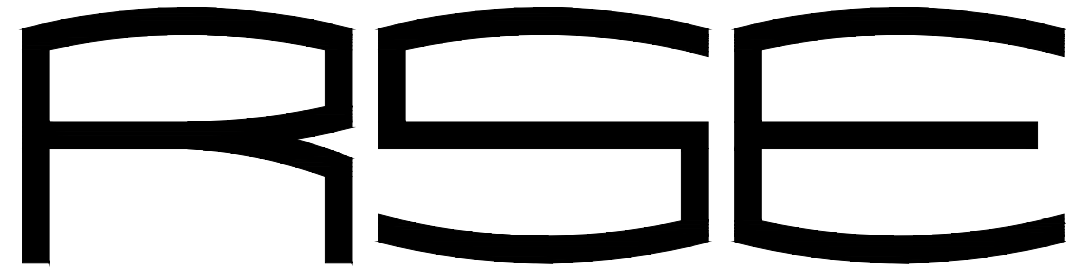


UPGRADE GENERATOR CONTROLS
& TRANSFER SWITCH
POWER PLANT
MOBERLY CORRECTIONAL CENTER
MOBERLY, MISSOURI



ROGERS-SCHMIDT ENGINEERING CO., P.C.

CONSULTING ENGINEERS
MISSOURI STATE CERTIFICATE
OF AUTHORITY #000408

OWNER: STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

DEPARTMENT OF CORRECTIONS

PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DESIGNER: ROGERS-SCHMIDT ENGINEERING CO., PC.
1736 WEST PARK CENTER DR.
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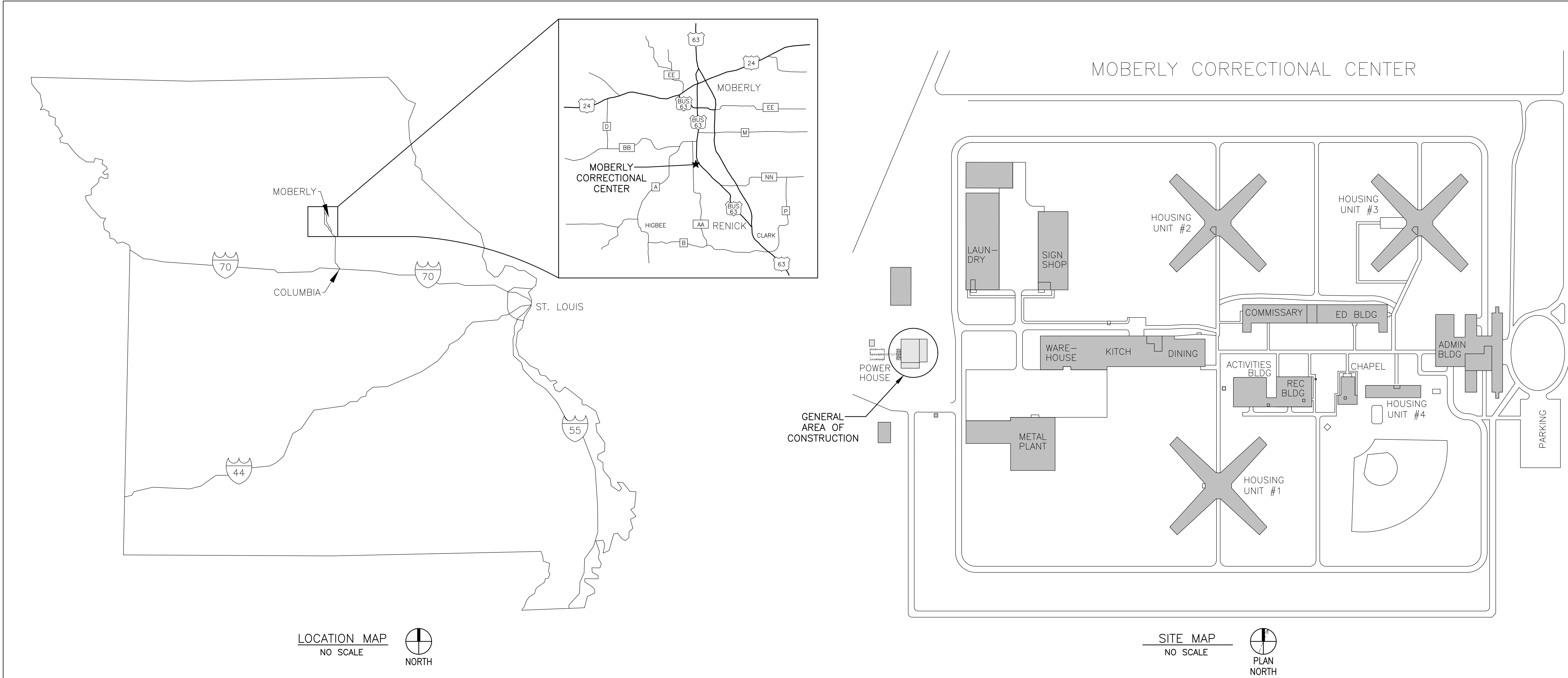
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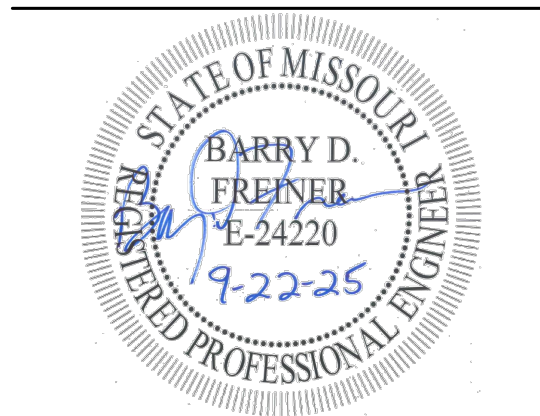
G-001

01 OF 28 SHEETS
SEPTEMBER 22, 2025



DRAWING INDEX			
DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
G-001	COVER SHEET	E-001	ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES
G-002	SITE MAPS AND DRAWING INDEX	ES-101	ELECTRICAL SITE PLAN
G-003	CONSTRUCTION LIMITS, SCHEDULE & PHASING	ED-401	ELECTRICAL DEMOLITION PLAN - POWER PLANT
M-001	MECHANICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES	ED-601	ONE-LINE DIAGRAM - DEMOLITION - 4.16kV
MD-401	MECHANICAL PLAN - DEMOLITION - POWER PLANT	ED-602	ONE-LINE DIAGRAM - DEMOLITION - 4.16kV
MD-402	MECHANICAL PLAN - DEMOLITION - POWER PLANT	ED-603	ONE-LINE DIAGRAM - DEMOLITION - 480V
M-401	MECHANICAL PLAN - POWER PLANT	E-401	ELECTRICAL PLAN - POWER PLANT
M-402	MECHANICAL PLAN - POWER PLANT	E-402	ELECTRICAL PLAN - CONTROL ROOM & OFFICE
M-410	MECHANICAL SECTIONS & DETAILS - POWER PLANT	E-501	ELECTRICAL & FENCE DETAILS
M-501	MECHANICAL - DETAILS	E-502	DUCT BANK & MOTOR CONTROL CENTER DETAILS
M-601	MECHANICAL - SCHEDULES	E-601	ONE-LINE DIAGRAM - NEW WORK - 4.16kV
M-602	MECHANICAL - SCHEDULES	E-602	ONE-LINE DIAGRAM - NEW WORK - 4.16kV
M-610	MECHANICAL - FLOW DIAGRAM - FUEL OIL	E-603	ONE-LINE DIAGRAM - NEW WORK - 480V
MI-401	MECHANICAL - INSTRUMENTATION & CONTROLS - POWER PLANT	E-604	PANELBOARD SCHEDULES

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2026

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SWITCH, POWER PLANT

MOBERLY CORRECTIONAL
CENTER
5201 SOUTH MORLEY ST.
MOBERLY, MO 65270

PROJECT # C1920-01
SITE # 7005
ASSET # 9327005051

REVISION: _____
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ISSUE DATE: 09/22/2025

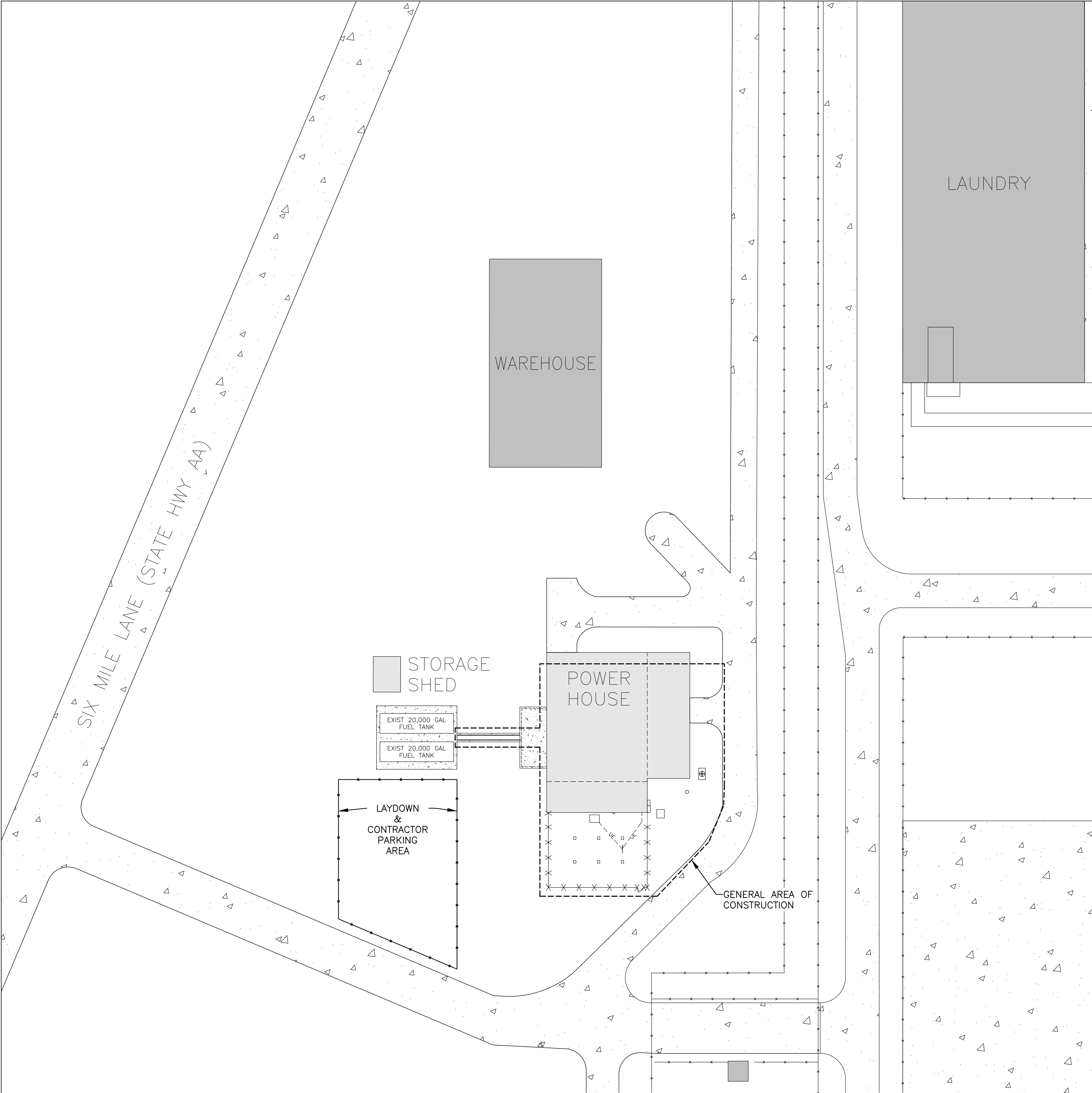
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9327005051-G-002.DWG
DRAWN BY: K E T
CHECKED BY: B D F
DESIGNED BY: B D F

SHEET TITLE:
SITE MAPS AND
DRAWING INDEX

SHEET NUMBER:

G-002

02 OF 28 SHEETS
SEPTEMBER 22, 2025



SITE MAP

SCALE: 1"=30'-0"

0 15' 30' 60'

PROJECT GENERAL NOTES:

- COORDINATE CONSTRUCTION FENCE, LAYDOWN AREA AND CONTRACTOR PARKING WITH CONSTRUCTION REPRESENTATIVE.
- LAYDOWN AREA SHALL BE APPROVED BY THE CONSTRUCTION REPRESENTATIVE & RESTORED TO ORIGINAL CONDITION AFTER CONSTRUCTION IS COMPLETE.
- CONTRACTOR SHALL NOT BLOCK ACCESS TO ANY MANHOLE OR VALVE BOX.
- DOCUMENT EXISTING CONDITIONS WITH PHOTOGRAPHS PRIOR TO PROCEEDING.
- REPAIR ALL DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION TO THE SATISFACTION OF THE CONSTRUCTION REPRESENTATIVE. MATCH EXISTING CONSTRUCTION AND FINISH.
- COMPLY WITH THE INTERNATIONAL FIRE CODE INCLUDING THE REQUIREMENTS FOR FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND FOR WELDING AND OTHER HOT WORK. MAINTAIN A HOT WORK PROGRAM PERMIT SYSTEM.
- MINIMIZE HOT WORK WITHIN BUILDINGS.
- PROVIDE A FIRE WATCH FOR ALL DEMOLITION AND CONSTRUCTION HOT WORK (CUTTING, GRINDING, WELDING, SOLDERING, ETC.). MAINTAIN FIRE WATCH FOR AT LEAST 4 HOURS AFTER COMPLETION OF HOT WORK.
- IDENTIFY & PROTECT ALL CONSTRUCTION AREAS WITH SIGNS AND SAFETY BARRIERS TO THE SATISFACTION OF THE CONSTRUCTION REPRESENTATIVE.
- SECURE ALL CONSTRUCTION AREAS WITH BARRIERS & LOCKS AS REQUIRED TO PREVENT ACCESS BY UNAUTHORIZED PERSONS AT ALL TIMES.
- SECURE ALL MECHANICAL & ELECTRICAL ROOMS WHEN UNOCCUPIED.
- SECURE ALL HAND TOOLS IN LOCKED TOOL BOXES & LOCK ALL EQUIPMENT WHEN NOT IN USE.
- ALL MATERIAL, TOOLS, ETC. MUST BE SECURED IN THE LAYDOWN AREA OR IN AN OWNER DESIGNATED AREA WITHIN THE POWER PLANT AT THE END OF EACH WORK DAY.
- AVAILABLE INFORMATION INDICATES PROJECT WORK AREAS DO NOT CONTAIN ASBESTOS OR LEAD PAINT. SHOULD THE CONTRACTOR DISCOVER ITEMS SUSPECTED TO CONTAIN HAZARDOUS MATERIAL, DO NOT DISTURB. CONTACT OWNER'S REPRESENTATIVE FOR DIRECTION PRIOR TO PROCEEDING.
- EXISTING UNDERGROUND UTILITIES HAVE BEEN INDICATED BASED UPON AVAILABLE INFORMATION AND THEIR LOCATIONS ARE APPROXIMATE ONLY. OTHER UTILITIES OR OBSTRUCTIONS MAY ALSO BE ENCOUNTERED.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND TO AVOID DAMAGE TO SAME DURING CONSTRUCTION.
 - EXCAVATE WITH CAUTION.
 - IF IT CAN BE DETERMINED BY THE OWNER'S REPRESENTATIVE THAT ANY EXISTING UTILITY HAS BEEN, OR CAN BE ABANDONED, CONTRACTOR SHALL REMOVE SAME, AT HIS EXPENSE, TO FACILITATE CONSTRUCTION. ENDS OF REMAINING CONDUITS OR PIPES SHALL BE PLUGGED OR CAPPED.
 - SUPPORT AND PROTECT UTILITIES CROSSING EXCAVATIONS. RESTORE DAMAGED UTILITIES TO ORIGINAL CONDITIONS PRIOR TO BACKFILLING EXCAVATIONS.
 - OBTAIN INSPECTION AND APPROVAL OF CONSTRUCTION REPRESENTATIVE PRIOR TO BACKFILLING EXCAVATIONS.

