

CHILLER AND SWITCHGEAR REPLACEMENT

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CHILLER AND SWITCHGEAR
REPLACEMENT

KG+D Project No.
2022-1049

DESIGN TEAM

CONSTRUCTION DOCUMENTS

OCTOBER 29TH, 2024

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PROJECT DESCRIPTION:

THE SCOPE OF THIS PROJECT PROVIDES NEW EXTERIOR CHILLERS AND ASSOCIATED APPURTENANCES (PIPING, CONNECTIONS, SUPPORTS, ETC.), REMOVAL OF THE EXISTING INTERIOR CHILLER AND WATER PUMPS SYSTEM, NEW WATER PUMPS AND ASSOCIATED APPURTENANCES (CHEMICAL TREATMENT, EXPANSION TANK, PIPING, ETC.), AND A REPLACEMENT FOR THE EXISTING DISTRIBUTION BOARD.

LIST OF DRAWINGS

MECHANICAL

- H001 - LEGEND, ABBREVIATIONS AND NOTES
- H101 - PART SITE PLAN
- H102 - BASEMENT MECHANICAL PLAN
- H301 - SCHEDULES
- H401 - DETAILS

ELECTRICAL

- E001 - LEGEND, ABBREVIATIONS, NOTES AND DETAILS
- E101 - ELECTRICAL SITE AND FLOOR PLAN
- E102 - ELECTRICAL SCHEDULES AND RISER

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

GENERAL REMOVAL NOTES

- THE SCOPE OF REMOVAL SHOWN ON "REMOVALS" DRAWINGS IS DIAGRAMMATIC ONLY AND INDICATES THE INTENT OF THE WORK TO BE PERFORMED AND NOT THE COMPLETE SCOPE OF DEMOLITION AND/OR REMOVAL WORK. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO REMOVE ANY RELATED MECHANICAL DEVICES EVEN IF NOT SPECIFICALLY INDICATED TO BE REMOVED ON THESE DRAWINGS IN ORDER TO ACCOMMODATE NEW WORK.
- DEVICES SHOWN CROSS HATCHED ON DRAWINGS ARE ITEMS TO BE REMOVED. ANY DEVICES REMOVED SHALL INCLUDE (BUT SHALL NOT BE LIMITED TO) THE REMOVAL OF ALL ASSOCIATED PIPING, CONTROLS, ETC. THAT ARE NOT INCORPORATED IN THE NEW LAYOUT, UNTIL SUCH REMOVAL IS COMPLETE. THIS CONTRACTOR SHALL PERFORM ALL WORK REQUIRED TO INSURE CONTINUITY OF SERVICE TO EXISTING REMAINING EQUIPMENT. NO EXTRAS RELATING TO THE SCOPE OF WORK DESCRIBED WILL BE ALLOWED.
- EQUIPMENT, PIPING, ETC., REQUIRED TO RECONNECT SHALL BE INSTALLED CONCEALED WITHIN THE NEW SUSPENDED CEILINGS, PARTITIONS AND/OR WALLS, FLOORS, NO SURFACE MOUNTED OR EXPOSED EQUIPMENT, PIPING, ETC., SHALL BE PERMITTED, UNLESS SPECIFICALLY INDICATED.
- ALL ITEMS TO BE REMOVED SHALL BE REVIEWED WITH THE OWNER PRIOR TO REMOVAL. OWNER SHALL HAVE FIRST SALVAGE RIGHTS. ITEMS THE OWNER WISHES TO KEEP SHALL BE REMOVED WITH CARE AND STORED AS DIRECTED BY OWNER. ITEMS THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
- REMOVE OR RELOCATE ALL DEVICES LOCATED ON THE EXTERIOR OF THE BUILDING OR ON THE INTERIOR OF EXTERIOR WALLS AS REQUIRED TO ACCOMMODATE A NEW BUILDING ADDITION OR TO ALLOW THE ADDITION OF DOORWAYS INTO THE NEW ADDITION.
- REMOVALS SHALL BE COORDINATED WITH OTHER TRADES AFFECTED.
- REMOVAL OF ANY PIECE OF EQUIPMENT OR TERMINAL DEVICE SHALL INCLUDE REMOVAL OF CONNECTING DUCTWORK AND PIPING BACK TO EXISTING MAINS THAT REMAIN. CAP EACH BRANCH AIR/WATER-TIGHT. CONTROLS AND CONTROL COMPONENTS SHALL ALSO BE REMOVED. DO NOT LEAVE COMPONENTS (CONTROLLERS, PNEUMATICS, ETC.) THAT HAVE NO FUNCTION. PROVIDE CONTROL WIRING, DUCTWORK, PIPING, ETC. AS NECESSARY TO MAINTAIN CONTINUITY OF SERVICE FOR EQUIPMENT OR TERMINAL DEVICES TO REMAIN.
- ALL PIPING TO BE REMOVED SHALL BE PROPERLY PLUGGED OR CAPPED BENEATH FINISHED SURFACES, SO THAT UPON COMPLETION OF ALL NEW WORK, ALL ABANDONED PIPING SHALL BE CONCEALED IN FINISHED AREAS.
- NO DEAD ENDS SHALL BE LEFT ON ANY PIPING UPON COMPLETION OF JOB. BRANCHES SHALL BE CUT AND CAPPED AT MAINS. THE EXISTING SYSTEM SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF NEW WORK.
- CHIMNEY INSPECTION AND SOOT REMOVAL: ON PROJECTS INCLUDING BOILER REMOVAL OR REPLACEMENT, CONTRACTOR SHALL GATHER TOGETHER WITH A VACUUM-CLEANING MACHINE ALL ACCUMULATIONS OF SOOT. HE SHALL REMOVE ALL SOOT FROM THE BASE OF THE CHIMNEY. THE CHIMNEY SHALL BE INSPECTED AND ANY DEFICIENCIES NOTED IN A WRITTEN REPORT.

ABBREVIATIONS

AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
ATC	AUTOMATIC TEMPERATURE CONTROL TRADE CONTRACTOR
ATC	AUTOMATIC TEMPERATURE CONTROL SYSTEM
BMS	BUILDING MANAGEMENT SYSTEM (ATC)
BR	BOTTOM WALL REGISTER
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CR	CEILING REGISTER
CO	CLEAN OUT (DOOR)
CV	MOTORIZED CONTROL VALVE
EC	ELECTRICAL CONTRACTOR
EMS	ENERGY MANAGEMENT SYSTEM (ATC)
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FSC	FULL SIZE CONNECTION
FSD	FIRE/SMOKE DAMPER
GC	GENERAL TRADES CONTRACTOR
HVAC	HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR
MFR	MANUFACTURER
MD	MOTORIZED DAMPER
OA/FAI	OUTSIDE (FRESH) AIR INTAKE
PFRE	PRE-FINISHED SHEET METAL ENCLOSURE
PL	PLUMBING CONTRACTOR
SMRE	SHEET METAL RISER ENCLOSURE (PRE-FINISHED)
TD	TRANSFER DUCT
TR	TOP WALL REGISTER
WMG	1/2" SQ. WIRE MESH GRILLE
VIF	VERIFY IN FIELD

GENERAL NOTES

- BEFORE SUBMITTING A PROPOSAL, BIDDERS SHALL EXAMINE ALL RELATED TO THIS WORK AND SHALL BECOME FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK REQUIRED AND ITS RELATION TO THE OTHER WORK IN THE BUILDING.
- BEFORE COMMENCING WORK, THE CONTRACTOR WILL EXAMINE ALL CONDITIONS OF THE PROJECT UPON WHICH HIS WORK IS IN ANY WAY DEPENDENT FOR PERFECT WORKMANSHIP ACCORDING TO THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. NO "WAIVER OF RESPONSIBILITY" FOR INCOMPLETE, INADEQUATE OR DEFECTIVE ADJOINING WORK WILL BE CONSIDERED UNLESS NOTICE HAS BEEN FILED BY THIS CONTRACTOR AND ACCEDED TO BY THE OWNER'S REPRESENTATIVE IN WRITING BEFORE THE CONTRACTOR BEGINS ANY PART OF THE WORK.
- THE CONTRACTOR WILL PAY FOR ALL LICENSES, PERMITS AND INSPECTION FEES REQUIRED BY CIVIL AUTHORITIES HAVING JURISDICTION. COMPLY WITH ALL LAWS, ORDINANCES, REGULATIONS, AND FIRE UNDERWRITER'S REQUIREMENTS APPLICABLE TO WORK HEREIN SPECIFIED WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- SMALL SCALE DRILLING THROUGH WALLS AND FLOORS OR CUTTING OF PIPING INSULATION WHICH MAY CONTAIN ASBESTOS SHALL BE PERFORMED BY A PERSON WITH A "RESTRICTED ASBESTOS HANDLER ALLIED TRADES CERTIFICATE" AND SHALL HAVE A COPY OF IT IN HIS POSSESSION AT ALL TIMES WHILE WORKING OF THE PROJECT. THIS SHALL ALSO APPLY TO REMOVAL OF PIPING, DUCTWORK OR EQUIPMENT INSULATION.
- IT IS SPECIFICALLY INTENDED THAT ANYTHING (WHETHER MATERIAL OR LABOR), WHICH IS USUALLY FURNISHED AS A PART OF SUCH EQUIPMENT, AS IS HEREINAFTER CALLED FOR (AND WHICH IS NECESSARY FOR THE COMPLETION AND PROPER OPERATION) SHALL BE FURNISHED AS PART OF THIS CONTRACT WITHOUT ADDITIONAL COST THE OWNER, WHETHER OR NOT SHOWN IN DETAIL OR DESCRIBED IN THE SPECIFICATIONS.
- WHEN DRAWINGS AND SPECIFICATIONS CONFLICT OR THERE IS A QUESTION AS TO THE PROPER INTENT OF THE CONTRACT, THE CONTRACTOR SHALL ASSUME THE GREATER QUANTITY, THE HIGHER QUALITY AND/OR THE MORE EXPENSIVE METHOD IN HIS PRICING. ALL QUESTIONS SHALL BE DIRECTED TO THE ARCHITECT/ENGINEER IN WRITING ONLY AND ONLY UP TO TEN (10) DAYS PRIOR TO BIDDING.
- THE DRAWINGS INDICATE THE GENERAL RUNS OF THE PIPING, DUCTWORK, ETC. SYSTEMS AND THE LOCATION OF EQUIPMENT AND APPARATUS, HOWEVER IT SHALL BE UNDERSTOOD THAT THE RIGHT IS RESERVED BY THE ARCHITECT/ENGINEER TO CHANGE THE LOCATION OF PIPING WORK, DUCTWORK, EQUIPMENT AND APPARATUS TO A REASONABLE EXTENT AS BUILDING CONDITIONS MAY DICTATE, PRIOR TO THEIR INSTALLATION WITHOUT EXTRA COST TO THE OWNER.
- ALL DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS. THE CONTRACTOR SHALL ACCOUNT FOR ANY LINING IN SIZING OF SHEET METAL.
- ALL COMPONENTS SUPPLIED BY THIS CONTRACTOR SHALL BE UL LISTED AND/OR ETL LABELED AND SHALL CONFORM TO ASHRAE STANDARD 15.
- ANY CHANGES FROM THE DRAWINGS AND SPECIFICATIONS AND ANY INTERPRETATION THEREOF SHALL HAVE THE PRIOR APPROVAL OF THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL SUBMIT IN WRITING, AT THE TIME OF SIGNING THE CONTRACT, ANY ITEMS OF NECESSARY LABOR AND MATERIALS, WHICH, IN HIS OPINION, ARE LACKING IN REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS TO INSURE A COMPLETE JOB IN ALL RESPECTS. NO CONSIDERATION WILL BE GRANTED TO ALLEGED MISUNDERSTANDING OF MATERIALS TO BE FURNISHED, WORK TO BE DONE, OR CONDITIONS TO BE COMPLIED WITH, IT BEING UNDERSTOOD THAT THE TENDER OF A PROPOSAL CARRIES WITH IT THE AGREEMENT TO ALL ITEMS AND CONDITIONS REFERRED TO HEREIN, OR INDICATED ON THE ACCOMPANYING DRAWINGS.
- FURNISH ALL COMBINATION MOTOR STARTER/DISCONNECTS FOR EQUIPMENT (WITH THE EXCEPTION OF STARTERS AND ELECTRIC ITEMS ALREADY MOUNTED ON EQUIPMENT OR EQUIPMENT NOT REQUIRING SAME). FAN MOTOR STARTER/DISCONNECTS SHALL HAVE CONTACTS FOR ATC CONNECTION AND A TERMINAL BLOCK CONNECTION FOR FIRE ALARM FAN SHUTDOWN STARTERS PER MANUFACTURERS RECOMMENDATIONS. UNDERWRITERS INSPECTION AND CERTIFICATE REQUIRED. COORDINATE WITH ELECTRICAL CONTRACTOR.
- THIS CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PROVIDING ELECTRIC, GAS, WATER, ETC. CONNECTIONS TO SYSTEMS OR EQUIPMENT THAT ARE PART OF THIS CONTRACT. PROVIDE EQUIPMENT THAT ARE PART OF THIS CONTRACT. PROVIDE EQUIPMENT CUTS AND EXACT LOCATIONS, INCLUDING ORIENTATION, OF ALL SYSTEMS AND EQUIPMENT REQUIRING SUCH CONNECTIONS. THIS SHALL BE DONE WELL IN ADVANCE OF THOSE TRADES INSTALLING THEIR CONNECTION WORK.
- COORDINATION DRAWINGS (IF APPLICABLE): ATTENTION IS DIRECTED TO DIVISION 1 FOR COORDINATION DRAWING REQUIREMENTS FOR THIS PROJECT. THESE DRAWINGS ARE CRITICAL TO THE PROPER EXECUTION OF THE WORK AND FAILURE TO HONOR THESE REQUIREMENTS MAY BECOME THE BASIS FOR DENIAL OF ANY AND ALL CLAIMS FOR EITHER OR BOTH "TIME" AND "MONEY".
- LOCATION AND SIZES OF EXISTING PIPING, DUCTWORK, EQUIPMENT, ETC. ARE APPROXIMATE. EXACT SIZES AND LOCATIONS OF ALL EXISTING WORK SHALL BE VERIFIED ON THE JOB.
- BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO SUBMISSION OF BID TO DETERMINE WHAT WORK MUST BE PERFORMED AFTER NORMAL BUSINESS HOURS. UNLESS OTHERWISE DIRECTED ANY NOISY WORK (CHOPPING, CORE DRILLING, HAMMERING, ETC.) AND BUILDING POWER INTERRUPTIONS SHALL BE PERFORMED OUTSIDE OF NORMAL BUSINESS HOURS. CONFIRM NORMAL BUSINESS HOURS WITH BUILDING OWNER. NO ADDITIONAL COST WILL BE CHARGED TO OWNER FOR WORK PERFORMED OUTSIDE NORMAL BUSINESS HOURS.
- REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED ITEMS.
- OPENINGS AROUND PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. ALL SLEEVES MUST HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR FIRE BARRIER #CP-25 (NO LESS THAN 3" THICK BACKED UP WITH MINERAL WOOL).
- PREPARE "AS-BUILT" DRAWINGS THAT REFLECT ACTUAL CONSTRUCTION AND SHOW DEVIATIONS FROM DESIGN DRAWINGS.

