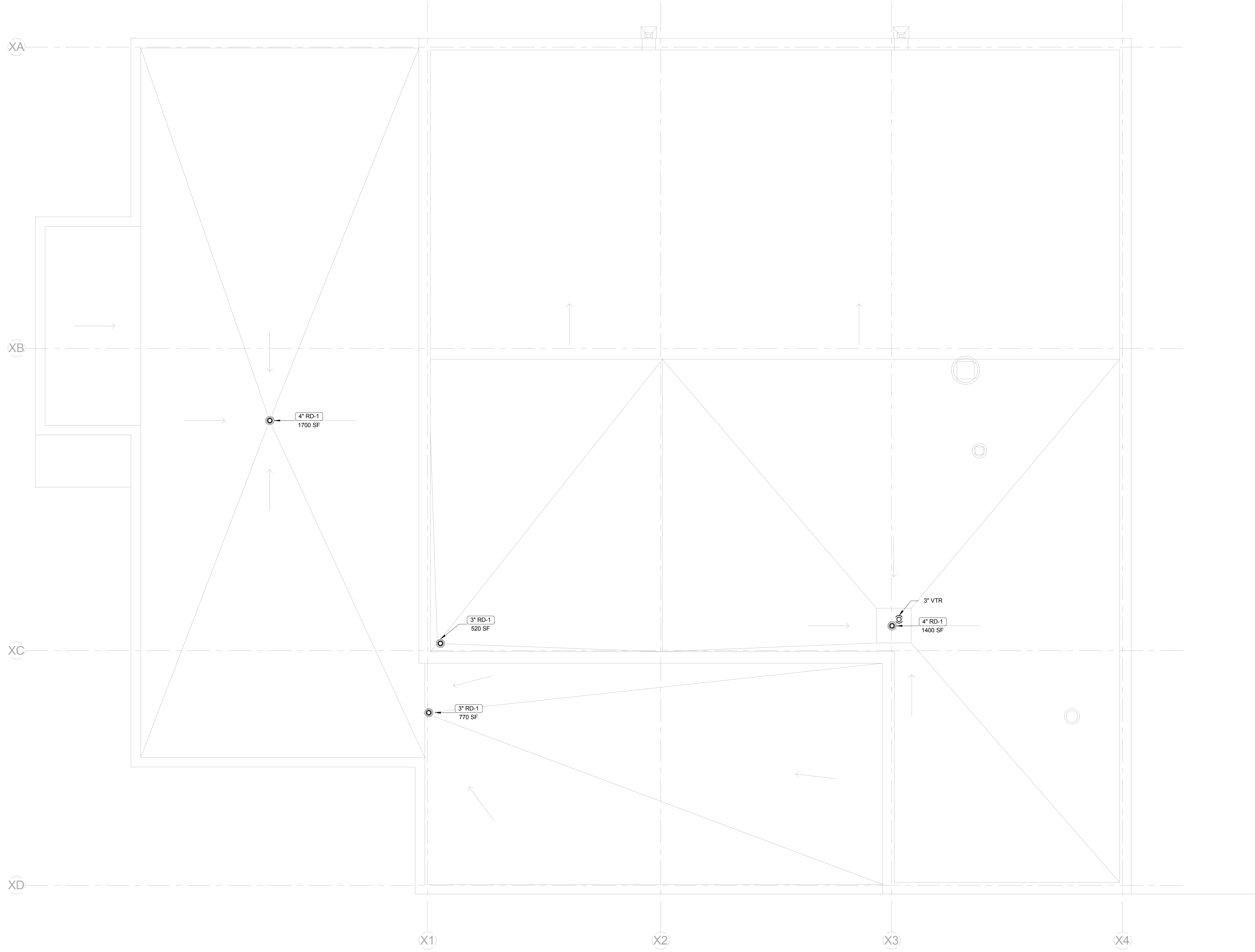
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1 ROOF PLUMBING PLAN
 P110 1/4" = 1'-0"

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PLUMBING RISER DIAGRAMS

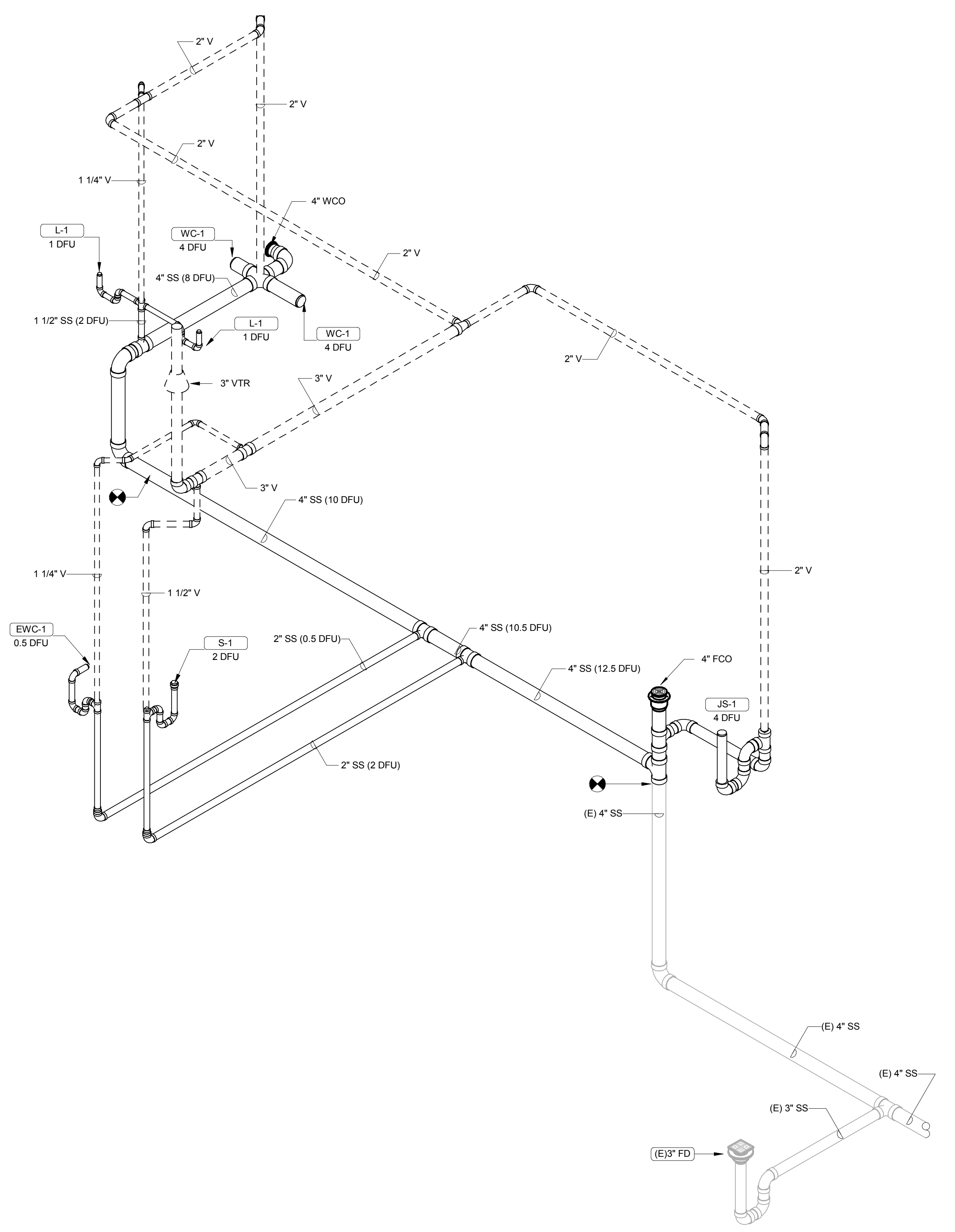
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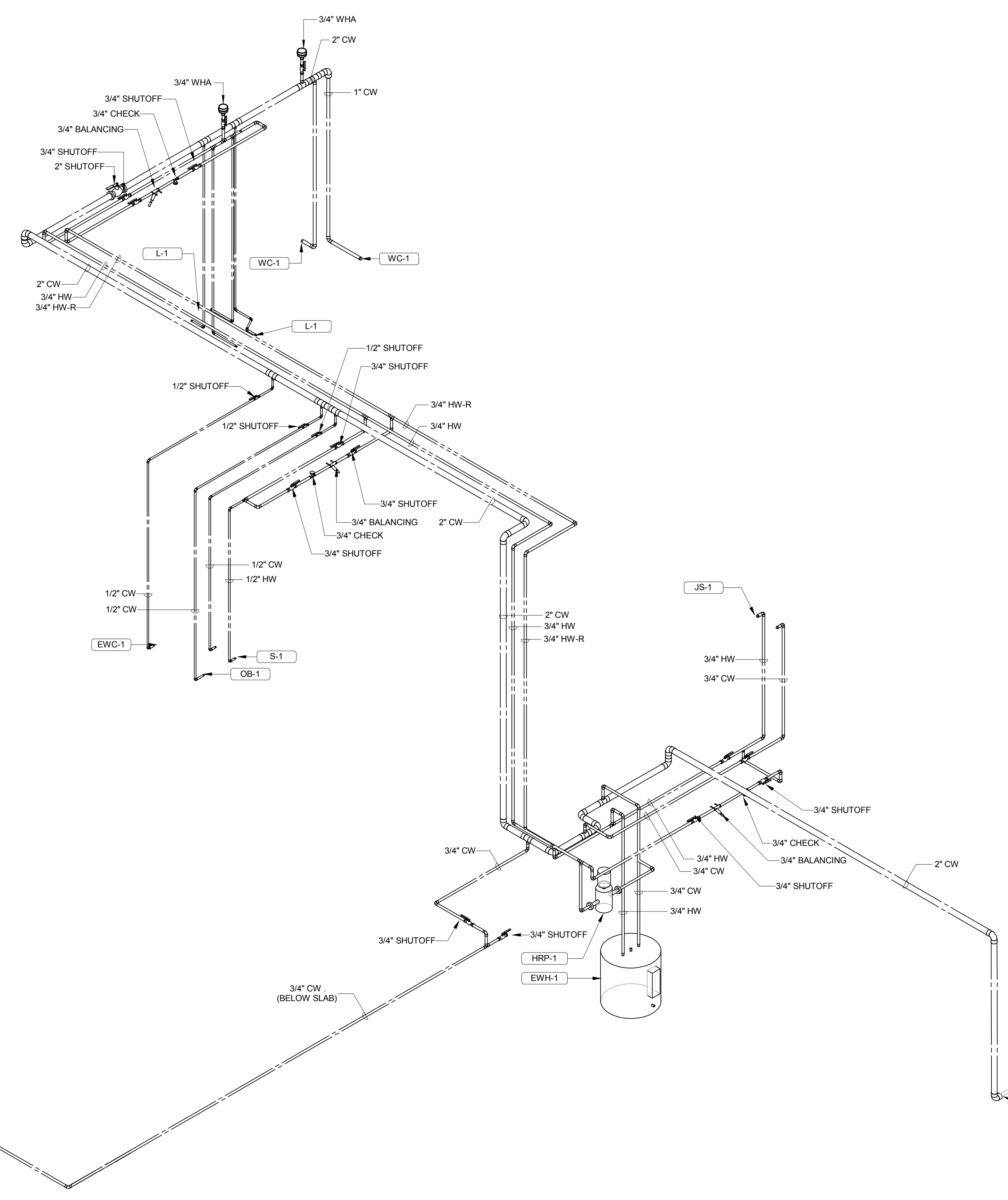
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1 OVERALL WASTE AND VENT RISER DIAGRAM
P200