CONSTRUCTION PHASING & SCHEDULING:

- THE PROJECT SHALL BE COMPLETED AS NECESSARY TO PROVIDE UNINTERRUPTED OPERATION OF THE FACILITY. THE SEQUENCING, PHASING AND SCHEDULING OF ALL WORK SHALL BE DEPENDENT ON AND SUBJECT TO FACILITY OPERATIONS.
- THE NATURE OF THIS PROJECT REQUIRES A HIGH LEVEL OF COORDINATION BY CONTRACTOR WITH OWNER.
- ALL WORK SHALL BE SCHEDULED WITH THE CONSTRUCTION REPRESENTATIVE AND BE SUBJECT TO THE FACILITY APPROVAL PRIOR TO PROCEEDING.
- THE PROJECT REQUIRES OUTAGES TO BUILDING SYSTEMS. CONTRACTOR SHALL COMPLETE ALL RELATED WORK TO THE MAXIMUM EXTENT POSSIBLE PRIOR TO THE START OF OUTAGES. CONTRACTOR SHALL HAVE ALL REQUIRED MATERIALS ON SITE PRIOR TO START OF OUTAGES AND SHALL PERFORM PRELIMINARY CHECKS PRIOR TO OUTAGE DATE TO ENSURE ALL MATERIALS AND TOOLS REQUIRED ARE ONSITE.
- TIE-INS TO BUILDING SYSTEMS SHALL BE MADE DURING APPROVED OUTAGES AND ONCE BEGUN, WORK SHALL CONTINUE UNTIL THE TIE-IN IS COMPLETED.
- ANY OUTAGES OVER 4 HOURS IN DURATION WHICH AFFECT FIRE PROTECTION, FIRE ALARM, DEDICATED TELEPHONE, OR EMERGENCY MANAGEMENT SYSTEMS REQUIRE FIRE WATCHES. CONTRACTOR IS RESPONSIBLE FOR CONDUCTING FIRE WATCHES IN ALL AFFECTED AREAS.
- OUTAGES SHALL BE COORDINATED WITH THE CONSTRUCTION REPRESENTATIVE AND ARE WEATHER DEPENDENT. CONTRACTOR SHALL NOTIFY CONSTRUCTION REPRESENTATIVE FOUR (4) WEEKS IN ADVANCE OF DESIRED OUTAGE TIME. CONSTRUCTION REPRESENTATIVE WILL GIVE CONTRACTOR 72 HOURS ADVANCE NOTICE OF ACTUAL TIME FOR OUTAGE.
- OUTAGES SHALL BE COMPLETED DURING ACCEPTABLE WEATHER CONDITIONS (50°F TO 80°F OUTDOOR AIR TEMPERATURE), UNLESS APPROVED OTHERWISE BY CONSTRUCTION REPRESENTATIVE AND SHALL ONLY OCCUR BETWEEN 8AM & 4PM ON TUES THRU THUR.
- LIMIT EMERGENCY GENERATOR (EG) SYSTEM RETROFIT OUTAGE TO NO MORE THAN 20 WORKING DAYS. EG SHALL BE FULLY OPERATIONAL WITHIN 20 WORKING DAYS OF START OF EG OUTAGE. PROVIDE TEMPORARY DIESEL-ENGINE-DRIVEN GENERATOR AND STEP-UP XFMR, IF/AS REQD, TO PROVIDE EMERGENCY BACKUP FOR THE FACILITY WHEN PERMANENT EG IS NOT AVAILABLE. POWER FACILITY USING EXIST EG WHEN AMEREN POWER IS TURNED OFF FOR WORK ON MAIN 4.16kV METERING SWGR.
- ALL SITE CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO 7AM TO 3:30PM ON MONDAY THRU FRIDAY, UNLESS APPROVED OTHERWISE IN ADVANCE BY CONSTRUCTION REPRESENTATIVE.
- NO WORK IS TO TAKE PLACE ON WEEKENDS OR STATE OBSERVED HOLIDAYS UNLESS APPROVED IN WRITING IN ADVANCE BY CONSTRUCTION REPRESENTATIVE.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2026

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UPGRADE GENERATOR
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5201 SOUTH MORLEY ST.
MOBERLY, MO 65270

PROJECT # C1920-01
SITE # 7005
ASSET # 9327005051

REVISION: _____
DATE: _____
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DATE: _____

ISSUE DATE: 09/22/2025

CAD DWG FILE: C1920-01-7005-
9327005051-G-003.DWG
DRAWN BY: KET
CHECKED BY: CLB
DESIGNED BY: BDF

SHEET TITLE:
CONSTRUCTION
LIMITS, SCHEDULE
& PHASING

SHEET NUMBER:

G-003

03 OF 28 SHEETS
SEPTEMBER 22, 2025

CONTROL AND INSTRUMENTATION SYMBOLS

	PNEUMATIC SIGNAL		PRESSURE DIFFERENTIAL CONTROLLER
	ELECTRIC SIGNAL		PRESSURE DIFFERENTIAL SWITCH
	CAPILLARY		PRESSURE DIFFERENTIAL INDICATING TRANSMITTER
	HYDRAULIC SIGNAL		PRESSURE TRANSMITTER
	PROCESS SIGNAL		PRESSURE GAUGE
	COMPUTER LINK		PRESSURE SWITCH HIGH
	PROGRAMMABLE LOGIC CONTROLLER (PLC)		SMOKE DETECTOR
	DISPLAY		SOLENOID VALVE
	DISTRIBUTED CONTROL SYSTEM		THERMOSTAT
	INSTRUMENT (LOCAL MOUNTED)		TEMPERATURE ELEMENT
	PANEL MOUNTED INSTRUMENT (SURFACE MOUNTED)		THERMOMETER
	PANEL MOUNTED INSTRUMENT (INTERNALLY MOUNTED)		TEMPERATURE CONTROL VALVE
	FUTURE		TEMPERATURE INDICATING TRANSMITTER
	INSTRUMENT (LINE MOUNTED)		TEMPERATURE SWITCH LOW
	CO2 MONITOR		POSITION INDICATOR
	CURRENT TRANSMITTER		ORIFICE PLATE
	HAND SAFETY SWITCH (EMERGENCY STOP = E-STOP)		FLOW NOZZLE
	RELATIVE HUMIDITY SENSOR		SIGHT FLOW GLASS
	HAND-OFF-AUTO		FLOW ROTAMETER
	LEVEL GAUGE		FILTER/REGULATOR WITH GAUGE
	LEVEL SWITCH LOW		FILTER
	MOTOR OR MOTOR OPERATOR		LUBRICATOR
	MOTOR CONTROL CENTER		PRESSURE REGULATOR WITH GAUGE
	MOTOR STARTER		DIAPHRAGM SEAL
	VARIABLE FREQUENCY DRIVE		FIELD INSTRUMENT
	LOCAL DISCONNECT SWITCH		
	INTERLOCK		

VALVE SYMBOLS

	GATE VALVE
	BALL VALVE
	GLOBE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	PLUG VALVE
	PLUG VALVE (THREE WAY)
	PLUG VALVE
	KNIFE GATE VALVE
	NEEDLE VALVE
	FLOW CONTROL VALVE (MANUAL)
	AUTOMATIC RECIRCULATION VALVE
	ANGLE VALVE
	SAFETY/RELIEF VALVE
	VACUUM BREAKER
	HOSE END VALVE
	THREE WAY VALVE
	FOUR WAY VALVE
	LOCKABLE VALVE
	DIAPHRAGM VALVE
	BALANCE VALVE
	TRIPLE DUTY VALVE
	SHADING INDICATES NORMALLY CLOSED VALVE
	FIRE RATED DAMPER
	MOTORIZED CONTROL DAMPER
	SMOKE DAMPER
	MANUAL VOLUME DAMPER

CONTROL VALVES

	AUTOMATIC DRAIN VALVE
	SOLENOID (2 WAY)
	SOLENOID (3 WAY)
	SOLENOID (4 WAY)
	MOTOR OPERATED
	DIAPHRAGM OPERATED
	DIAPHRAGM OPERATED WITH I/P POSITIONER
	DIAPHRAGM OPERATED WITH PNEUMATIC SIGNAL AND POSITIONER
	SELF ACTUATED PRESSURE REGULATOR
	PISTON OPERATED
	HAND OPERATED
	FUSIBLE LINK FIRE SAFETY VALVE
	RECTANGULAR DUCT DIMENSION (INCHES) (PLAN WIDTH x HEIGHT)
	SUPPLY AIR DUCT UP
	SUPPLY AIR DUCT DOWN
	RETURN OR OUTSIDE AIR DUCT UP
	RETURN OR OUTSIDE AIR DUCT DOWN
	AIR VENT
	INLINE AIR SEPARATOR
	AIR SEPARATOR
	AIR CONTROL TANK FITTING
	INJECTION QUILL WITH COCK
	SIMPLEX STRAINER
	FILTER/WATER SEPARATOR
	FLOW RESTRICTOR OR LIMITER

FLOW DIAGRAM SYMBOLS

	EXISTING		STATIC MIXER
	NEW EQUIPMENT		DUPLEX STRAINER
	NEW PIPING		OVERFLOW DRAINER
	HEAT TRACED PIPING		EDUCTOR
	EQUIPMENT SKID LIMIT		CENTRIFUGAL PUMP
	FLOW		FAN
	Y-TYPE STRAINER		METERING PUMP
	EXPANSION JOINT		SURFACE MOUNTED TEMPERATURE SWITCH
	REDUCER		COOLING OR HEATING COIL
	FLEXIBLE CONNECTOR		HOT WATER RADIATOR
	QUICK DISCONNECT COUPLING		UNIT HEATER
	DRIP PAN ELBOW		CABINET UNIT HEATER
	CAP		AGITATOR
	PLUG		CHEMICAL FEED POT
	BLIND FLANGE		EXPANSION TANK
	DRAIN		CONDENSATE NEUTRALIZER
	TRAP		HYDROMETER POT
	UNION		CONNECTION POINT
	VENT TO ATMOS. (OUTDOORS)		IDENTIFICATION SYMBOL
	START UP STRAINER		DIAGRAM INTERFACE (DRAWING NO. TO OR FROM)
	FLOW STRAIGHTENER		
	CALIBRATION COLUMN		
	AIR VENT		
	INLINE AIR SEPARATOR		
	AIR SEPARATOR		
	AIR CONTROL TANK FITTING		
	INJECTION QUILL WITH COCK		
	SIMPLEX STRAINER		
	FILTER/WATER SEPARATOR		
	FLOW RESTRICTOR OR LIMITER		

INSTRUMENT IDENTIFICATION CODES

PER ANSI/ISA-S5.1-1984 (R 1992)

	FIRST LETTER	SUCCEEDING-LETTERS
CODE	MEASURED OR INITIATING VARIABLE	READOUT OR PASSIVE FUNCTION
A	ANALYSIS	ALARM
B	BURNER, COMBUSTION	USER'S CHOICE
C	USER'S CHOICE	USER'S CHOICE
D	USER'S CHOICE	DIFFERENTIAL
E	VOLTAGE	SENSOR (PRIMARY ELEMENT)
F	FLOW RATE	RATIO(FRACTION)
G	USER'S CHOICE	GLASS, VIEWING DEVICE
H	HAND	
I	CURRENT(ELECTRICAL)	INDICATE
J	POWER	SCAN
K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE
L	LEVEL	LIGHT
M	USER'S CHOICE	MOMENTARY
N	USER'S CHOICE	USER'S CHOICE
O	USER'S CHOICE	ORIFICE, RESTRICTION
P	PRESSURE, VACUUM	POINT (TEST) CONNECTION
Q	QUANTITY	INTEGRATE OR TOTALIZE
R	RADIATION	RECORD
S	SPEED, FREQUENCY	SAFETY
T	TEMPERATURE	TRANSMIT
U	MULTIVARIABLE	MULTIFUNCTION
V	VIBRATION, MECHANICAL ANALYSIS	WELL
W	WEIGHT, FORCE	
X	UNCLASSIFIED	X AXIS
Y	EVENT, STATE OR PRESENCE	Y AXIS
Z	POSITION, DIMENSION	Z AXIS

GENERAL MECHANICAL NOTES:

1. PIPING SHALL BE CLEANED OUT PRIOR TO CLOSURE.
2. COORDINATE WITH OWNER'S REPRESENTATIVE FOR OBSERVATION OF ALL PIPING PRIOR TO CLOSURE.
3. TORCH CUTTING OF PIPE TO REMAIN IN SERVICE IS NOT ALLOWED. PIPE SHALL BE CUT WITH BAND SAW, PLASMA CUTTER, OR PORTABLE CUTTING AND BEVELING EQUIPMENT, WHICH MINIMIZES CONTAMINATION OF PIPE INTERIOR WITH CUTTING RESIDUE.
4. ALL CUTTING RESIDUE SHALL BE CLEANED FROM INTERIOR OF PIPING TO REMAIN.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



CHRISTOPHER L. BARTH
Registered Professional Engineer
MO # E-28880
Expires 12-31-2025

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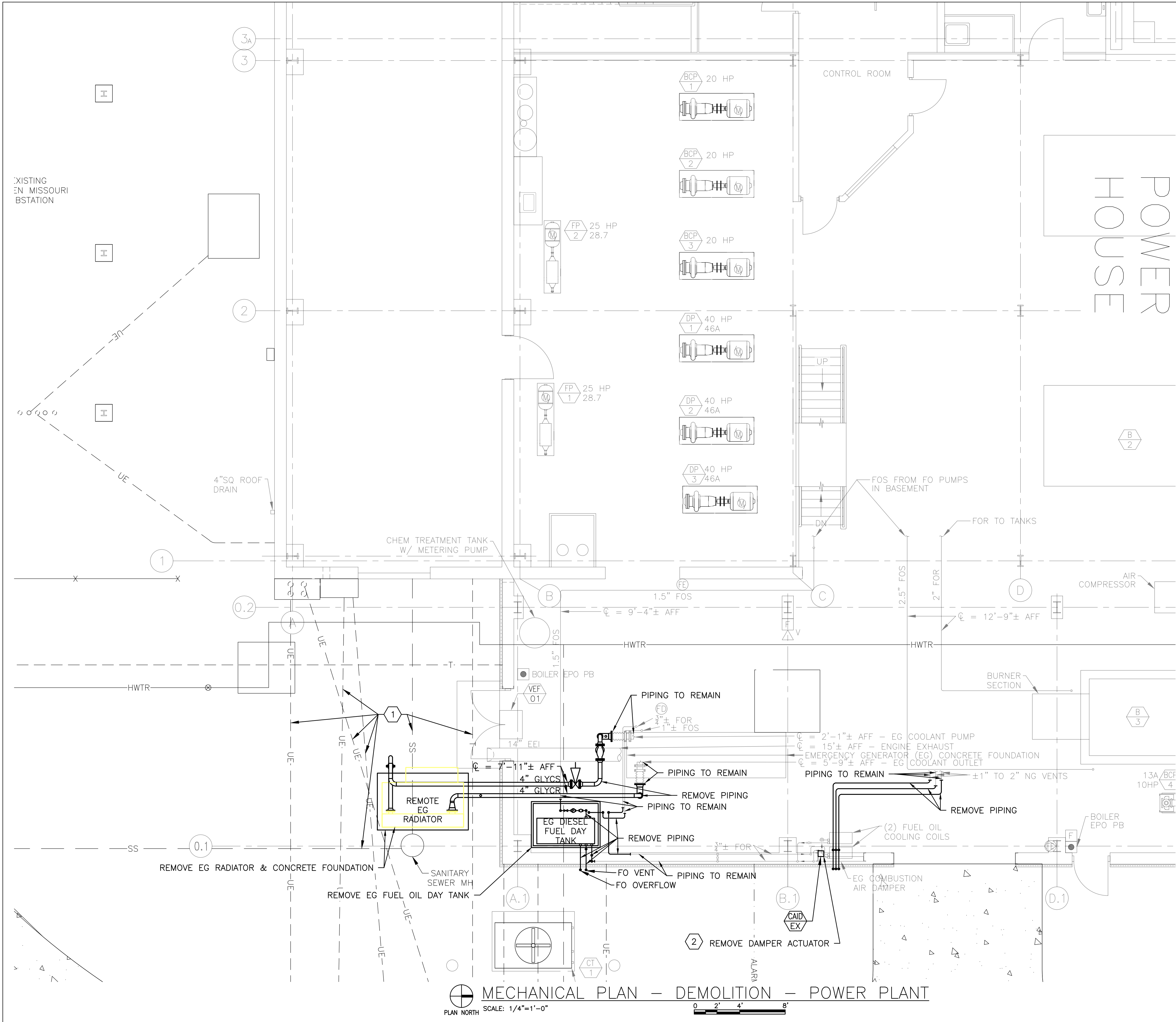
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9327005051-M-001.DWG
DRAWN BY: C L B
CHECKED BY: C L B
DESIGNED BY: C L B

SHEET TITLE:
MECHANICAL
SYMBOLS,
ABBREVIATIONS &
GENERAL NOTES

SHEET NUMBER:

M-001

04 OF 28 SHEETS
SEPTEMBER 22, 2025



GENERAL NOTES:

- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- B. SEAL & FIRESTOP ALL ABANDONED ROOF & WALL PENETRATIONS FOR 2 HOUR FIRE RESISTANCE RATING.
 - B.A. MATCH EXISTING EXPOSED FINISH MATERIALS AND COLORS.
- C. REMOVE, REINSTALL AND RETROFIT STRUCTURAL STEEL, PIPING, INSULATION, CONTROLS, ELECTRICAL, ETC. AS REQUIRED TO ACCOMMODATE DEMOLITION.
- D. CAREFULLY REMOVE, STORE, AND REINSTALL EXISTING CONSTRUCTION TO REMAIN AS REQUIRED.
 - D.A. TOUCH-UP PAINT AS REQUIRED.
 - D.B. REPLACE EXISTING CONSTRUCTION DAMAGED BY CONTRACTOR.
- E. DRAIN COOLANT FROM PIPING AND ENGINE COOLANT DRAIN POINTS.
- F. DRAIN FUEL OIL FROM DAY TANK AND PIPING.
- G. PROPERLY RECYCLE OR DISPOSE OF COOLANT & FUEL OIL.
- H. IMPLEMENT PROPER FIRE SAFETY AND SPILL PROTECTION PROTOCOLS DURING WORK.
- I. INSPECT ALL INSTRUMENTS & CONTROLS TO BE REMOVED FOR MERCURY.
 - I.A. DISPOSE OF MERCURY CONTAINING MATERIALS IN ACCORDANCE WITH APPLICABLE HAZARDOUS WASTE REGULATIONS.
 - I.B. REVIEW DISPOSAL PLANS PRIOR TO PROCEEDING WITH CONSTRUCTION REPRESENTATIVE & PROVIDE DISPOSAL RECORDS TO CONSTRUCTION REPRESENTATIVE.
- J. ADDRESS ANY OTHER SUSPECTED HAZARDOUS MATERIALS WITH CONSTRUCTION REPRESENTATIVE.
- K. VISUALLY INSPECT PIPING TO REMAIN & ADVISE OWNER'S REPRESENTATIVE OF ANY ISSUES.
- L. INSTALL CAP OR PLUG ON PIPING TO REMAIN UNTIL NEW PIPING IS INSTALLED.
- M. INSTALL TEMPORARY WATERPROOF SEALS ON BUILDING PENETRATIONS TO BE REUSED.
- N. AFTER DEMOLITION IS COMPLETE, VISUALLY INSPECT INFRASTRUCTURE TO REMAIN & ADVISE OWNER'S REPRESENTATIVE OF ANY ISSUES PRIOR TO PROCEEDING WITH NEW CONSTRUCTION.
- O. SEE NOTES ON DWG G-003.