LEGEND

	EXISTING DUCTWORK, EQUIPMENT, ETC. TO REMAIN		HOT WATER COIL IDENTIFICATION
	EXISTING DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED		HOT WATER HEATER IDENTIFICATION
	POINT OF CHANGE IN DUCT SIZE, NEW DUCTWORK		HOT WATER PUMP IDENTIFICATION
	THERMAL ACOUSTIC LINING, NEW DUCTWORK		HEAT EXCHANGER IDENTIFICATION
	FLEXIBLE CONNECTION, NEW DUCTWORK		MAKEUP AIR UNIT IDENTIFICATION
	POINT OF CHANGE IN DUCT SIZE, SQUARE DUCT TURN WITH TURNING VANES		SOUND ATTENUATOR IDENTIFICATION
	EXISTING CEILING DIFFUSER		SUPPLY FAN IDENTIFICATION
	EXISTING 3-WAY CEILING DIFFUSER		ROOF MOUNTED AIR HANDLING UNIT IDENTIFICATION
	EXISTING 2-WAY CEILING DIFFUSER		RETURN FAN IDENTIFICATION
	EXISTING CEILING REGISTER		ROOFTOP UNIT IDENTIFICATION
	TYPE NEW 2-WAY CEILING DIFFUSER		UNIT HEATER IDENTIFICATION
	TYPE NEW 3-WAY CEILING DIFFUSER		UNIT VENTILATOR IDENTIFICATION
	TYPE NEW 2-WAY CEILING DIFFUSER		UNIT VENTILATOR AIR CONDITIONER IDENTIFICATION
	TYPE NEW CEILING EXHAUST/REGISTER		UNIT VENTILATOR FRESH AIR INTAKE IDENTIFICATION
	TYPE NEW REGISTER/DIFFUSER IDENTIFICATION		VERTICAL UNIT VENTILATOR IDENTIFICATION
	DUCT DROP; DUCT RISE		EXISTING AIR CONDITIONING UNIT IDENTIFICATION
	DUCT MTD. MANUAL AIR VOLUME DAMPER (W/LOCKING DEVICE)		EXISTING AIR HANDLING UNIT IDENTIFICATION
	MOTORIZED AIR VOLUME DAMPER (W/ACCESS DOOR)		EXISTING BOILER IDENTIFICATION
	FIRE DAMPER (U.L. APPROVED) & ACCESS DOOR		EXISTING CHEMICAL FEED TANK IDENTIFICATION
	FIRE & SMOKE DAMPER (U.L. APPROVED) & ACCESS DOOR		EXISTING CABINET HEATER IDENTIFICATION
	HOT WATER HEATING SUPPLY PIPING		EXISTING CHILLED WATER PUMP IDENTIFICATION
	HOT WATER RETURN / HOT WATER REVERSE RETURN PIPING		EXISTING CONDENSATE PUMP IDENTIFICATION
	CHILLED WATER SUPPLY PIPING		EXISTING CONVECTOR IDENTIFICATION
	CHILLED WATER RETURN PIPING		EXISTING CONDENSING UNIT IDENTIFICATION
	LIQUID REFRIGERANT PIPING		EXISTING DEHUMIDIFIER IDENTIFICATION
	SUCTION REFRIGERANT PIPING		EXISTING DEDICATED OUTDOOR AIR SYSTEM IDENTIFICATION
	HOT GAS REFRIGERANT PIPING		EXISTING DEDICATED DUCTLESS SPLIT INDOOR UNIT IDENTIFICATION
	CONDENSATE DRAIN PIPING		EXISTING DEDICATED DUCTLESS SPLIT OUTDOOR UNIT IDENTIFICATION
	GEOTHERMAL GROUND LOOP WATER SUPPLY PIPING		EXISTING DIRECT EXPANSION REFRIGERANT COIL IDENTIFICATION
	GEOTHERMAL GROUND LOOP WATER RETURN PIPING		EXISTING EXHAUST FAN IDENTIFICATION
	EXISTING HOT WATER HEATING SUPPLY PIPING		EXISTING ENERGY RECOVERY UNIT IDENTIFICATION
	EXISTING HOT WATER HEATING RETURN PIPING		EXISTING EXPANSION TANK IDENTIFICATION
	EXISTING HOT WATER HEATING REVERSE RETURN PIPING		EXISTING INDOOR VRF FAN COIL UNIT IDENTIFICATION
	EXISTING CHILLED WATER SUPPLY PIPING		EXISTING VRF FLOW SELECTOR IDENTIFICATION
	EXISTING CHILLED WATER RETURN PIPING		EXISTING FUEL OIL TANK IDENTIFICATION
	EXISTING LOW PRESSURE STEAM PIPING		EXISTING FUEL OIL PUMP IDENTIFICATION
	EXISTING CONDENSATE RETURN PIPING		EXISTING GLYCOL FEED SYSTEM IDENTIFICATION
	FLOW DIRECTION WITHIN PIPE CONNECTION TO EQUIPMENT ABOVE		EXISTING GEOTHERMAL PUMP IDENTIFICATION
	GATE VALVE (HORIZONTAL/VERTICAL)		EXISTING GRAVITY RELIEF VENT IDENTIFICATION
	COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)		EXISTING GROUND SOURCE HEAT PUMP UNIT IDENTIFICATION
	2-WAY CONTROL VALVE		EXISTING AIR SOURCE HEAT PUMP VRF IDENTIFICATION
	3-WAY CONTROL VALVE		EXISTING CEILING RADIANT HEATING PANEL IDENTIFICATION
	EXPANSION JOINT, ANCHOR AND GUIDES		EXISTING HUMIDIFIER IDENTIFICATION
	CHECK VALVES		EXISTING HOT WATER COIL IDENTIFICATION
	PIPE CONNS. (BOTTOM; TOP 45 OR 90; PIPE UP)		EXISTING HOT WATER HEATER IDENTIFICATION
	AUTOMATIC AIR VENT IDENTIFICATION		EXISTING HOT WATER PUMP IDENTIFICATION
	THERMOMETER		EXISTING HEAT EXCHANGER IDENTIFICATION
	PRESSURE GAUGE (WITH SHUT-OFF COCK)		EXISTING MAKEUP AIR UNIT IDENTIFICATION
	AIR HANDLING UNIT IDENTIFICATION		EXISTING SOUND ATTENUATOR IDENTIFICATION
	BOILER IDENTIFICATION		EXISTING SUPPLY FAN IDENTIFICATION
	CHEMICAL FEED TANK IDENTIFICATION		EXISTING ROOF MOUNTED AIR HANDLING UNIT IDENTIFICATION
	CABINET HEATER IDENTIFICATION		EXISTING RETURN FAN IDENTIFICATION
	CHILLED WATER PUMP IDENTIFICATION		EXISTING ROOFTOP UNIT IDENTIFICATION
	CONDENSATE PUMP IDENTIFICATION		EXISTING UNIT HEATER IDENTIFICATION
	CONVECTOR IDENTIFICATION		EXISTING UNIT VENTILATOR IDENTIFICATION
	CONDENSING UNIT IDENTIFICATION		EXISTING UNIT VENTILATOR AIR CONDITIONER IDENTIFICATION
	DEHUMIDIFIER IDENTIFICATION		EXISTING UNIT VENTILATOR FRESH AIR INTAKE IDENTIFICATION
	DEDICATED OUTDOOR AIR SYSTEM IDENTIFICATION		EXISTING VERTICAL UNIT VENTILATOR IDENTIFICATION
	DEDICATED DUCTLESS SPLIT INDOOR UNIT IDENTIFICATION		EXISTING WALL MTD. TEMPERATURE SENSOR/THERMOSTAT
	DEDICATED DUCTLESS SPLIT OUTDOOR UNIT IDENTIFICATION		WALL MTD. CARBON DIOXIDE SENSOR
	DIRECT EXPANSION REFRIGERANT COIL IDENTIFICATION		RELATIVE HUMIDITY SENSOR
	EXHAUST FAN IDENTIFICATION		COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)
	ENERGY RECOVERY UNIT IDENTIFICATION		SUMMER/WINTER VALVE
	EXPANSION TANK IDENTIFICATION		DOOR UNDERCUT
	INDOOR VRF FAN COIL UNIT IDENTIFICATION		LOW DOOR LOUVER
	VRF FLOW SELECTOR IDENTIFICATION		POINT OF DISCONNECTION
	FUEL OIL TANK IDENTIFICATION		POINT OF CONNECTION, NEW TO EXISTING
	FUEL OIL PUMP IDENTIFICATION		SECTION/DETAIL/ELEVATION/PART PLAN NUMBER
	GLYCOL FEED SYSTEM IDENTIFICATION		DRAWING NUMBER
	GEOTHERMAL PUMP IDENTIFICATION		SECTION/ELEVATION IDENTIFICATION
	GRAVITY RELIEF VENT IDENTIFICATION		
	GROUND SOURCE HEAT PUMP UNIT IDENTIFICATION		
	AIR SOURCE HEAT PUMP VRF IDENTIFICATION		
	HUMIDIFIER IDENTIFICATION		