2 OVERALL DOMESTIC WATER RISER DIAGRAM
P200

ID	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL DESCRIPTION	FINISH	FAUCET OR FLUSH VALVE		WATER FLOW	VOL. PER FLUSH	PIPE SIZE				REMARKS
						MANUFACTURER	MODEL			WASTE	VENT	COLD WATER	HOT WATER	
EW-C-1	WATER COOLER - ADA	HALSEY TAYLOR	OVERLGRN-VRWF	GALVANIZED STEEL	STAINLESS STEEL CABINET			0.1 GPM		1-1/2"	1-1/2"	1/2"		SINGLE LEVEL WALL HUNG WATER COOLER. THE UNIT SHALL BE COMPLETE WITH CABINET, MOUNTING FRAME, SELF CLOSING EASY TOUCH FRONT PUSHBAR CONTROLS, CHROME PLATED BUBBLER, REFRIGERATING SYSTEM, AIR COOLED, 120 VOLT, 60 CYCLE, SINGLE PHASE POWER CONNECTION, FULLY AUTOMATIC, COMPLETE AND READY TO OPERATE. COORDINATE W/ ARCHITECTURAL DRAWINGS FOR IN-WALL FRAME/PLATE MOUNTING.
HB-1	EXTERIOR WALL HYDRANT	JAY R. SMITH	GUARDIAN PLUS DUAL CHECK	BRONZE	STAINLESS STEEL FACE			2.5 GPM				3/4"		NON-FREEZE TYPE WALL HYDRANT, WITH DOUBLE CHECK BACKFLOW PREVENTER, VALVE ON THE INSIDE OF THE WALL, SPOUT WITH BACKFLOW PREVENTER, AND LOOSE KEY SOCKET ON THE OUTSIDE OF THE WALL. MAKE ARRANGEMENTS WITH THE GENERAL CONTRACTOR TO PROVIDE THE NECESSARY RECESS IN THE WALL, WHERE A RISER TO A WALL HYDRANT OCCURS IN AN OUTSIDE WALL. THE CONTRACTOR SHALL INSULATE THE CHASE WITH 2" STYROFOAM INSULATION ON ALL SIDES OF THE CHASE, EXCEPT THE INSIDE WALL OF THE CHASE. PROVIDE SHUTOFF VALVE IN ACCESSIBLE LOCATION.
JS-1	JANITOR SINK	AMERICAN STANDARD	LAKEWELL	ENAMELED CAST IRON	WHITE ENAMEL	AMERICAN STANDARD	8341.076	2.5 GPM		3"	2"	3/4"	3/4"	SERVICE BASIN WITH CAP ON TWO SIDES, WITH CHROME PLATED 3" DRAIN AND CAST IRON TRAP. FAUCET SHALL INCLUDE PAIL HOOK AND ATMOSPHERIC VACUUM BREAKER SPOUT. FURNISH 5'-0" LENGTH OF 5-PLY GARDEN HOSE AND FITTINGS.
L-1	LAVATORY - WALL HUNG - ADA	AMERICAN STANDARD	LUCERNE	WHITE VITREOUS CHINA	WHITE	SLOAN	ETF-880-4-BOX-AD-M-OP-0.5GPM-MLM-IR-BT-FCT	0.5 GPM		1-1/4"	1-1/4"	1/2"	1/2"	WALL HUNG LAVATORY WITH BACKSPASH, FAUCET HOLES ON 4" CENTERS. DECK-MOUNTED FAUCET WITH SENSOR, HARD-WIRED POWER WITH VANDAL RESISTANT SPRAY, EXTERNAL ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE, GRID DRAIN, LOOSE KEY ANGLE STOPS AND SUPPLIES. INSULATE WATER AND WASTE WITH ADA INSULATION KIT. MOUNT AT ADA COMPLIANT HEIGHT.
OB-1	COFFEE MAKER OUTLET BOX	SIOUX CHIEF	696-G1010MF	ABS PLASTIC	WHITE			0.1 GPM				1/2"		FULLY RECESSED ICE MAKER SUPPLY BOX WITH COVER, PROVIDE 1/4" TURN BALL VALVE AND WATER HAMMER ARRESTOR IN BOX. PROVIDE A BACKFLOW PREVENTER CONCEALED IN WALL SPACE.
S-1	SINGLE BOWL SINK	ELKAY	LRAD221955-3	STAINLESS STEEL	STAINLESS STEEL	ELKAY	LK1000	1.0 GPM		1-1/2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT, ADA COMPLIANT, SELF-RIMMING, 18 GAUGE, SINGLE LEVER SWIVEL FAUCET, ONE ELKAY MODEL NO. LK35 BASKET STRAINER, P-TRAP, TAILPIECES, SUPPLIES AND STOPS. INSULATE WATER AND WASTE TO MEET ADA REQUIREMENTS.
WC-1	WATER CLOSET - WALL HUNG - ADA	AMERICAN STANDARD	AFWALL	WHITE VITREOUS CHINA	WHITE	SLOAN	ROYAL 111 ESS HARDWIRED 1.6-GN-TMO-HW		1.6 gal	4"	2"	1"		ELONGATED WALL HUNG WATER CLOSET, 1-1/2" TOP SPUD, WITH CHURCH 296CT ELONGATED OPEN FRONT SEAT. HARD-WIRED SENSOR ACTIVATED FLUSHMETER. INSTALL AT ADA COMPLIANT HEIGHT.

WATER HAMMER ARRESTOR
 ID: WHA
 MANUFACTURER: WATTS
 MODEL: L1542
 DESCRIPTION: MAINTENANCE FREE, AIR PRE-LOAD 60PSI, FACTORY AIR CHARGED AND PERMANENTLY SEALED

FLOOR CLEANOUT
 ID: FCO
 MANUFACTURER: JAY R. SMITH
 MODEL: 4023S
 DESCRIPTION: DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED NICKEL BRONZE TOP - BRONZE PLUG CLOSURE TYPE.

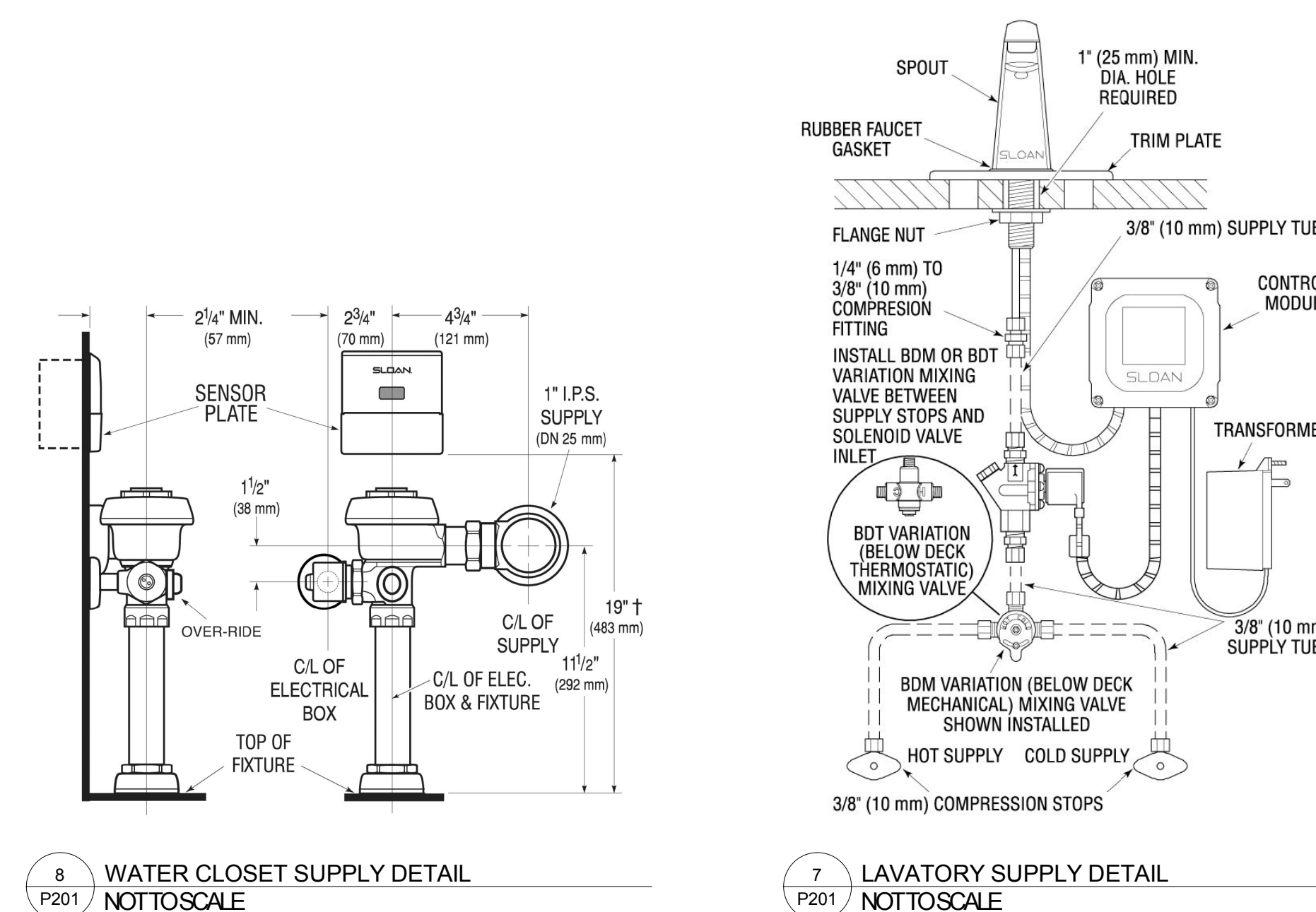
WALL CLEANOUT
 ID: WCO
 MANUFACTURER: JAY R. SMITH
 MODEL: 4422C
 DESCRIPTION: DUCO CAST IRON CAULK FERRULE WITH CAST BRONZE TAPER THREAD PLUG, WITH SHALLOW COVER AND SCREW.

ID	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL DESCRIPTION		WASTE PIPE SIZE	SPECIFICATION	REMARKS
				DRAIN BODY	STRAINER			
RD-1	ROOF DRAIN	JAY R. SMITH	1010BS	LACQUERED CAST IRON	CAST IRON		DUCO CAST IRON BODY WITH COMBINED FLASHING CLAMP AND GRAVEL STOP WITH CAST IRON DOME.	PROVIDE WITH UNDERDECK CLAMP AND VANDAL PROOF DOME.
RD-2	PLANTING AREA DRAIN	JAY R. SMITH	1930	LACQUERED CAST IRON	CAST IRON	3"	DUCO CAST IRON WIDE FLANGE BODY WITH PERFORATED STAINLESS STEEL EXTENSIONS WITH FLASHING CLAMPS, BUCKET AND CAST IRON GRATE.	

ID	MANUFACTURER	MODEL NO.	TYPE	HEATING CAP	STORAGE		TEMP RISE	UNIT WEIGHT	VOLT	PH	REMARKS
					RECOVERY	VOL.					
EW-H-1	BRADFORD WHITE	LE1200J-1	STORAGE	3.0 kW	14.0 gal/h	19.0 gal	90 °F	217 lb	120 V	1	SEE NOTES BELOW

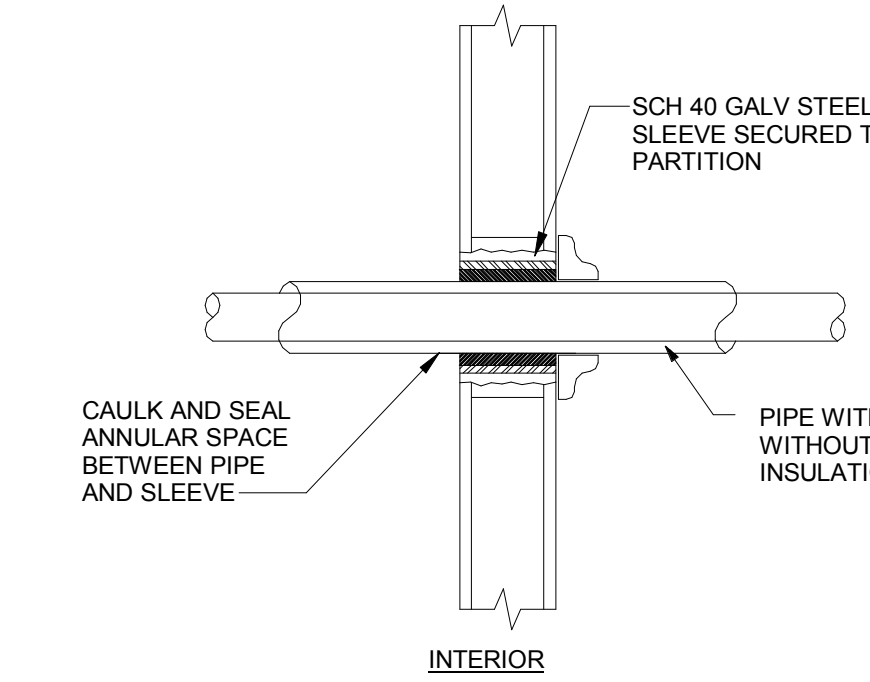
- NOTES:
 1. FULLY AUTOMATIC THERMOSTAT CONTROLS
 2. SCREW-IN STYLE IMMERSSED ELEMENTS
 3. SEDIMENT REDUCING DEVICE
 4. VITRILAS LINING
 5. 1" NON-CFC FOAM INSULATION
 6. FACTORY-INSTALLED HEAT TRAPS
 7. PROTECTIVE MAGNESIUM ANODE ROD
 8. T&P RELIEF VALVE INSTALLED
 9. PROVIDE WITH EXPANSION TANK

ETF-880 Faucet with BDM and BDT Variation Mixing Valves for Hot and Cold Water Supply (shown with 4" trim plate)