KEY NOTES:

- 1. EXISTING UNDERGROUND UTILITIES HAVE BEEN INDICATED BASED UPON AVAILABLE INFORMATION AND THEIR LOCATIONS ARE APPROXIMATE ONLY. OTHER UTILITIES OR OBSTRUCTIONS MAY ALSO BE ENCOUNTERED.
 - 1.1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UNDERGROUND UTILITIES, PUBLIC & PRIVATE, AND TO AVOID DAMAGE TO SAME DURING CONSTRUCTION.
 - 1.2. EXCAVATE WITH CAUTION.
- 2. EXISTING EG COMBUSTION AIR INTAKE DAMPER TO REMAIN IN PLACE.
 - 2.1. CLEAN & INSPECT DAMPER.
 - 2.2. CONFIRM DAMPERS OPERATE PROPERLY AND FREELY FROM FULL CLOSED TO FULL OPEN.
 - 2.3. SUBMIT INSPECTION REPORT IDENTIFYING PROBLEMS, RECOMMENDED CORRECTIVE ACTIONS, AND ASSOCIATED COSTS.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



CHRISTOPHER L. BARTH
Registered Professional Engineer
MO # E-28880
Expires 12-31-2025

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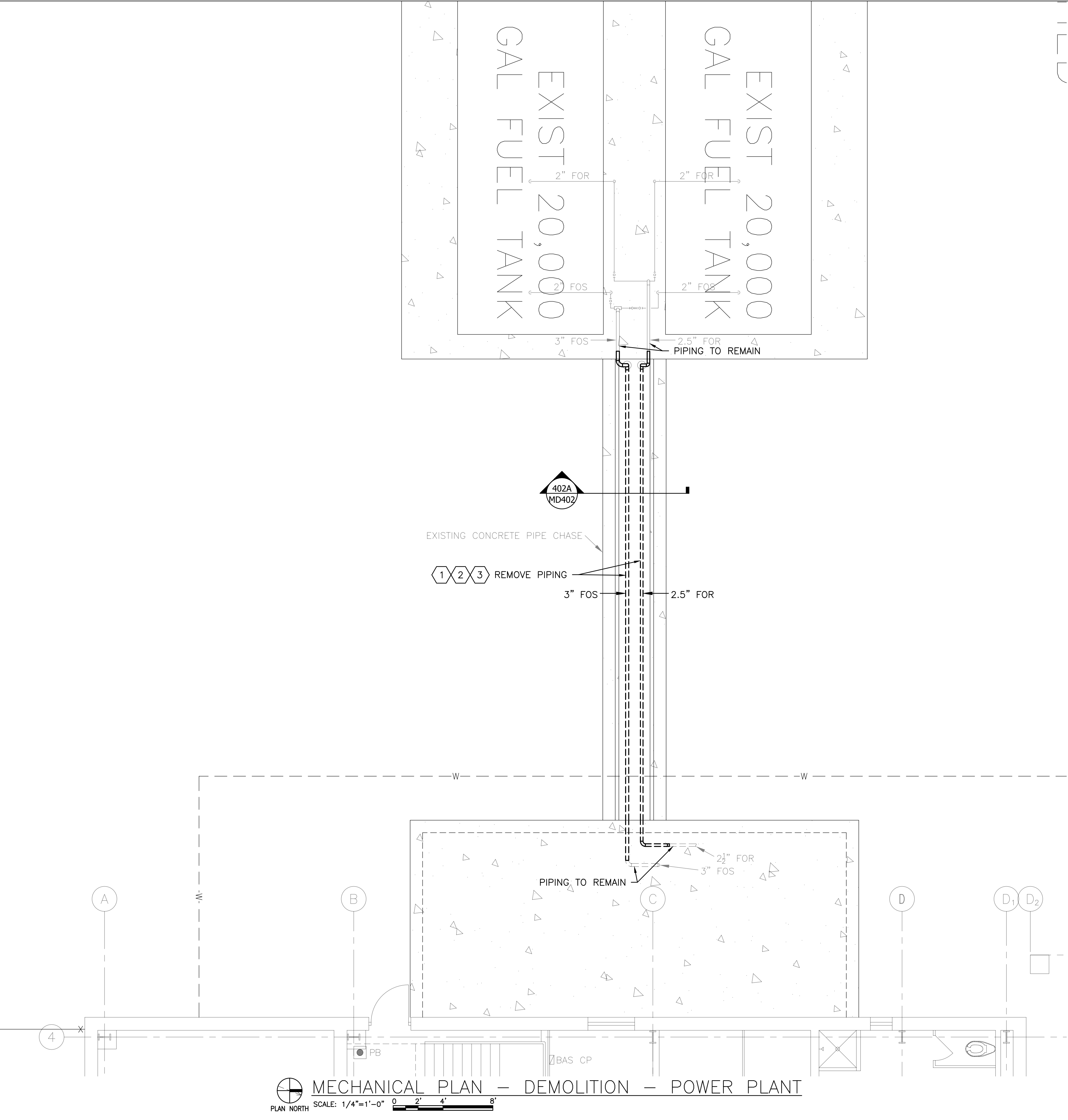
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DRAWN BY: CLB
CHECKED BY: CLB
DESIGNED BY: CLB

SHEET TITLE:
MECHANICAL
PLAN -
DEMOLITION -
POWER PLANT

SHEET NUMBER:

MD-401

05 OF 28 SHEETS
SEPTEMBER 22, 2025

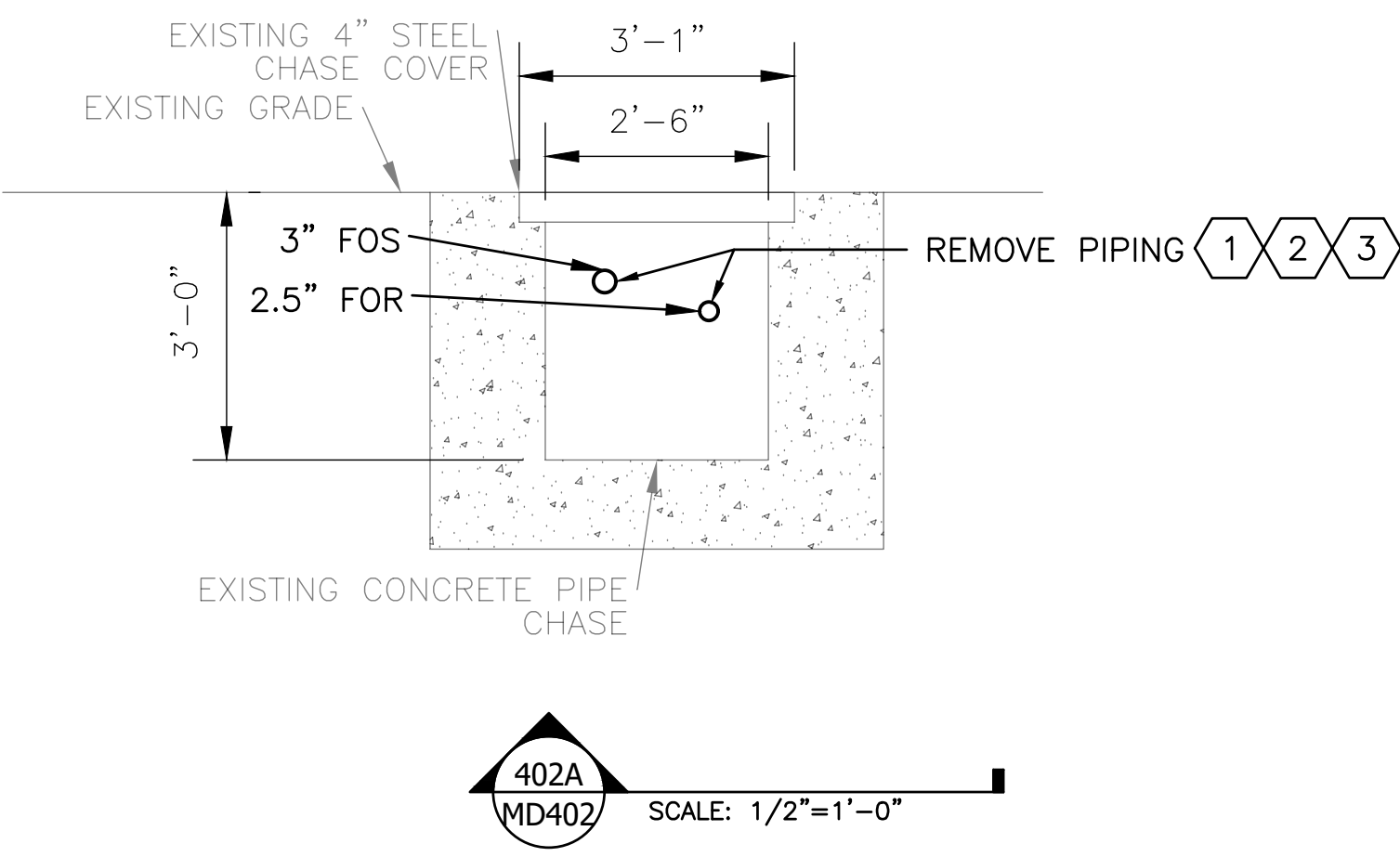


GENERAL NOTES:

- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- B. SEAL & FIRESTOP ALL ABANDONED ROOF & WALL PENETRATIONS FOR 2 HOUR FIRE RESISTANCE RATING.
- B.A. MATCH EXISTING EXPOSED FINISH MATERIALS AND COLORS.
- C. REMOVE, REINSTALL AND RETROFIT STRUCTURAL STEEL, PIPING, INSULATION, CONTROLS, ELECTRICAL, ETC. AS REQUIRED TO ACCOMMODATE DEMOLITION.
- D. CAREFULLY REMOVE, STORE, AND REINSTALL EXISTING CONSTRUCTION TO REMAIN AS REQUIRED.
- D.A. TOUCH-UP PAINT AS REQUIRED.
- D.B. REPLACE EXISTING CONSTRUCTION DAMAGED BY CONTRACTOR.
- E. DRAIN FUEL OIL FROM PIPING.
- F. PROPERLY RECYCLE OR DISPOSE OF FUEL OIL.
- G. IMPLEMENT PROPER FIRE SAFETY AND SPILL PROTECTION PROTOCOLS DURING WORK.
- H. INSPECT ALL INSTRUMENTS & CONTROLS TO BE REMOVED FOR MERCURY.
- H.A. DISPOSE OF MERCURY CONTAINING MATERIALS IN ACCORDANCE WITH APPLICABLE HAZARDOUS WASTE REGULATIONS.
- H.B. REVIEW DISPOSAL PLANS PRIOR TO PROCEEDING WITH CONSTRUCTION REPRESENTATIVE & PROVIDE DISPOSAL RECORDS TO CONSTRUCTION REPRESENTATIVE.
- I.ADDRESS ANY OTHER SUSPECTED HAZARDOUS MATERIALS WITH CONSTRUCTION REPRESENTATIVE.
- J. VISUALLY INSPECT PIPING TO REMAIN & ADVISE OWNER'S REPRESENTATIVE OF ANY ISSUES.
- K. INSTALL CAP OR PLUG ON PIPING TO REMAIN UNTIL NEW PIPING IS INSTALLED.
- L. INSTALL TEMPORARY WATERPROOF SEALS ON BUILDING PENETRATIONS TO BE REUSED.
- M. AFTER DEMOLITION IS COMPLETE, VISUALLY INSPECT INFRASTRUCTURE TO REMAIN & ADVISE OWNER'S REPRESENTATIVE OF ANY ISSUES PRIOR TO PROCEEDING WITH NEW CONSTRUCTION.
- N. SEE NOTES ON DWG G-003.

KEY NOTES:

- 1. REMOVE PIPE SUPPORTS.
- 2. CLEAN PIPE CHASE.
- 3. VISUALLY INSPECT & HAMMER SOUND CONCRETE WALLS & FLOOR FOR SPALLING OR DELAMINATION WITH OWNER'S REPRESENTATIVE OBSERVING.
- 3.1. ADVISE OWNER'S REPRESENTATIVE OF ANY CONCRETE REPAIR ISSUES PRIOR TO INSTALLING NEW PIPING.



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



CHRISTOPHER L. BARTH
Registered Professional Engineer
MO # E-28880
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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
CORRECTIONS

UPGRADE GENERATOR
CONTROLS & TRANSFER
SWITCH, POWER PLANT

MOBERLY CORRECTIONAL
CENTER
5201 SOUTH MORLEY ST.
MOBERLY, MO 65270

PROJECT # C1920-01
SITE # 7005
ASSET # 9327005051

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 09/22/2025

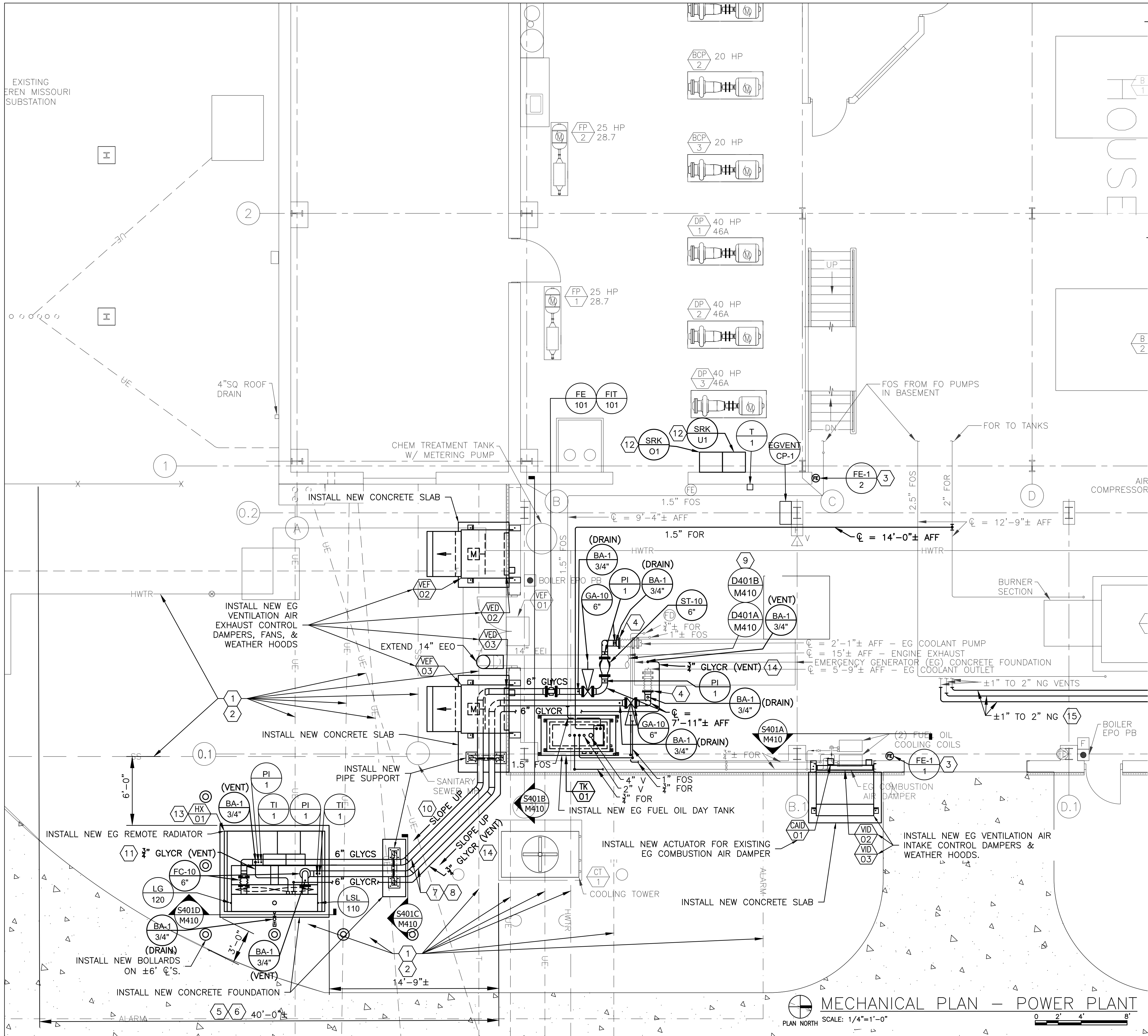
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9327005051-MD-SERIES.DWG
DRAWN BY: C L B
CHECKED BY: C L B
DESIGNED BY: C L B

SHEET TITLE:
MECHANICAL
PLAN -
DEMOLITION -
POWER PLANT

SHEET NUMBER:

MD-402

06 OF 28 SHEETS
SEPTEMBER 22, 2025



GENERAL NOTES:

- FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- SEAL & FIRESTOP ALL WALL PENETRATIONS FOR 2 HOUR FIRE RESISTANCE RATING.
- REMOVE, REINSTALL AND RETROFIT STRUCTURAL STEEL, PIPING, INSULATION, CONTROLS, ELECTRICAL, ETC. AS REQUIRED TO ACCOMMODATE NEW EQUIPMENT.
- SEE NOTES ON DWG G-003.
- COORDINATE PIPING INSTALLATION WITH FLOW DIAGRAMS. SOME PIPING COMPONENTS NOT SHOWN ON PLANS FOR CLARITY.
- REVIEW PIPE INSTALLATION WITH CONSTRUCTION REPRESENTATIVE PRIOR TO PROCEEDING.

KEY NOTES:

- EXISTING UNDERGROUND UTILITIES HAVE BEEN INDICATED BASED UPON AVAILABLE INFORMATION AND THEIR LOCATIONS ARE APPROXIMATE ONLY. OTHER UTILITIES OR OBSTRUCTIONS MAY ALSO BE ENCOUNTERED.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UNDERGROUND UTILITIES, PUBLIC & PRIVATE, AND TO AVOID DAMAGE TO SAME DURING CONSTRUCTION.
 - EXCAVATE WITH CAUTION.
- ADJUST NEW EQUIPMENT LOCATIONS AS REQUIRED TO ACCOMMODATE EXISTING UTILITIES, SUBJECT TO APPROVAL OF CONSTRUCTION REPRESENTATIVE.
- INSTALL NEW FIRE EXTINGUISHER. COORDINATE LOCATION WITH CONSTRUCTION REPRESENTATIVE PRIOR TO PROCEEDING.
- FIELD VERIFY & MATCH EXISTING CONNECTION. PROVIDE REDUCERS AT CONNECTION AS REQUIRED.
- REMOVE GRASS & WEEDS BETWEEN ROAD, BUILDINGS, & FENCES IN THIS AREA.
- INSTALL MINIMUM 1" THICK LAYER OF NEW GRAVEL TO MATCH EXISTING IN THIS AREA UPON COMPLETION OF CONSTRUCTION.
- CLEAN & FLUSH EMERGENCY GENERATOR COOLANT SYSTEM IN ACCORDANCE WITH ENGINE & RADIATOR MANUFACTURERS' INSTRUCTIONS.
 - PROVIDE A DISTILLED WATER/GLYCOL ANTIFREEZE MIXTURE WITH:
 - A FREEZE POINT OF -34 F OR LOWER.
 - A BOILING POINT OF 250 F OR HIGHER AT 15 PSIG.
 - WITH CORROSION INHIBITORS.
 - PROVIDE WRITTEN DOCUMENTATION OF ENGINE AND RADIATOR MANUFACTURERS' COOLANT APPROVALS.
- INSTALL REMOVABLE INSULATION BLANKETS ON EXISTING EMERGENCY GENERATOR EXHAUST EXPANSION JOINT, MUFFLER, & INDOOR PIPING.
- SLOPE COOLANT PIPE CONTINUOUSLY UPWARDS TO RADIATOR, MINIMUM $\frac{1}{8}$ " PER FOOT.
- FIELD ROUTE $\frac{3}{4}$ " VENT PIPE TO RADIATOR SEDD TANK.
- INSTALL NEW SPILL RESPONSE KITS. COORDINATE LOCATION WITH CONSTRUCTION REPRESENTATIVE PRIOR TO PROCEEDING.
- INSTALL RADIATOR SO THAT RADIATOR SEDD TANK IS THE HIGH POINT IN THE COOLANT PIPING SYSTEM.
- ROUTE $\frac{3}{4}$ " GLYCR (VENT) FROM ENGINE VENT CONNECTION TO RADIATOR SEDD TANK WITH CONTINUOUS SLOPE WITHOUT POCKETS.
- RELOCATE BOILER GAS VENTS. FIELD ROUTE WITHOUT POCKETS TO OUTDOOR DISCHARGE POINT NO LESS THAN 10' FROM BUILDING OPENINGS.
 - REVIEW PIPE ROUTING WITH CONSTRUCTION REPRESENTATIVE PRIOR TO PROCEEDING.
 - PAINT TO MATCH EXISTING PIPE.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



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Registered Professional Engineer
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CORRECTIONS

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SWITCH, POWER PLANT

MOBERLY CORRECTIONAL
CENTER
5201 SOUTH MORLEY ST.
MOBERLY, MO 65270

PROJECT # C1920-01
SITE # 7005
ASSET # 9327005051

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:

ISSUE DATE: 09/22/2025

CAD DWG FILE: C1920-01-7005-
9327005051-M-SERIES.DWG
DRAWN BY: C.L.B.
CHECKED BY: C.L.B.
DESIGNED BY: C.L.B.