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Professional Seal



11-29-2024 BID ISSUE

No. 1 Date Issue

Sheet Title

LEGEND, ABBREVIATIONS, AND NOTES

Job No. Date 07/31/2024

Scale AS NOTED Drawn / Checked BG/ABG

Sheet Number

H001

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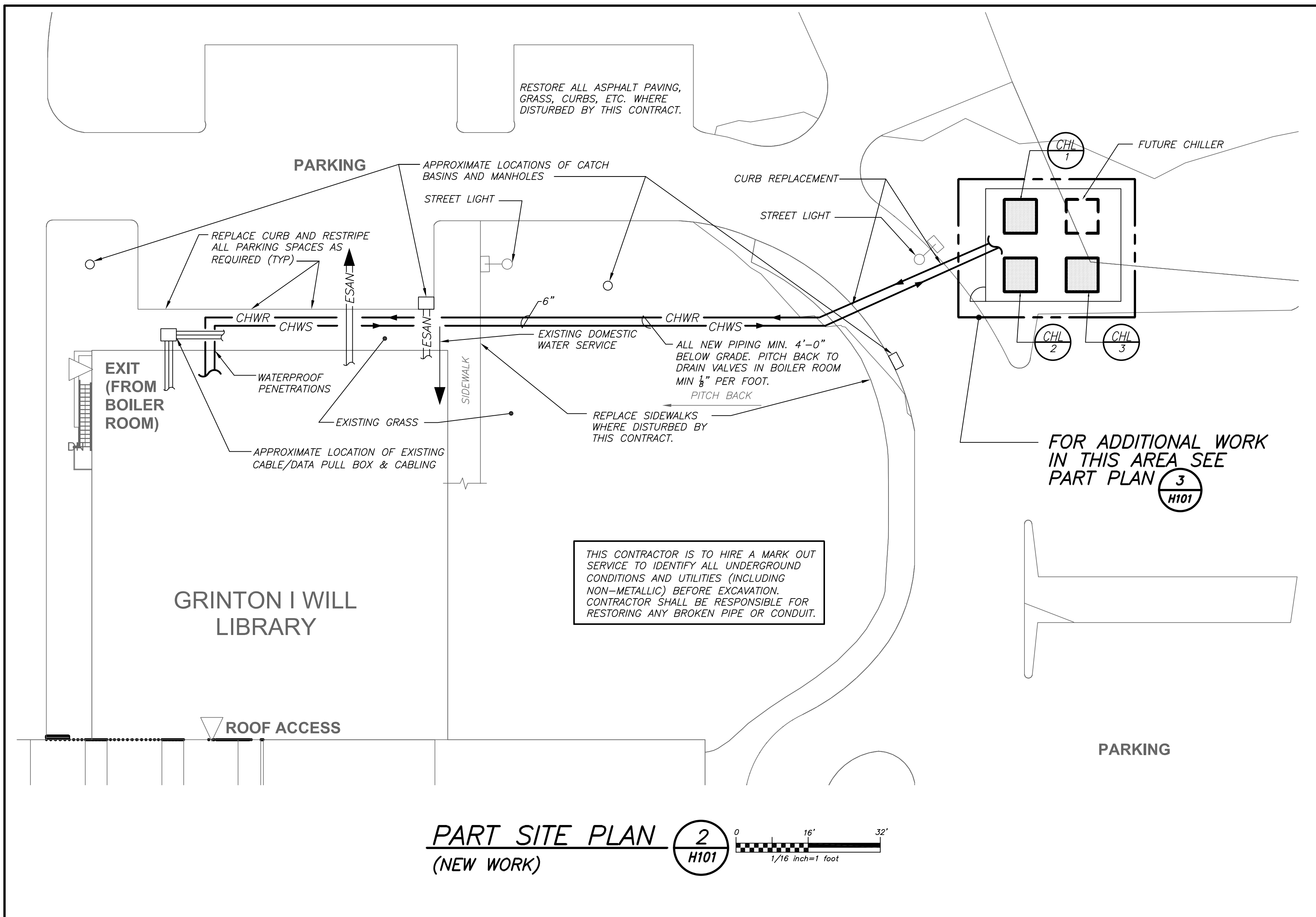
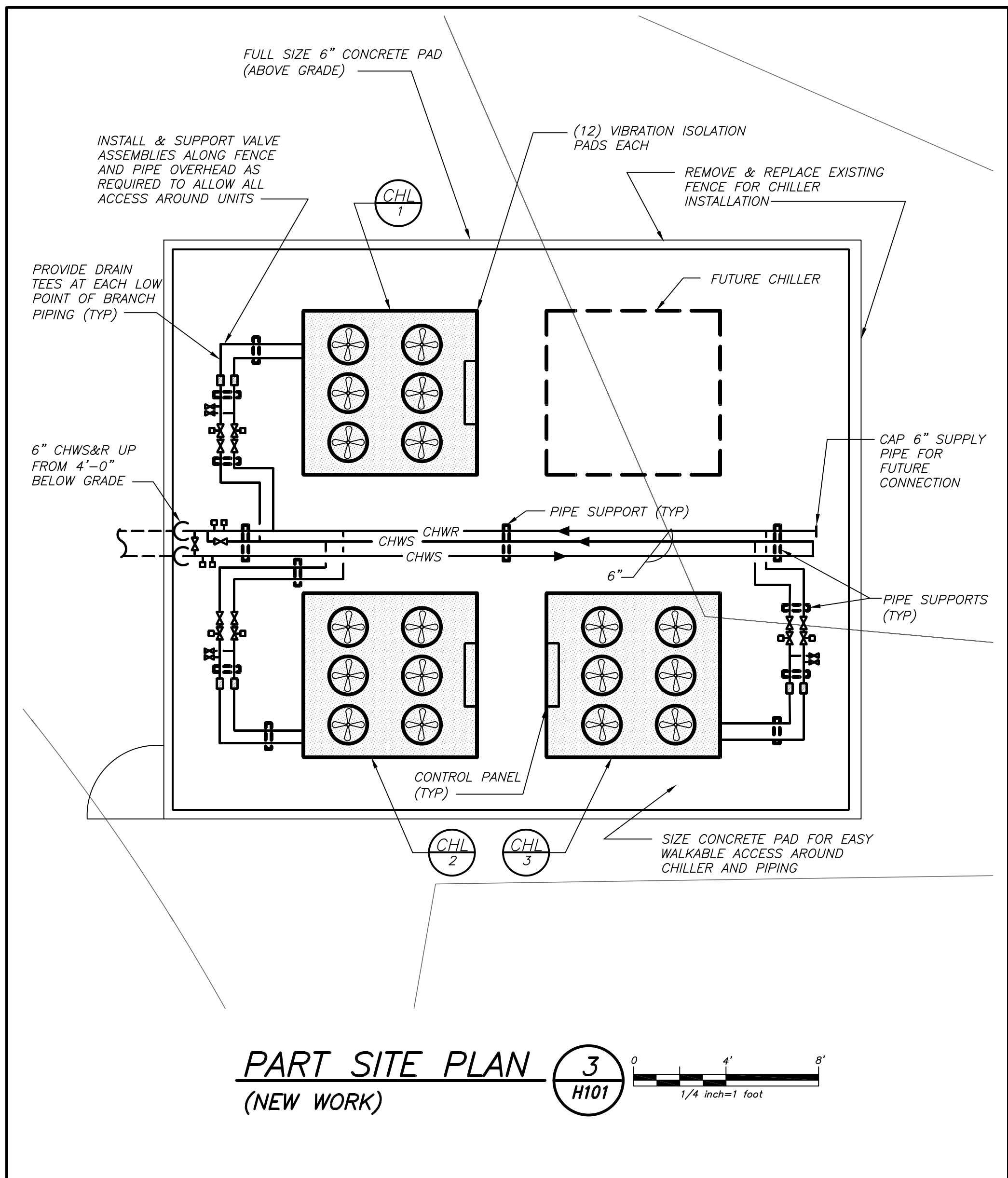
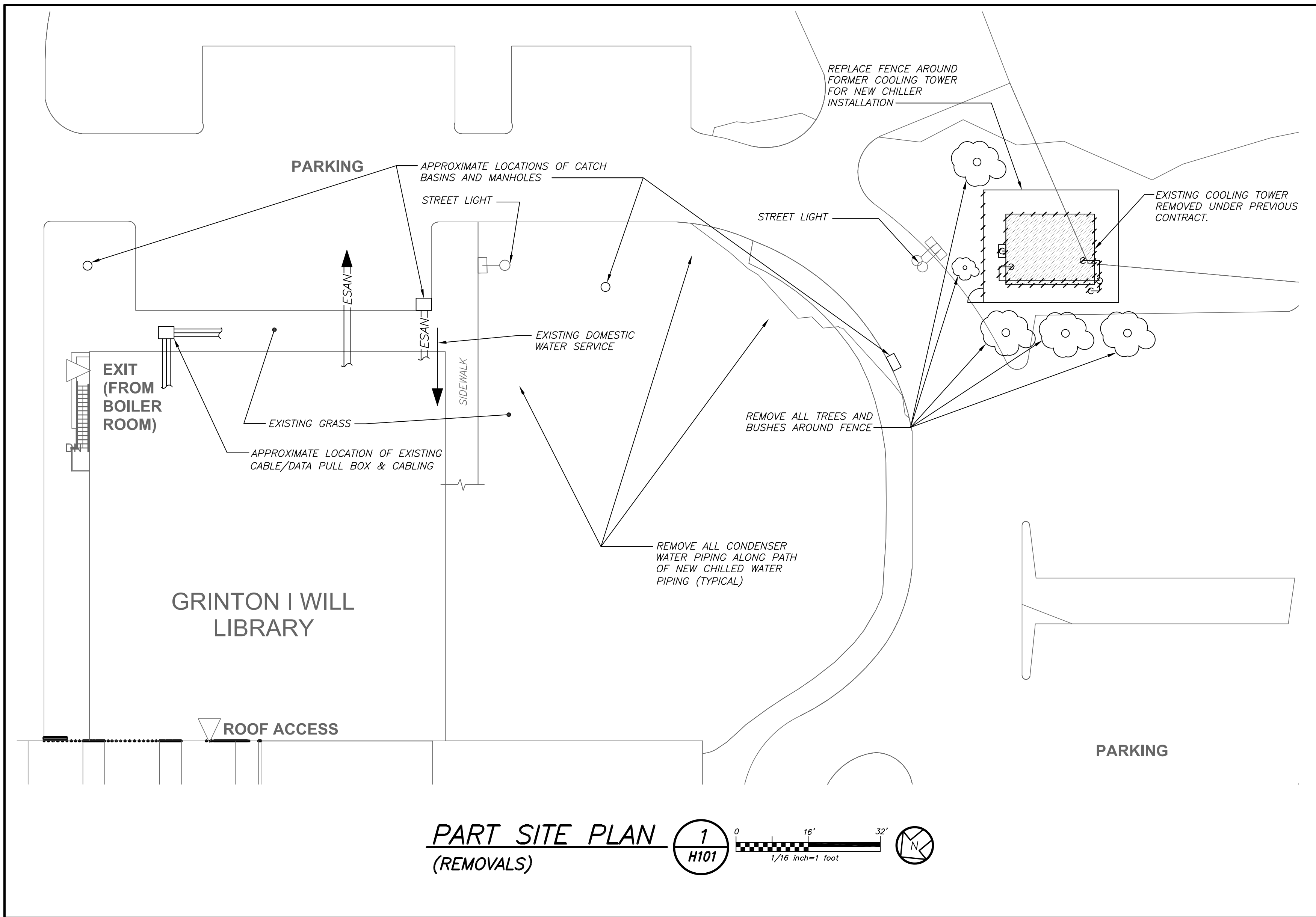
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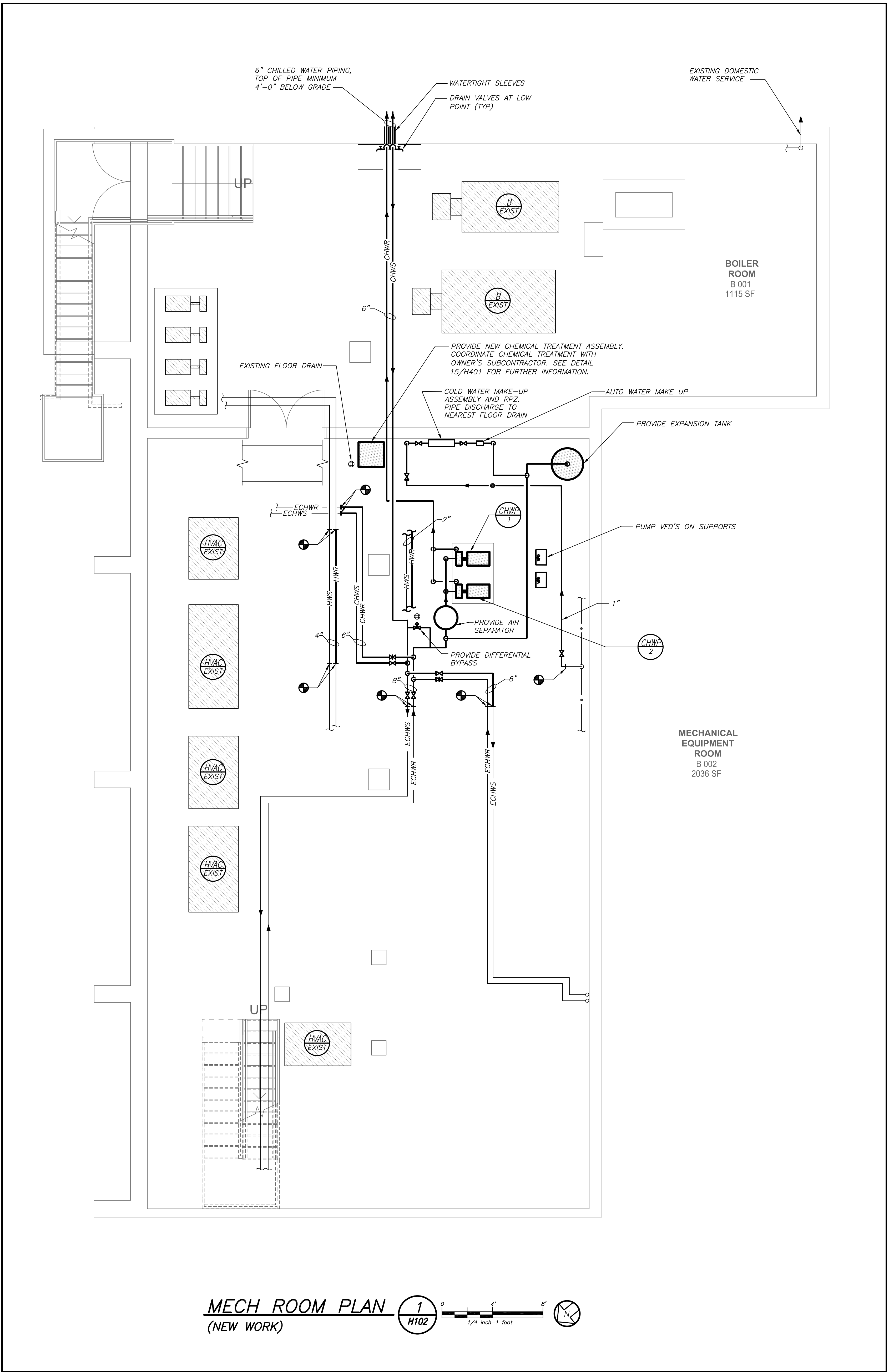
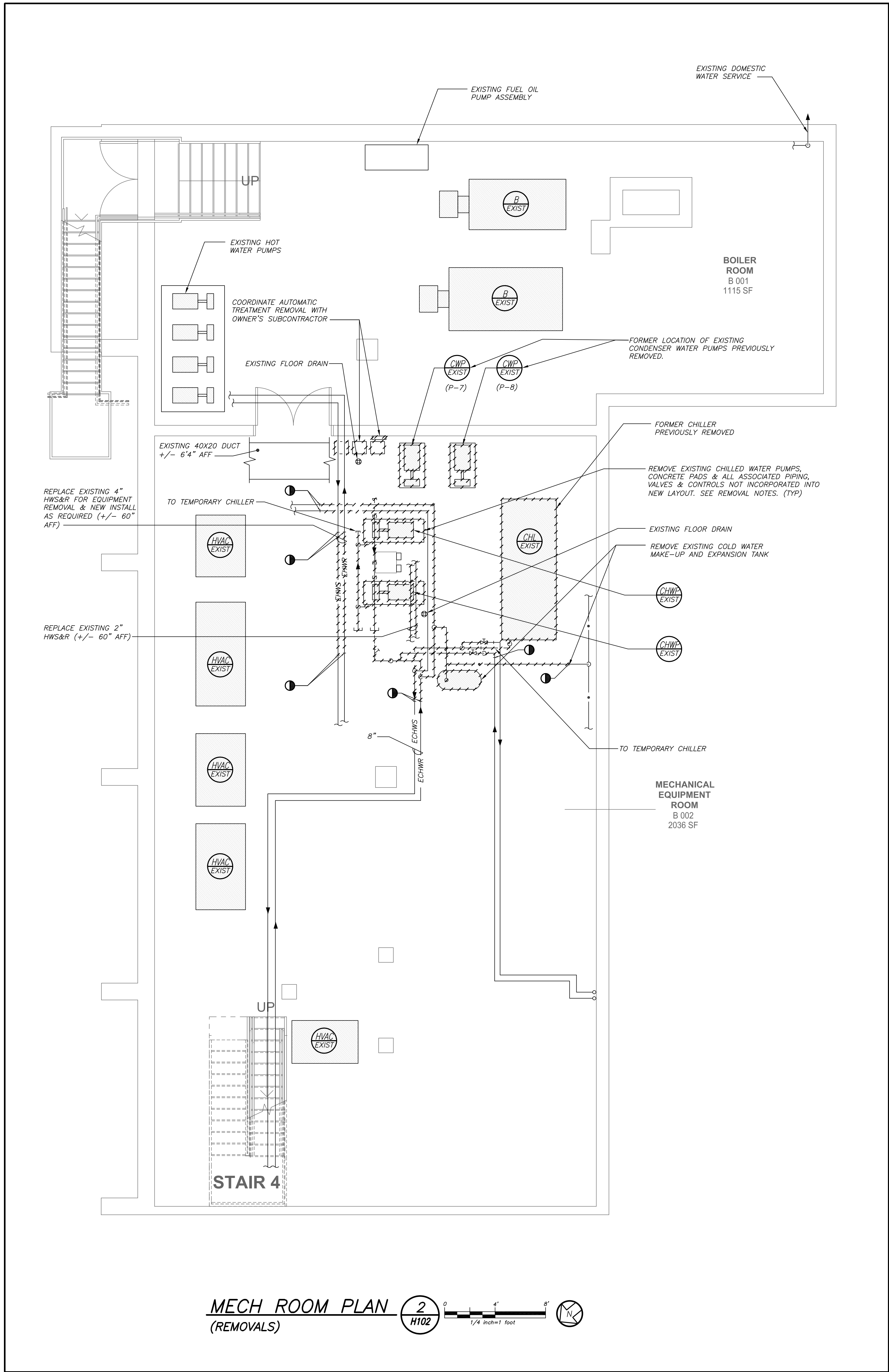
PART SITE PLAN

Job No.	Date
Scale	Drawn / Checked
AS NOTED	BGA/BGA
Sheet Number	

H101



BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS



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Professional Seal



1 10-29-2024 BID ISSUE
No. 1 Date Issue

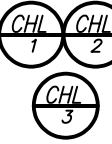

Sheet Title
**BASEMENT
MECHANICAL
ROOM**



Job No. Date 07/31/2024
Scale AS NOTED Drawn / Checked BGABGA

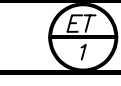
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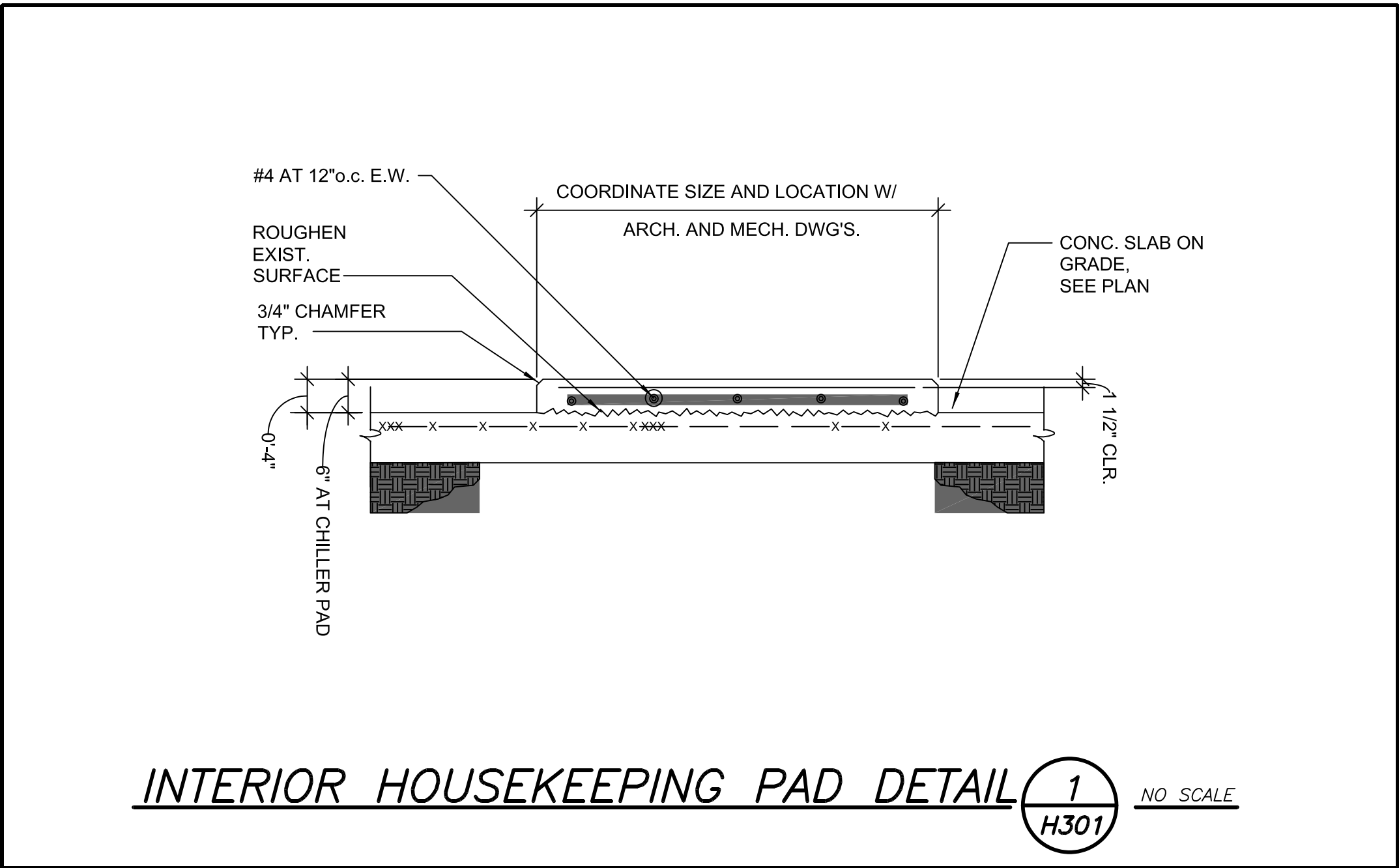
H102