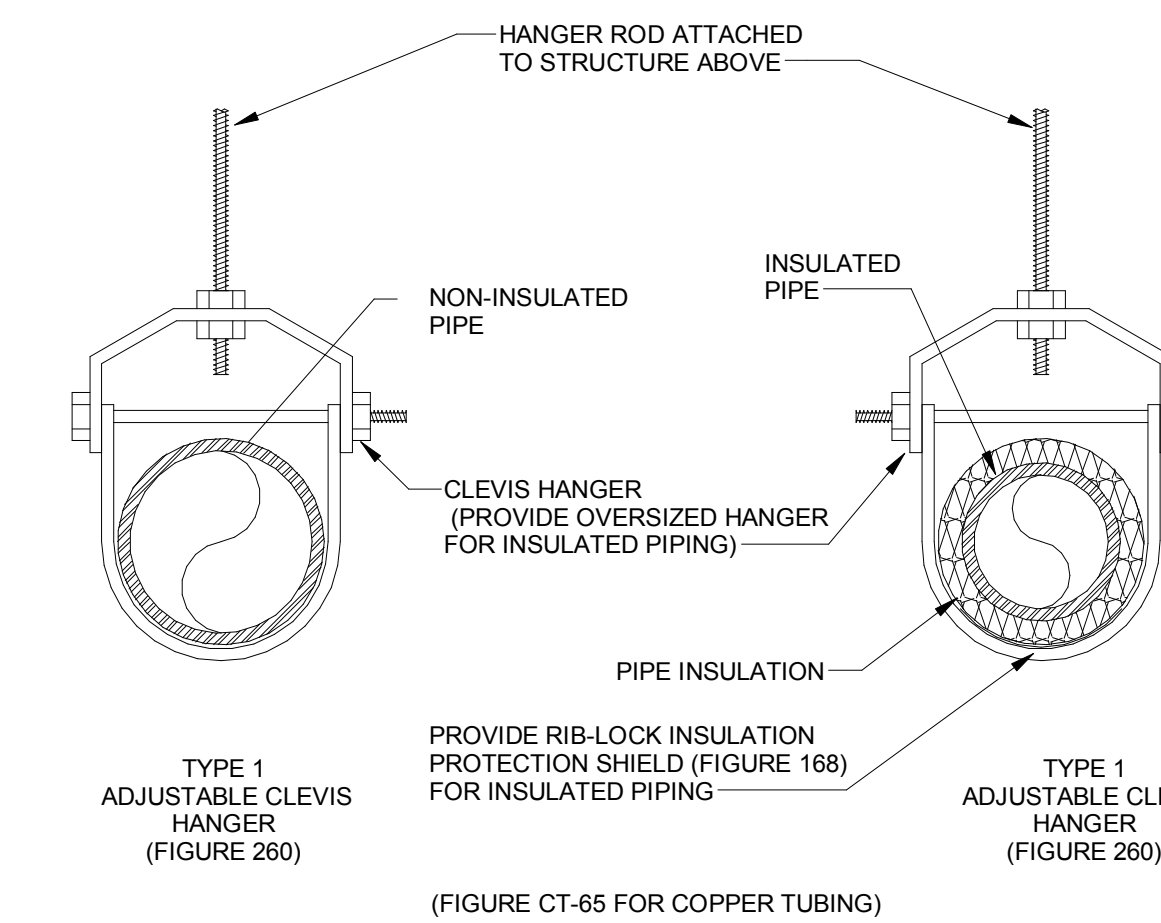
6 WATER CLOSET SUPPLY DETAIL NOT TO SCALE

7 LAVATORY SUPPLY DETAIL NOT TO SCALE



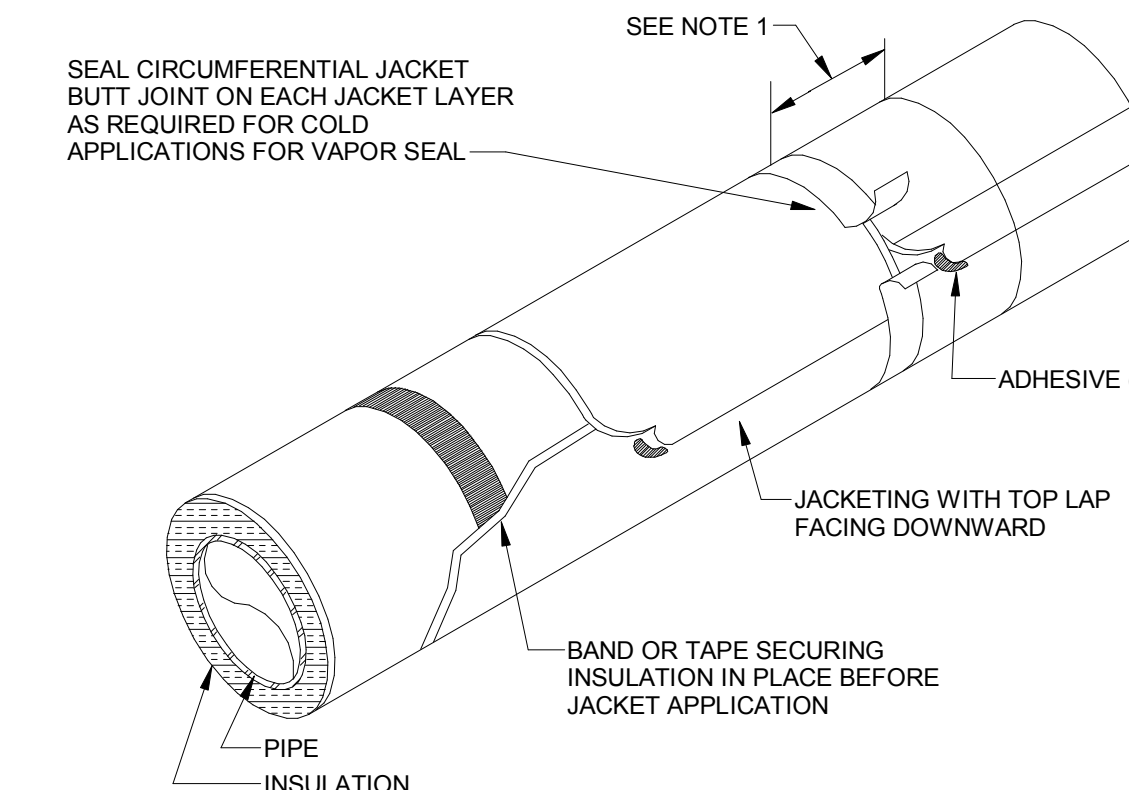
- NOTES:
 1. TYPICAL FOR NON-INSULATED PIPE AND CONDUIT.
 2. ALL CAULKING AND SEALANT SHALL BE FIRE RATED.
 3. WHERE PIPING IS EXPOSED AT FINISHED WALL, FLUSH MOUNT SLEEVE AND PROVIDE AN ESCUTCHEON PLATE.

1 PIPE PENETRATION THRU INTERIOR WALLS NOT TO SCALE



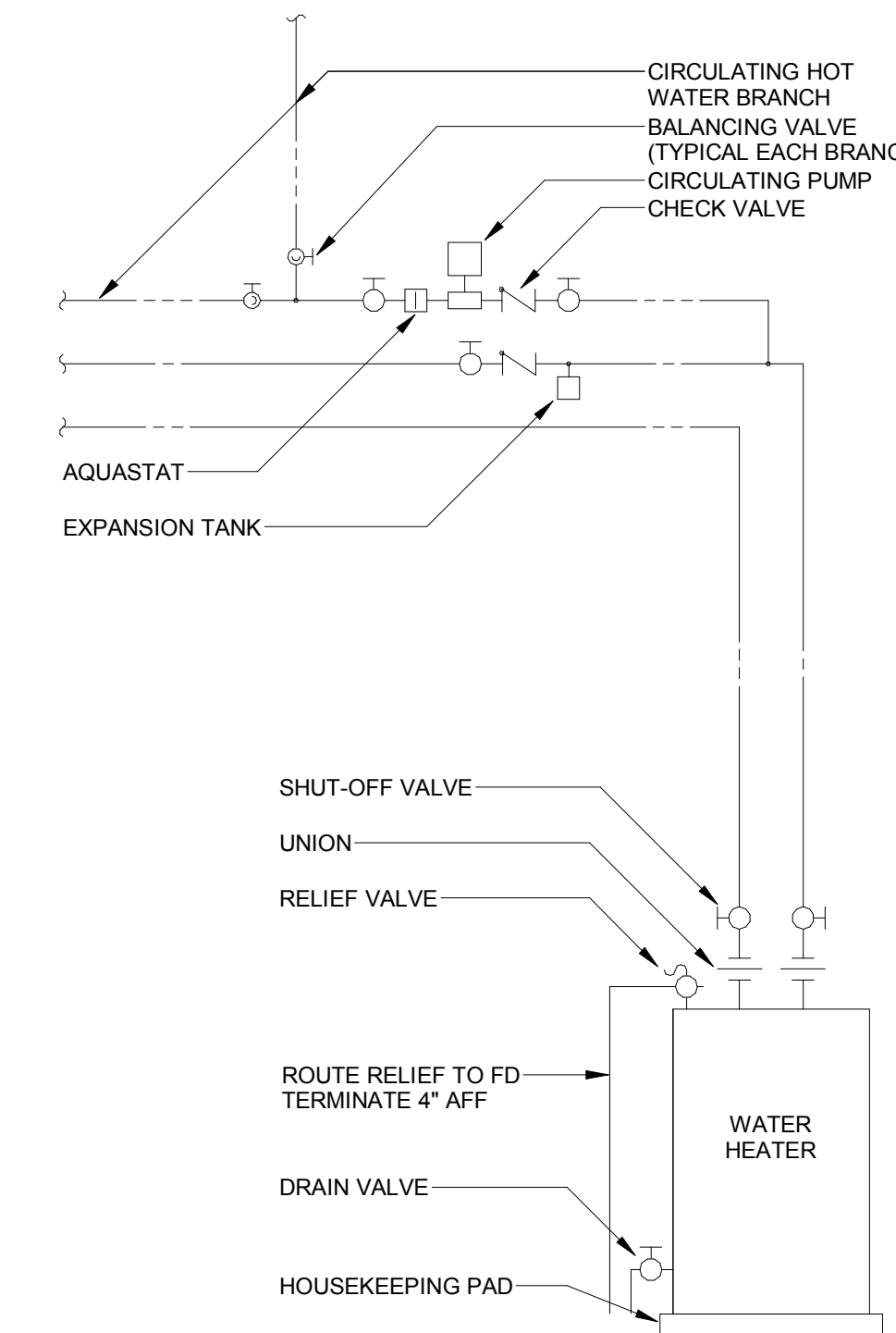
- NOTE: FIGURE NUMBERS ARE TYPICAL TO GRINNELL SUPPORT NUMBERS.

2 SINGLE PIPE CLEVIS HANGER NOT TO SCALE



- NOTES:
 1. OVERLAP JACKET MINIMUM OF 1-1/2"
 2. LONGITUDINAL JACKETING SEAMS SHALL BE POSITIONED AT 3 O'CLOCK OR 9 O'CLOCK ONLY WITH TOP LAP FACING DOWNWARD FOR WEATHER PROTECTION.

3 FACTORY AND FIELD APPLIED PIPE JACKETING OVER PIPE INSULATION NOT TO SCALE



4 VENT THROUGH ROOF DETAIL NOT TO SCALE

5 WATER HEATER PIPING DETAIL - SINGLE W/RECIRCULATION NOT TO SCALE

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DRAWING TITLE

PLUMBING SCHEDULES & DETAILS

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CHECKED	NC
APPROVED	SAF
DATE	2018

SYMBOL	DATE	DESCRIPTION
	9-28-2018	DD SUBMISSION
	10-31-2018	50% CD SUBMISSION
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P201

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ELECTRICAL SYMBOL LIST

	POWER DUPLICATE RECEPTACLE DUPLICATE RECEPTACLE W/ USB CHARGING QUADRAPLEX RECEPTACLE DUPLICATE GROUND FAULT RECEPTACLE DUPLICATE GROUND FAULT RECEPTACLE - MOUNTED ABOVE COUNTER HEIGHT, BACKSPASH, OR AS INDICATED ON DRAWINGS RECEPTACLE - MOUNTED ABOVE COUNTER HEIGHT, BACKSPASH, OR AS INDICATED ON DRAWINGS (DUPLICATE, QUADRAPLEX, USB) SINGLE RECEPTACLE - SPECIAL PURPOSE (AS NOTED ON DRAWINGS) FLOOR MOUNTED RECEPTACLE (DUPLICATE, QUADRAPLEX) CEILING MOUNTED RECEPTACLE (DUPLICATE, QUADRAPLEX) JUNCTION BOX (FLOOR, CEILING, WALL) PULL BOX FLOOR BOX (TYPE) POKE-THRU (TYPE) MOTOR TRANSFORMER GROUND ROD DATA / AUDIO & VISUAL TELEDATA JUNCTION BOX AV JUNCTION BOX (FLOOR, CEILING, WALL) REFER TO AV DRAWINGS FOR TYPE AND CONFIGURATION.		LIGHTING (NOTE: UPPER CASE LETTER INDICATES TYPE, LOWER CASE LETTER INDICATES SWITCHING ARRANGEMENT) CEILING MOUNTED LIGHTING FIXTURE LINEAR STRIP FIXTURE DOWNLIGHT WALL BRACKET FIXTURE EMERGENCY BATTERY PACK EXIT SIGN LIGHTING FIXTURE ON EMERGENCY
	FIRE ALARM FIRE ALARM MANUAL PULL STATION FIRE ALARM HORN AND STROBE LIGHT COMBINATION FIRE ALARM SPEAKER FIRE ALARM STROBE LIGHT SMOKE DETECTOR HEAT DETECTOR DUCT MOUNTED SMOKE DETECTOR BEAM SMOKE DETECTOR FIRE ALARM CONTROL PANEL FIRE ALARM ANNUNCIATOR PANEL NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL SPRINKLER FLOW SWITCH SPRINKLER TAMPER SWITCH MAGNETIC HOLD OPEN - 24V POWERED BY FACP		BRANCH CIRCUIT WIRING (WHERE SHOWN) BRANCH CIRCUIT WIRING AND/OR CONDUIT WITH WIRE, CONCEALED IN FLOOR OR BELOW GRADE. BRANCH CIRCUIT WIRING AND/OR CONDUIT WITH WIRE, CONCEALED IN CEILING OR WALL BRANCH CIRCUIT WIRING AND/OR CONDUIT WITH WIRE, EXPOSED BRANCH CIRCUIT WIRING TO PANEL DENOTES CIRCUIT NUMBER AT PANELBOARD DENOTES PANELBOARD IDENTIFY (NAME) BRANCH CIRCUIT WIRE AND/OR CONDUIT WITH WIRE, TURNING UP TOWARD OBSERVER BRANCH CIRCUIT WIRE AND/OR CONDUIT WITH WIRE, TURNING AWAY FROM OBSERVER
	CIRCUIT PROTECTION MANUAL MOTOR STARTER DISCONNECT SWITCH, UNFUSED TYPE DISCONNECT SWITCH, FUSED TYPE COMBINATION MOTOR STARTER & MOTOR CIRCUIT PROTECTOR NUMBERS: LEFT - MOTOR CIRCUIT PROTECTION CONTINUOUS AMPERAGE RATING RIGHT - NEMA STARTER SIZE ENCLOSED CIRCUIT BREAKER PANELBOARDS SURFACE MOUNTED ELECTRICAL PANELBOARD RECESSED MOUNTED ELECTRICAL PANELBOARD SYSTEMS PANEL OR TERMINAL CABINET (AS INDICATED ON DRAWING) DISTRIBUTION PANEL		POWER DISTRIBUTION (SINGLE LINE DIAGRAM) CURRENT TRANSFORMER (CT) POTENTIAL TRANSFORMER (PT) METER (ELECTRIC) CIRCUIT BREAKER DISCONNECT SWITCH FUSE TRANSFORMER TRANSFER SWITCH TRANSIENT VOLTAGE SURGE SUPPRESSOR SHUNT TRIP
	SECURITY/SPECIALTY DURESS BUTTON DURESS HORN CARD READER DOOR CONTACT ELECTRIC STRIKE MAGNETIC LOCK POWER TRANSFER DEVICE INTERCOM REQUEST TO EXIT MOTION SENSOR REQUEST TO EXIT PUSH BUTTON		