SHEET TITLE:
MECHANICAL
PLAN - POWER
PLANT

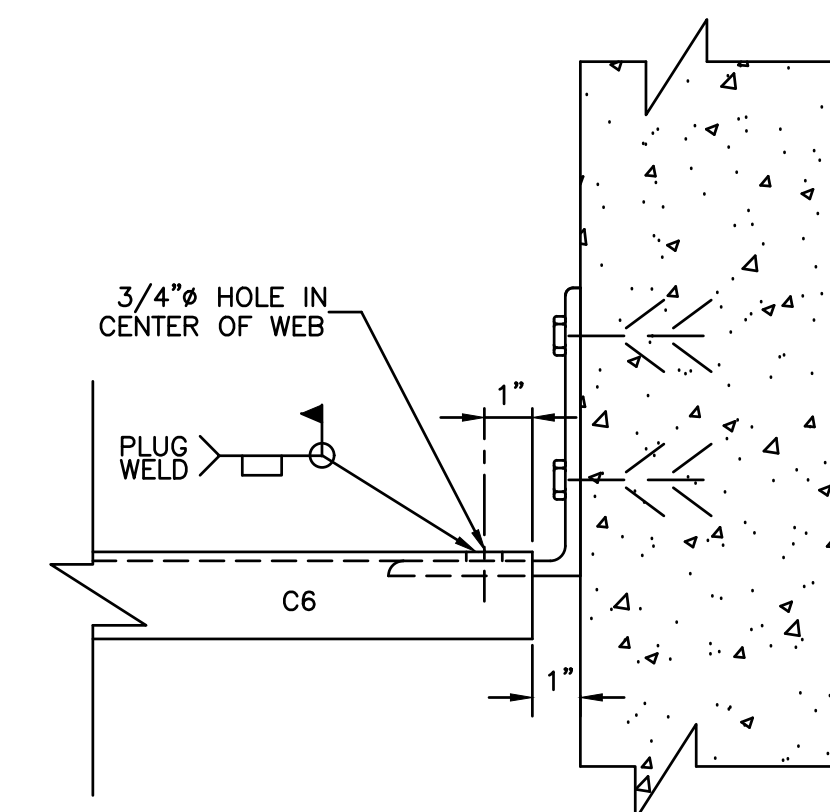
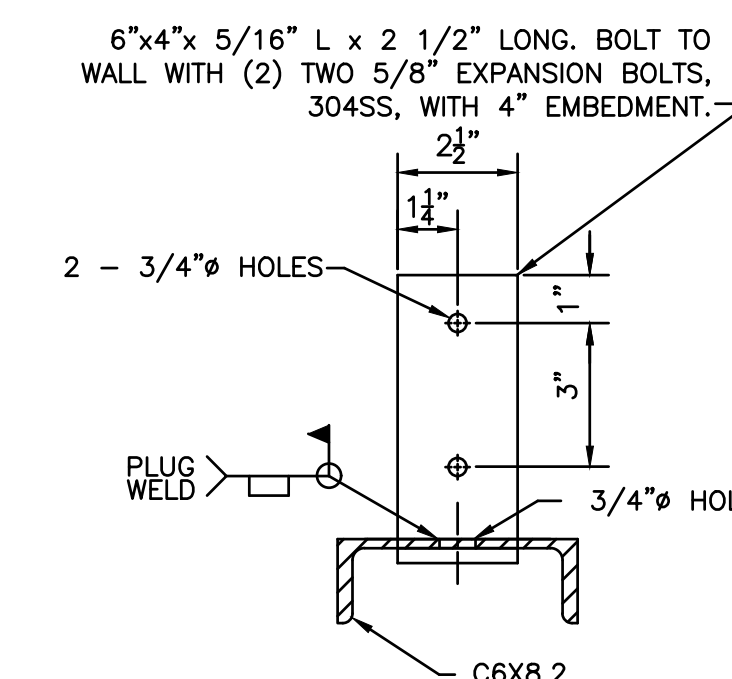
SHEET NUMBER:

M-401

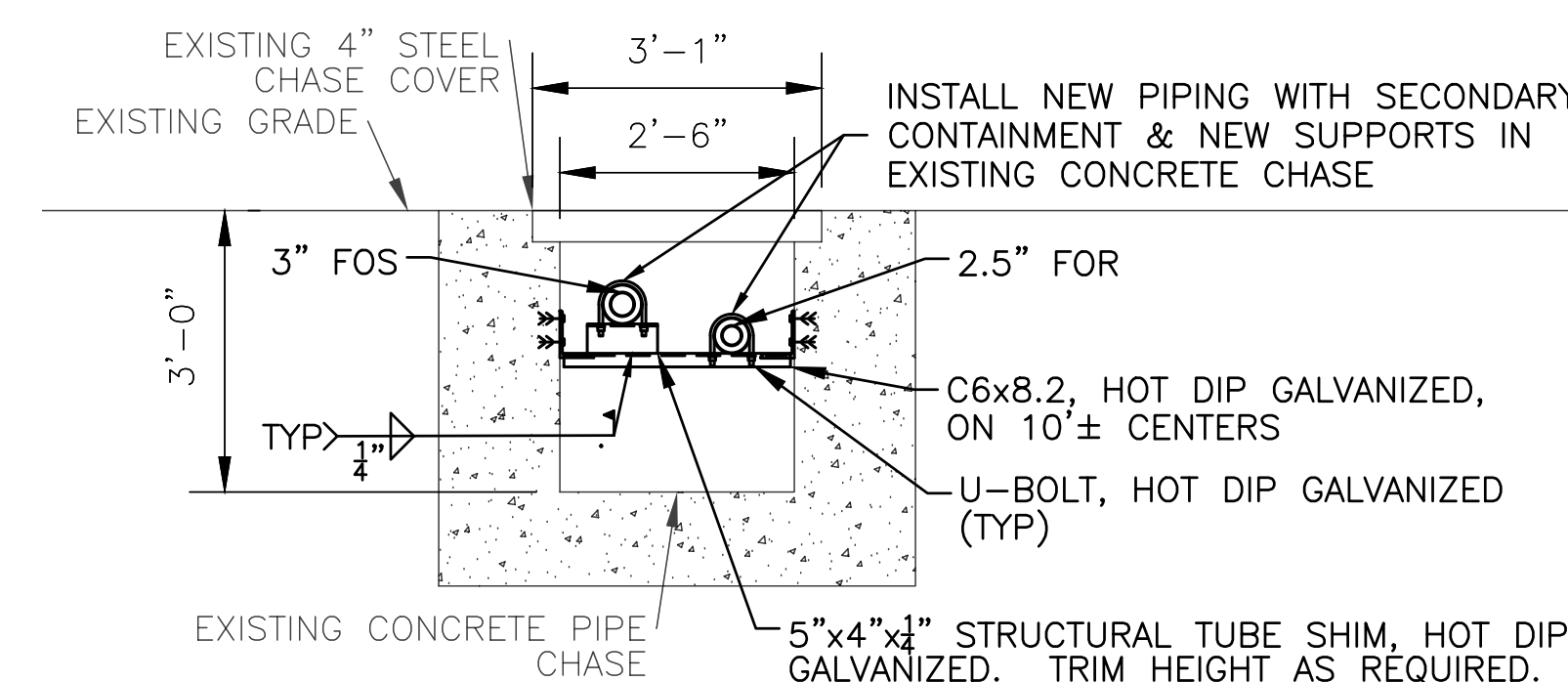
07 OF 28 SHEETS
SEPTEMBER 22, 2025

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ENGINEERING CO., P.C.
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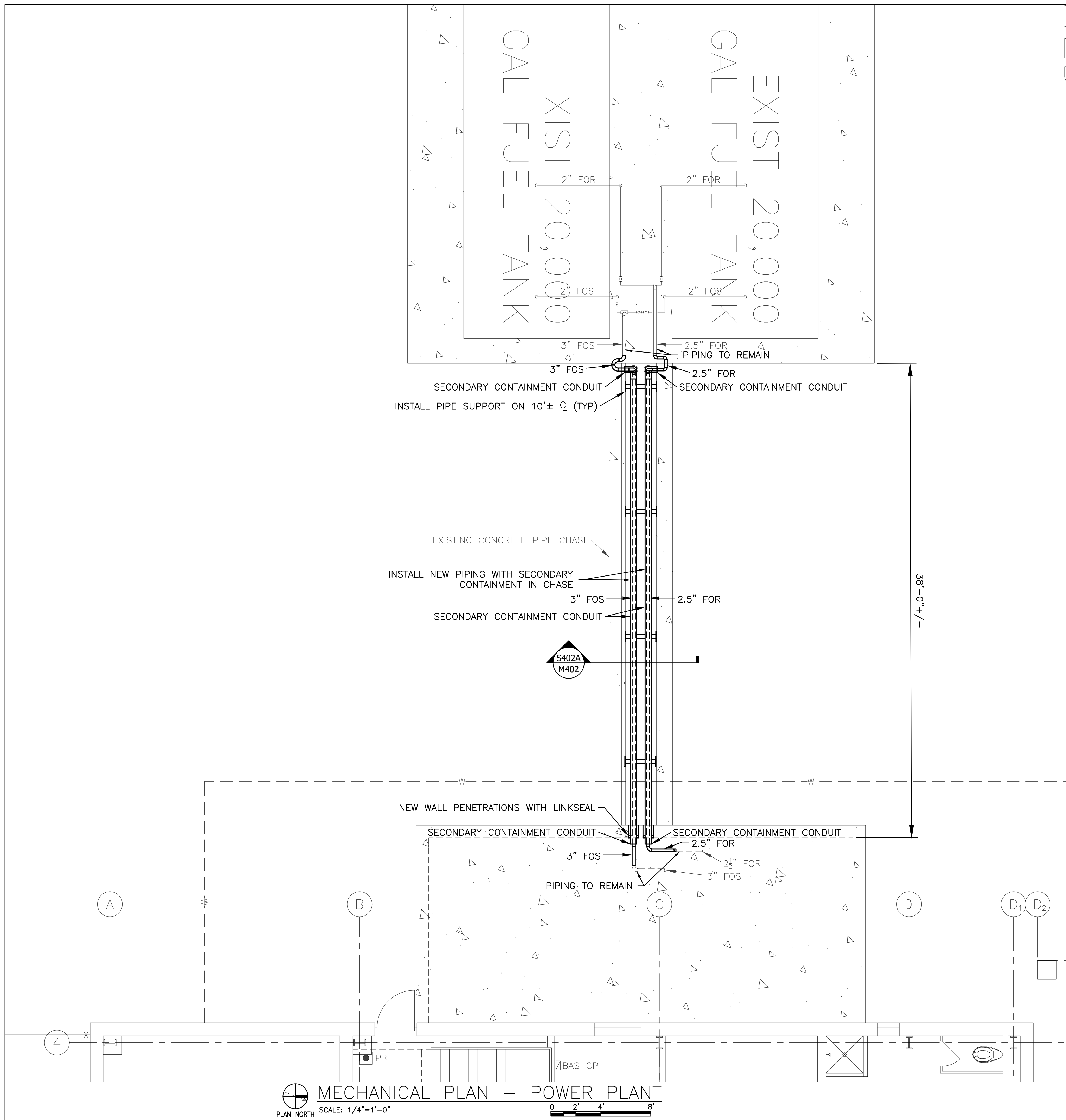
- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- B. SEAL & FIRESTOP ALL WALL PENETRATIONS FOR 2 HOUR FIRE RESISTANCE RATING.
- C. REMOVE, REINSTALL AND RETROFIT STRUCTURAL STEEL, PIPING, INSULATION, CONTROLS, ELECTRICAL, ETC. AS REQUIRED TO ACCOMMODATE NEW PIPING.
- D. SEE NOTES ON DWG G-003.
- E. REVIEW PIPE INSTALLATION WITH CONSTRUCTION REPRESENTATIVE PRIOR TO PROCEEDING.
- F. ALL CHASE PIPE SUPPORTS SHALL BE HOT-DIPPED-GALVANIZED.
- G. ALL GALVANIZING DAMAGED BY WELDING SHALL BE REPAIRED WITH A SUITABLE ZINC BASED COATING IN ACCORDANCE WITH ASTM A780 (PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS).