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

SCHEDULE OF AIR COOLED CHILLERS															
MARK	SERVICE	LOCATION	MODEL N# ①	COOLING CAPACITY (TONS)	GPM EACH	COMPRESSOR DATA DUTY CYCLES / HOURS NOM. SIZE	FLA EACH	WATTS EACH	CONDENSER FAN DATA TOTAL CFM EACH	I-LA EACH	ELECTRIC SERVICE	MCA ③	MOCP ④	PHYSICAL DATA DIMENSION / WEIGHT	REMARKS
	CHILLED WATER	ROOF	KCHH060VDC	60 EACH	113	6/10 TONS	33.7	6/144B	868B	1	208/3/60	80 160	90 175	90"x85"x87"/3064LBS	REFER TO 
<div><div>NOTES</div><div><div>① AS MANUFACTURED BY "LG".</div><div>② DESIGN CONDITIONS BASED ON OUTDOOR AMBIENT TEMPERATURE 105°F COOLING, 44°F LWT AND 56°F EWT.</div><div>③ REFRIGERANT USED SHALL BE R-32.</div><div>④ INSTALL PER MANUFACTURER'S RECOMMENDATIONS.</div><div>⑤ MINIMUM E.E.R. = 9.16.</div><div>⑥ EACH CHILLER MODULE REQUIRES (2) INDEPENDENT POWER CIRCUITS ((1) 90-AMP CIRCUIT AND (1) 175-AMP CIRCUIT).</div><div>⑦ BASED ON ARI STANDARD 370, MAXIMUM 86 dbA SOUND POWER LEVEL, MAXIMUM 61 dbA SOUND PRESSURE LEVEL @ 30FT.</div><div>⑧ MAXIMUM WATER PRESSURE DROP = 6.00 FT.</div></div><div><div>⑨ ALL COMPRESSORS SHALL BE INVERTER TYPE.</div><div>⑩ PROVIDE THREE (3) LG MULTISIZE EDGE 10 CONTROLLERS MODEL PBASE10 WITH ENCLOSURE PANEL AND SOFTWARE FOR INTERFACE WITH ATC SUB-CONTRACTOR.</div><div>⑪ PROVIDE START-UP SERVICE AND COMMISSIONING BY FACTORY CERTIFIED TECHNICIAN.</div></div></div>															

SCHEDULE OF PUMPS											
MARK	SERVICE	LOCATION	MODEL N#	GPM	HEAD FT.H ₂ O	RPM	MOTOR HP	ELECTRIC SERVICE	PHYSICAL DATA DIMENSION / WEIGHT	REMARKS	
	BUILDING DISTRIBUTION	BASEMENT MER	SERIES E1510 3EB	390	80	1640	15	208/3/60	50"x20"x24" / 602LBS	REFER TO	①②③
	BUILDING DISTRIBUTION	BASEMENT MER	SERIES E1510 3EB	390	80	1640	15	208/3/60	50"x20"x24" / 602LBS	REFER TO	①②③
NOTES	① AS MANUFACTURED BY "BELL & GOSSETT".										
	② INSTALL PUMPS PER MANUFACTURER'S RECOMMENDATIONS.										
	③ PROVIDE VFD, TRIPLE DUTY VALVE, SUCTION DIFFUSER PLUS WITH ADJUSTABLE SUPPORT FOOT FOR EACH PUMP.										

SCHEDULE OF NEW EXPANSION TANKS							
MARK	SERVICE	LOCATION	MODEL N#	TANK VOLUME GALS.	ACCEPTANCE VOLUME GALS.	PHYSICAL DATA DIMENSION / WEIGHT	REMARKS
	CHILLED WATER	BASEMENT	B-500	132	132	30# x 57" / 1430 LBS	REFER TO 00000
<div>NOTES</div> <div><div>① AS MANUFACTURED BY "BELL & GOSSETT".</div><div>② INSTALL PER MANUFACTURER'S RECOMMENDATIONS.</div><div>③ ASME RATED, VERTICAL FLOOR MOUNTING.</div><div>④ PROVIDE CONCRETE PAD AS REQUIRED. SEE SPEC & DETAILS.</div></div>							