ABBREVIATIONS

1P ONE POLE 2P TWO POLE 3P THREE POLE 4P FOUR POLE A AMPIRE AB ABOVE CEILING AC ABOVE COUNTER AFCI ARC FAULT CURRENT INTERRUPTER AFF ABOVE FINISHED FLOOR AIC AMPS INTERRUPTING CURRENT AFG ABOVE FINISHED GRADE ARCH ARCHITECT ATS AUTOMATIC TRANSFER SWITCH BLDG BUILDING C CONDUIT CATV CABLE TELEVISION CB CIRCUIT BREAKER CD CANDELA CKT CIRCUIT CMT EMPTY CONDUIT CT CURRENT TRANSFORMER DISC DISCONNECT DO DISCONNECT DWG DRAWING (E) EXISTING TO REMAIN EC ELECTRICAL CONTRACTOR (ER) EXISTING TO BE RELOCATED EWC ELECTRIC WATER COOLER FA FIRE ALARM FAAP FIRE ALARM ANNUNCIATOR PANEL FACP FIRE ALARM CONTROL PANEL FLA FULL LOAD AMPS FLA TIME CLOCK GC GENERAL CONTRACTOR GFCI GROUND FAULT CIRCUIT INTERRUPTER GND GROUNDING HP HORSEPOWER HV HIGH VOLTAGE HZ HERTZ (CYCLE) PER SECOND IG ISOLATED GROUND JB JUNCTION BOX KMIL THOUSAND CIRCULAR MILS KVA KILOVOLT AMPERE KW KILOWATT	LP LIGHTING PANEL LTG LIGHTING LTG LIGHTING MCB MAIN CIRCUIT BREAKER MDO MAIN DISTRIBUTION PANEL (ME) MODIFY EXISTING MISC MISCELLANEOUS MLO MAIN LUGS ONLY MOA MULTI-OUTLET ASSEMBLY MOD MOTOR OPERATED DISCONNECT SWITCH MOUNTED MOUNTING MTG MANUAL TRANSFER SWITCH (N) NEW N/A NOT APPLICABLE NEC NATIONAL ELECTRICAL CODE NIC NOT IN CONTRACT NL NIGHT LIGHT # NUMBER NTS NOT TO SCALE P POLE PB PULL BOX PH PHASE PNL PANEL PVC POLYVINYL CHLORIDE CONDUIT PWR POWER (R) REMOVE EXISTING (RE) RELOCATE EXISTING REC RECESSED SEC SECURITY CONTROL PANEL SCP SWITCHBOARD SYS CONNECTION TO SYSTEMS FURNITURE TC TO TEL/DATA TELEPHONE/DATA TEL TELEPHONE TTB TELEPHONE TERMINAL BOARD TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION TYP TYPICAL UNO UNLESS OTHERWISE NOTED V VOLT WATT WATT WP WEATHERPROOF XFMR TRANSFORMER + INDICATES MOUNTED ABOVE CENTER OR AS NOTED ON DWG. #1/E5.1 DETAIL NUMBER/DRAWING NUMBER
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- DEMOLITION NOTES:**
- DEVICES SHOWN SHALL NOT LIMIT THE EXTENT OF DEMOLITION WORK TO BE PERFORMED. WORK SHALL INCLUDE DISCONNECTION AND REMOVAL OF ALL FIRE ALARM DEVICES WITHIN PROJECT BOUNDARY UNLESS OTHERWISE NOTED.
 - WHERE DEVICES AND CONNECTIONS ARE TO BE REMOVED (R), DISCONNECT AND REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE UNLESS OTHERWISE NOTED.
 - COORDINATE DEVICES TO BE SALVAGED AND REUSED BY OWNER PRIOR TO DEMOLITION. TURN OVER ALL SUCH DEVICES TO OWNER IN ORIGINAL CONDITION. DISPOSAL OF EQUIPMENT NOT TO BE SALVAGED IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
 - ELECTRICAL CONTRACTOR SHALL PATCH ALL WALLS, FLOORS, AND CEILINGS THAT ARE EXISTING TO REMAIN AND HAVE BEEN AFFECTED BY ELECTRICAL DEMOLITION WORK TO MATCH SURROUNDING MATERIALS. SURFACES SHALL BE PREPARED FOR PAINTING BY GENERAL CONTRACTOR.
 - CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO OBTAIN THE ACTUAL SCOPE OF DEMOLITION.
 - DISCONNECTION OF DEVICES AND/OR CABLING SHALL ALSO INCLUDE:
 - RECONNECTION AND EXTENSION OF EXISTING WIRING TO MAINTAIN CIRCUIT CONTINUITY TO DOWNSTREAM DEVICES THAT ARE TO REMAIN. DOWNSTREAM DEVICES ARE NOT SHOWN.
 - THE REPROGRAMMING OF CONTROL TO ACCEPT REMOVAL OF ASSOCIATED EQUIPMENT.
 - UNLESS NOTED OTHERWISE, ALL EMPTY CONDUITS (EMT) SHALL BE RUN TO ABOVE NEAREST ACCESSIBLE CEILING IN CORRIDOR AND INCLUDE FISHWIRE.
 - COORDINATE ALL EQUIPMENT AND CONNECTION REQUIREMENTS FOR DOOR HARDWARE WITH THE DOOR HARDWARE CONTRACTOR.
 - EXAMINE JOB SITE AND VERIFY ALL SITE CONDITIONS PRIOR TO SIGNING CONTRACT. BRING ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL FIELD CONDITIONS TO THE ATTENTION OF THE ENGINEER.
 - PROVIDE PROGRAMMING AT EXISTING FIRE ALARM CONTROL PANEL TO ACCEPT NEW DEVICES.
 - COORDINATE ALL FLOOR AND CEILING PENETRATIONS. EXACT PENETRATION SIZE AND LOCATION SHALL BE DETERMINED BY STRUCTURAL ENGINEER AND ARCHITECT.
- GENERAL NOTES:**
- THE FLOOR PLANS ARE DIAGRAMMATIC ONLY AND SHOULD NOT BE SCALED TO MARK EXACT LOCATIONS OF DEVICES. IN ALL CASES, ARCHITECTURAL FLOOR PLANS, FURNITURE PLANS, MILLWORK, DETAILS, CEILING PLANS, ELEVATIONS AND ACCOMPANYING DIMENSIONS SHALL BE USED FOR EXACT LOCATIONS OF DEVICES.
 - UNLESS NOTED OTHERWISE, ALL EMPTY CONDUITS (EMT) SHALL BE RUN TO ABOVE NEAREST ACCESSIBLE CEILING IN CORRIDOR AND INCLUDE FISHWIRE.
 - COORDINATE ALL EQUIPMENT AND CONNECTION REQUIREMENTS FOR DOOR HARDWARE WITH THE DOOR HARDWARE CONTRACTOR.
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 - PROVIDE PROGRAMMING AT EXISTING FIRE ALARM CONTROL PANEL TO ACCEPT NEW DEVICES.
 - COORDINATE ALL FLOOR AND CEILING PENETRATIONS. EXACT PENETRATION SIZE AND LOCATION SHALL BE DETERMINED BY STRUCTURAL ENGINEER AND ARCHITECT.

FIRE ALARM DESIGN INTENT:
 THE CONTRACTOR SHALL SECURE THE SERVICES OF THE BUILDING OWNER'S APPROVED AND LICENSED FIRE ALARM SIGNALING SYSTEMS CONTRACTOR TO DESIGN AND INSTALL A FIRE ALARM SIGNALING SYSTEM TO MEET THE REQUIREMENTS OF NFPA, LOCAL CODES, STATE FIRE MARSHALL'S OFFICE, AND PROPOSED PROGRAMMING REQUIREMENTS. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE TO SUBMIT SIGNED AND SEALED PLANS TO THE APPROVING AUTHORITY AND OBTAIN APPROVAL FROM THAT AUTHORITY PRIOR TO COMMENCEMENT OF WORK.

INSTALLATION OF NEW, ADDITIONS OR MODIFICATIONS DESIGN SHALL BE DONE ON FULL SIZE DRAWINGS AND SUBMITTED ALONG WITH OTHER REQUIRED DESCRIPTIVE DATA TO THE APPROVING AUTHORITY FOR APPROVAL AS REQUIRED BY STATE FIRE REGULATIONS.
 CONTRACTOR SHALL MODIFY AND/OR REMOVE EXISTING FIRE ALARM DEVICES AS REQUIRED.
 CONTRACTOR SHALL PROVIDE PROGRAMMING OF EXISTING AND NEW SYSTEM DEVICES AS REQUIRED.
 FIRE ALARM DEVICES ARE SHOWN FOR COORDINATION ONLY.

- REQUIREMENTS FOR HVAC WORK:**
- ITEMS OF EQUIPMENT TO BE PROVIDED BY ELECTRICAL CONTRACTOR:
 - DISCONNECT SWITCHES (NOT INTEGRAL PART OF MECHANICAL EQUIPMENT)
 - MOTOR STARTERS, MOTOR CONTROL CENTERS, COMBINATION STARTERS, ETC., NOT FURNISHED AS PART OF MECHANICAL CONTRACTOR.
 - CIRCUIT BREAKERS, FUSED SWITCHES IN PANELS, DISTRIBUTION BOARDS AND STAND ALONE DEVICES.
 - ALL 120V CIRCUITS, WIRING, CONDUIT, ETC., FOR MECHANICAL CONTROLS.
 - ITEMS TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. CONNECTED AND WIRED BY ELECTRICAL CONTRACTOR:
 - STARTERS, COMBINATION STARTERS, SWITCHES, CIRCUIT BREAKERS, ETC., WHICH ARE INTEGRAL PART OF MECHANICAL EQUIPMENT.
 - CONTROL PANELS AND STARTERS AS INTEGRAL PART OF MECHANICAL EQUIPMENT.
 - VARIABLE FREQUENCY DRIVES.
 - DISCONNECT SWITCHES, WHICH ARE AN INTEGRAL PART OF MECHANICAL EQUIPMENT.
 - DUCT SMOKE DETECTORS:
 - FURNISHED BY ELECTRICAL CONTRACTOR (F.A. VENDOR)
 - INSTALLED BY MECHANICAL CONTRACTOR
 - CONNECTED AND WIRED BY ELECTRICAL CONTRACTOR.
 - ITEMS TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR:
 - LOW-VOLTAGE CONTROL WIRING.
 - THERMOSTATS.
 - CONTROL DEVICES FOR MECHANICAL EQUIPMENT.
 - ELECTRICAL CONTRACTOR TO FURNISH THE LABOR, WIRING, CONDUIT, ETC. FOR CONNECTION OF ELECTRICAL CIRCUITS TO EQUIPMENT FURNISHED BY MECHANICAL CONTRACTOR.