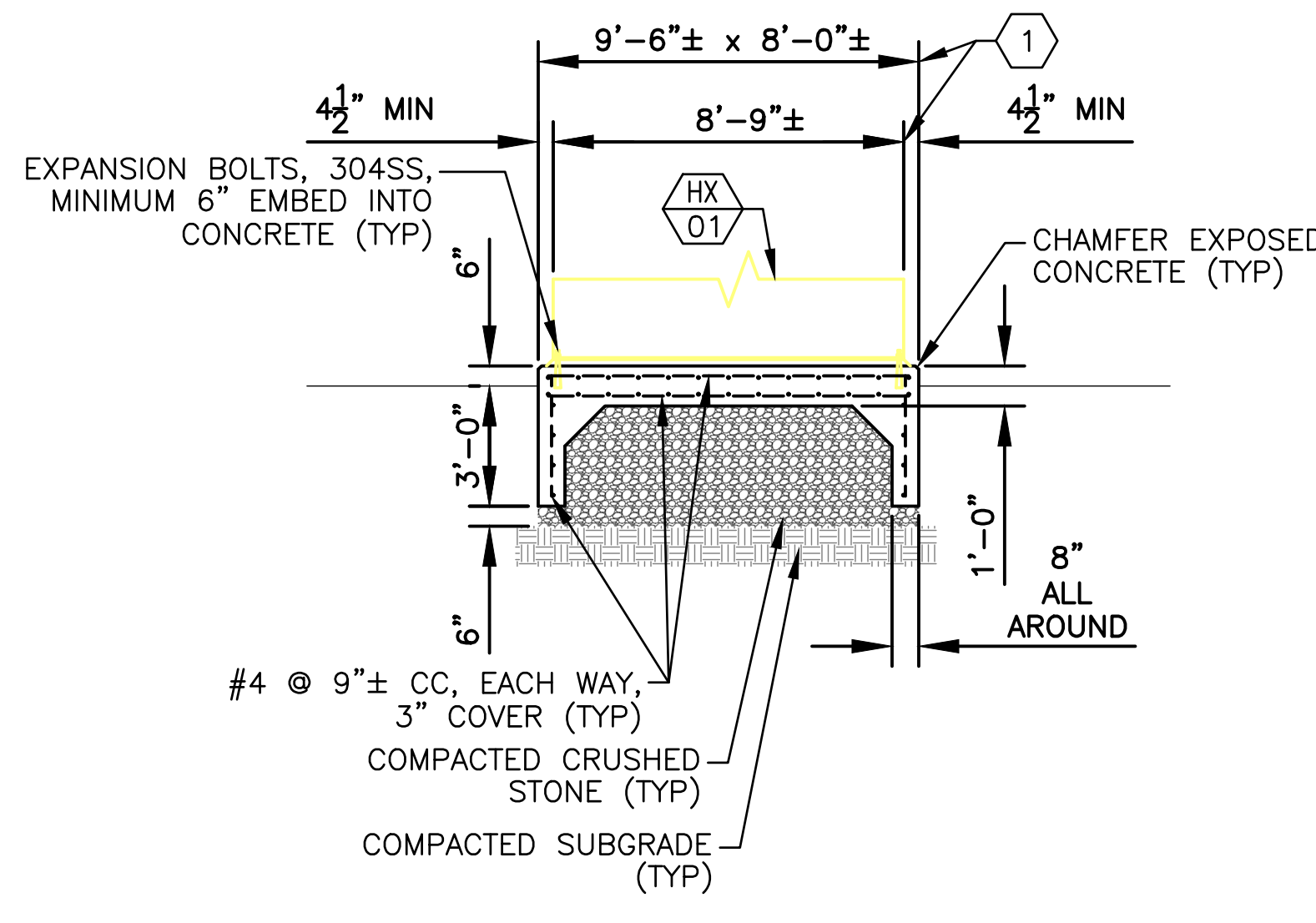
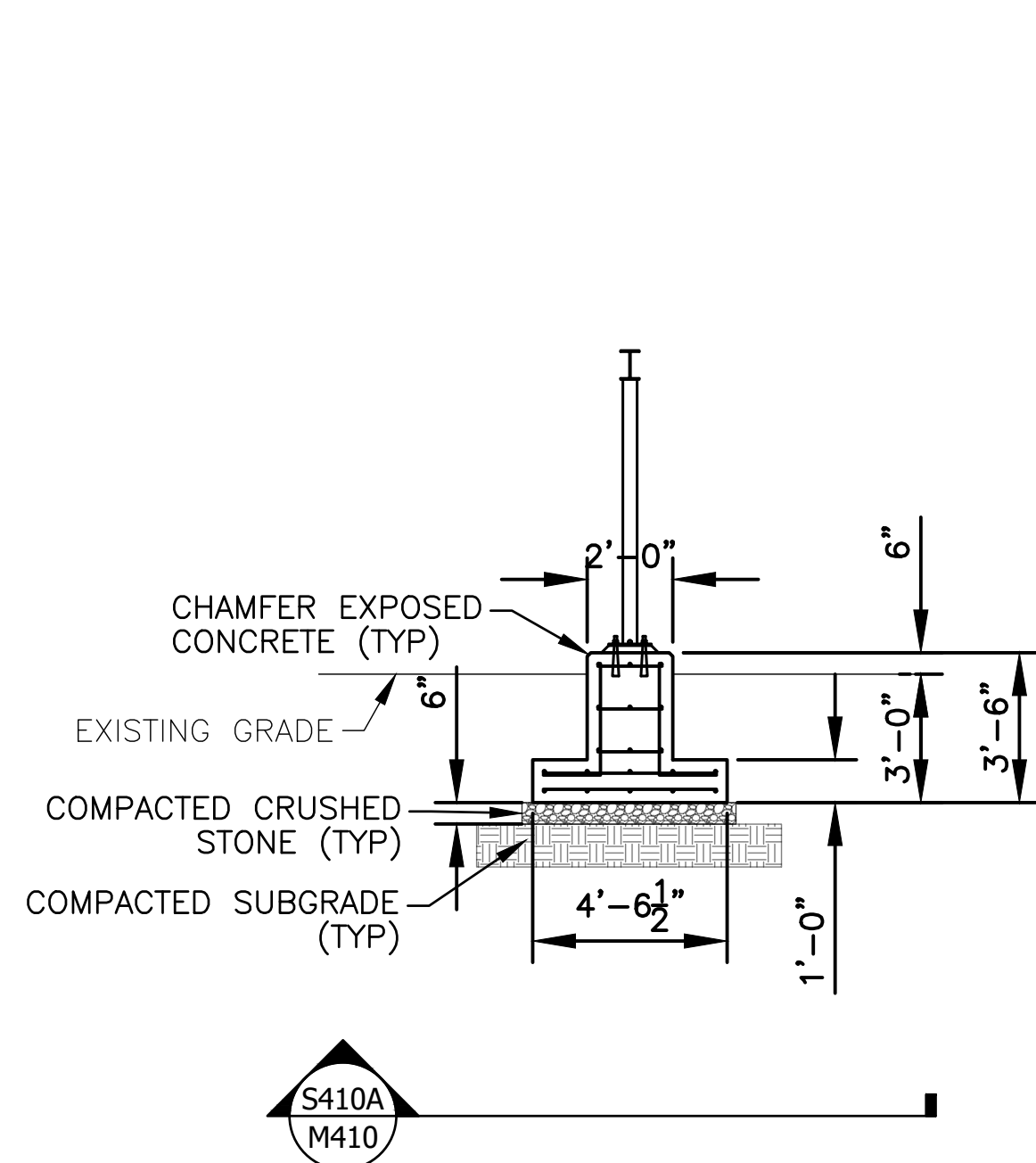
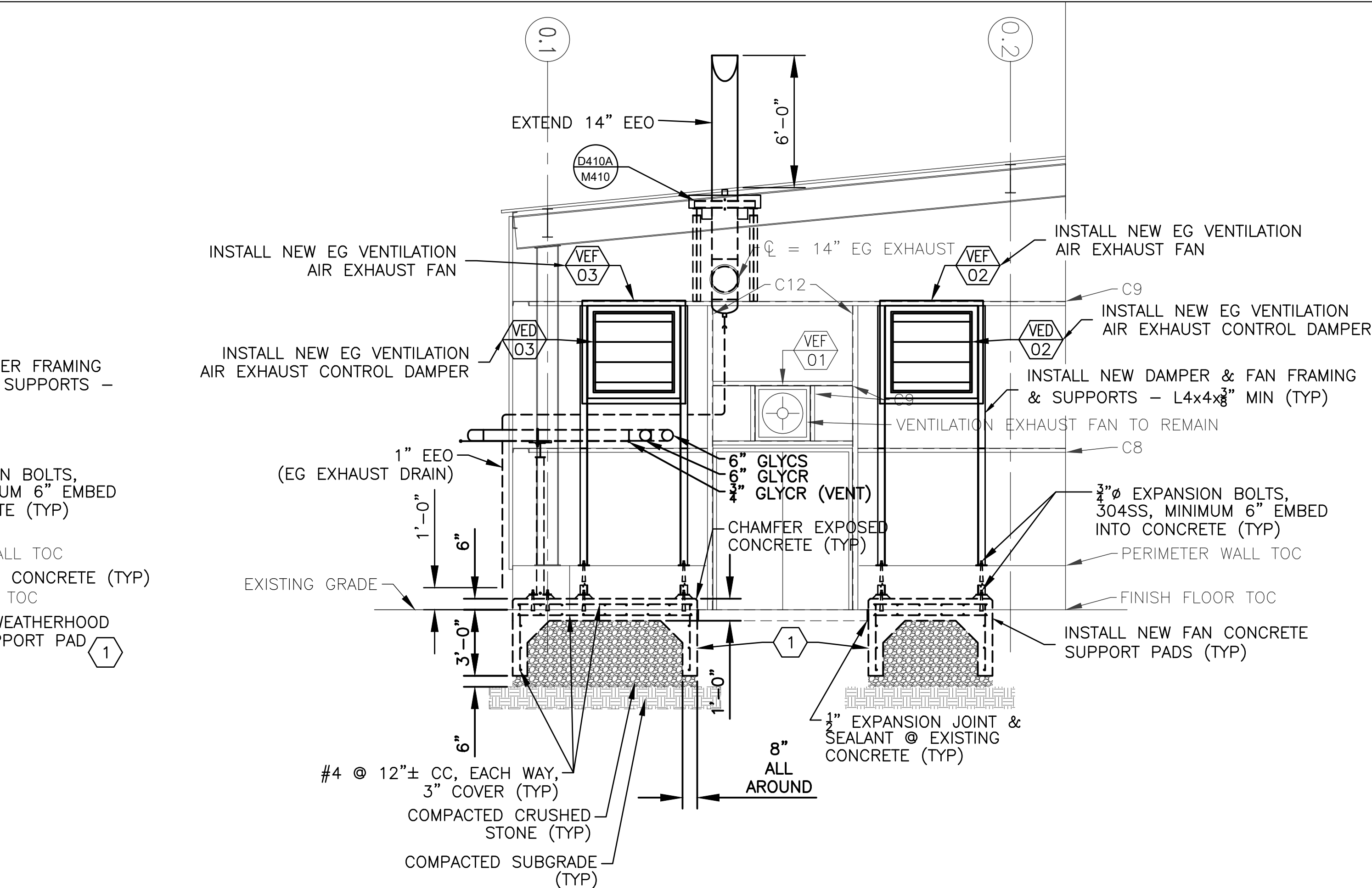
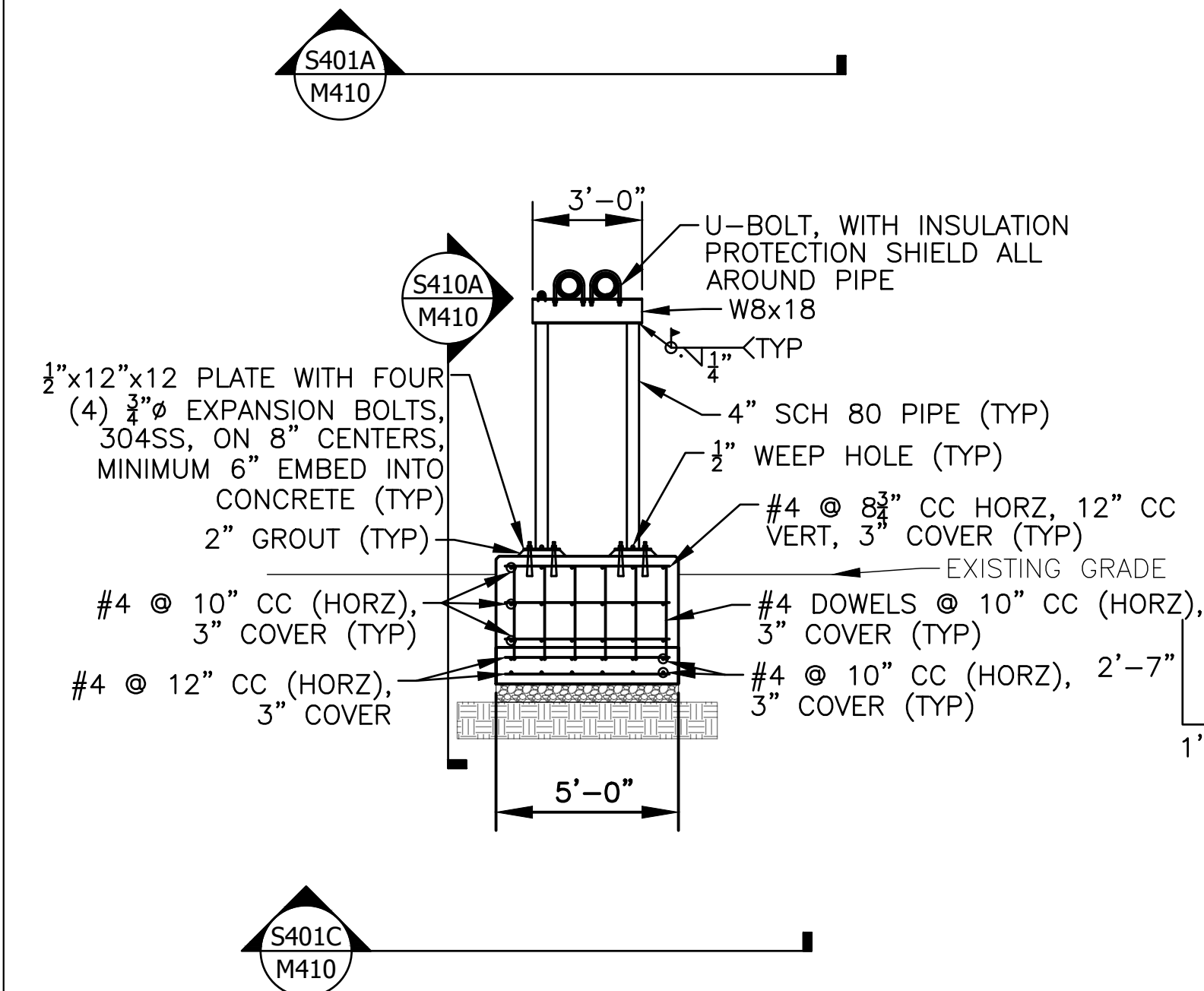
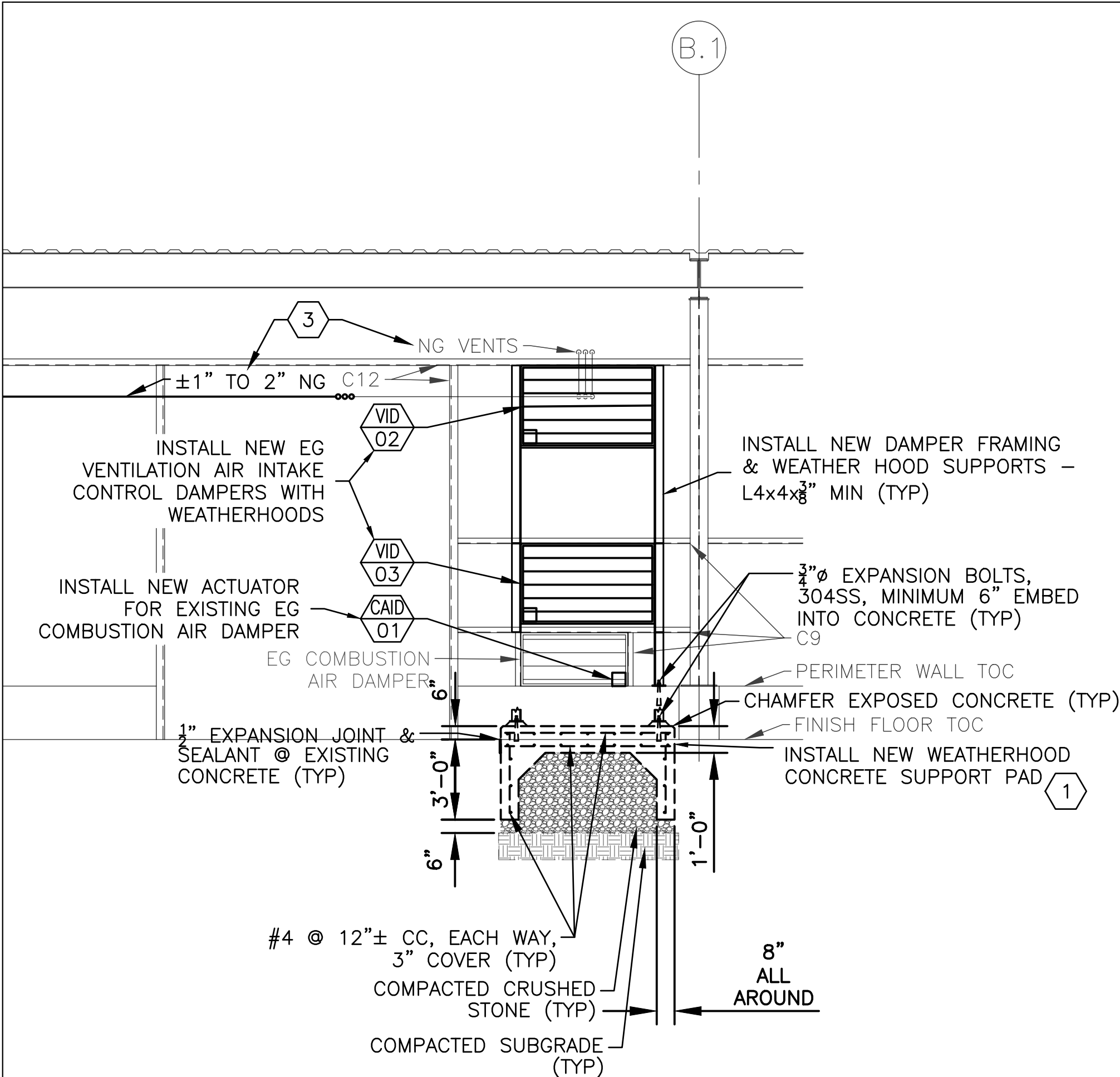


SCALE: NTS




 SCALE: 1/2"=1'-0"





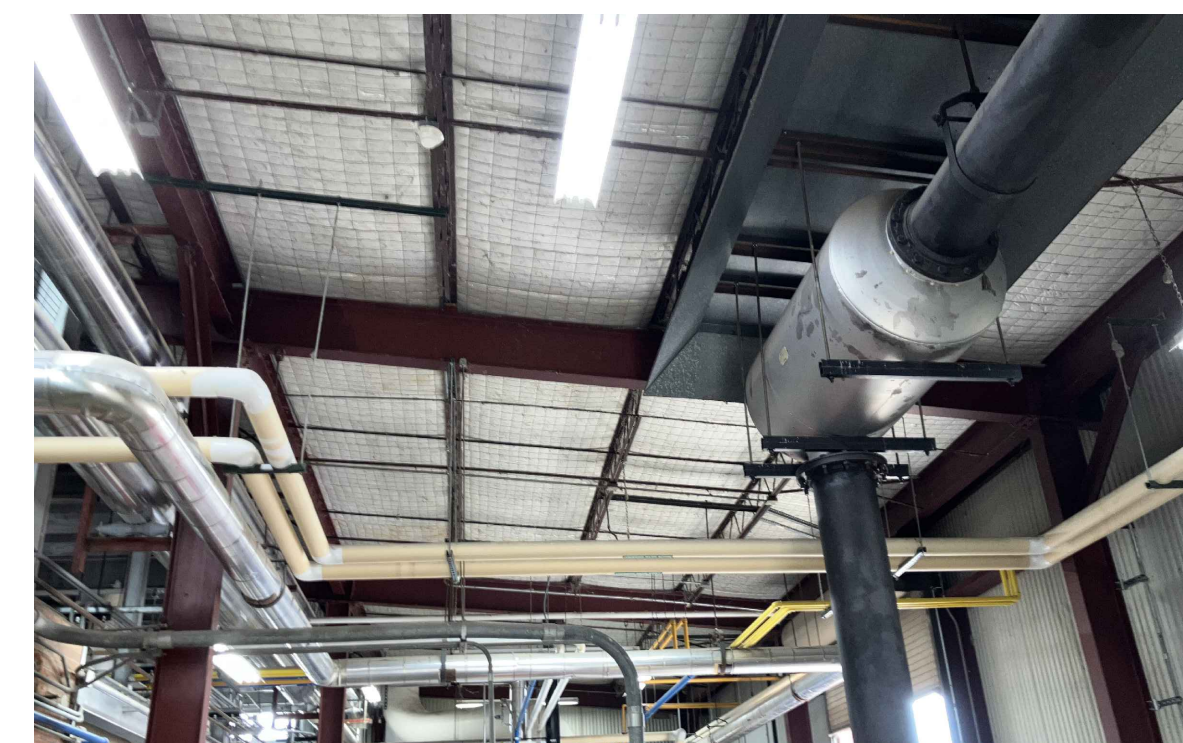
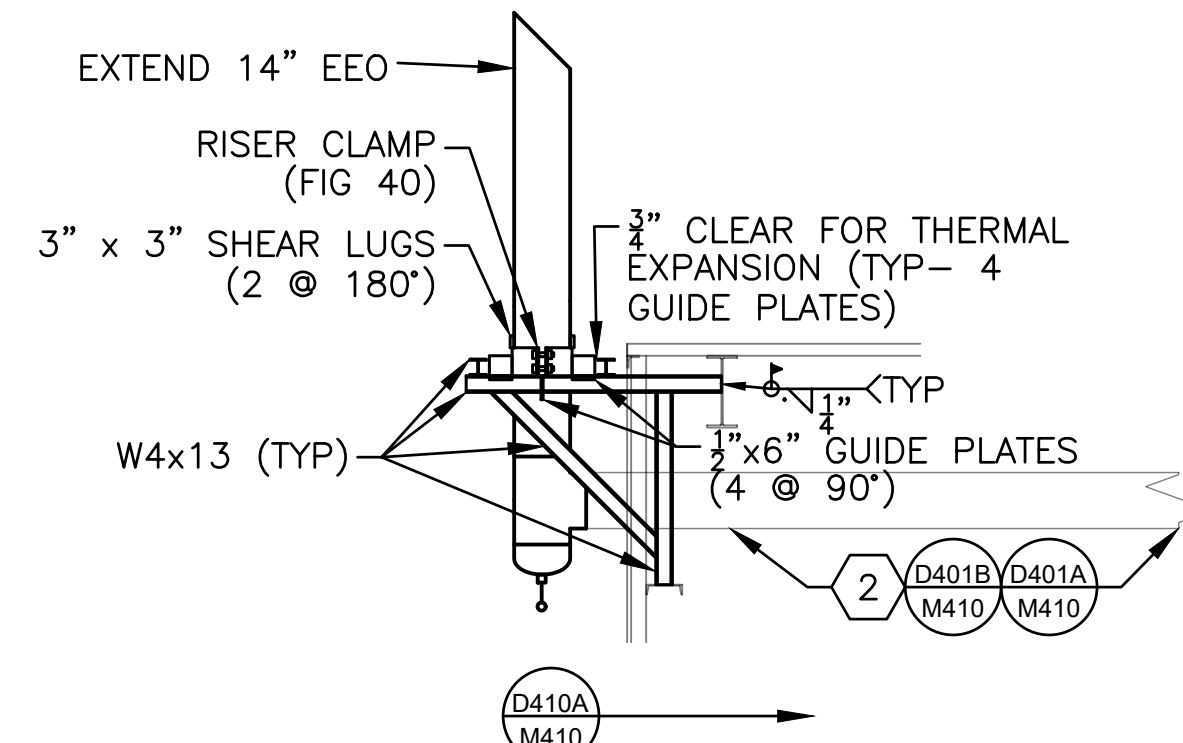
KEY NOTES:

- COORDINATE CONCRETE WITH EQUIPMENT PROVIDED.
- INSTALL REMOVABLE INSULATION BLANKETS ON EXISTING EMERGENCY GENERATOR EXHAUST EXPANSION JOINT, MUFFLER, & INDOOR PIPING.
- RELOCATE BOILER GAS VENTS. FIELD ROUTE TO OUTDOOR DISCHARGE POINT NO LESS THAN 10' FROM BUILDING OPENINGS.
 - REVIEW PIPE ROUTING WITH CONSTRUCTION REPRESENTATIVE PRIOR TO PROCEEDING.
 - PAINT TO MATCH EXISTING PIPE.