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1	10-29-2024	BID ISSUE
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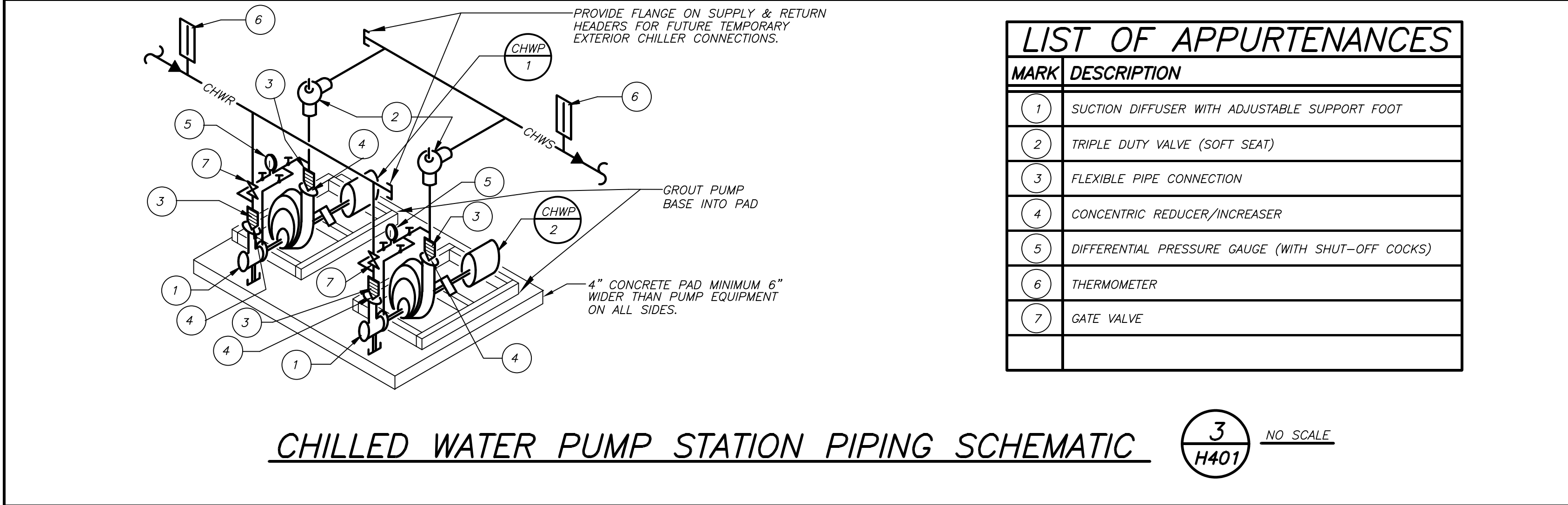
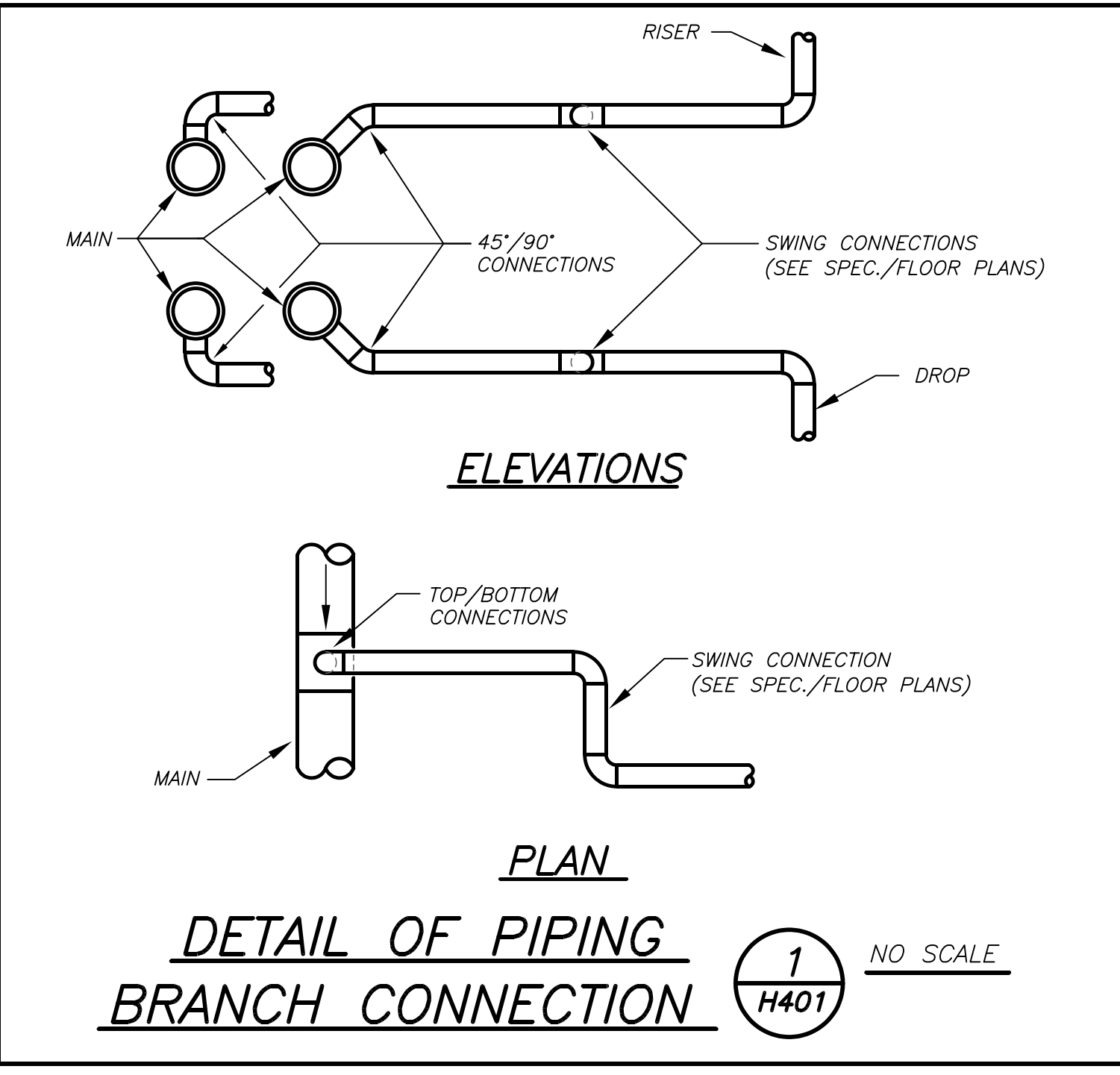
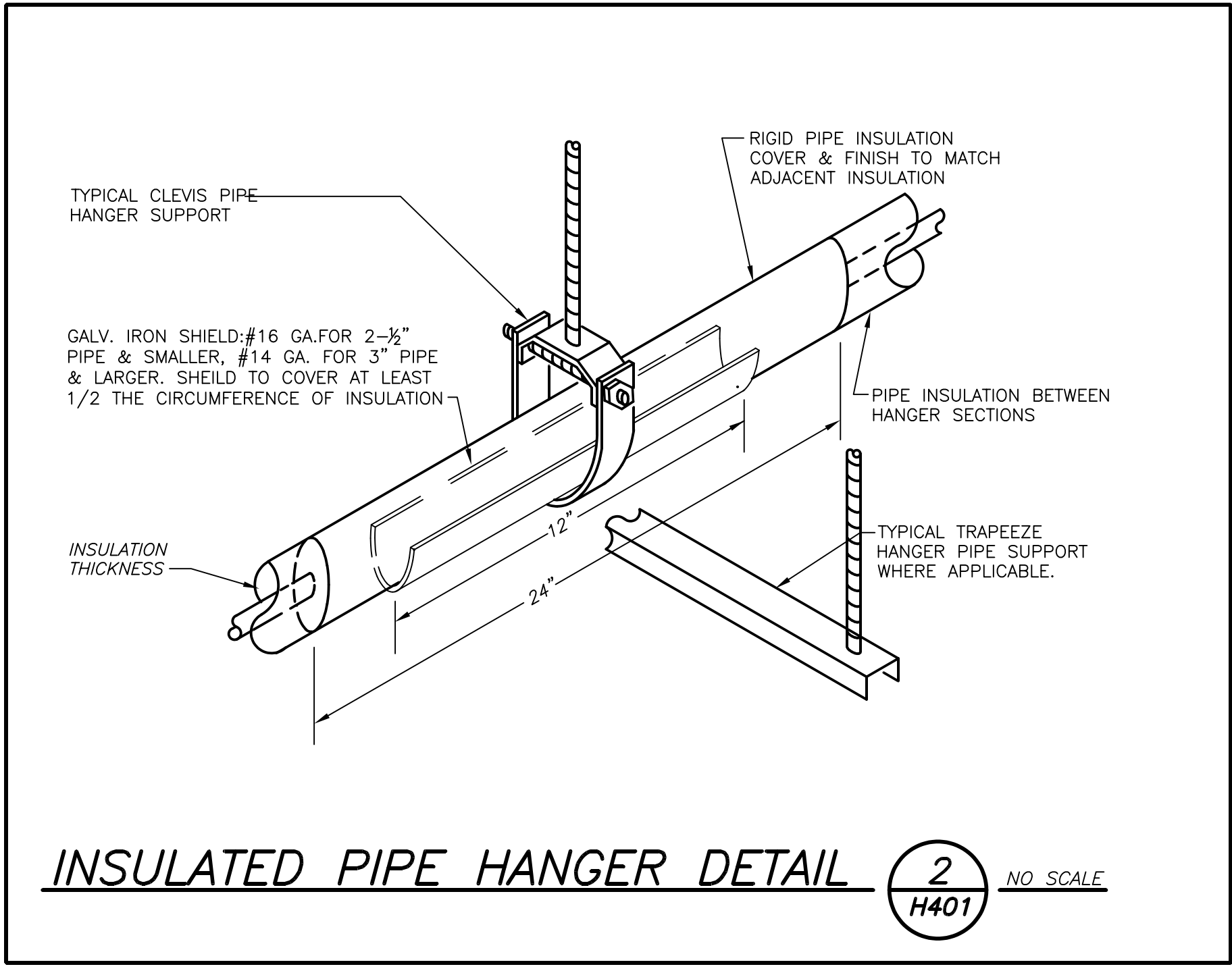
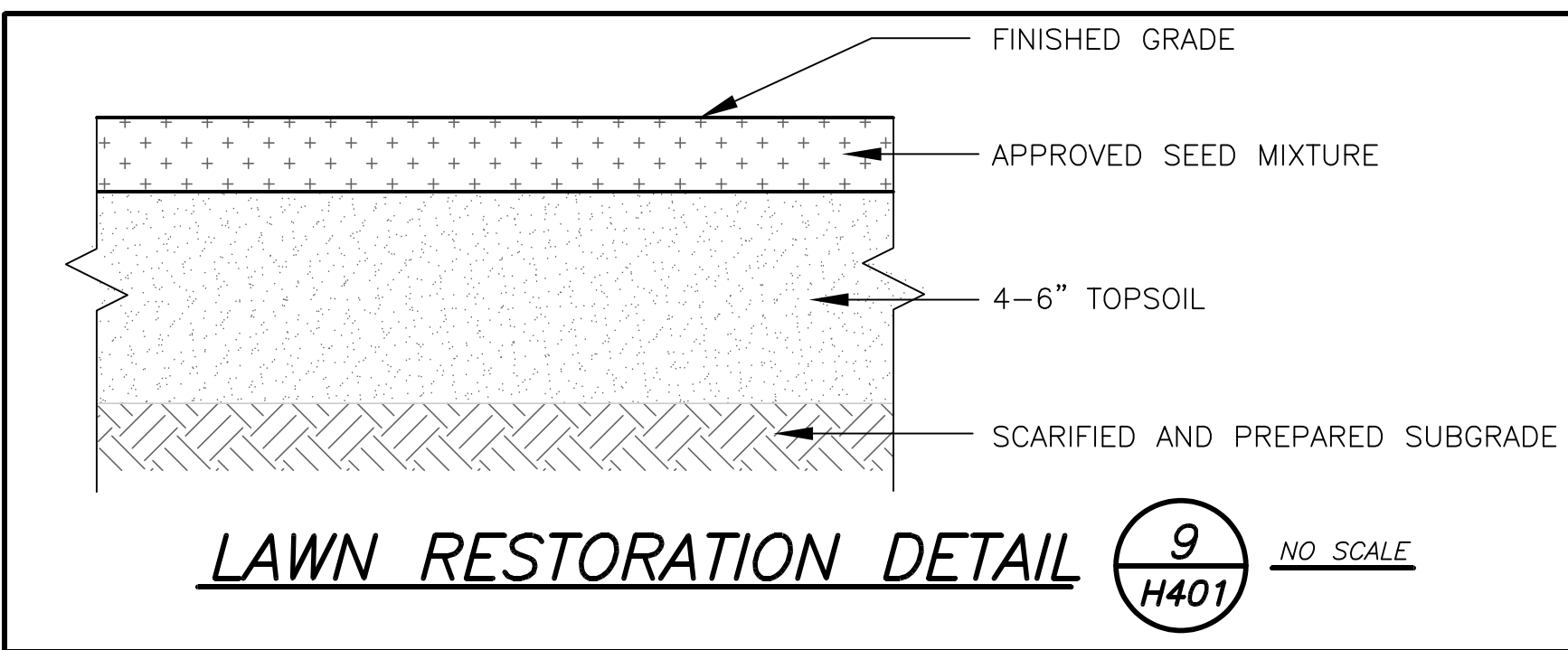
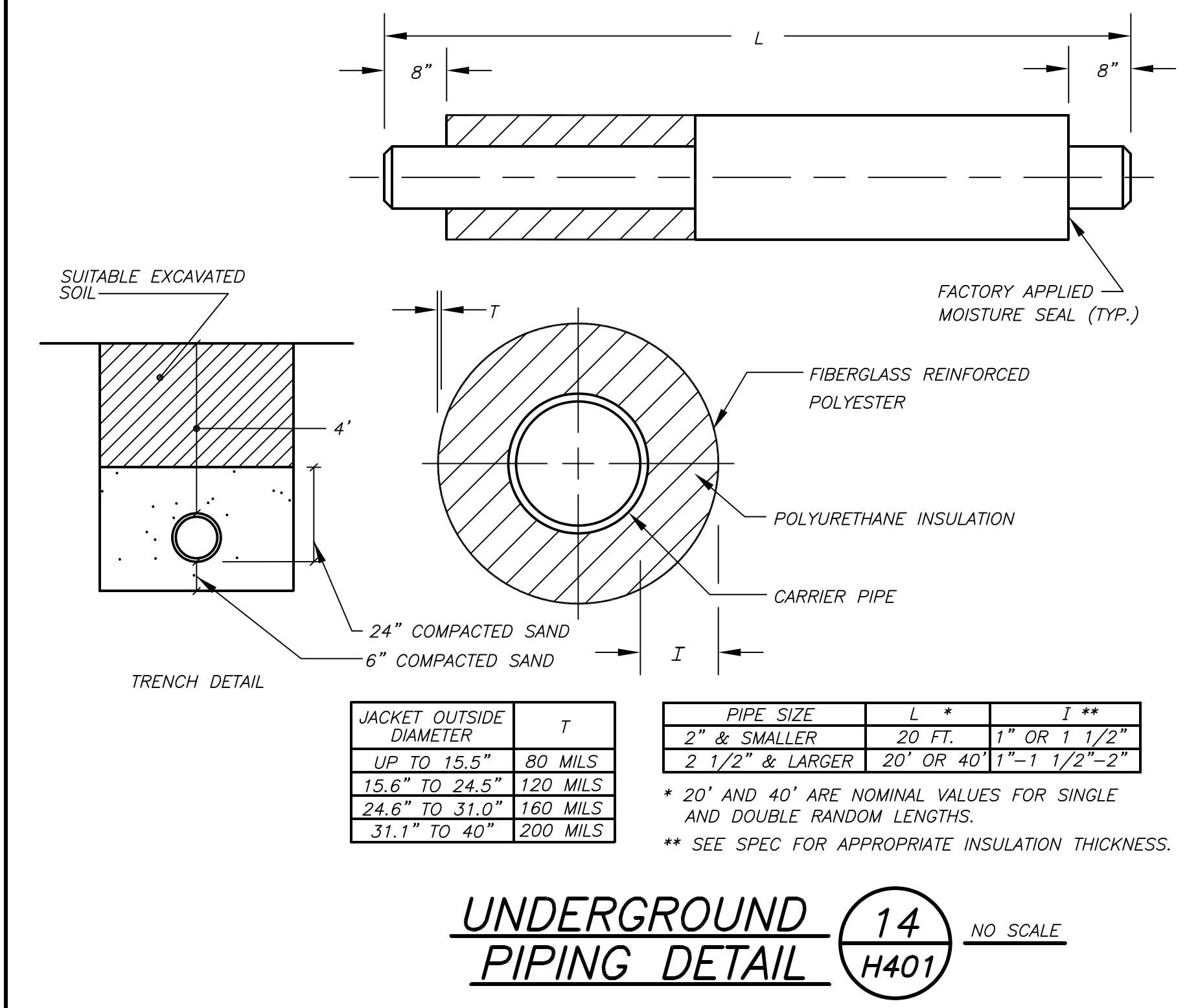
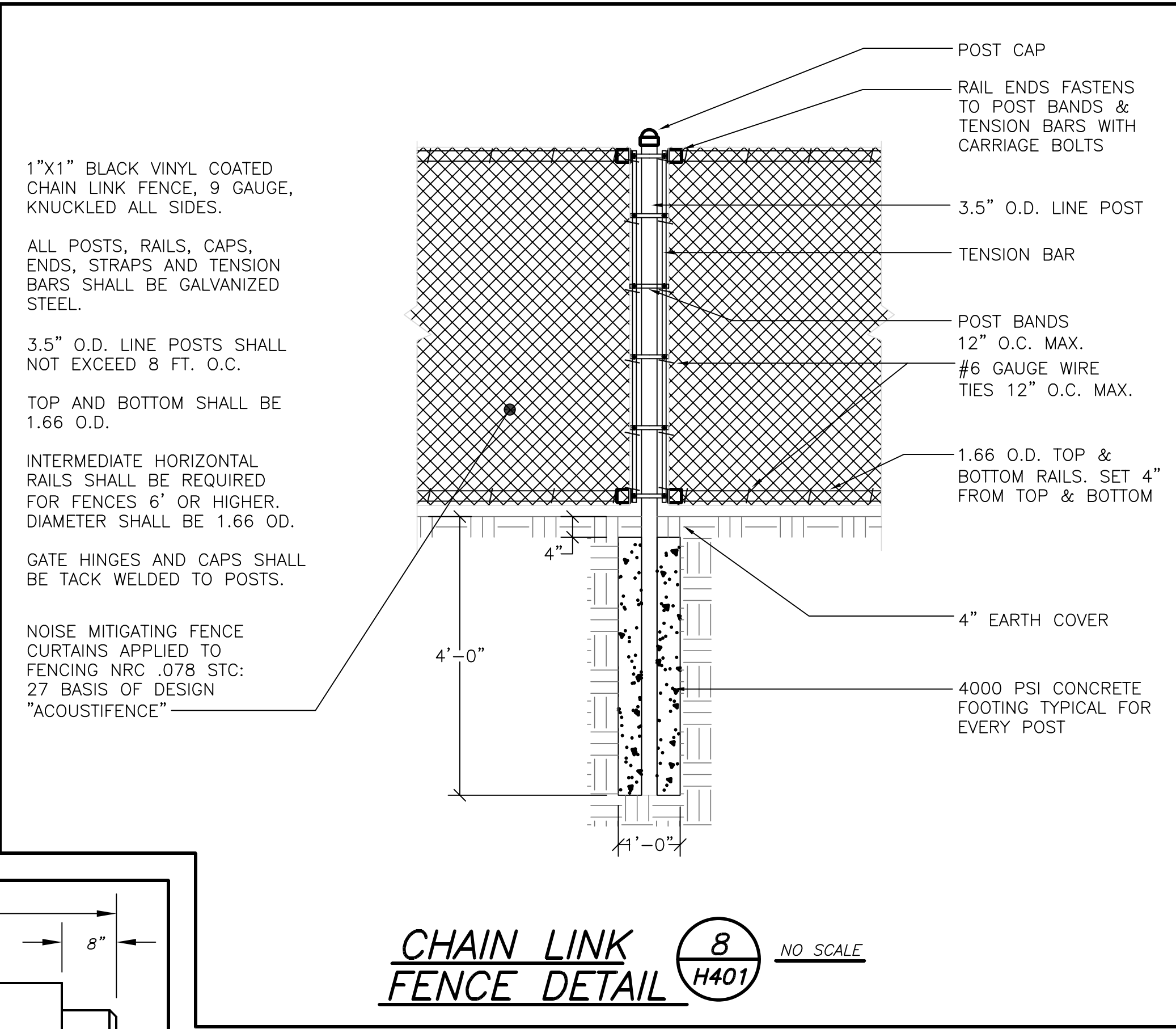
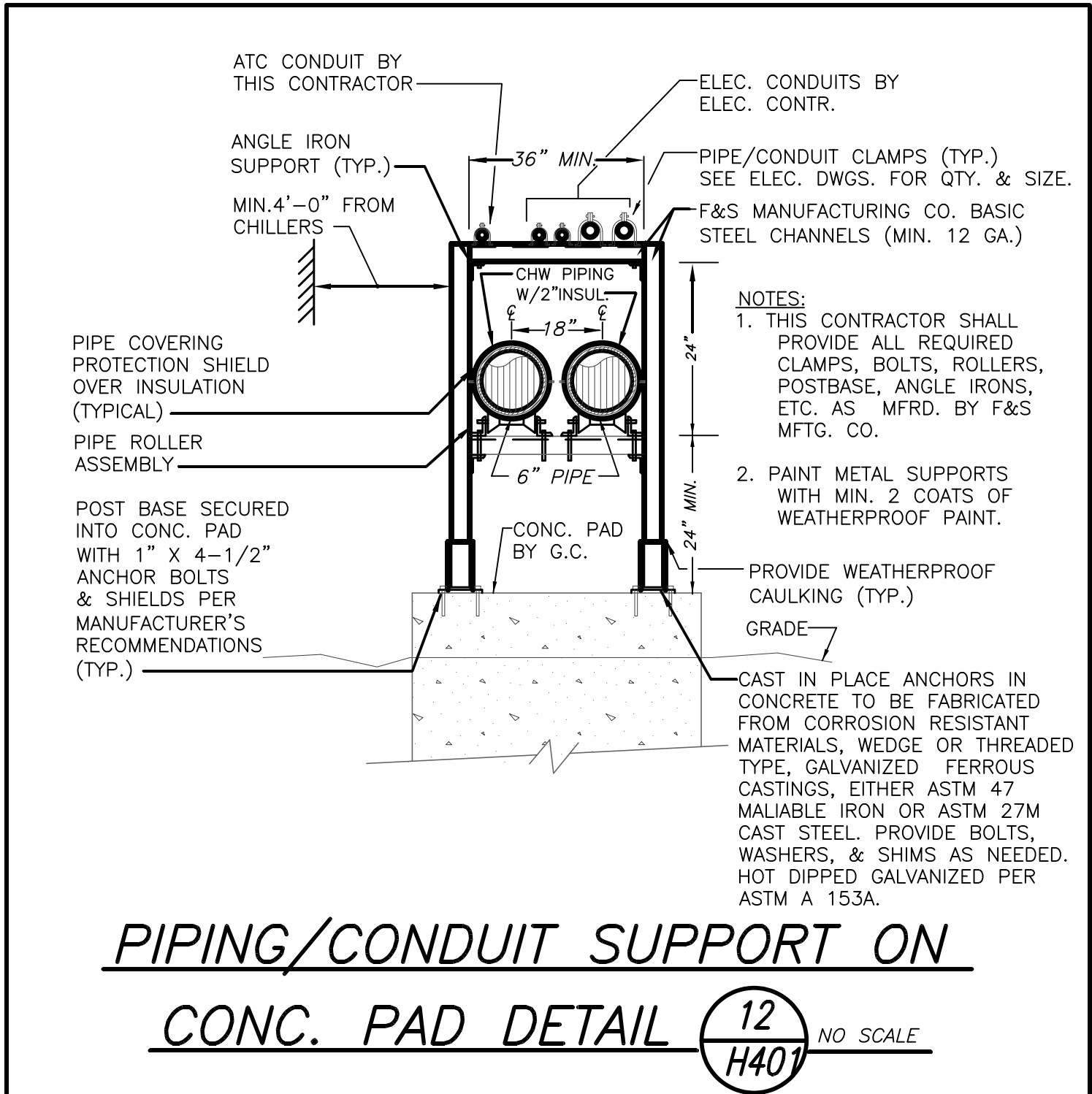
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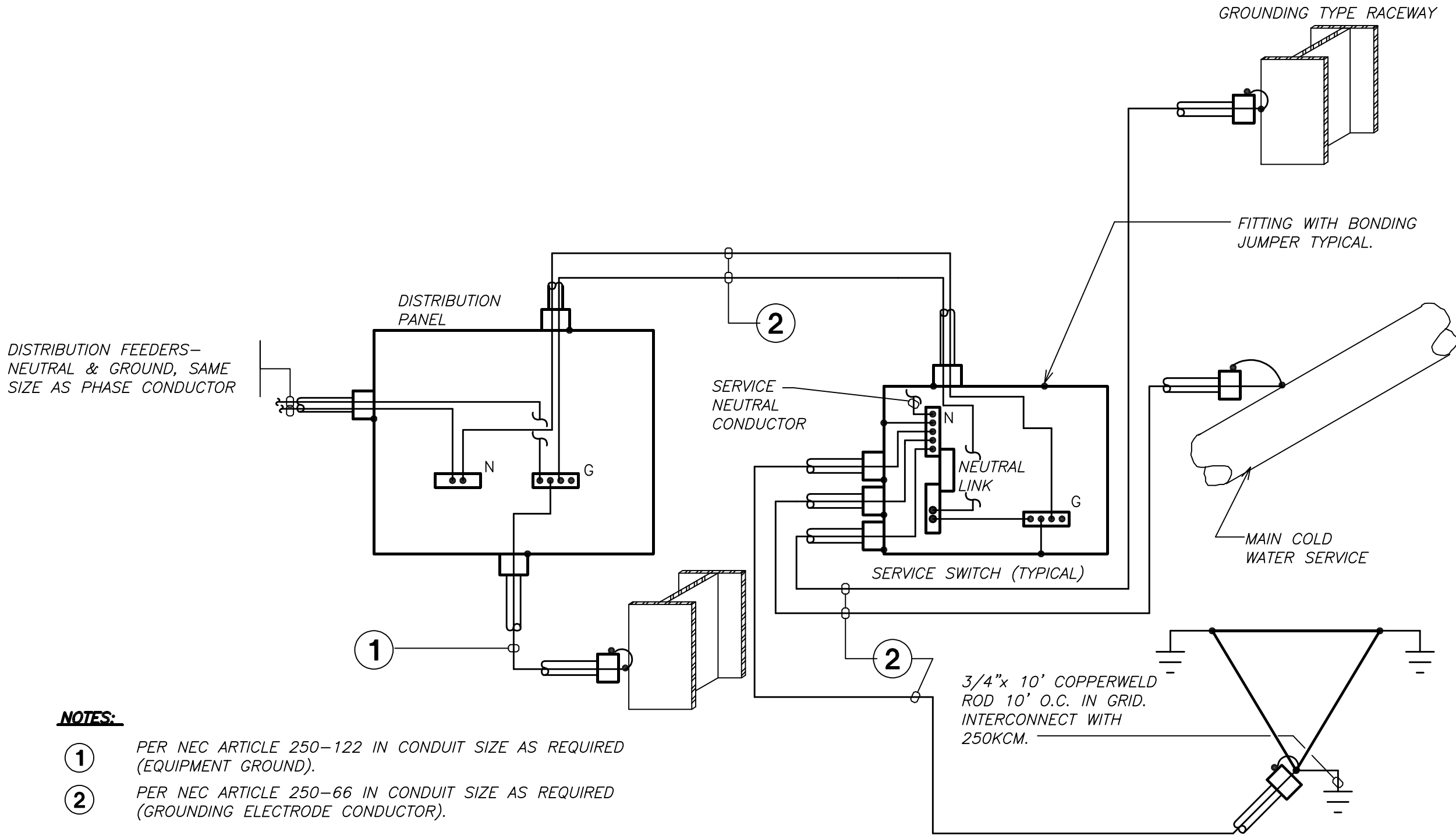
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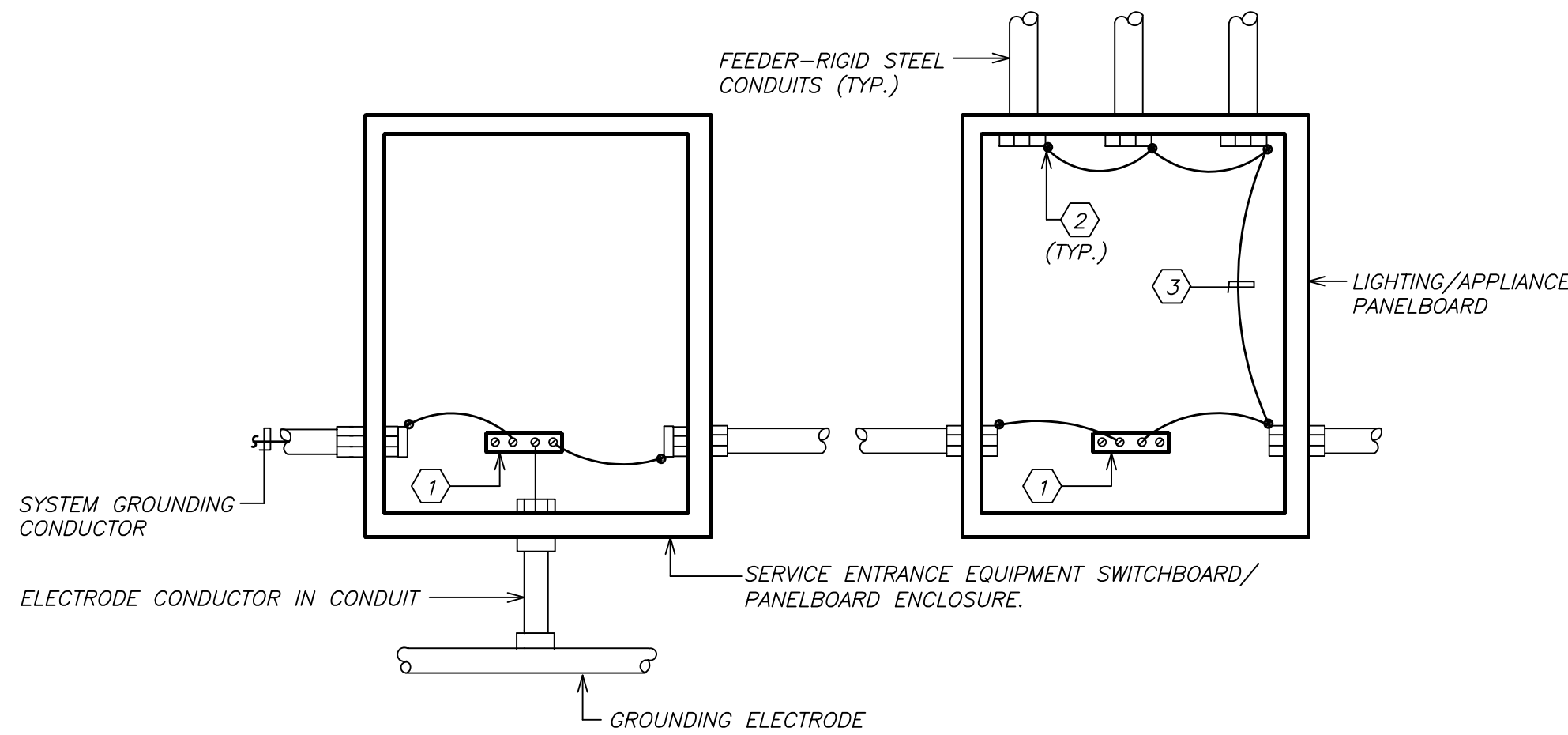
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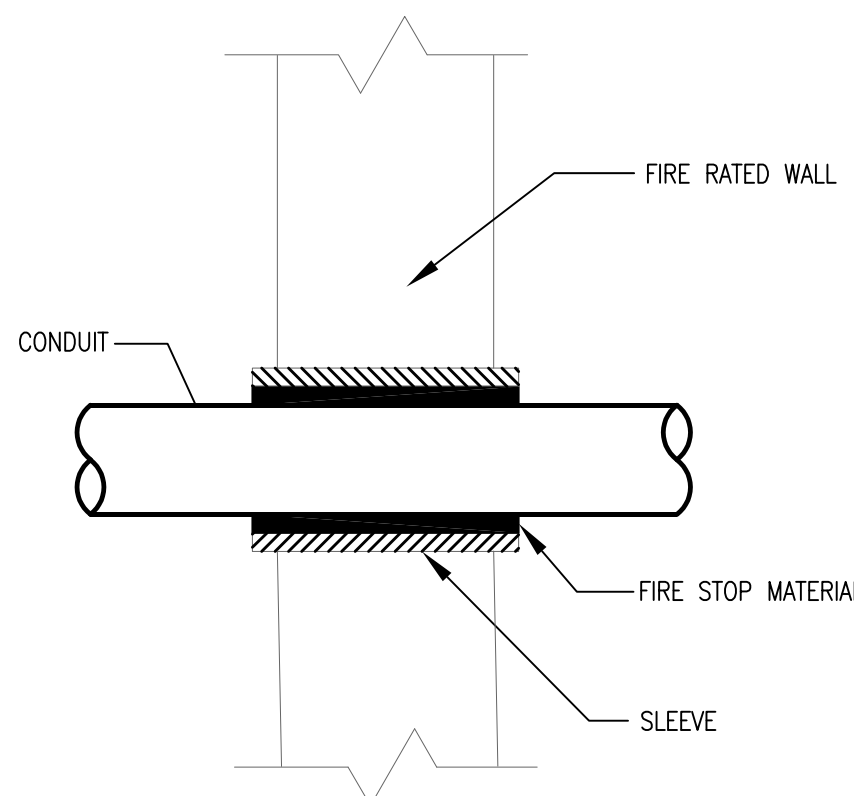