INDEX OF ELECTRICAL DRAWINGS	
E000	ELECTRICAL COVER SHEET
ED101	BASEMENT & LEVEL 1 ELECTRICAL DEMOLITION PLAN
E301	BASEMENT & LEVEL 1 LIGHTING PLANS
E401	BASEMENT & LEVEL 1 POWER PLANS
E402	ROOF POWER PLANS
E700	ELECTRICAL DIAGRAMS
E701	ELECTRICAL SCHEDULES

DRAWING TITLE
ELECTRICAL COVER SHEET

SCALE	AS NOTED
DRAWN	RLO
CHECKED	CMF
APPROVED	SAF
DATE	2018

REVISIONS		
SYMBOL	DATE	DESCRIPTION
	9-28-2018	DD SUBMISSION
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	1-11-2019	100% CD SUBMISSION
	6-21-2019	FOR BIDS AND PERMITS ONLY

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E000
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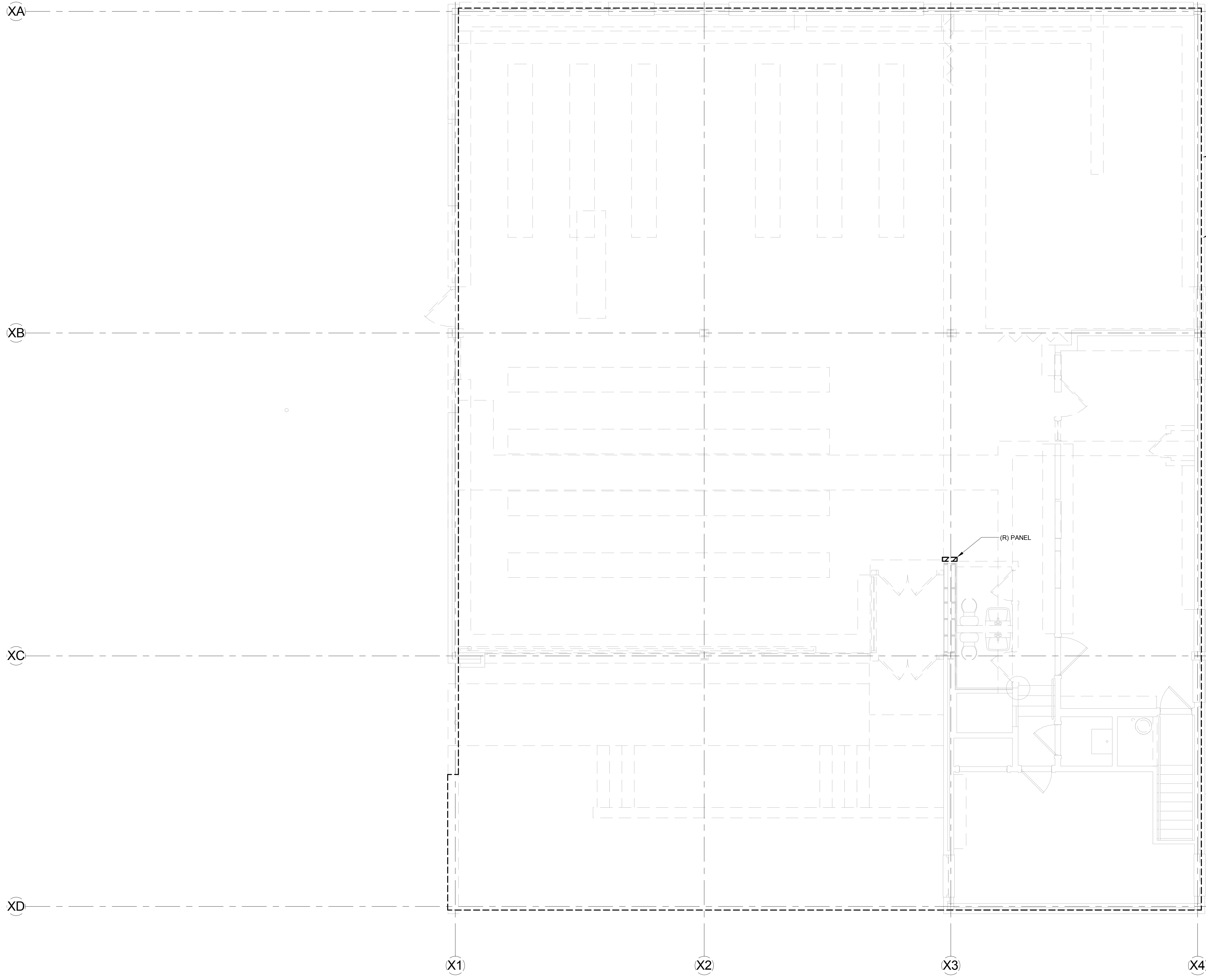
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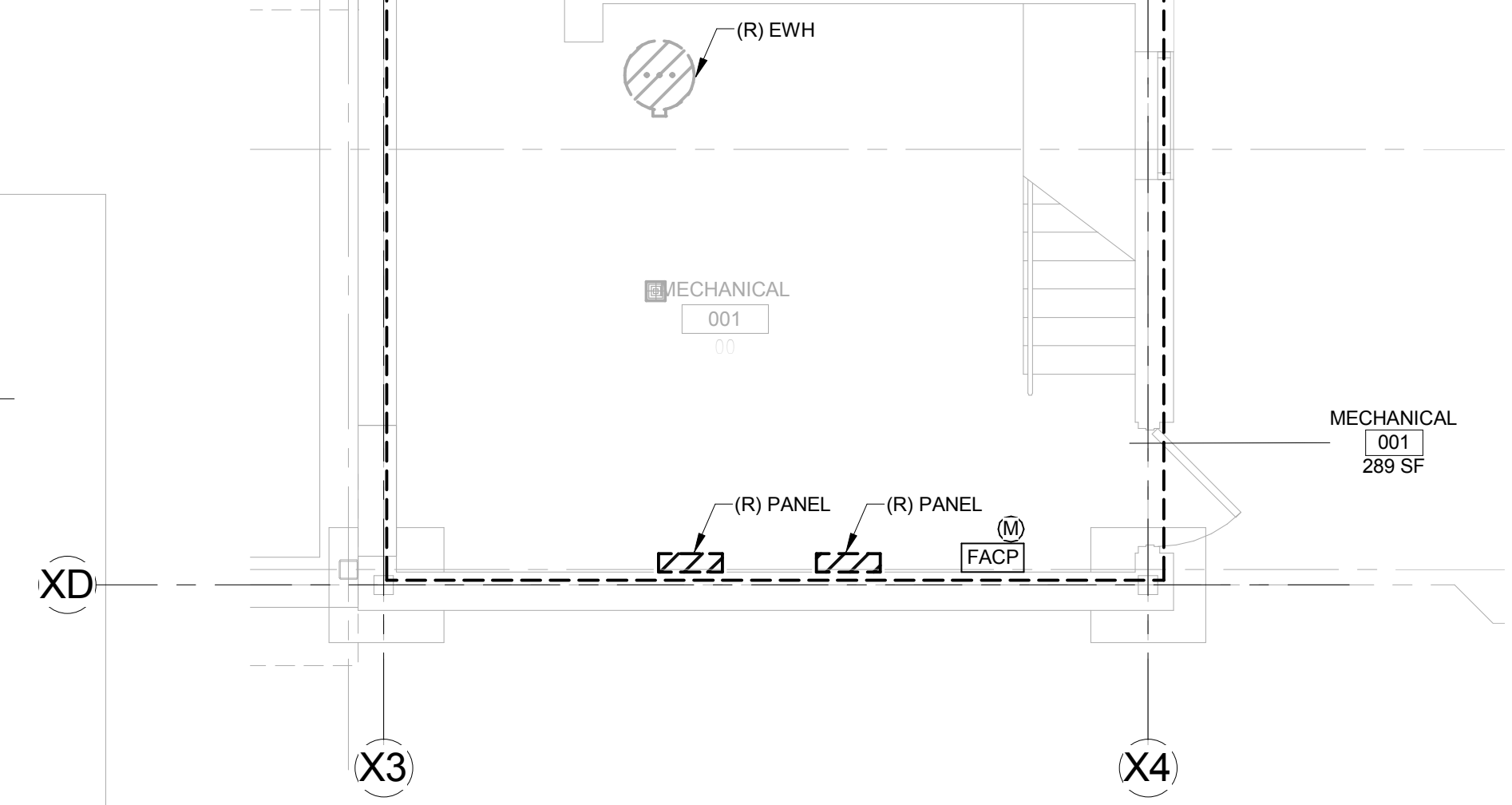


WITHIN BOUNDARY EXISTING ELECTRICAL DEVICES AND ASSOCIATED CONDUIT AND WIRING TO BE REMOVED. REMOVE WIRING BACK TO SOURCE. EXISTING FIRE ALARM NOTIFICATION DEVICES TO BE REMOVED AND REUSED IN NEW WORK SCOPE. REMOVE NOTIFICATION CIRCUITING BACK TO LOCAL FIRE ALARM PANEL. SEE DRAWING E401 FOR NEW WORK SCOPE.

WITHIN BOUNDARY REMOVE ALL LIGHT FIXTURES, EXISTING EXIT SIGNS TO BE REUSED AND RELOCATED. REMOVE LIGHTING CIRCUITS, SWITCHING, AND CONTROLS. SEE DRAWING E301 FOR NEW WORK SCOPE.

WITHIN BOUNDARY EXISTING ELECTRICAL DEVICES AND ASSOCIATED CONDUIT AND WIRING TO BE REMOVED. EXISTING FIRE ALARM NOTIFICATION DEVICES TO BE REMOVED AND REUSED IN NEW WORK SCOPE. REMOVE NOTIFICATION CIRCUITING BACK TO LOCAL FIRE ALARM PANEL. SEE DRAWING E401 FOR NEW WORK SCOPE.

WITHIN BOUNDARY REMOVE ALL LIGHT FIXTURES, EXISTING EXIT SIGNS TO BE REUSED AND RELOCATED. REMOVE LIGHTING CIRCUITS, SWITCHING AND CONTROLS. SEE DRAWING E301 FOR NEW WORK SCOPE.



2 BASEMENT POWER PLAN
ED101/ 1/4" = 1'-0"

1 LEVEL 1 OVERALL POWER PLAN
ED101/ 1/4" = 1'-0"

- GENERAL NOTES:**
1. ALL EQUIPMENT & DEVICES ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
 2. VERIFY ALL FIELD CONDITIONS AND LOCATIONS OF EQUIPMENT, DEVICES, AND WIRING PRIOR TO ELECTRICAL WORK. VERIFY AND TRACE OUT EXISTING CIRCUITING PRIOR TO START OF ANY WORK. DO NOT SCALE DRAWINGS.
 3. THE ELECTRIC WORK RELATING TO THE PROJECT IS SHOWN. OTHER EXISTING ELECTRICAL SYSTEMS AND COMPONENTS HAVE BEEN LEFT OFF OF THE DRAWING FOR CLARITY.
 4. COORDINATE WITH MECHANICAL AND/OR PLUMBING CONTRACTORS FOR THE REMOVAL OR MODIFICATION OF THEIR EQUIPMENT. DISCONNECT, RECONNECT, OR MODIFY CIRCUITING, INTERLOCKING, SWITCHING, ETC. TO COORDINATE WITH NEW WORK AND ALTERATIONS.

DRAWING TITLE

**BASEMENT & LEVEL 1
ELECTRICAL
DEMOLITION PLAN**

SCALE AS NOTED
DRAWN Author
CHECKED Checker
APPROVED SAE
DATE 2018

REVISIONS

SYMBOL	DATE	DESCRIPTION
	9-28-2018	DD SUBMISSION
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ED101

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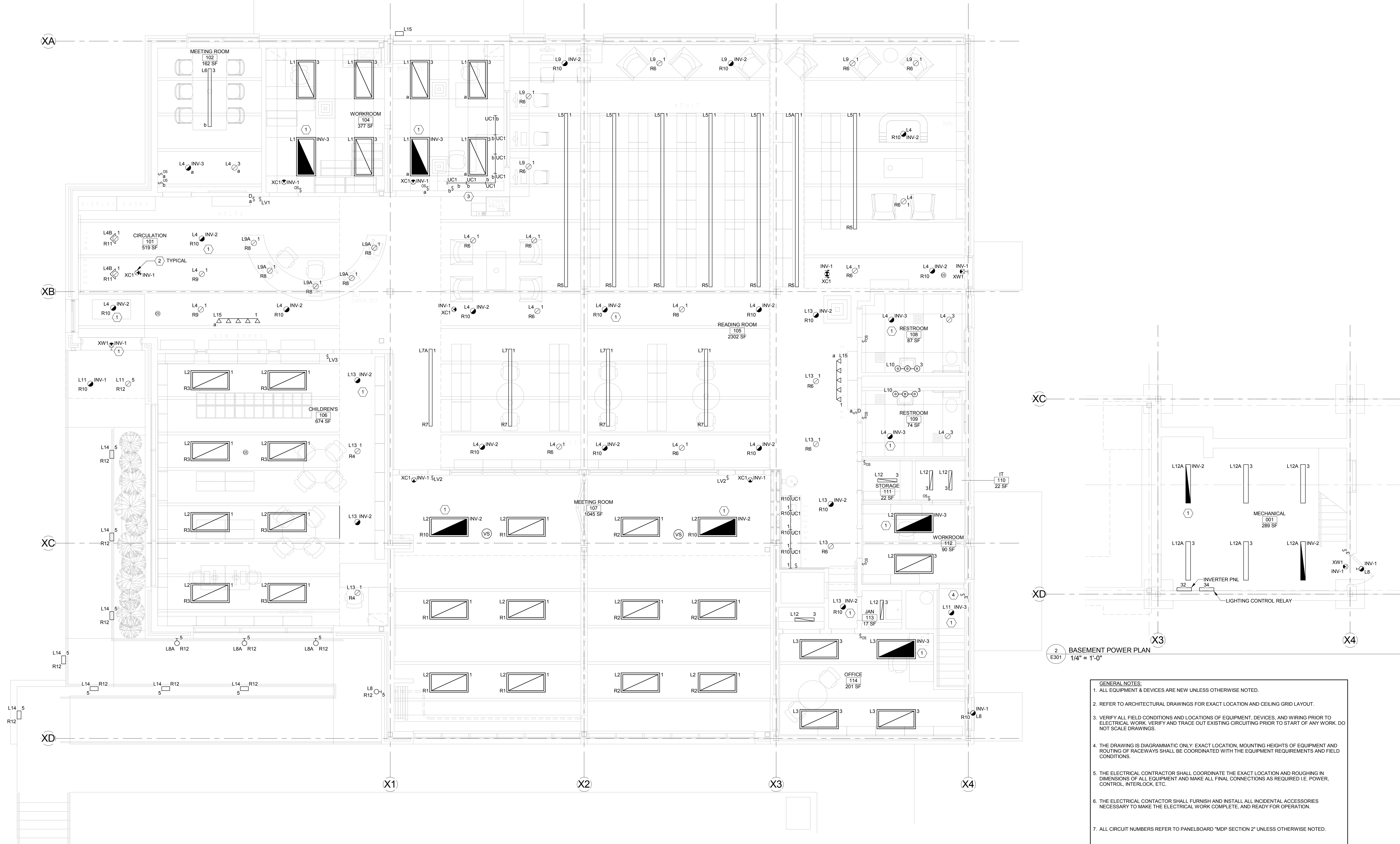
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2
EX01 BASEMENT POWER PLAN
1/4" = 1'-0"