GENERAL NOTES:

- FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- OUTDOOR SUPPORT STEEL SHALL BE HOT-DIPPED-GALVANIZED.
- ALL GALVANIZING DAMAGED BY WELDING SHALL BE REPAIRED WITH A SUITABLE ZINC BASED COATING IN ACCORDANCE WITH ASTM A780 (PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS).
- INDOOR SUPPORT STEEL SHALL BE PAINTED.

0 2' 4' 8'
SCALE: 1/4"=1'-0"



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



CHRISTOPHER L. BARTH
Registered Professional Engineer
MO # E-28880
Expires 12-31-2025

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MOBERLY, MO 65270

PROJECT # C1920-01
SITE # 7005
ASSET # 9327005051

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ISSUE DATE: 09/22/2025

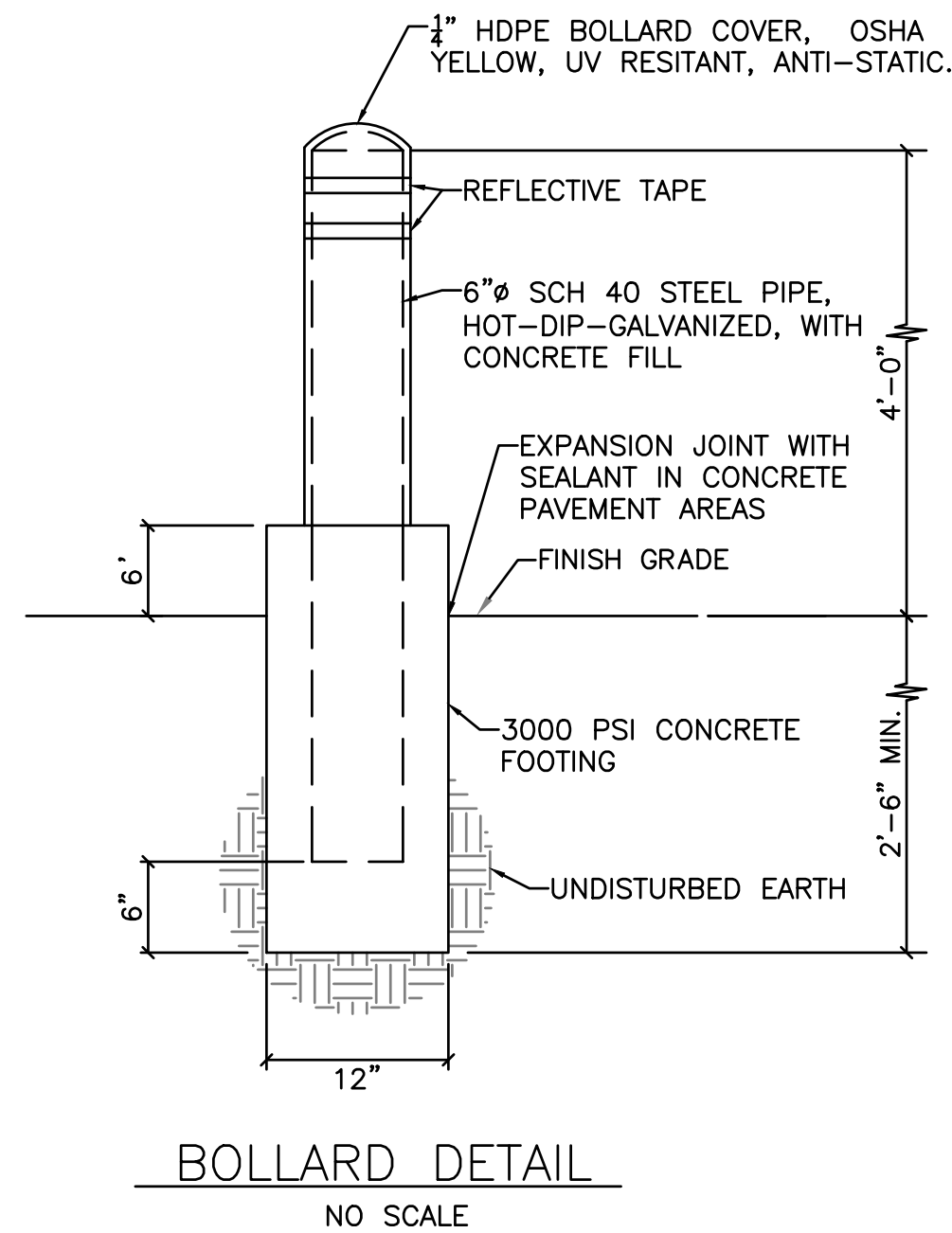
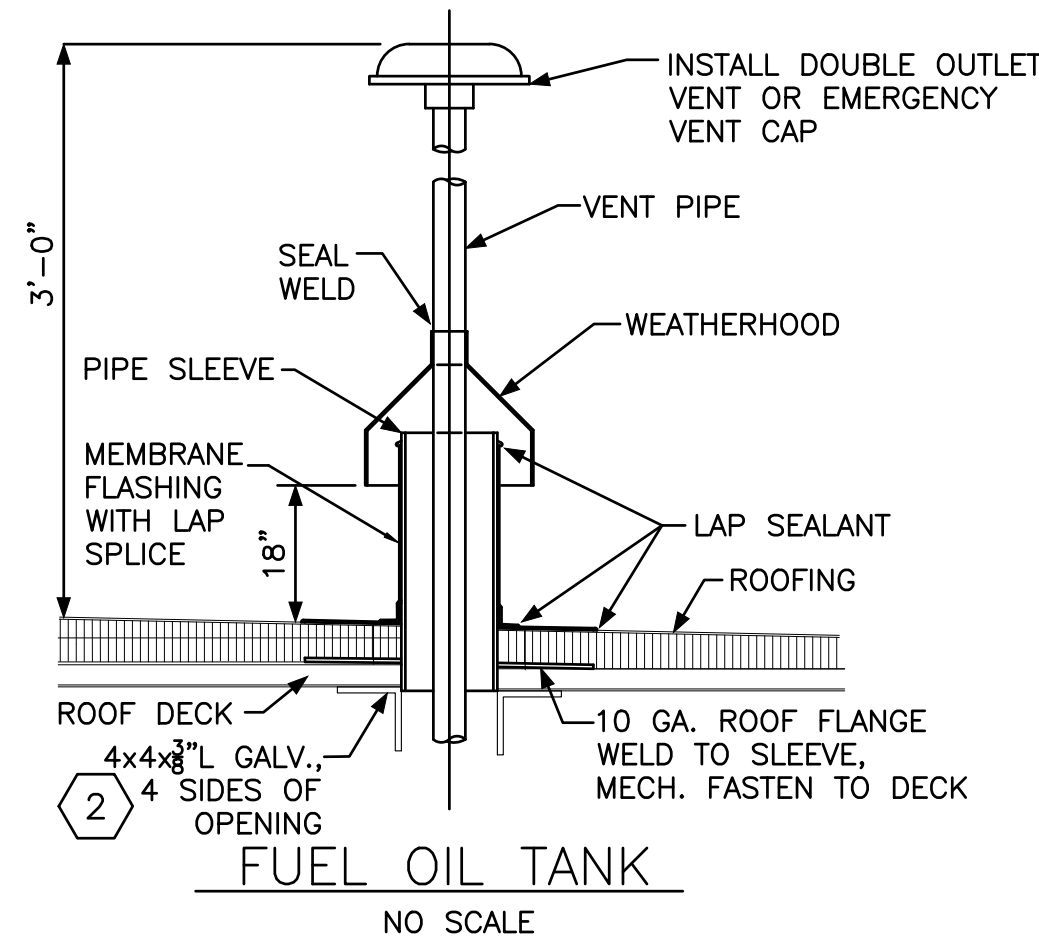
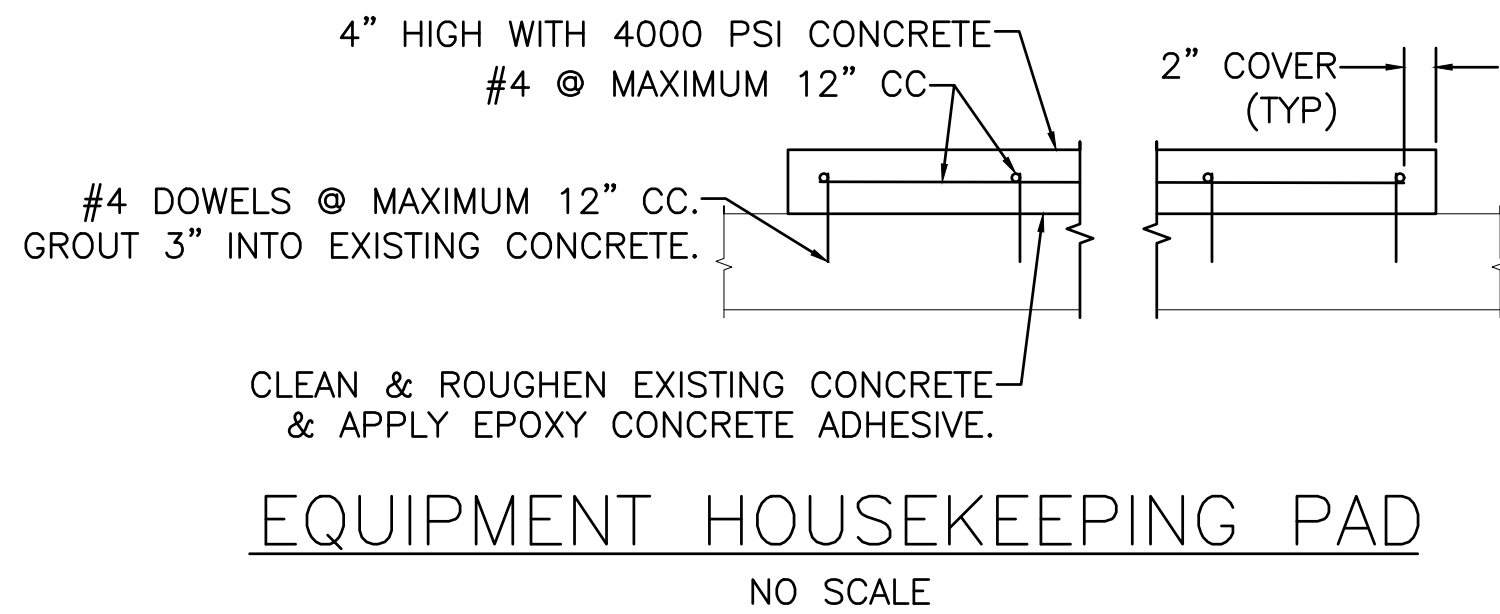
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9327005051-M-SERIES.DWG
DRAWN BY: C L B
CHECKED BY: C L B
DESIGNED BY: C L B

SHEET TITLE:
**MECHANICAL
SECTIONS &
DETAILS - POWER
PLANT**

SHEET NUMBER:

M-410

09 OF 28 SHEETS
SEPTEMBER 22, 2025

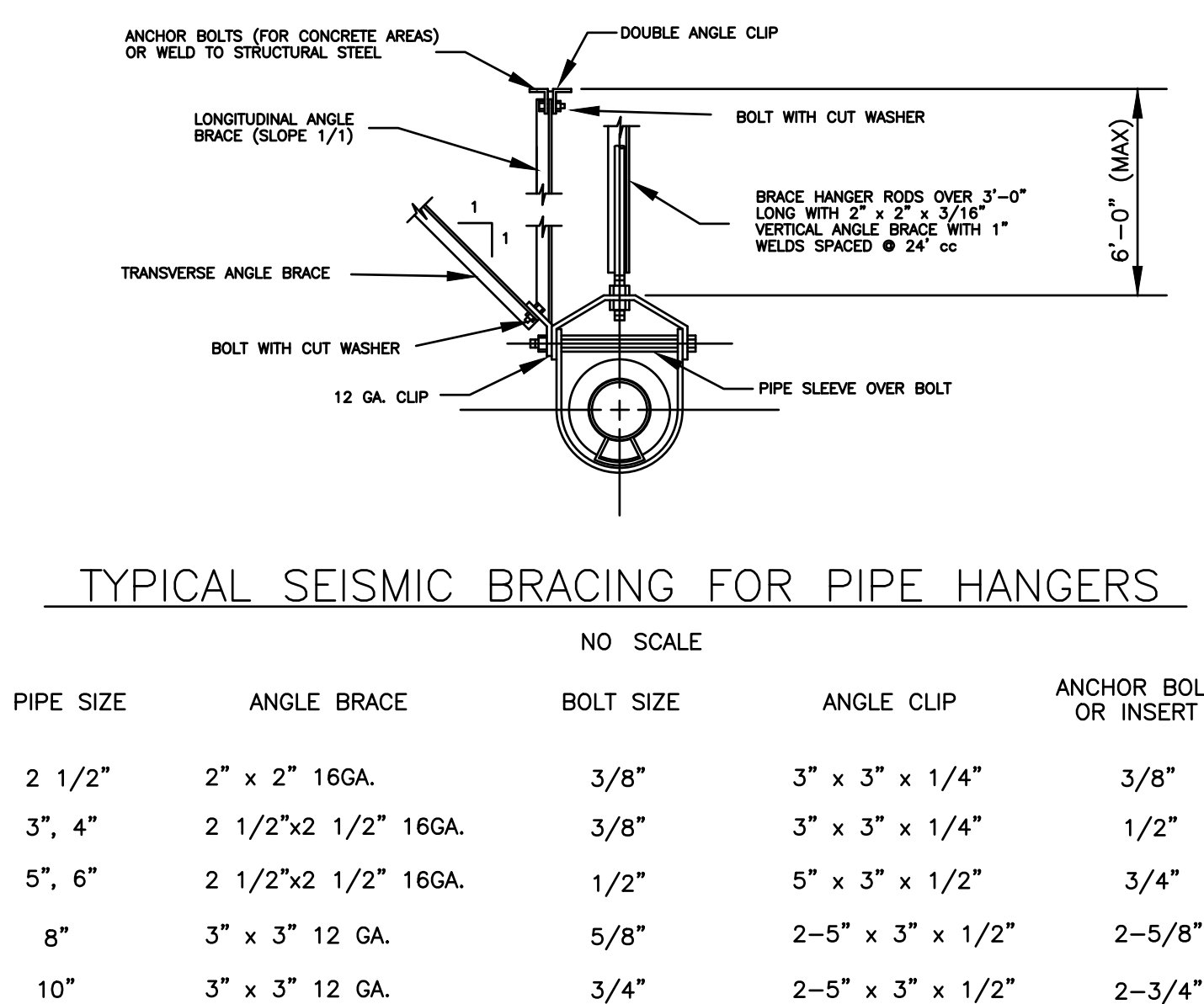
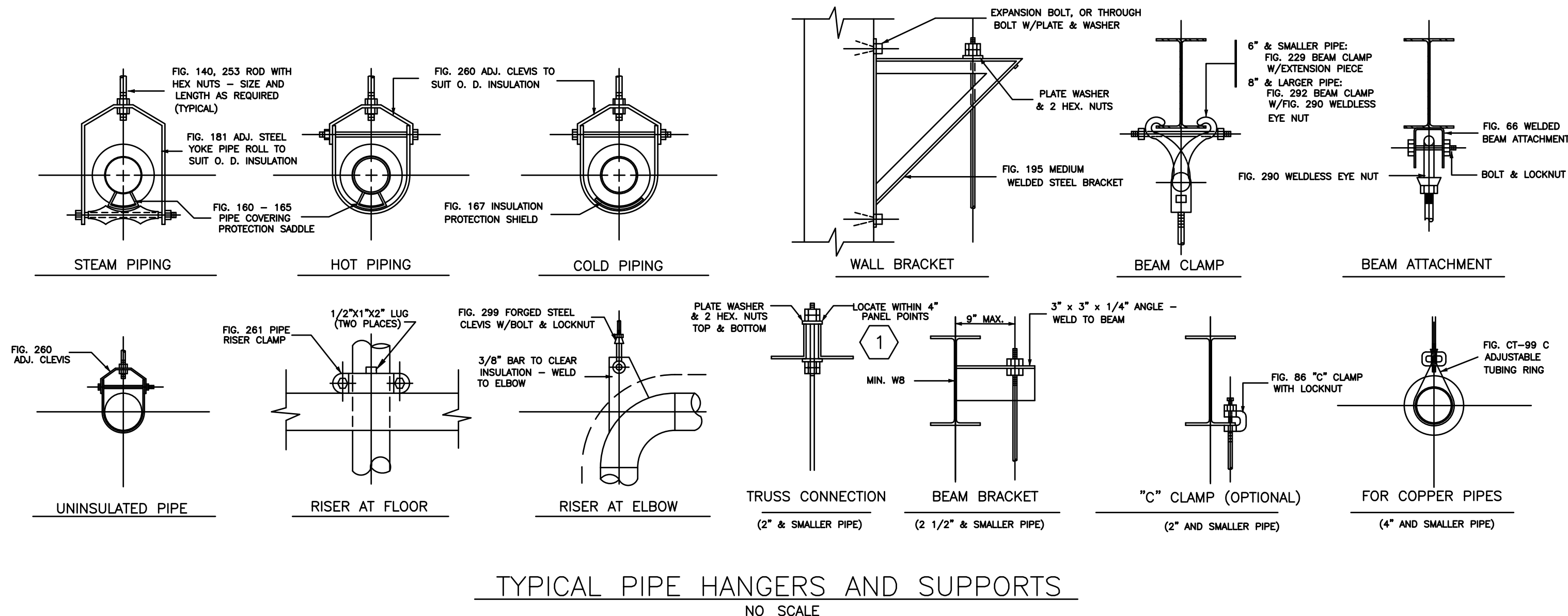


GENERAL NOTES:

- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.

KEY NOTES:

1. IF DISTANCE EXCEEDS 4", INSTALL 2"x2"x1/4" L BRACE BETWEEN LOAD POINT & PANEL POINT, BOTH SIDES OF CHORD.
2. SET TOP FLANGE OF ANGLES ON TOP CHORD OF JOISTS & ATTACH WITH 1/4" FILLET WELD.