SCHEMATIC SERVICE GROUNDING SYSTEM 1 E001 N.T.S.



RACEWAY EQUIPMENT GROUNDING SYSTEM 2 E001 N.T.S.



CONDUIT PENETRATION THRU FIRE RATED WALL

- NOTES:**
- USE WHERE CONDUITS PASS THRU FIRE RATED WALL.
 - WHERE CONDUITS PASS THRU CONCRETE BEAM, BRICK WALL, OR WATER PROOF FLOORS, USE PIPE SLEEVES.

CONDUIT PENETRATION DETAILS 3 E001 N.T.S.

GENERAL REMOVAL NOTES

- BEFORE COMMENCING WORK, EXAMINE ALL ADJOINING AREAS THAT MAY BE AFFECTED BY REMOVAL. REPORT TO THE GENERAL CONTRACTOR ANY CONDITION THAT PREVENTS PERFORMANCE OF THE WORK.
- BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS WHERE CONNECTIONS MUST BE MADE, CHANGED OR ALTERED. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER AND NO CONSIDERATION WILL BE GRANTED BY REASON OF LACK OF FAMILIARITY ON THE PART OF THE CONTRACTOR WITH ACTUAL PHYSICAL CONDITIONS AT THE SITE. INSPECT EACH AND EVERY AREA AFFECTED BY THE ALTERATION OF THE SPACE BEFORE SUBMITTAL OF BID.
 - DISTRIBUTION BOARDS AND PANELBOARDS.
 - CIRCUIT BREAKERS AND DISCONNECT SWITCHES.
- ALL ELECTRICAL EQUIPMENT IN THE AREA OF WORK IS EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
 - DISTRIBUTION BOARDS AND PANELBOARDS.
 - CIRCUIT BREAKERS AND DISCONNECT SWITCHES.
- ALL CONDUCTORS AND CONDUIT ASSOCIATED WITH REMOVED ELECTRICAL EQUIPMENT SHALL BE REMOVED COMPLETELY BACK TO ITS SOURCE OF POWER AND DISCONNECTED.
- CIRCUIT BREAKERS AND/OR SWITCHES IN PANELBOARD(S) OR DISTRIBUTION BOARD(S) MADE SPARE DUE TO REMOVAL SHALL BE DESIGNATED AS SUCH ON THE PANEL SCHEDULE.
- DISPOSE OF ALL REMOVED EQUIPMENT, WHICH IS NOT INTENDED TO BE REUSED. PRIOR TO DISPOSAL, CONTACT BUILDING MANAGER TO DETERMINE IF ANY REMOVED EQUIPMENT IS DESIRED FOR STOCK.

GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR FIRST CLASS ELECTRICAL INSTALLATION.
- THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT SHALL BE COORDINATED IN FIELD WITH RESPECTIVE CONTRACTOR/OWNER.
- WHERE PANELBOARDS, SWITCHES, CIRCUIT BREAKERS, ETC. ARE EXISTING AND TO BE REUSED THE CONTRACTOR SHALL CLEAN AND REFURBISH THE EQUIPMENT. THIS SHALL INCLUDE TIGHTENING ALL CONNECTIONS, REPLACING DEFECTIVE MECHANISMS AND PROVIDING ALL REQUIRED AND NECESSARY MISCELLANEOUS COMPONENTS SO THAT THE EQUIPMENT SHALL BE IN PERFECT WORKING ORDER.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO SUBMISSION OF BID TO DETERMINE WHAT WORK MUST BE PERFORMED AFTER NORMAL BUSINESS HOURS. UNLESS OTHERWISE DIRECTED ANY NOISY WORK (CHOPPING, CORE DRILLING, HAMMERING, ETC.) AND BUILDING POWER INTERRUPTIONS SHALL BE PERFORMED OUTSIDE OF NORMAL BUSINESS HOURS. CONFIRM NORMAL BUSINESS HOURS WITH BUILDING OWNER. NO ADDITIONAL COST WILL BE CHARGED TO OWNER FOR WORK PERFORMED OUTSIDE NORMAL BUSINESS HOURS.
- ALL WORK WHERE SHOWN WITH DARK/SOLID LINES ON THE DRAWINGS IS NEW UNLESS OTHERWISE NOTED. WHERE SHOWN WITH DASHED LINES WITH LETTER (E) IS EXISTING TO REMAIN, WITH LETTER (R) IS EXISTING TO BE REMOVED, WITH LETTER (ER) IS EXISTING RELOCATED, WITH LETTER (RN) IS EXISTING TO BE REPLACED WITH NEW AND WITH LETTER (RR) IS EXISTING TO BE REMOVED AND RELOCATED.
- CIRCUIT NUMBERS TO EXISTING PANELS ARE SHOWN FOR INTENT ONLY. ACTUAL CIRCUIT NUMBERS TO BE USED SHALL BE AS PER FIELD CONDITIONS BY UTILIZING SPARE CIRCUITS, BREAKERS OR SPACES IN EXISTING PANEL, SIZE AS INDICATED ON THE PLANS. THE ELECTRICAL CONTRACTOR SHALL BALANCE LOAD OF CIRCUITS EVENLY ON ALL PHASES.
- FEEDERS AND BRANCH CIRCUITRY SHALL BE RUN IN MINIMUM 3/4" CONDUIT UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO MOTORS MAY BE MADE WITH FLEXIBLE METALLIC CONDUIT (NO LONGER THAN 18"). IN UNFINISHED AREAS CONDUIT SHALL BE RUN EXPOSED AND IN FINISHED AREAS CONDUIT SHALL BE RUN CONCEALED.
- PROVIDE PANEL NAME PLATE MADE OF BLACK LAMINATED PLASTIC WITH WHITE ENGRAVED LETTERING AND TYPE WRITTEN DIRECTORY FOR ALL NEW AND EXISTING PANELS BEING USED FOR THIS PROJECT.
- ALL CONDUCTORS SHALL BE COPPER, TYPE THIN/THIN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION UNLESS OTHERWISE NOTED.
- CONDUIT RUNS SHALL BE PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND CEILINGS. CONDUIT SHALL BE SUPPORTED BY APPROVED MEANS. SUPPORTS FOR HORIZONTAL RUNS OF CONDUIT SHALL NOT EXCEED SEVEN FEET ON CENTERS.
- PROVIDE PULL BOXES, JUNCTION BOXES, CONDUIT ELBOWS AND OFFSETS TO SUIT FIELD CONDITIONS AND THE NATIONAL ELECTRICAL CODE.
- THE MINIMUM WIRE SIZE FOR 120 VOLT BRANCH CIRCUITS SHALL BE NO. 12 AWG, EXCEPT OVER 100' IN LENGTH SHALL BE NO. 10 AWG.
- PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES (EX. CONNECTORS, ADAPTERS, BUSHINGS, CLAMPS, ETC.) TO FACILITATE COMPLETE INSTALLATION.
- COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT WITH HVAC CONTRACTOR IN FIELD. FUSES FOR ALL MOTOR LOADS SHALL BE DUAL ELEMENT TIME DELAY TYPE.
- ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.
- PRIOR TO ANY CHASING, CHOPPING OR CORE DRILLING BEING PERFORMED, THE CONTRACTOR SHALL FIELD INVESTIGATE CONDITIONS AND COORDINATE ALL WORK TO ENSURE THAT IT WILL BE IN HARMONY AND NOT AFFECT ANY EXISTING BUILDING SYSTEMS. THIS WORK MUST BE APPROVED BY BUILDING OWNER PRIOR TO PROCEEDING.
- OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. ALL SLEEVES MUST HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR FIRE BARRIER #OP-25 (NO LESS THAN 3" THICK BACKED UP WITH MINERAL WOOL).
- ALL PANELBOARD COVERS SHALL BE INSTALLED IN PLACE AT THE COMPLETION OF EACH DAYS WORK.

PREPARE "AS-BUILT" DRAWINGS THAT REFLECT ACTUAL CONSTRUCTION AND SHOW DEVIATIONS FROM DESIGN DRAWINGS.

ALL NEW CIRCUIT BREAKERS INSTALLED INTO EXISTING PANELBOARDS SHALL BE UL LISTED FOR USE IN THE PANEL.
-

ABBREVIATIONS

ABBV.	DESCRIPTION
A	AMP/AMPERE
A.F.F.	ABOVE FINISHED FLOOR
AIC	AMP INTERRUPTING CURRENT
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
C.B.	CIRCUIT BREAKER
CKT	CIRCUIT
CP	CONDENSATE PUMP
(E)	EXISTING TO REMAIN
E.C.	ELECTRICAL CONTRACTOR
EG	EQUIPMENT GROUND
(ER)	EXISTING RELOCATED
EXIST.	EXISTING
G,GRD	GROUND
H	HOT (PHASE)
HVAC	HEATING, VENTILATING AND AIR-CONDITIONING UNIT
HWP	HOT WATER HEATING PUMP
IG	ISOLATED GROUND
kernil	THOUSAND CIRCULAR MILLS
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N	NEUTRAL
NTS	NOT TO SCALE
PNL	PANEL
P.O.E.	POINT OF ENTRY
PR	PRINTER
(R)	REMOVE EXISTING
RECPT	RECEPTACLE
(RN)	REPLACE EXISTING W/NEW
(RR)	REMOVED, SALVAGED AND RELOCATED
TVSS	TRANSFER VOLTAGE SURGE SUPPRESSION SYSTEM
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF
Ø	PHASE