GENERAL NOTES:

1. ALL EQUIPMENT & DEVICES ARE NEW UNLESS OTHERWISE NOTED.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND CEILING GRID LAYOUT.
3. VERIFY ALL FIELD CONDITIONS AND LOCATIONS OF EQUIPMENT, DEVICES, AND WIRING PRIOR TO ELECTRICAL WORK. VERIFY AND TRACE OUT EXISTING CIRCUITRY PRIOR TO START OF ANY WORK. DO NOT SCALE DRAWINGS.
4. THE DRAWING IS DIAGRAMMATIC ONLY. EXACT LOCATION, MOUNTING HEIGHTS OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED WITH THE EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS.
5. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION AND ROUGHING IN DIMENSIONS OF ALL EQUIPMENT AND MAKE ALL FINAL CONNECTIONS AS REQUIRED I.E. POWER, CONTROL, INTERLOCK, ETC.
6. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE ELECTRICAL WORK COMPLETE, AND READY FOR OPERATION.
7. ALL CIRCUIT NUMBERS REFER TO PANELBOARD "MDP SECTION 2" UNLESS OTHERWISE NOTED.

KEYED NEW WORK NOTES:

1. PROVIDE UL924 EMERGENCY RELAY ABOVE CEILING AS PER DETAIL #5E700.
2. COORDINATE NEW EXIT SIGNAGE MOUNTING HEIGHTS WITH ARCHITECT TO PREVENT VISIBILITY ISSUES WITH EXISTING AND NEW CEILING BEAM HEIGHTS.
3. WIRE UNDERCABINET LIGHT VIA LOCAL OCCUPANCY SENSOR.
4. TIE STAIR FIXTURE L11 IN WITH MECHANICAL ROOM FIXTURES L12A FOR CONTROLS.

1
EX01 Overall-Lighting Plan-01
1/4" = 1'-0"

DRAWING TITLE

**BASEMENT & LEVEL 1
LIGHTING PLANS**

SCALE	AS NOTED
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APPROVED	SAF
DATE	2018

SYMBOL	DATE	DESCRIPTION
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E301

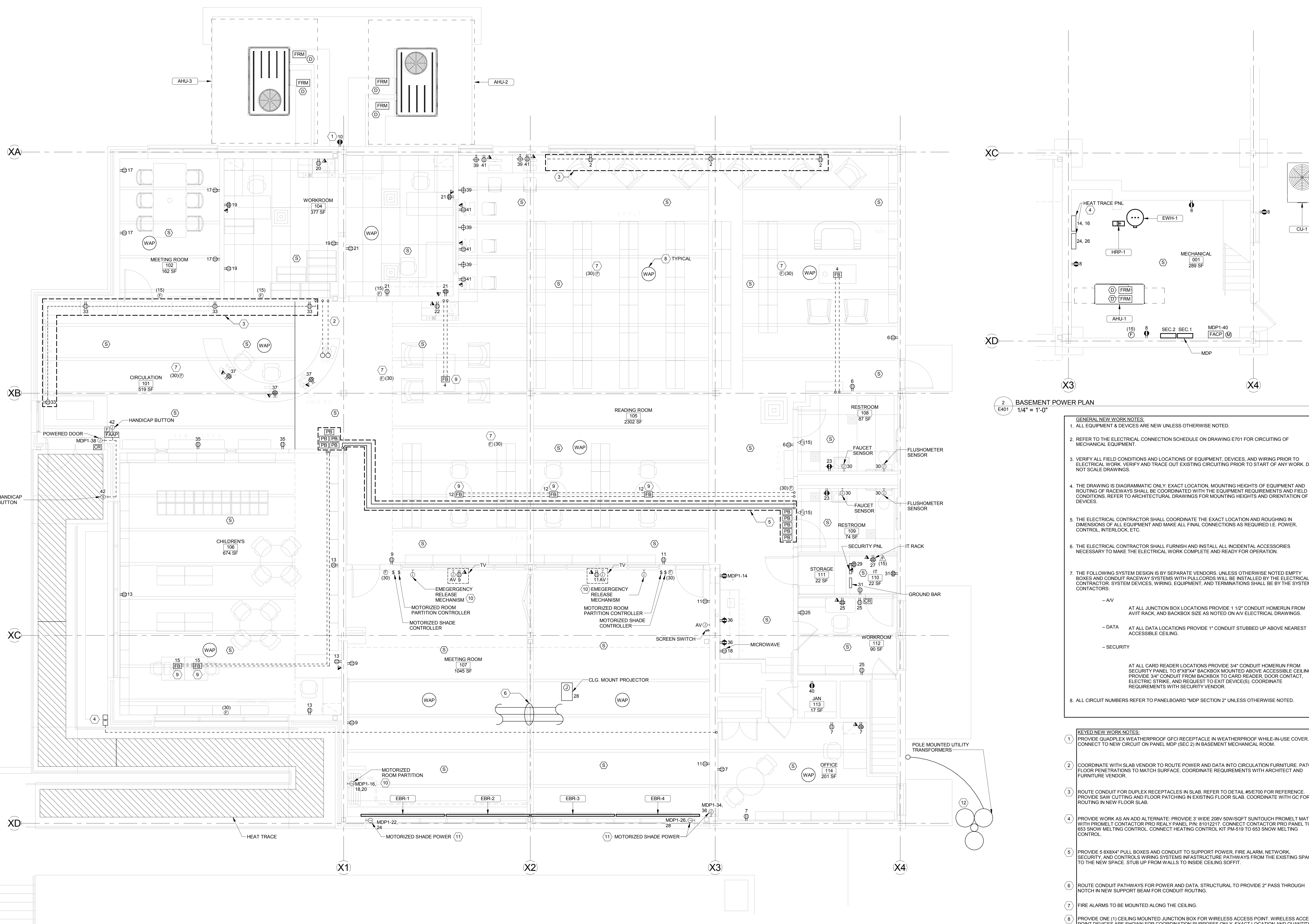
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AMBLER, PENNSYLVANIA 19002**

DRAWING TITLE
**BASEMENT & LEVEL 1
POWER PLANS**

SCALE	AS NOTED
DRAWN	RLO
CHECKED	CMF
APPROVED	SAF
DATE	2018

REVISIONS		
SYMBOL	DATE	DESCRIPTION
1	9-28-2018	DD SUBMISSION
2	10-31-2018	50% CD SUBMISSION
3	1-11-2019	100% CD SUBMISSION
4	6-21-2019	FOR BIDS AND PERMITS ONLY



1 LEVEL 1 OVERALL POWER PLAN
E401 1/4" = 1'-0"

2 BASEMENT POWER PLAN
E401 1/4" = 1'-0"

- GENERAL NEW WORK NOTES:**
- ALL EQUIPMENT & DEVICES ARE NEW UNLESS OTHERWISE NOTED.
 - REFER TO THE ELECTRICAL CONNECTION SCHEDULE ON DRAWING E701 FOR CIRCUITING OF MECHANICAL EQUIPMENT.
 - VERIFY ALL FIELD CONDITIONS AND LOCATIONS OF EQUIPMENT, DEVICES, AND WIRING PRIOR TO ELECTRICAL WORK. VERIFY AND TRACE OUT EXISTING CIRCUITING PRIOR TO START OF ANY WORK. DO NOT SCALE DRAWINGS.
 - THE DRAWING IS DIAGRAMMATIC ONLY. EXACT LOCATION, MOUNTING HEIGHTS OF EQUIPMENT AND ROUTINGS OF RACEWAYS SHALL BE COORDINATED WITH THE EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND ORIENTATION OF DEVICES.
 - THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION AND ROUGHING IN DIMENSIONS OF ALL EQUIPMENT AND MAKE ALL FINAL CONNECTIONS AS REQUIRED I.E. POWER, CONTROL, INTERLOCK, ETC.
 - THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE ELECTRICAL WORK COMPLETE AND READY FOR OPERATION.
 - THE FOLLOWING SYSTEM DESIGN IS BY SEPARATE VENDORS. UNLESS OTHERWISE NOTED EMPTY BOXES AND CONDUIT RACEWAY SYSTEMS WITH PULLCORDS WILL BE INSTALLED BY THE ELECTRICAL CONTRACTOR. SYSTEM DEVICES, WIRING, EQUIPMENT, AND TERMINATIONS SHALL BE BY THE SYSTEMS CONTRACTORS:
 - AV AT ALL JUNCTION BOX LOCATIONS PROVIDE 1 1/2" CONDUIT HOMERUN FROM AV/IT RACK, AND BACKBOX SIZE AS NOTED ON AV ELECTRICAL DRAWINGS.
 - DATA AT ALL DATA LOCATIONS PROVIDE 1" CONDUIT STUBBED UP ABOVE NEAREST ACCESSIBLE CEILING.
 - SECURITY AT ALL CARD READER LOCATIONS PROVIDE 3/4" CONDUIT HOMERUN FROM SECURITY PANEL TO 8"X8"X4" BACKBOX MOUNTED ABOVE ACCESSIBLE CEILING. PROVIDE 3/4" CONDUIT FROM BACKBOX TO CARD READER, LOCK CONTACT, ELECTRIC STRIKE, AND REQUEST TO EXIT DEVICE(S). COORDINATE REQUIREMENTS WITH SECURITY VENDOR.
 - ALL CIRCUIT NUMBERS REFER TO PANELBOARD "MDP SECTION 2" UNLESS OTHERWISE NOTED.

- KEYED NEW WORK NOTES:**
- PROVIDE QUADPLEX WEATHERPROOF GFCI RECEPTACLE IN WEATHERPROOF WHILE-IN-USE COVER. CONNECT TO NEW CIRCUIT ON PANEL MDP (SEC 2) IN BASEMENT MECHANICAL ROOM.
 - COORDINATE WITH SLAB VENDOR TO ROUTE POWER AND DATA INTO CIRCULATION FURNITURE. PATCH FLOOR PENETRATIONS TO MATCH SURFACE. COORDINATE REQUIREMENTS WITH ARCHITECT AND FURNITURE VENDOR.
 - ROUTE CONDUIT FOR DUPLEX RECEPTACLES IN SLAB. REFER TO DETAIL #5/E700 FOR REFERENCE. PROVIDE SAW CUTTING AND FLOOR PATCHING IN EXISTING FLOOR SLAB. COORDINATE WITH GC FOR ROUTING IN NEW FLOOR SLAB.
 - PROVIDE WORK AS AN ADD ALTERNATE: PROVIDE 3" WIDE 208V 50W/SQFT SMOOTH PROMELT MATS WITH PROMELT CONTACTOR PRO REALY PANEL PN: 81012217. CONNECT CONTACTOR PRO PANEL TO 855 SNOW MELTING CONTROL. CONNECT HEATING CONTROL KIT PM-519 TO 855 SNOW MELTING CONTROL.
 - PROVIDE 5 8X8X4" PULL BOXES AND CONDUIT TO SUPPORT POWER, FIRE ALARM, NETWORK, SECURITY, AND CONTROLS WIRING SYSTEMS INFRASTRUCTURE PATHWAYS FROM THE EXISTING SPACE TO THE NEW SPACE. STUB UP FROM WALLS TO INSIDE CEILING SOFFIT.
 - ROUTE CONDUIT PATHWAYS FOR POWER AND DATA. STRUCTURAL TO PROVIDE 2" PASS THROUGH NOTCH IN NEW SUPPORT BEAM FOR CONDUIT ROUTING.
 - FIRE ALARMS TO BE MOUNTED ALONG THE CEILING.
 - PROVIDE ONE (1) CEILING MOUNTED JUNCTION BOX FOR WIRELESS ACCESS POINT. WIRELESS ACCESS POINT DEVICES ARE SHOWN FOR COORDINATION PURPOSES ONLY. EXACT LOCATION AND QUANTITY OF DEVICES MUST BE COORDINATED WITH THE IT VENDOR.
 - PROVIDE (1) FLOORBOX WITH POWER AND DATA CONDUITS AS SHOWN. PROVIDE FLOOR CUTTING AND TRENCHING WHERE UNDERGROUND RACEWAYS ARE SHOWN. PROVIDE LEGRAND RATCHET PRO PN: 881 KIT RPTCTGBK. REFER TO DETAIL #4/E400 FOR TYPICAL POWER AND DATA FLOORBOX DETAIL.
 - PROVIDE JUNCTION BOXES WITH 3/4" CONDUIT FOR POWER FOR MOTORIZED ROOM PARTITION. COORDINATE FINAL POWER REQUIREMENTS WITH PARTITION VENDOR PRIOR TO INSTALLATION. REFER TO ROOM PARTITION NOTE.
 - PROVIDE JUNCTION BOXES WITH 3/4" CONDUIT FOR POWER FOR MECHOSHADOWS. COORDINATE FINAL POWER REQUIREMENTS WITH MECHOSHADOW VENDOR PRIOR TO INSTALLATION. COORDINATE MECHOSHADOW BOX LOCATION AND MOUNTING HEIGHTS WITH ARCHITECT AND VENDOR PRIOR TO INSTALLATION. REFER TO MECHOSHADOW NOTE.
 - REFER TO DETAIL #1/E700 AND #2/E700 FOR NEW ELECTRICAL SINGLE LINE AND NEW WORK. COORDINATE FINAL INSTALLATION WITH PECO.