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MOBERLY, MO 65270

PROJECT # C1920-01
SITE # 7005
ASSET # 9327005051

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DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 09/22/2025

CAD DWG FILE: C1920-01-7005-
9327005051-M-501.DWG
DRAWN BY: C L B
CHECKED BY: C L B
DESIGNED BY: C L B

SHEET TITLE:
**MECHANICAL -
DETAILS**

SHEET NUMBER:

M-501

10 OF 28 SHEETS
SEPTEMBER 22, 2025

VENTILATION FAN SCHEDULE											
				EXTERNAL	AIR	ELEVATION			INLET		
				STATIC	TEMPERATURE	ABOVE			SOUND		
			FLOW	PRESSURE	MIN / MAX	SEA	WHEEL		PRESSURE	MOTOR	
TAG	TYPE - DRIVE	SERVICE	CFM	IN. W.G.	DEG F	LEVEL	DIAMETER	FAN	dBA	HP / RPM / VOLT / CYCLES / PH	NOTES
VEF-02	PROPELLER - DIRECT	EXHAUST	20,000	1.0	40 / 120	860	42.25	1160	94	7.5 / 1160 / 460 / 60 / 3	1, 2, 3
VEF-03	PROPELLER - DIRECT	EXHAUST	20,000	1.0	40 / 120	860	42.25	1160	94	7.5 / 1160 / 460 / 60 / 3	1, 2, 3
NOTES:											
1. WITH DAMPER, DAMPER GUARD, WALL HOUSING, BIRD SCREEN, WEATHER HOOD, AND OTHER ACCESSORIES IN ACCORDANCE WITH SPECIFICATIONS.											
2. DESIGN BASIS: GREENHECK AER-42-VG											
3. MOUNTING: FLUSH INTERIOR WITH FAN AND HOUSING OUTSIDE BUILDING, DAMPER INSIDE, MOTOR ACCESS FROM BUILDING EXTERIOR.											

CONTROL DAMPER SCHEDULE															
		NOMINAL SIZE				BLADE CHARACTERISTICS				FACE					
					NUMBER				AIR	AREA	PRESSURE				
TAG	DUTY	WIDTH (INCHES)	HEIGHT (INCHES)	DEPTH (INCHES)	OF SECTIONS	ORIENTATION	DESIGN	TYPE	FLOW (CFM)	VELOCITY (FPM)	LOSS (IN. H2O)	MOTORIZED ACTUATOR	FAIL SAFE POSITION	NOTES	
VID-02	INTAKE	60	36	5	1	HORIZONTAL	AIRFOIL	OPPOSED	20,000	1,333	0.17	MODULATING	SPRING CLOSED	2, 3, 4, 5, 9	
VID-03	INTAKE	60	36	5	1	HORIZONTAL	AIRFOIL	OPPOSED	20,000	1,333	0.17	MODULATING	SPRING CLOSED	2, 3, 4, 5, 9	
VED-02	EXHAUST	44	44	5	1	HORIZONTAL	AIRFOIL	OPPOSED	20,000	1,488	0.21	MODULATING	SPRING CLOSED	1, 2, 3, 5, 9	
VED-03	EXHAUST	44	44	5	1	HORIZONTAL	AIRFOIL	OPPOSED	20,000	1,488	0.21	MODULATING	SPRING CLOSED	1, 2, 3, 5, 9	
CAID-01	INTAKE	48	24	5	1	HORIZONTAL	AIRFOIL	PARALLEL	6,534	817	0.07	OPEN / CLOSED	SPRING OPEN	6, 7, 8, 9	1
NOTES:															
1. FURNISHED WITH VENT FAN.															
2. DESIGN BASIS: GREENHECK CONTROL DAMPER WITH INSULATED AIRFOIL BLADES, VCD-34.															
3. PRESSURE DROP SHALL BE SHALL BE RATED BASED ON A PLENUM-MOUNTED DAMPER (AMCA STD. 500-D, FIG. 5.5)															
4. WITH DAMPER GUARD, BIRD SCREEN, INTAKE WEATHER HOOD, AND OTHER ACCESSORIES IN ACCORDANCE WITH SPECIFICATIONS.															
5. SIZE VENTILATION ACTUATOR TO SPRING RETURN DAMPER TO FAIL SAFE POSITION IN LESS THAN 20 SECONDS.															
6. EXISTING EMERGENCY GENERATOR COMBUSION AIR DAMPER TO REMAIN IN PLACE.															
7. INSTALL NEW TWO-POSITION, SPRING-RETURN TO OPEN POSITION, ELECTRIC ACTUATOR AND ASSOCIATED JACKSHAFTS, LINKAGES, ETC.															
8. SIZE ACTUATOR TO SPRING RETURN DAMPER TO FAIL SAFE POSITION IN LESS THAN 10 SECONDS.															
9. WITH OPEN AND CLOSED DAMPER BLADE POSITION SWITCHES.															

EMERGENCY GENERATOR REMOTE RADIATOR SCHEDULE																																														
				COOLANT SIDE							AMBIENT AIR SIDE							SOUND		APPROXIMATE SIZE																										
						TEMPERATURE							TEMPERATURE			ELEVATION		PRESSURE																												
				HEAT							PRESSURE				ABOVE		AT																													
FACE				LOAD		FLOW		INLET		OUTLET		LOSS		LOSS		FLOW		INLET		OUTLET		GAIN		SEA LEVEL		FAN		25 FEET		MOTOR		LENGTH		WIDTH		HEIGHT										
TAG	TYPE - DRIVE			SERVICE		ORIENTATION		COOLANT TYPE			BTU/MINUTE		GPM		F		F		F		PSI		ACFM		F		F		F		FEET		RPM		HP/RPM/VOLT/CYCLES/PH		(FEET)		(FEET)		(FEET)		NOTES			
HX-01	PROPELLER - BELT			ENGINE COOLING		VERTICAL		50% ETHYLENE GLYCOL			79,121		400		207		180		27		4		78,000		122		185		63		900		750		94		50 / 1775 / 460 / 60 / 3		7		8		10		1, 2	
NOTES:																																														
1. WITH ACCESSORIES IN ACCORDANCE WITH SPECIFICATIONS.																																														
2. DESIGN BASIS: YOUNG TOUCHSTONE DS MODEL VB																																														

GENERAL NOTES:

- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.

KEY NOTES:

1. FOR EXISTING DAMPERS TO REMAIN, CONTROLS CONTRACTOR SHALL FIELD INSPECT DAMPERS TO IDENTIFY ANY CONTROL ISSUES, DETERMINE REQUIRED OPERATING TORQUE, PROPERLY SIZE ACTUATORS & DESIGN LINKAGES, ATTACHMENTS, ETC.
- 1.1. DOCUMENT & ADDRESS ISSUES, IF ANY, WITH ENGINEER PRIOR TO PROCEEDING.
2. PRIOR TO PROCEEDING WITH REMOTE RADIATOR PROCUREMENT:
- 2.1. CONFIRM RADIATOR PERFORMANCE REQUIREMENTS ARE ADEQUATE FOR CATERPILLAR 3516, 1500 KW, STANDBY, DIESEL ENGINE EMERGENCY GENERATOR WITH CATERPILLAR.
- 2.2. REMOTE RADIATOR COOLANT LOOP PRESSURE LOSS WILL BE ABOUT 4 PSI (RADIATOR) + 3 PSI PIPING = 7 PSI TOTAL.
- 2.3. CONFIRM EXISTING EG ENGINE-MOUNTED COOLANT PUMP IS ADEQUATE FOR COOLANT SYSTEM EXTERNAL STATIC PRESSURE LOSS OF 7 PSI.
- 2.4. ADVISE ENGINEER IF OTHERWISE, PRIOR TO PROCEEDING.

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ISSUE DATE: 09/22/2025

CAD DWG FILE: C1920-01-7005-
9327005051-M-600 SERIES.DWG
DRAWN BY: JDF/KET
CHECKED BY: CLB
DESIGNED BY: CLB

SHEET TITLE:
MECHANICAL -
SCHEDULES

SHEET NUMBER:

M-601

11 OF 28 SHEETS
SEPTEMBER 22, 2025

FLOW ELEMENTS / TRANSMITTERS														
			INLET	INLET	DESIGN			DESGIN	MAXIMUM	MINIMUM				
			PRESSURE	TEMPERATURE	INLET	DESIGN	DESIGN	PRESSURE	METER	METER		FLANGES		
TAG	DESCRTIPTION	SERVICE	RANGE	RANGE	PRESSURE	TEMPERATURE	FLOW	LOSS	FLOW	FLOW	SIZE	ANSI		COMMENTS
			(PSIG)	(F)	(PSIG)	(F)	(GPM)	(PSI)	(GPM)	(GPM)	(INCHES)	CLASS	NOTES	
FE-101 / FIT-101	ELECTROMAGNETIC	GLYCS	10 TO 20	0 TO 220	10	180	400	0.5	2500	8	6	150	1, 2, 3	EG REMOTE RADIATOR COOLING WATER
NOTES:														
1. SERVICE FLUID IS ABOUT A 50% ETHYLENE GLYCOL AND 50% WATER SOLUTION.														
2. METER IS OVERSIZED TO MINIMIZE COOLING LOOP PRESSURE DROP.														
3. MINIMUM FLOW = MAXIMUM RATED FLOW / 300:1 TURNDOWN WITH +/-0.25% ACCURACY.														

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



CHRISTOPHER L. BARTH
Registered Professional Engineer
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OFFICE OF ADMINISTRATION
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DEPARTMENT OF
CORRECTIONS

UPGRADE GENERATOR
CONTROLS & TRANSFER
SWITCH, POWER PLANT

MOBERLY CORRECTIONAL
CENTER
5201 SOUTH MORLEY ST.
MOBERLY, MO 65270

PROJECT # C1920-01
SITE # 7005
ASSET # 9327005051

REVISION: _____
DATE: _____
REVISION: _____
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REVISION: _____
DATE: _____

ISSUE DATE: 09/22/2025

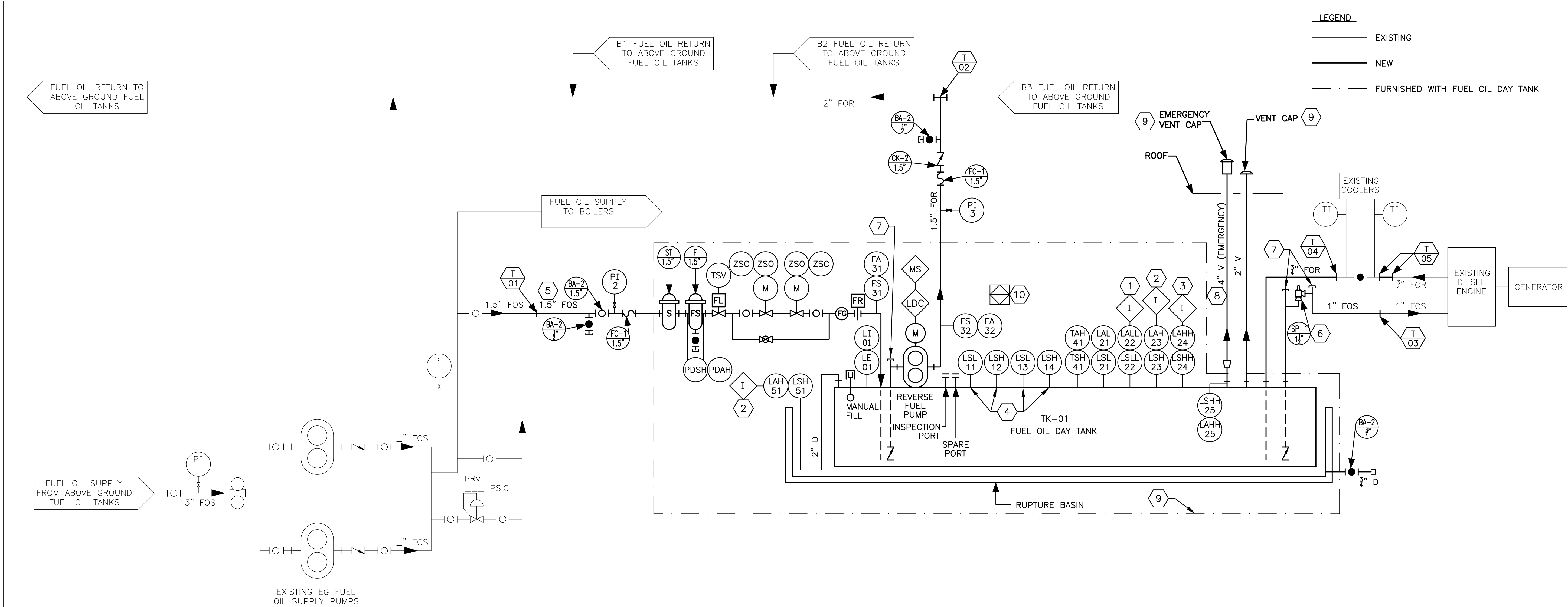
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DRAWN BY: J D F / K E T
CHECKED BY: C L B
DESIGNED BY: C L B

SHEET TITLE:
**MECHANICAL -
SCHEDULES**

SHEET NUMBER:

M-602

12 OF 28 SHEETS
SEPTEMBER 22, 2025



GENERAL NOTES:

- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- B. OWNER WILL FURNISH FUEL OIL FOR EMERGENCY GENERATOR START-UP AND TESTING FROM EXISTING FUEL OIL STORAGE TANKS.
- C. CONTRACTOR SHALL TEST AND CONFIRM THAT THE QUALITY OF THE EXISTING FUEL OIL IS ACCEPTABLE FOR THE EMERGENCY GENERATOR PRIOR TO PROCEEDING WITH STARTUP.
- C.A. ADVISE OWNER'S REPRESENTATIVE IN WRITING OF ANY FUEL OIL QUALITY CONCERNS PRIOR TO PROCEEDING.

KEY NOTES:

- 1. CRITICAL LOW FUEL FOR ENGINE SHUTOFF.
- 2. CRITICAL HIGH FUEL LEVEL FOR SUPPLY PUMP AND MOV SHUTDOWN.
- 3. CRITICAL HIGH FUEL LEVEL FOR SUPPLY PUMP AND MOV SHUTDOWN AND REVERSE PUMP START.
- 4. LEVEL SWITCHES FOR CONTROL OF FUEL SUPPLY MOV VALVES & FUTURE DUPLEX FUEL SUPPLY PUMP LEAD/LAG SYSTEM.
- 5. INSTALL PIPE WITH CONTINUOUS SLOPE DOWNWARDS TO TANK WITHOUT TRAPS.
- 6. ANTISIPHON VALVE.
- 7. PRIME PIPE WITH FUEL OIL PRIOR TO START-UP.
- 8. MINIMUM. EMERGENCY VENT LINE SIZE SHALL BE NO LESS THAN FUEL OIL TANK EMERGENCY VENT CONNECTION SIZE.
- 9. FURNISHED WITH FUEL OIL DAY TANK.
- 10. FACTORY-PACKAGED FUEL OIL DAY TANK CONTROL PANEL.

STATE OF MISSOURI
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CAD DWG FILE: C1920-01-7005-
9327005051-M-610.DWG
DRAWN BY: CLB
CHECKED BY: CLB
DESIGNED BY: CLB

SHEET TITLE:
MECHANICAL -
FLOW DIAGRAM -
FUEL OIL

SHEET NUMBER:

M-610

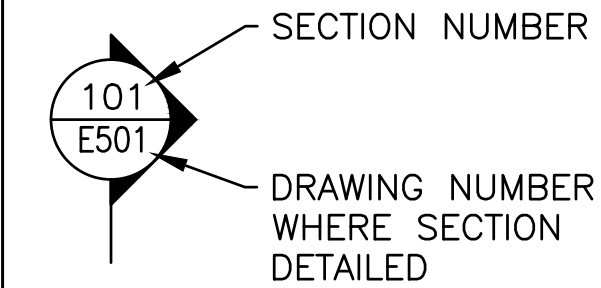
13 OF 28 SHEETS
SEPTEMBER 22, 2025

ELECTRICAL SYMBOLS

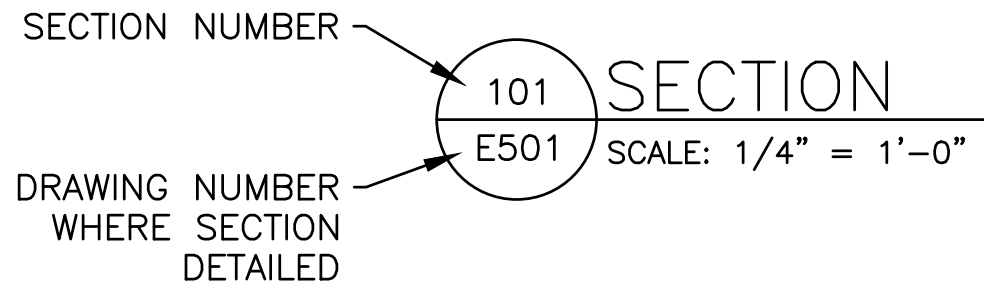
	KEYNOTE; SPECIFICALLY REFERENCED TO AN ITEM ON THE FIELD OF THE DRAWING. DIGITS IDENTIFY NOTE NUMBER.		CHASSIS GROUNDING CONNECTION
	CONDUIT EXPOSED		WIRING CROSSING, CONNECTION
	CONDUIT OR CABLE TURNED DOWN		WIRING CROSSING, NO CONNECTION
	CONDUIT OR CABLE TURNED UP		EQUIPMENT CONNECTION
	CONDUIT BELOW GRADE OR IN FLOOR SLAB		SELECTOR OR TOGGLE SWITCH
	FLEXIBLE CONDUIT OR CABLE		NON-FUSIBLE DISCONNECT SWITCH
	HOME RUN TO PANEL – SHORT STROKES INDICATE PHASE OR SWITCHED WIRES, LONG STROKE DENOTES NEUTRAL, LONG STROKE WITH DOT DENOTES GROUND. #12 AWG WIRES IN 3/4" GRC UNLESS NOTED OTHERWISE.		MEDIUM VOLTAGE FUSIBLE LOAD-INTERUPTER SWITCH
	DISCONNECT SWITCH F = FUSIBLE N = NON-FUSIBLE		FUSIBLE DISCONNECT SWITCH
	JUNCTION BOX		FUSE
	EXISTING CONTROL PANEL		MEDIUM VOLTAGE (MV) FUSE
	NEW CONTROL PANEL		CIRCUIT BREAKER
	EXISTING PANELBOARD		DRAW-OUT CIRCUIT BREAKER
	NEW PANELBOARD		TRANSFORMER
	SINGLE POLE SWITCH		CURRENT TRANSFORMER (SHOWN WITH POLARITY MARKS, RATIO & QUANTITY)
	120V DUPLEX RECEPTACLE		POTENTIAL TRANSFORMER (SHOWN WITH QUANTITY AND RATIO)
	120V GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE		CONTROL POWER TRANSFORMER
	120V DUPLEX RECEPTACLE W/ WEATHERPROOF COVER		HAND-OFF-AUTOMATIC SELECTOR SWITCH
	120V DOUBLE DUPLEX RECEPTACLE		PILOT LIGHT, PUSH-TO-TEST X = LENS COLOR
	SPECIAL RECEPTACLE (AS NOTED)		STOP PUSHBUTTON
	REMOTE CONTROL STATION		START PUSHBUTTON
	CONTACTOR		NORMALLY CLOSED CONTACT
	CONTROL RELAY		NORMALLY OPEN CONTACT
	EQUIPMENT GROUND FAULT		THERMAL OVERLOAD
	MECHANICAL (KEY) INTERLOCK		MOTOR OVERLOAD CONTACTS
	MOTOR STARTING CONTACTOR		MOTOR, X = HORSEPOWER
	THERMOSTAT		EXISTING COMBINATION MAGNETIC MOTOR STARTER
	TIME DELAY RELAY		NEW COMBINATION MAGNETIC MOTOR STARTER
	TIMING RELAY		COMBINATION MOTOR STARTER
	SURGE PROTECTIVE DEVICE		GENERATOR
	SURGE ARRESTER		LEVEL SWITCH
	FAULTED CIRCUIT INDICATOR		
	GROUNDING ROD		
	EARTH GROUNDING CONNECTION		

GENERAL ELECTRICAL NOTES:

- A. THE CONTRACTOR SHALL PROVIDE ALL HOLES IN FLOORS AND WALLS AS REQUIRED FOR CONDUIT ROUTING. SEAL PENETRATIONS IN ACCORDANCE WITH THE SPECIFICATIONS.
- B. COORDINATE EXACT LOCATIONS OF CONDUIT RUNS WITH EXISTING CONDITIONS AND WITH THE OWNER'S REPRESENTATIVE. INDICATE FINAL ROUTING OF ALL CONDUITS ON "AS BUILT" DRAWINGS.
- C. ALL INFORMATION CONTAINED ON THIS DRAWING APPLIES TO ED, ES, AND E SERIES DRAWINGS.
- D. THERE MAY BE SYMBOLS AND/OR ABBREVIATIONS SHOWN ON THIS SHEET THAT ARE NOT APPLICABLE TO THIS PROJECT.