LEGEND

■	SURFACE MOUNTED NEW ELECTRICAL PANELBOARD.
□	SURFACE MOUNTED EXISTING ELECTRICAL PANELBOARD.
240/3 60 40 WP	HEAVY DUTY TYPE DISCONNECT SWITCH WITH FINAL FLEXIBLE EQUIPMENT CONNECTION. 240 INDICATES VOLTAGE, 3 INDICATES NO. OF POLES, 60 INDICATES AMPERE RATING, "WF" INDICATES NON-FUSED(OR FUSE SIZE) U.O.N. REFER TO SPECIFICATION AND DRAWINGS FOR ENCLOSURE. "WP" WHERE USED INDICATES WEATHERPROOF ENCLOSURE (NEMA 3R).
VFD	VARIABLE FREQUENCY DRIVE. FURNISHED BY MECHANICAL CONTRACTOR, WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR. THE CONDUIT AND WIRING FROM VFD TO MECHANICAL UNIT INTER CONNECTION SHALL MATCH THE SAME SIZE AND CONDUIT AND WIRE FROM VFD TO DESIGNATED PANELBOARD. REFER TO PANEL SCHEDULE OR NOTES FOR CONDUIT WIRE AND SIZE.
20A	20A FLUSH WALL MOUNTED GROUND FAULT INTERRUPTING TYPE DUPLEX RECEPTACLE HUBBELL #GF5362.
S-T	THERMAL SWITCH, CUTLER-HAMMER MS SERIES MANUAL STARTERS SINGLE-PHASE 20AMP, 120V U.O.N. WHERE INDICATED WITH "WP" PROVIDE WATERTIGHT ENCLOSURE TYPE 3.
S-T	208 VOLT, SINGLE PHASE 2 POLE, THERMAL OVERLOAD PROTECTED TOGGLE TYPE SWITCH, SIMILAR TO EATON #AH4361 + #AH27940G, NEMA 1 ENCLOSURE.
5	MOTOR (F.B.O. WIRED BY ELEC.) - NUMBER INDICATES HORSEPOWER. REFER TO PANEL SCHEDULES FOR WIRING AND OVER CURRENT PROTECTION.
6	FRACTIONAL HORSEPOWER MOTOR (F.B.O. WIRED BY ELEC.). REFER TO PANEL SCHEDULES FOR WIRING AND OVER CURRENT PROTECTION.
—○—	CONDUIT TURNING UP.
—○—	CONDUIT TURNING DOWN.
↗	FLEXIBLE LIQUIDTIGHT FINAL EQUIPMENT CONNECTION.
3	HOMERUN TO DESIGNATED PANEL, ARROWHEAD INDICATES SINGLE POLE CIRCUIT. HOMERUN SHALL CONSIST OF 2#12-3/4" U.O.N.
2,(4,6)	HOMERUN TO DESIGNATED PANEL, NUMBERS IN PARENTHESIS INDICATE MULTIPLE CIRCUIT, I.E. 3-HOTS AND 1-GROUND U.O.N.
---	EXISTING TO REMAIN
-	EXISTING TO BE REMOVED
---	NEW
①	TAG SYMBOL. NUMERAL DENOTES REFERENCE TO A WORK NOTE.
MECHANICAL EQUIPMENT IDENTIFICATION:	
○	EQUIPMENT ABBREVIATION (FE, SF, HV, ETC. SEE ABBREVIATIONS ON THIS DWG.)
—	EQUIPMENT NUMBER
DETAIL/PART PLAN NUMBER IDENTIFICATION:	
○	DETAIL/PART PLAN NUMBER
—	DRAWING NUMBER

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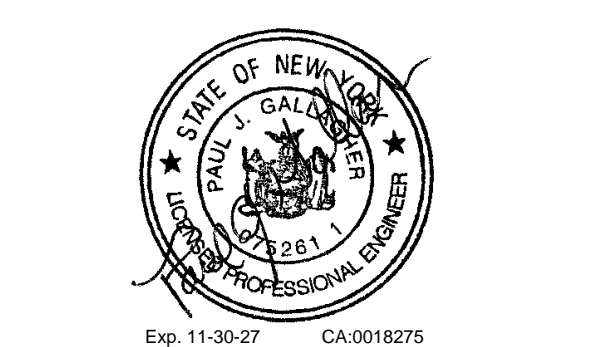
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1 10-29-2024 BID ISSUE
No. Date Issue

Sheet Title

LEGENDS, ABBREVIATIONS, NOTES AND DETAILS

Job No. Date 07/31/2024

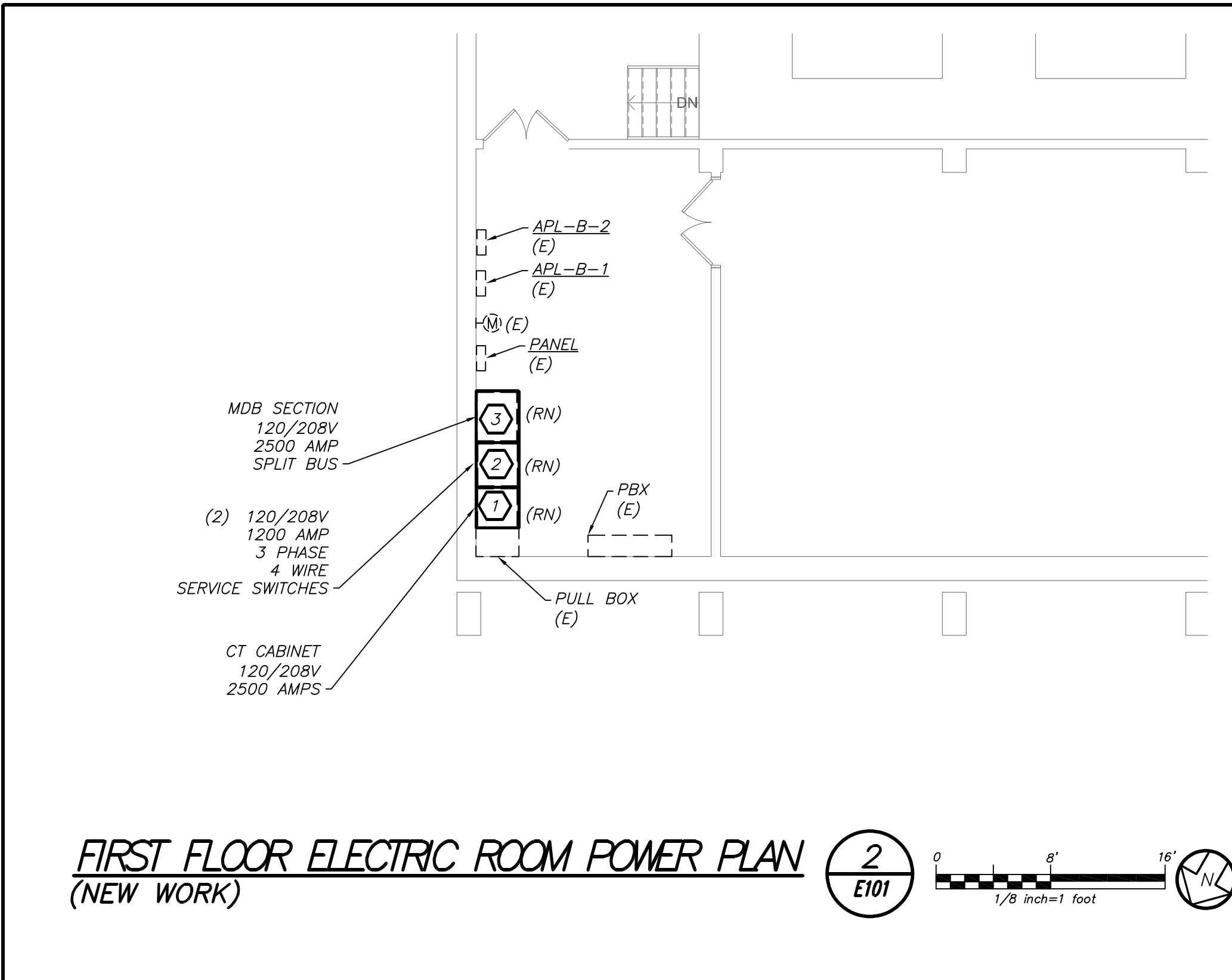
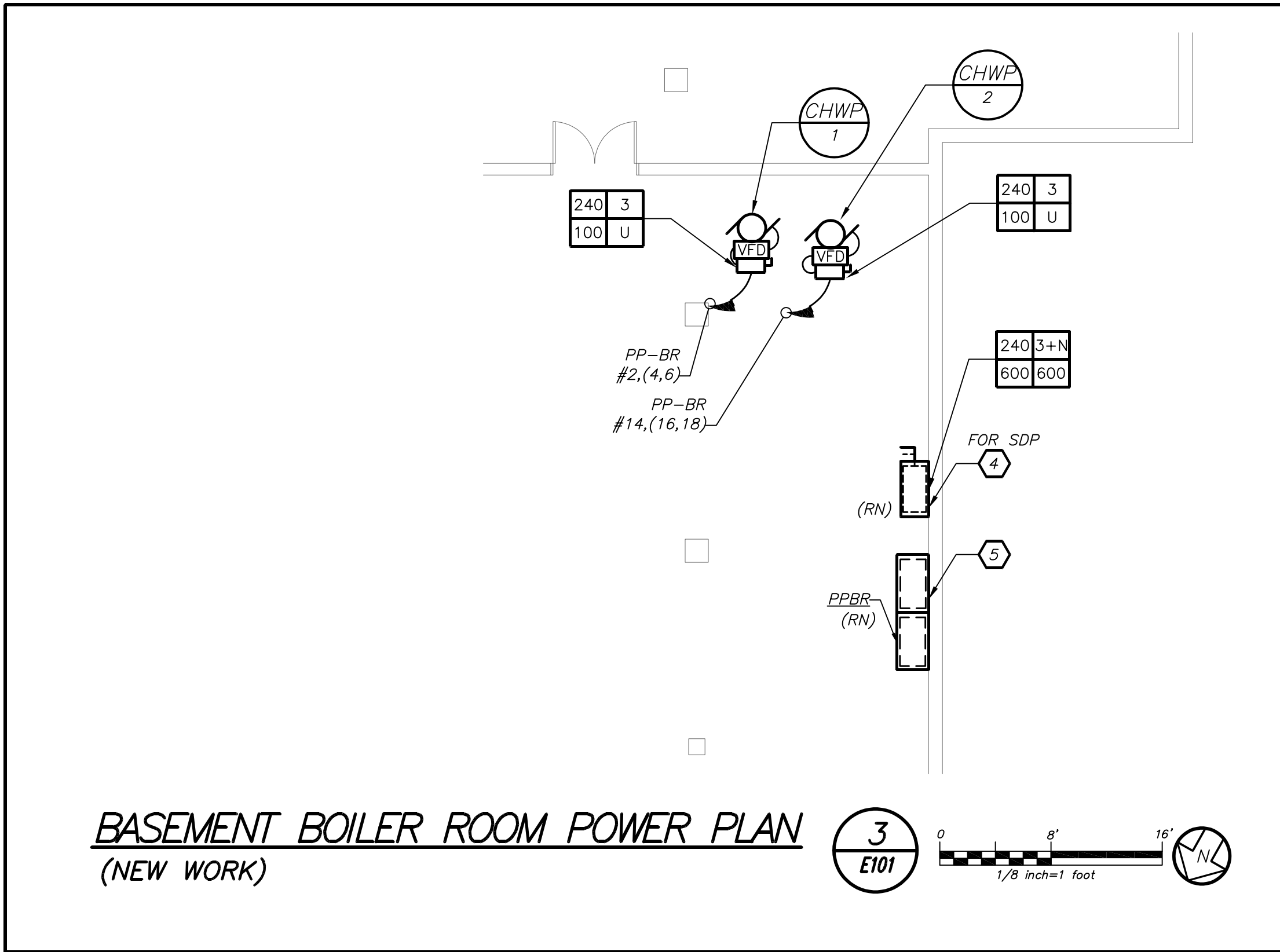
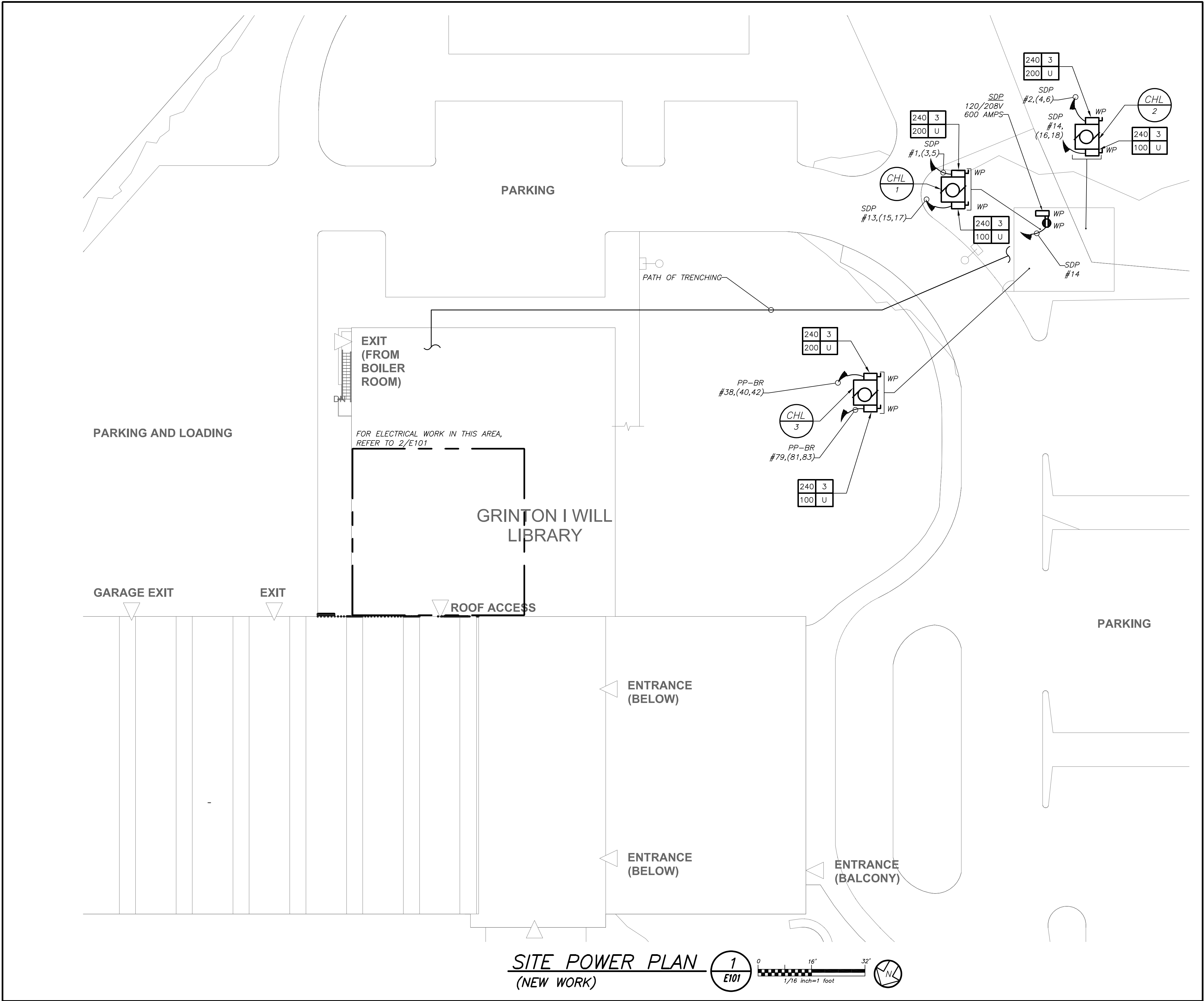
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Sheet Number

E001

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS



WORK NOTES.

- REMOVE ALL INTERNAL COMPONENTS OF THE SECTION ALONG WITH FRONT COVER. PROVIDE NEW INTERNAL CUSTOM DISTRIBUTION BOARD SECTION ALONG WITH COVER. REFER TO E102 FOR BREAKER ARRANGEMENT AND RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- REMOVE ALL INTERNAL COMPONENTS OF THE 1200 AMP SERVICE SWITCH ALONG WITH FRONT COVER. PROVIDE TWO (2) NEW CUSTOM 1200 AMP FUSED AT 1100 DISCONNECT SERVICE SWITCHES ALONG WITH FRONT COVER. THE FUSE SIZES SHALL MATCH THE EXISTING. REFER TO RISER DIAGRAM ON E102 FOR ADDITIONAL INFORMATION.
- REMOVAL ALL INTERNAL COMPONENTS OF THE CT CABINET ALONG WITH FRONT COVER PLATE. PROVIDE CUSTOM INTERNAL COMPONENTS ALONG WITH FRONT COVER PLATE. REFER TO RISER DIAGRAM ON E102 FOR ADDITIONAL INFORMATION.
- REPLACE EXISTING 240V/600/3 PHASE DISCONNECT FEEDING NEW EXTERIOR PANEL SDP WITH NEW NEW DISCONNECT AS SHOWN.
- REMOVE ALL INTERNAL COMPONENTS OF THE (2) SECTION 120V/208V 3 PHASE 4 WIRE 400 AMP PANEL ALONG WITH FRONT COVER. PROVIDE NEW INTERNAL CUSTOM DISTRIBUTION BOARD SECTION ALONG WITH COVER. REFER TO E102 FOR BREAKER ARRANGEMENT AND RISER DIAGRAM FOR ADDITIONAL INFORMATION.