ROOM PARTITION NOTE:
THE EC SHALL PROVIDE POWER TO THE MOTORIZED ROOM PARTITION PER ARCHITECTS DESIGN. REFER TO THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ALL REQUIREMENTS FOR A COMPLETE INSTALLATION. THE INFORMATION PROVIDED BELOW IS BASED ON ASSUMPTIONS MADE AND SHALL NOT BE CONSIDERED FINAL OR ALL INCLUSIVE. THE EC SHALL PROVIDE ONE (1) JUNCTION BOX AT THE PARTITION STORAGE SPACE IN THE MULTIPURPOSE ROOM. MOUNTING REQUIREMENTS SHALL BE COORDINATED WITH MANUFACTURER. EACH JUNCTION BOX SHALL BE WIRED BACK TO A 208V, 20A NEW CIRCUIT BREAKER IN NEW PANEL MDP1. CONTRACTOR SHALL PROVIDE AS MANY CIRCUITS AS NEEDED FOR POWERING UP THE PARTITION AS DETAILED IN ARCHITECTURAL PLANS AND SPECIFICATIONS. EACH SHADE CIRCUIT SHALL NOT EXCEED 15 AMPS. THE EC SHALL ALSO PROVIDE EMPTY CONDUITS WITH PULL CORDS AND BOXES FOR CONTROL WIRING AND SWITCH AT A LOCATION TO BE PROVIDED BY ARCHITECT. ALL ELECTRICAL REQUIREMENTS SHALL BE REVIEWED PRIOR TO BID.

MECHOSHADOW NOTE:
THE EC SHALL PROVIDE POWER TO ALL MECHOSHADOW(S) PER ARCHITECTS DESIGN. REFER TO THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ALL REQUIREMENTS FOR A COMPLETE INSTALLATION. THE INFORMATION PROVIDED BELOW IS BASED ON ASSUMPTIONS MADE AND SHALL NOT BE CONSIDERED FINAL OR ALL INCLUSIVE. THE EC SHALL PROVIDE ONE (1) JUNCTION BOX AT EACH PERIMETER WINDOW IN THE MULTIPURPOSE ROOM. MOUNTING REQUIREMENTS SHALL BE COORDINATED WITH MANUFACTURER. EACH JUNCTION BOX SHALL BE WIRED BACK TO A 208V, 20A NEW CIRCUIT BREAKER IN NEW PANEL MDP1. CONTRACTOR SHALL PROVIDE AS MANY CIRCUITS AS NEEDED FOR POWERING UP ALL SHADES AS DETAILED IN ARCHITECTURAL PLANS AND SPECIFICATIONS. EACH SHADE CIRCUIT SHALL NOT EXCEED 15 AMPS. THE EC SHALL ALSO PROVIDE EMPTY CONDUITS WITH PULL CORDS AND BOXES FOR CONTROL WIRING AND SWITCH AT A LOCATION TO BE PROVIDED BY ARCHITECT. ALL ELECTRICAL REQUIREMENTS SHALL BE REVIEWED PRIOR TO BID.

CONSULTANTS

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SEAL

PROJECT # 6203.00

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND THE ARCHITECT NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE CONSTRUCTION

DO NOT SCALE DRAWINGS
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PROJECT TITLE

**WISSAHICKON VALLEY PUBLIC LIBRARY
ADDITIONS & ALTERATIONS
209 RACE STREET
AMBLER, PENNSYLVANIA 19002**

DRAWING TITLE

ROOF POWER PLANS

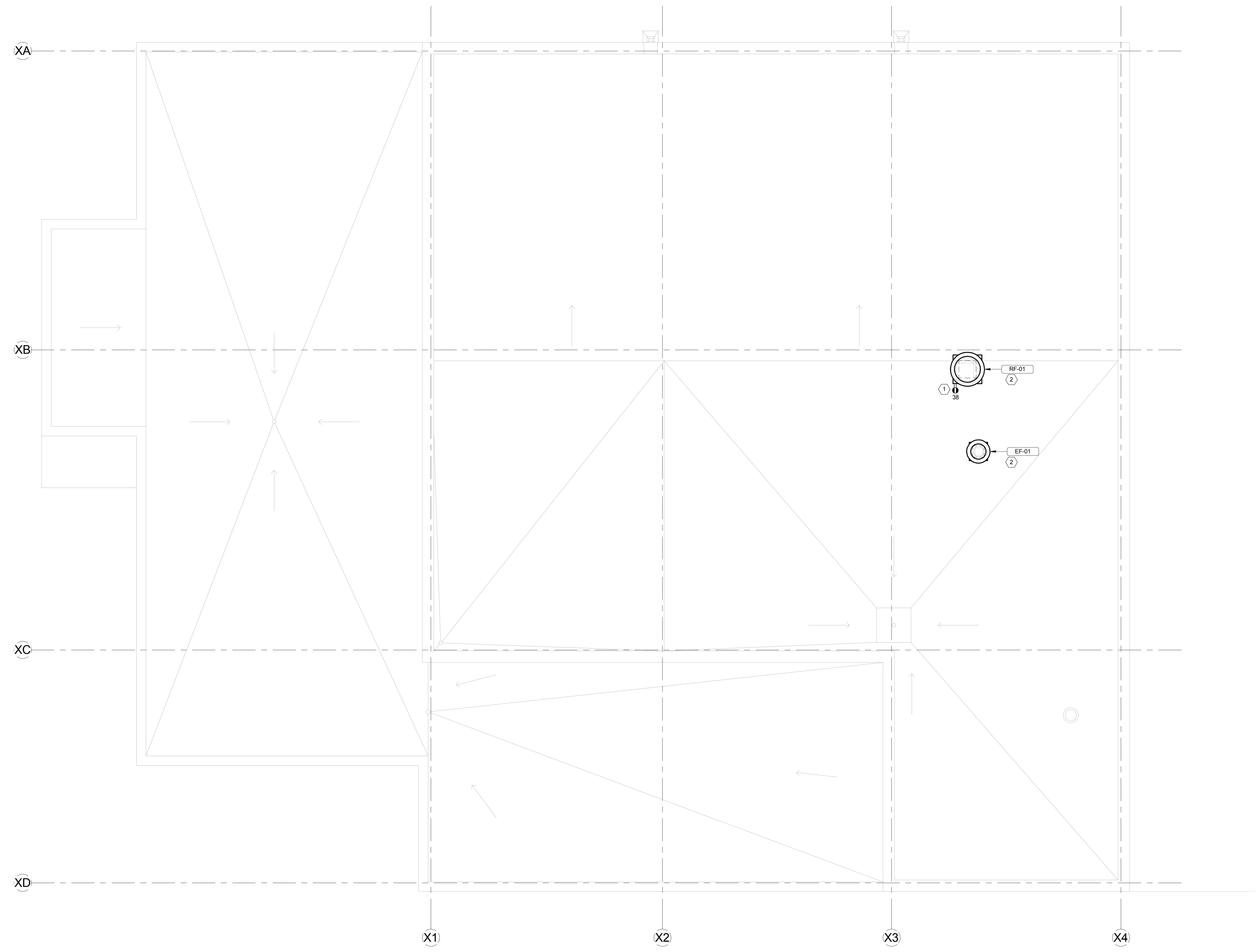
SCALE	AS NOTED
DRAWN	RLO
CHECKED	CMF
APPROVED	SAF
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SYMBOL	DATE	DESCRIPTION
	9-28-2018	DD SUBMISSION
	10-31-2018	50% CD SUBMISSION
	1-11-2019	100% CD SUBMISSION
	6-21-2019	FOR BIDS AND PERMITS ONLY

DRAWING #

E402

NOT FOR CONSTRUCTION



GENERAL NEW WORK NOTES:

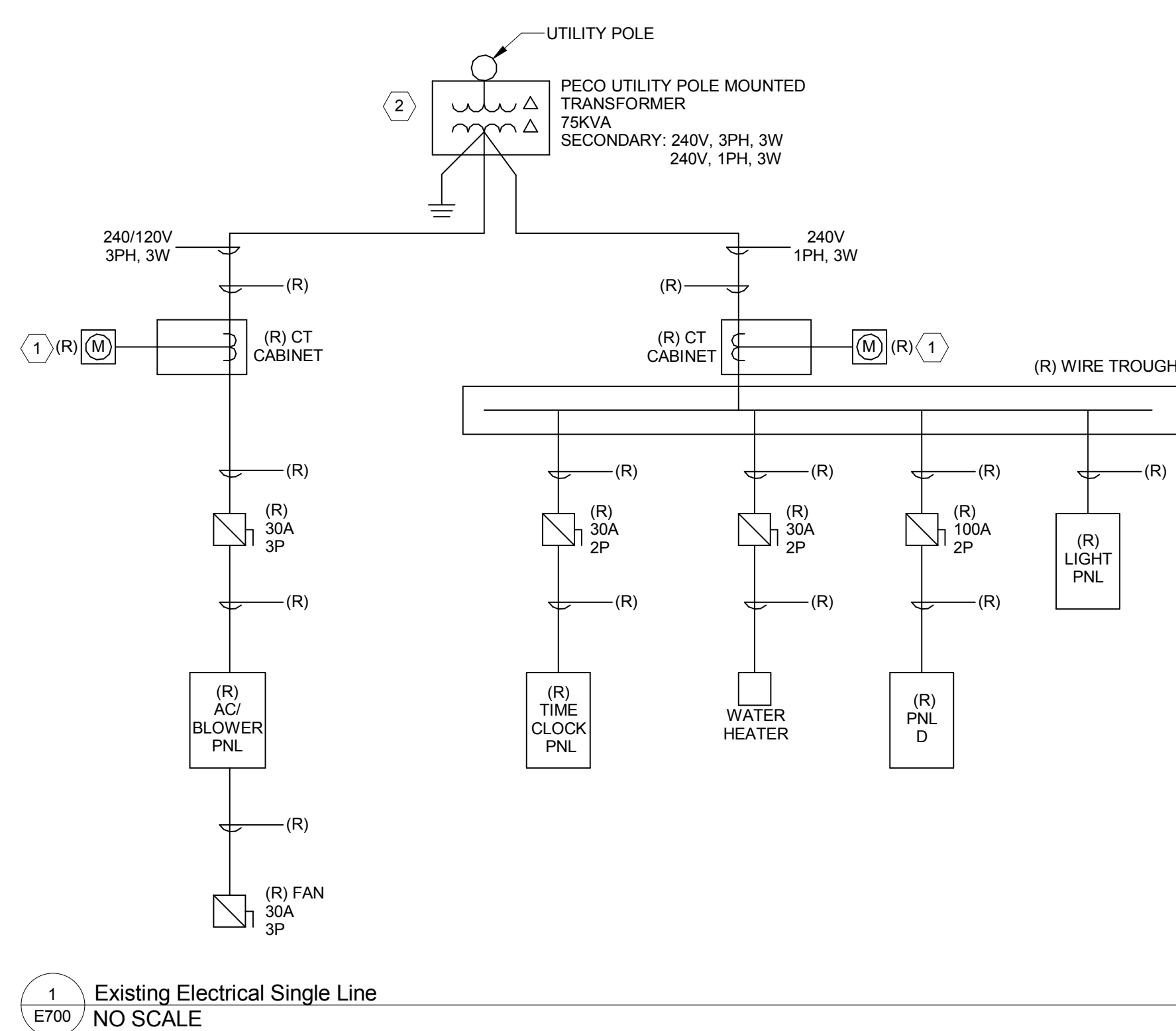
- ALL EQUIPMENT & DEVICES ARE NEW UNLESS OTHERWISE NOTED.
- REFER TO THE ELECTRICAL CONNECTION SCHEDULE ON DRAWING E701 FOR CIRCUITING OF MECHANICAL EQUIPMENT.
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 - AV
AT ALL JUNCTION BOX LOCATIONS PROVIDE 1 1/2" CONDUIT HOMERUN FROM AVIT RACK, AND BACKBOX SIZE AS NOTED ON AVV ELECTRICAL DRAWINGS.
 - DATA
AT ALL DATA LOCATIONS PROVIDE 1" CONDUIT STUBBED UP ABOVE NEAREST ACCESSIBLE CEILING.
 - SECURITY
AT ALL CARD READER LOCATIONS PROVIDE 3/4" CONDUIT HOMERUN FROM SECURITY PANEL TO 6"X8"X4" BACKBOX MOUNTED ABOVE ACCESSIBLE CEILING. PROVIDE 3/4" CONDUIT FROM BACKBOX TO CARD READER, DOOR CONTACT, ELECTRIC STRIKE, AND REQUEST TO EXIT DEVICES. COORDINATE REQUIREMENTS WITH SECURITY VENDOR.
- ALL CIRCUIT NUMBERS REFER TO PANELBOARD "MDP SECTION 2" UNLESS OTHERWISE NOTED.