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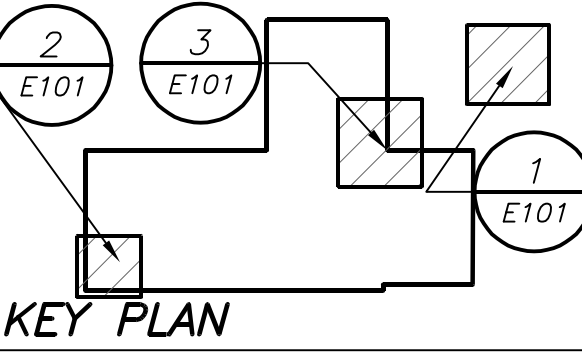
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1 10-29-2024 BID ISSUE
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**ELECTRICAL
SITE AND FLOOR
PLAN**

Job No. Date 07/31/2024

Scale Drawn / Checked BGAB/GA

Sheet Number

E101

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

PARTIAL ELECTRICAL POWER RISER

1
E501

N.T.S.

PANEL DESIGNATION: <u>MDB (NEW)</u>				MOUNTING: <u>FLOOR</u>			
SUPPLY CHARACTERISTIC: <u>120/208</u> VOLTS, <u>3</u> PHASE, <u>4</u> WIRES							
MAIN BUS RATING: <u>2000</u> AMPS				NEUTRAL: <u>FULL SIZE</u>			
MAIN CIRCUIT BREAKER: <u>2000</u> AMPS				USAGE: <u>MAIN ELECTRICAL ROOM</u>			
CKT NO.	CIRCUIT BREAKER BRANCH DEVICE			EQUIPMENT	WIRE	COND.	LOAD
	FRAME SIZE	POLES "N"-NEUT. BAR CONNECTION	TRIP SIZE				
1	100	3+N	100	SPARE	-	-	-
2	100	3+N	100	AUDITORIUM PANEL	-	-	-
3	225	3+N	150	LB WASH/DRY ROOM	-	-	-
4	100	3+N	XXX	SUB PANEL	-	-	-
5	225	3+N	200	CIRC OFF. PANEL 1,2	-	-	-
6	225	3+N	200	AUD LGT	-	-	-
7	225	3+N	225	LB-1 FINE ARTS	-	-	-
8	400	3+N	300	LA STORAGE ROOM	-	-	-
9	100	3+N	60	TVSS	-	-	-
SPLIT BUS							
9	400	3+N	400	PANEL A,B,C 1ST FLR ELEC	-	-	-
10	225	3+N	150	PANEL MR FAN ROOM	-	-	-
11	225	3+N	225	PANEL APL-B NEW FABRICATED	-	-	-
12	400	3+N	400	PP-BR PUMP ROOM	-	-	-
13	600	3+N	600	CHILLER DISCONNECT	-	-	-
14	100	3+N	100	SPARE	-	-	-
15	100	3+N	100	SPARE	-	-	-
16	100	3+N	100	SPARE	-	-	-
17	100	3+N	60	TVSS	-	-	-

FEEDER SIZES:

- (A) (3) SETS OF 4#500KCMIL+1#3/0 GRD IN 4"C+ (1) 4" CONDUIT WITH DRAGWIRE.

POWER RISER DIAGRAM NOTES:

- (1) EXISTING PULL BOX SHALL BE PROVIDED WITH NEW COVER AND PAINT THE EXTERIOR BOX WITH ANSI-61 GRAY PAINT.
- (1A) FOR SURGE SUPPRESSION, PROVIDE 180KA SURGE CURRENT CAPACITY PER PHASE. AS MANUFACTURED BY COOPER CROUSE HINDS #2M11-180-PE. REFER TO SPECIFICATION FOR MORE INFORMATION.
- (2) THE EXISTING INTERNAL COMPONENTS OF THE 120/208V, 2500AMP, 3 PHASE 4 WIRE ONE (1) CT CABINET, INCLUDING THE BUS, COVER, CABLING, NUTS, AND BOLTS WILL BE REPLACED IN ITS ENTIRETY BY THIS CONTRACTOR INCLUDING THE PAINTING OF THE EXTERIOR OF THE EXISTING CABINET WITH ANSI 61 GRAY PAINT. **CONTACT ROBERT BURNS OF PRECISION SWITCHBOARD, 914.345.0794**, FOR ALL THE NEW FABRICATED INTERNAL COMPONENTS INCLUDING NEW BUS, COVERS, BREAKERS, NUTS, AND BOLTS. THIS CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED AND NECESSARY ACCESSORIES FOR A COMPLETE OPERATIONAL EQUIPMENT INCLUDING ALL CABLING, INTERCONNECTION, ETC. THERE ARE (2) EXISTING BUCKETS AS INDICATED. THE BUCKETS ARE RATED AT 1200 AMPS. THIS CONTRACTOR SHALL PROVIDE TWO (2) 1200/11100AF SERVICE SWITCHES. PROVIDE NEW GROUNDING WIRE TO CONNECT TO EXISTING GROUNDING RODS AHEAD OF THE WATER MAIN AND BUILDING STEEL. REFER TO DETAIL. THIS CONTRACTOR SHALL COORDINATE THE SHUTDOWN WITH CON EDISON AND OWNER BEFORE THE START OF ANYWORK. THE OWNER SHALL DICTATE THE DATE THE SHUT DOWN SHALL OCCUR. THE MAXIMUM ALLOWABLE SHUTDOWN TO DO ALL THE WORK NOTED BELOW SHALL BE 3 WITH DAYS.
- (3) THE EXISTING 120/208V, SPLIT BUS 2500 AMP 3 PHASE 4 WIRE ONE (1) SECTION BOARD, INCLUDING THE BUS, BUCKETS, COVER AND CABLING, NUTS, AND BOLTS WILL BE REPLACED IN ITS ENTIRETY BY THIS CONTRACTOR INCLUDING THE PAINTING OF THE EXTERIOR OF THE EXISTING CABINET ANSI 61 GRAY PAINT. **CONTACT ROBERT BURNS OF PRECISION SWITCHBOARD, 914.345.0794**, FOR ALL THE NEW FABRICATED INTERNAL COMPONENTS INCLUDING NEW BUS, COVERS, BREAKERS, NUTS, AND BOLTS. THIS CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED AND NECESSARY ACCESSORIES FOR A COMPLETE OPERATIONAL EQUIPMENT INCLUDING ALL CABLING, INTERCONNECTION, ETC. THE NEW FRAME AND BREAKER SIZE SHALL MATCH THE EXISTING CIRCUIT BREAKER AS INDICATED ON THE MAIN DISTRIBUTION SCHEDULE ON THIS DRAWING.
- (4) REPLACE EXISTING DISCONNECT SWITCH FEEDING EXTERIOR CHILLER PANEL. CONTRACTOR IS RESPONSIBLE FOR ALL INTERCONNECTION OF FEEDER WIRES AND WIRES FEEDING NEW PANEL.
- (5) THE EXISTING INTERNAL COMPONENTS OF THE 120/208V, 400AMP, 3 PHASE 4 WIRE TWO SECTION BOARD, INCLUDING THE BUS, BUCKETS, COVER, CABLING, NUTS, AND BOLTS WILL BE REPLACED IN ITS ENTIRETY BY THIS CONTRACTOR INCLUDING THE PAINTING OF THE EXTERIOR OF THE EXISTING CABINET WITH ANSI 61 GRAY PAINT. **CONTACT ROBERT BURNS OF PRECISION SWITCHBOARD, 914.345.0794**, FOR ALL THE NEW FABRICATED INTERNAL COMPONENTS INCLUDING NEW BUS, COVERS, BREAKERS, NUTS, AND BOLTS. THIS CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED AND NECESSARY ACCESSORIES FOR A COMPLETE OPERATIONAL EQUIPMENT INCLUDING ALL CABLING, INTERCONNECTION, ETC. THE NEW FRAME AND BREAKER SIZE SHALL MATCH THE EXISTING CIRCUIT BREAKER AS INDICATED ON THE PANEL SCHEDULE ON THIS DRAWING.
- (6) PROVIDE NEW NEMA 3X RATED 120/208V PANELBOARD REFER TO PANEL SCHEDULES FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT.
- (7) CONTRACTOR SHALL FOLLOW PATH OF MECHANICAL TRENCHING TO FEED NEW PANEL BOARD AND CHILLERS. REFER TO DRAWINGS E101 FOR MORE INFORMATION

NEW ELECTRICAL PANEL SCHEDULE																	
PNL: SDP		MOUNTING: SURFACE		X		MAIN LUGS ONLY				MAIN C BKR-		GROUND BUS: X					
208Y120, 3 PHASE, 4 WIRE		(NEMA3R)		FLUSH		DOUBLE LUGS				600A/3P		ISOLATED GROUND BUS:					
65 .000MIN A.I.C. SYM				IN MCC		FEED THRU LUG				MAIN BUS -		TVSS:					
NEUTRAL: 100%						SHUNT TRIP MAIN				800 A		NUMBER OF POLES: 24					
CKT No.	TRIP (AMP)	LOAD		WIRE		CND. (IN.)	KVA / PHASE A B C		KVA / PHASE A B C		CND. (IN.)	WIRE		LOAD	TRIP (AMP)	CKT No.	
1	3	CHP-1A	-	-	-	19.2			19.2			-	-	CHP-2A	3	2	
3			3#20+1#6G	2		19.2			19.2	2		3#20+1#6G			4		
5	175		-	-	-				19.2			-	-		175	6	
7	3		-	-	-		9.6			9.6		-	-		3	8	
9	3	CHP-1B	3#2+1#6G	1-1/4			9.6		9.6		1-1/4	3#2+1#6G		CHP-2B	3	10	
11	90		-	-	-			9.6		9.6	-	-	-		90	12	
13	20		SPARE	-	-	-				0.2		3/4	2#12+1#12G		RECEPTACLE	20	14
15	20		SPARE	-	-	-						-	-		SPARE	20	16
17	20	SPARE	-	-	-						-	-	SPARE	20	18		
19	20	SPARE	-	-	-						-	-	SPARE	20	20		
21	-	SPACE	-	-	-						-	-	SPACE	-	22		
23	-	SPACE	-	-	-						-	-	SPACE	-	24		
SUBTOTALS					28.8	28.8	28.8	29.0		28.8	28.8	SUBTOTALS					
TOTAL LOADS					58	KVA PHASE A				LIGHTING:		0.00 KVA					
					58	KVA PHASE B				RECEPTACLE:		0.18 KVA					
					58	KVA PHASE C				KITCHEN:		0.00 KVA					
TOTAL CONN. LOAD					173	KVA 480 A				MOTOR:		172.80 KVA					
TOTAL DEMAND LOAD					173	KVA 480 A				POWER:		0.00 KVA					
										TOTAL:		172.98 KVA					

NEW ELECTRICAL PANEL SCHEDULE																	
PNL: PP-BR SECT 1		MOUNTING: SURFACE		X	MAIN LUGS ONLY		MAIN C BKR-		GROUND BUS: X								
208Y120, 3 PHASE, 4 WIRE		(NEMA 1)		FLUSH	DOUBLE LUGS		400A/3P		ISOLATED GROUND BUS:								
65 .000MIN A.I.C. SYM				IN MCC	FEED THRU LUG		MAIN BUS -		TVSS:								
NEUTRAL: 100%					SHUNT TRIP MAIN		400 A		NUMBER OF POLES: 42								
CKT No.	TRIP (AMP)	LOAD	WIRE	CND.	KVA / PHASE			KVA / PHASE CND.			WIRE	LOAD	TRIP CKT (AMP) No.				
					A	B	C	A	B	C	(IN.)						
1	3	R5 (EXISTING)	-	-				6.36			-	CWP-1	3	2			
3			-	-				6.36	1"		3#6+1#10G		4				
5	30		-	-				6.36			-		6				
7	3		-	-							-		8				
9	3	MOTOR (EXISTING)	-	-							-	P2 (EXISTING)	3	8			
11	100		-	-							-		10				
13	3		-	-				6.36			-		12				
15	3		-	-				6.36	1"		3#6+1#10G		14				
17	30	R6 (EXISTING)	-	-				6.36			-	CWP-2	3	16			
19	3		-	-				6.36	1"		3#6+1#10G		18				
21	3		-	-							-		20				
23	50		-	-							-		22				
25	3	P1 (EXISTING)*	-	-							-	AC5 (EXISTING)	3	24			
27	3		-	-							-		26				
29	3		-	-							-		28				
31	3		-	-							-		30				
33	3	R3 (EXISTING)	-	-							-	R7 (EXISTING)	3	32			
35	3		-	-							-		34				
37	3		-	-							-		36				
39	3		-	-							-		38				
41	150	AC 3 (EXISTING)	-	-							-	HC 10 (EXISTING)	3	40			
43	30		-	-							-		42				
45	3		-	-							-		44				
47	3		-	-							-		46				
49	3	SPARE	-	-				19.2			2	3#30D+1#4G	CHP-3A	3	38		
51	3		-	-				19.2			2			40			
53	3		-	-				19.2			2			42			
55	3		-	-				19.2			2						
SUBTOTALS					0.00	0.00	0.00	31.9	31.9	31.9	SUBTOTALS						
TOTAL LOADS					31.9	KVA PHASE A		LIGHTING:			0.00 KVA						
					31.9	KVA PHASE B		RECEPTACLE:			0.00 KVA						
					31.9	KVA PHASE C		KITCHEN:			0.00 KVA						
TOTAL CONN. LOAD					95.8	KVA 266 A		MOTOR:			95.76 KVA						
TOTAL DEMAND LOAD					95.8	KVA 266 A		POWER:			0.00 KVA						
								TOTAL:			95.76 KVA						

NEW ELECTRICAL PANEL SCHEDULE															
PNL: PP-BR SECT 2		MOUNTING: SURFACE		X	MAIN LUGS ONLY		MAIN C BKR-		GROUND BUS: X						
208Y120, 3 PHASE, 4 WIRE		(NEMA 1)		FLUSH	DOUBLE LUGS		400A/3P		ISOLATED GROUND BUS:						
65 .000MIN A.I.C. SYM				IN MCC	FEED THRU LUG		MAIN BUS -		TVSS:						
NEUTRAL: 100%					SHUNT TRIP MAIN		400 A		NUMBER OF POLES: 48						
CKT No.	TRIP (AMP)	LOAD	WIRE	CND.	KVA / PHASE			KVA / PHASE CND.			WIRE	LOAD	TRIP (AMP)	CKT No.	
					A	B	C	A	B	C	(IN.)				
43	3	MOTOR (EXISTING)	-	-							-	MOTOR (EXISTING)	3	44	
45	3		-	-							-		46		
47	50		-	-							-		48		
49	3		-	-							-		50		
51	3	MOTOR (EXISTING)	-	-							-	MOTOR (EXISTING)	3	52	
53	70		-	-							-		54		
55	3	MOTOR (EXISTING)	-	-							-	AC 8	3	56	
57	3		-	-							-		58		
59	50		-	-							-		60		
61	3		-	-							-		62		
63	3	R4 (EXISTING)	-	-							-	AC 7	3	64	
65	30		-	-							-		66		
67	3	COMP 1 (EXISTING)	-	-							-	COMP 2	3	68	
69	30		-	-							-		70		
71	30		-	-							-		72		
73	3		-	-							-		74		
75	3	CHILDREN AC (EXISTING)	-	-							-	SPARE	3	76	
77	100		-	-							-		78		
79	3	CHP-3B	-	-	9.60						-	MOTOR (EXISTING)	3	80	
81	3		-	-	9.60						-		82		
83	90		-	-	9.60						-		84		
85	3		-	-							-		86		
43	3	P5 (EXISTING)	-	-							-	AL4	3	44	
45	3		-	-							-		46		
47	70		-	-							-		48		
49	70		-	-							-		50		
SUBTOTALS					9.60	9.60	9.60	0.00	0.00	0.00		SUBTOTALS			
TOTAL LOADS					9.6	KVA	PHASE A	LIGHTING: 0.00 KVA							
					9.6	KVA	PHASE B	RECEPTACLE: 0.00 KVA							
					9.6	KVA	PHASE C	KITCHEN: 0.00 KVA							
TOTAL CONN. LOAD					28.8	KVA	80.0	A	MOTOR: 28.80 KVA						
TOTAL DEMAND LOAD					28.8	KVA	80.0	A	POWER: 0.00 KVA						
									TOTAL: 28.80 KVA						