KEYED NEW WORK NOTES:

- PROVIDE DUPLEX WEATHERPROOF GFCI RECEPTACLE IN WEATHERPROOF WHILE-IN-USE COVER. CONNECT TO NEW CIRCUIT ON PANEL MDP (SEC 2) IN BASEMENT MECHANICAL ROOM.
- PROVIDE NEW ROOF PENETRATIONS AND SLEEVES TO ACCOMMODATE CONDUIT TO NEW MECHANICAL EQUIPMENT. ALL NEW EXTERIOR CONDUIT SHALL BE GALVANIZED RIGID STEEL WITH THREADED FITTINGS.

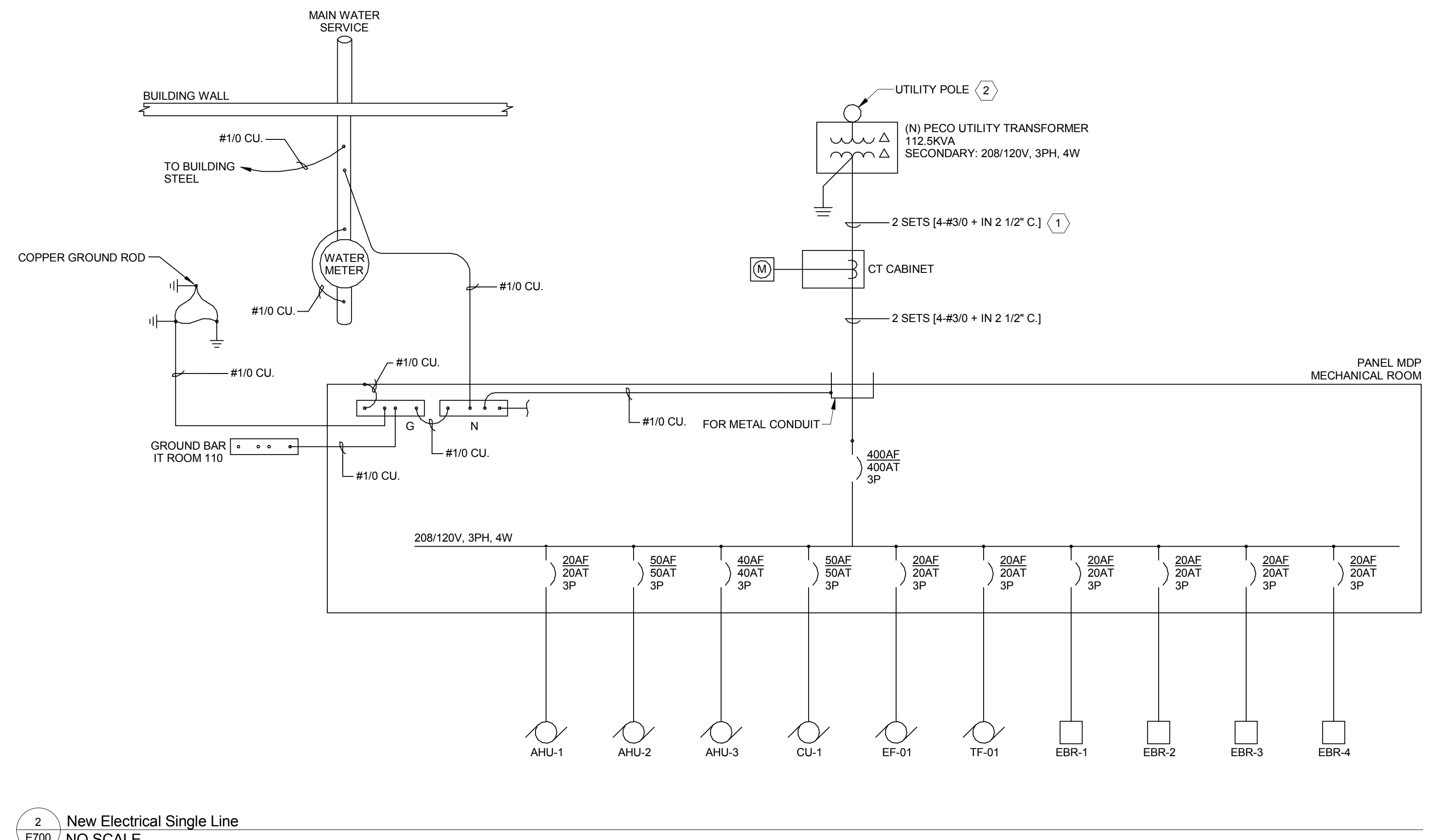
1
E402 ROOF POWER PLAN
1/4" = 1'-0"

WISSAHICKON VALLEY PUBLIC LIBRARY ADDITIONS & ALTERATIONS 209 RACE STREET AMBLER, PENNSYLVANIA 19002



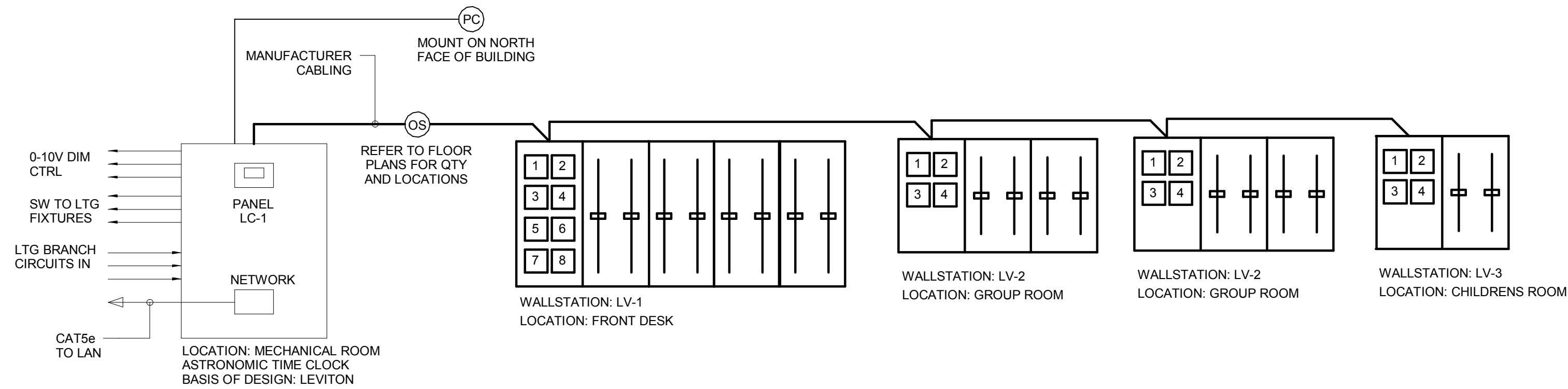
GENERAL NEW WORK NOTES:
1. ALL EQUIPMENT & DEVICES ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

KEYED NOTES:
1. TURN OVER EXISTING METER TO PECO.
2. EXISTING SERVICE CONDUIT, CABLING AND WEATHERHEADS ALONG WALL TO BE REMOVED. REFER TO DETAIL #E700 FOR NEW WORK SCOPE.



GENERAL NEW WORK NOTES:
1. ALL EQUIPMENT & DEVICES ARE NEW UNLESS OTHERWISE NOTED.

KEYED NOTES:
1. EXTEND CABLING UP POLE WITH 15' SPARE. PROVIDE CABLE/CONDUIT GUARD(S) AS REQUIRED BY PECO. FINAL SERVICE CONNECTION AT TRANSFORMER PROVIDED BY PECO. COORDINATE WITH PECO PRIOR TO INSTALLATION.
2. PROVIDE NEW WEATHER HEAD, CONDUIT, AND CABLING ALONG LIBRARY WALL TO CONNECT TO NEW PECO SERVICE. PROVIDE CORING THROUGH EXISTING WALL TO ACCOMMODATE NEW CONDUIT SIZES. COORDINATE WITH PECO PRIOR TO INSTALLATION.



220V, 120V, 1-PHASE				PANEL INV-1	
CIRCUIT	TRIP	POLE	DESCRIPTION	LOAD	
1	20	1	EM.LTG - EXTERIOR LIGHTS, EXIT SIGNS	0.10	
2	20	1	EM.LTG - MULTIPURPOSE ROOM, CHILDREN'S ROOM, READING ROOM, CIRCULATION ROOM	0.75	
3	20	1	EM.LTG - OFFICES, BATHROOMS, WORKROOMS, MECHANICAL ROOM	0.40	
4	20	1	SPARE		
				TOTAL KVA	1.25
				CONNECTED AMPS	10.42

NOTES:

LV1

BUTTON	FUNCTION	RELAYS CONTROLLED	BUTTON TEXT
1	DIMMING	LC1-R5	READING ROOM LINEARS
2	DIMMING	LC1-R6	READING ROOM DOWNLIGHTS
3	DIMMING	LC1-R8	CIRCULATION DESK
4	DIMMING	LC1-R9	CIRCULATION DOWNLIGHTS
5	DIMMING	LC1-R7	READING ROOM LINEARS
6	DIMMING	LC1-R11	READING ROOM WALL WASH
7	DIMMING	LC1-R10	READING ROOM EMERGENCY

LV2

BUTTON	FUNCTION	RELAYS CONTROLLED	BUTTON TEXT
1	DIMMING	LC1-R1	EMERGENCY LIGHT A
2	DIMMING	LC1-R2	MULTIPURPOSE A
3	DIMMING	LC1-R3	EMERGENCY LIGHT
4	DIMMING	LC1-R4	MULTIPURPOSE B

LV3

BUTTON	FUNCTION	RELAYS CONTROLLED	BUTTON TEXT
1	DIMMING	LC2-R7	DOWNLIGHTS
SLIDE 1	DIMMING	LC2-R8	2'X4' TROFFERS

LIGHTING RELAY PANEL SCHEDULE

120V, SURFACE MOUNTED										
RELAY NO.	DESCRIPTION	VOLTAGE	POLES	CIRCUIT NUMBER	TC	OCC	OV/DE SW	PC	DS	CL
1	(D) LTG - MEETING ROOM	120	1	MDP (SEC 2) - 1		ON/OFF	SLV2			
2	(D) LTG - MEETING ROOM	120	1	MDP (SEC 2) - 1		ON/OFF	SLV2			
3	(D) LTG - CHILDREN'S ROOM TROFFERS	120	1	MDP (SEC 2) - 1		ON/OFF	SLV3			
4	(D) LTG - CHILDREN'S ROOM DOWNLIGHTS	120	1	MDP (SEC 2) - 1		ON/OFF	SLV3			
5	(D) LTG - READING ROOM LINEARS	120	1	MDP (SEC 2) - 1	X					
6	(D) LTG - READING ROOM DOWNLIGHTS	120	1	MDP (SEC 2) - 1	X					
7	(D) LTG - READING ROOM LINEARS	120	1	MDP (SEC 2) - 1	X					
8	(D) LTG - CIRCULATION DESK	120	1	MDP (SEC 2) - 1	X					
9	(D) LTG - ENTRY DOWNLIGHTS	120	1	MDP (SEC 2) - 1	X					
10	(D) EMER LTG - READING ROOM ENTRY	120	1	INV - 2						
11	(D) LTG - WALLWASH DOWNLIGHTS	120	1	MDP (SEC 2) - 1		ON/OFF	SLV1			
12	(D) LTG - OUTDOOR FIXTURES	120	1	MDP (SEC 2) - 5		ON/OFF	TC TO OCC	X		
13	SPARE	120	1	-						
14	SPARE	120	1	-						
15	SPARE	120	1	-						
16	SPARE	120	1	-						

NOTES:
1. NETWORK CONTROL: TC = TIME CLOCK, OCC = OCCUPANCY SENSOR, OV/DE SW = OVERRIDE SWITCH, PS = PHOTODIODE
2. RELAYS CONTROLLING EMERGENCY LIGHTS SHALL FAIL CLOSED UPON LOSS OF NORMAL POWER.
3. PROVIDE STEEL BARRIER TO SEPARATE NORMAL FROM EMERGENCY.
4. RELAYS CONTROLLING EMERGENCY LIGHTS SHALL FAIL SAFE UPON LOSS OF POWER.
5. PROVIDE DIMMABLE RELAYS, DENOTED WITH A 'D', FOR LIGHTING FIXTURES WITH DIMMING

GENERAL NOTES:
1. VERIFY BUTTON TEXT WITH ARCHITECT/OWNER.
2. VERIFY BUTTON COLOR/FINISH WITH ARCHITECT/OWNER.
3. VERIFY TIME SCHEDULE WITH ARCHITECT/OWNER.
4. RELAYS SHALL FAIL CLOSED UPON LOSS OF POWER.

SEQUENCE OF OPERATIONS:
1. MANUAL TOGGLE ON/OFF AND DIMMING VIA LOW VOLTAGE SWITCHES.
2. UPON LOSS OF NORMAL POWER DESIGNATED EMERGENCY FIXTURES SHALL DEFAULT TO FULL ON.