SECTION MARK

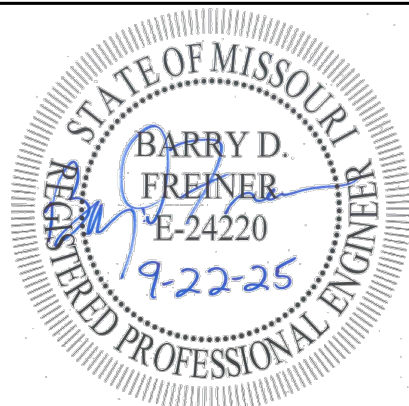


SECTION IDENTIFICATION SYMBOL

ELECTRICAL ABBREVIATIONS

A	AMPERE(S)	GA	GAUGE	PF	POWER FACTOR
ABAND	ABANDONED	GAL	GALLON	PL	PILOT LIGHT
AC	ALTERNATING CURRENT	GALV	GALVANIZED	PNL	PANEL
AF	AMP FUSE OR AMP FRAME	GCP	GENERATOR CONTROL PANEL	PNLBD	PANELBOARD
AFF	ABOVE FINISHED FLOOR	GDS	GROUND DETECTION SYSTEM	PR	PROTECTIVE RELAYS OR PAIR
AFG	ABOVE FINISHED GRADE	GF	GROUND FAULT	PT	POTENTIAL TRANSFORMER
AIC	AMPERE INTERRUPTING CAPACITY (RMS SYMMETRICAL)	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	PTT	PUSH-TO-TEST
AM	AMMETER	GFR	GROUND FAULT RELAY	PVC	SCHEDULE 40 POLYVINYLCHLORIDE CONDUIT
ANNUN	ANNUNCIATOR	GRAP	GENERATOR REMOTE ANNUCIATOR PANEL	PWR	POWER
APPROX	APPROXIMATELY	GRC	GALVANIZED RIGID STEEL CONDUIT	RAC	RIGID ALUMINUM CONDUIT
AS	AMMETER SWITCH	GRD	GROUND	RECPT	RECEPTACLE
ASSOC	ASSOCIATED	GVCP	GENERATOR VENTILATION CONTROL PANEL	REQD	REQUIRED
AT	AMP TRIP	H	HIGH	REQMTS	REQUIREMENTS
ATS	AUTOMATIC TRANSFER SWITCH	H-O-A	HAND-OFF-AUTOMATIC	REV	REVERSE
AUTO	AUTOMATIC	HP	HORSEPOWER	RM	ROOM
AVAIL	AVAILABLE	HZ	FREQUENCY IN CYCLES PER SECOND	RMC	RIGID METAL CONDUIT
AWG	AMERICAN WIRE GAUGE	I/O	INPUT/OUTPUT	RMP	REMOTE MONITORING PANEL
BFG	BELOW FINISHED GRADE	INCL	INCLUDING	RMS	ROOT MEAN SQUARE
BKR	BREAKER	INFO	INFORMATION	SA	SURGE ARRESTOR
BLDG	BUILDING	INS	INSULATED	SC	SURGE CAPACITOR
BSMT	BASEMENT	INSTR	INSTRUMENT OR INSTRUMENTATION	SCCR	SHORT CIRCUIT CURRENT RATING
C	CONDUIT OR CONDUCTOR	J, JB, J-BOX	JUNCTION BOX	SCH	SCHEDULE
CB	CIRCUIT BREAKER	KA	KILOAMPERE(S)	SE	SERVICE ENTRANCE
CKT	CIRCUIT	KAIC	KILOAMPERE INTERRUPTING CAPACITY (RMS SYMMETRICAL)	SHLD	SHIELD OR SHIELDED
CNTRL	CONTROL	KCM	THOUSAND CIRCULAR MIL(S)	SPD	SPEED OR SURGE PROTECTIVE DEVICE
COMB	COMBINATION	KV	KILOVOLT(S)	SS	SELECTOR SWITCH OR STAINLESS STEEL
CONC	CONCRETE	KVA	KILOVOLT-AMPERE(S)	ST	SHUNT TRIP
CP	CONTROL PANEL	KW	KILOWATT(S)	STA	STATION
CPT	CONTROL POWER TRANSFORMER	KWh	KILOWATT-HOUR(S)	STL	STEEL
CR	CONTROL RELAY	LA	LIGHTING ARRESTER	STRD	STRANDED
CS	CONDUIT SUPPORT OR CONTROL SWITCH	LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT	SW	SWITCH
CT	CURRENT TRANSFORMER	LSH	LEVEL SWITCH (HIGH)	SWBD	SWITCHBOARD
CTR	CENTER	LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT	SWGR	SWITCHGEAR
CU	COPPER	LSL	LEVEL SWITCH (LOW)	SYM	SYMMETRICAL
D OR DP	DEEP	LTG	LIGHTING	T	THERMOSTAT
DC	DIRECT CURRENT	LV	LOW-VOLTAGE	TB	TERMINAL BLOCK
DIA	DIAMETER	M	MOTOR STARTING CONTACTOR OR METER	TC	TOP OF CONCRETE
DISC	DISCONNECT	mA	MILLIAMPERE(S)	TDR	TIME DELAY RELAY
DN	DOWN	MAX	MAXIMUM	TEFC	TOTALLY ENCLOSED FAN COOLED
DP	DISTRIBUTION PANEL	MCB	MAIN CIRCUIT BREAKER	TEMP	TEMPERATURE OR TEMPORARY
DS	DISCONNECT SWITCH	MCC	MOTOR CONTROL CENTER	TERM	TERMINATE OR TERMINATION
DWG	DRAWING	MCCB	MOLDED CASE CIRCUIT BREAKER	TERM	TERMINATE OR TERMINATION
EG	EMERGENCY GENERATOR	MECH	MECHANICAL	TMCB	THERMAL MAGNETIC CIRCUIT BREAKER
ELEV	ELEVATION	MIN	MINIMUM	TYP	TYPICAL
ELEC	ELECTRIC OR ELECTRICAL	MLO	MAIN LUG ONLY	UE	UNDERGROUND ELECTRIC
EM	EMERGENCY	MS	MOTOR STARTING	UPS	UNINTERRUPTIBLE POWER SUPPLY
EPM	ELECTRONIC POWER METER	MTD	MOUNTED	V	VOLT(S)
EPO	EMERGENCY POWER OFF	MV	MEDIUM-VOLTAGE	VA	VOLT-AMPERE(S)
EQUIP	EQUIPMENT	MVA	MEGAVOLT-AMPERES	VAR	VARMETER
EXH	EXHAUST	N OR NEUT	NEUTRAL	VM	VOLTMETER
EXIST	EXISTING	N.C.	NORMALLY CLOSED	VS	VOLTMETER SWITCH
F	FUSE OR FUSIBLE	N.O.	NORMALLY OPENED	W	WATT(S), WIRE(S) OR WIDE
FCI	FAULTED CIRCUIT INDICATOR	N/A	NOT APPLICABLE	W/	WITH
FL	FLOOR	NEC	NATIONAL ELECTRICAL CODE	W/G	WITH GROUND
FM	FREQUENCY METER	NF	NON-FUSED	W/O	WITHOUT
FOR	FORWARD	NGR	NEUTRAL GROUNDING RESISTOR	WHM	WATTHOUR METER
FS	FUSIBLE SWITCH	NP	NAMEPLATE	WHMD	WATTHOUR METER DEMAND
FVNR	FULL VOLTAGE NON REVERSING	NTS	NOT TO SCALE	WM	WATTMETER
		OE	OVERHEAD ELECTRIC	WP	WEATHERPROOF
		OL	OVERLOAD ELEMENT	WW	WIREWAY
		P	POLE(S)	XFMR	TRANSFORMER
		P/O	PART OF	Z	IMPEDANCE
		PB	PUSHBUTTON SWITCH	&	AND
				Δ	DELTA
				#	NUMBER
				%	PERCENT
				∅	PHASE OR DIAMETER

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



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OFFICE OF ADMINISTRATION
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UPGRADE GENERATOR
CONTROLS & TRANSFER
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MOBERLY CORRECTIONAL
CENTER
5201 SOUTH MORLEY ST.
MOBERLY, MO 65270

PROJECT # C1920-01

SITE # 7005

ASSET # 9327005051

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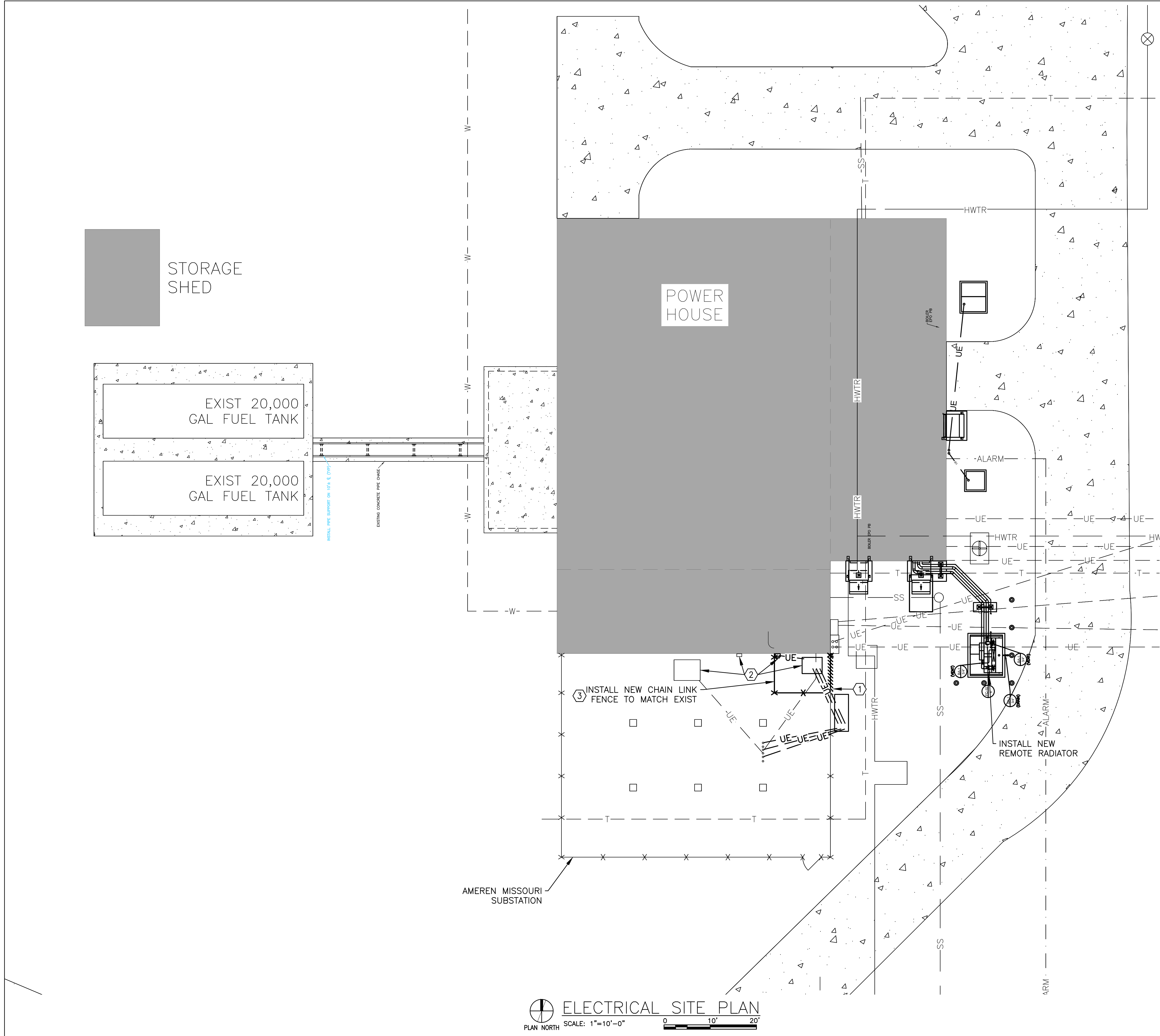
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CHECKED BY: B D F
DESIGNED BY: B D F

SHEET TITLE:
ELECTRICAL
SYMBOLS,
ABBREVIATIONS &
GENERAL NOTES

SHEET NUMBER:

E-001

15 OF 28 SHEETS
SEPTEMBER 22, 2025



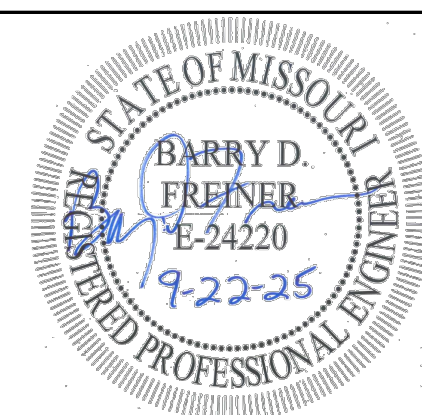
GENERAL NOTE:

A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.

KEY NOTES:

1. REMOVE EXIST CHAIN LINK FENCE.
2. RELOCATE EXIST METERING SWGR & AMEREN METER. SEE DWGS ED-401 & E-401.
3. SEE DWGS E-401 & E-501.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



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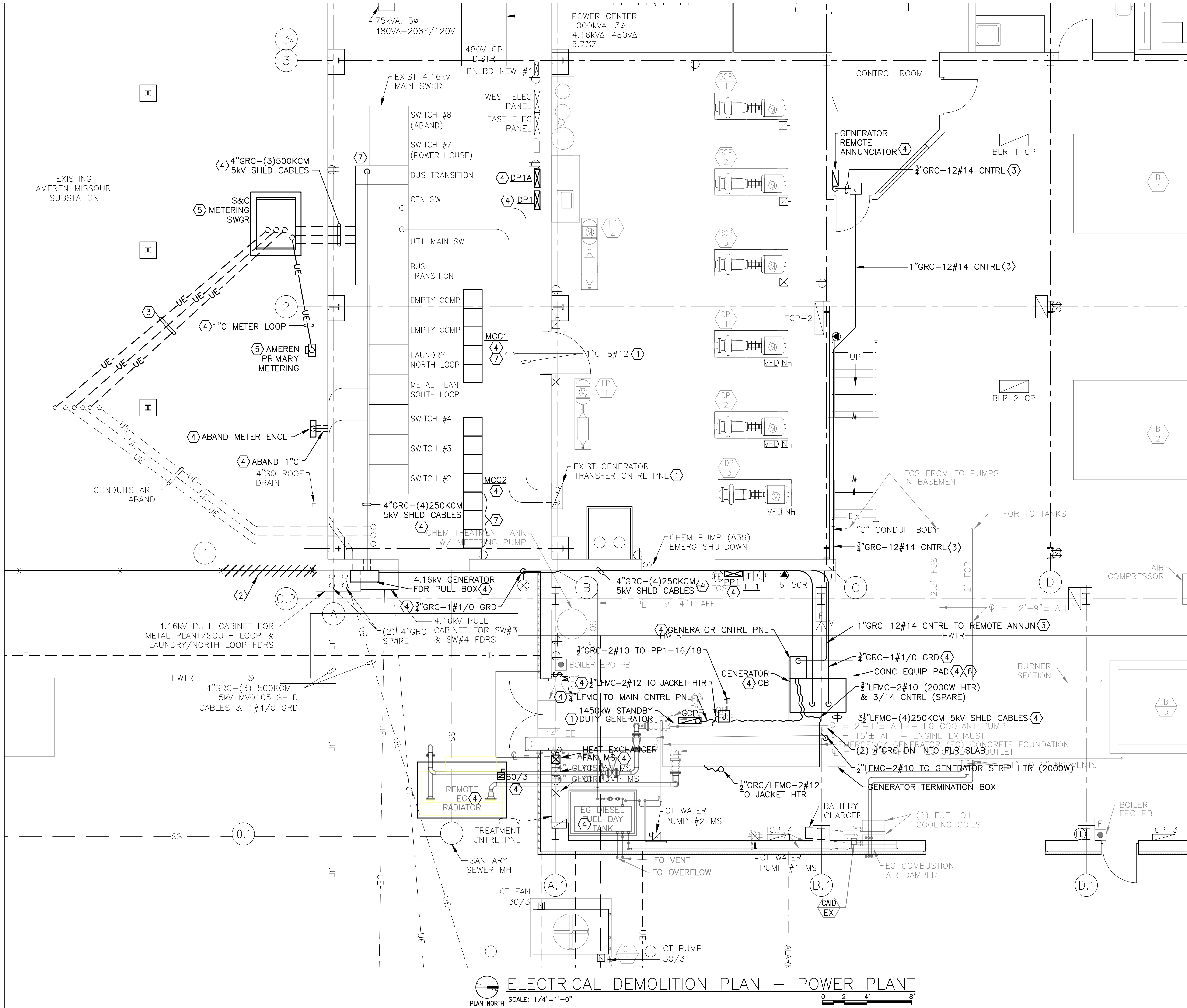
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CHECKED BY: B D F
DESIGNED BY: B D F

SHEET TITLE:
ELECTRICAL SITE
PLAN

SHEET NUMBER:

ES-101

16 OF 28 SHEETS
SEPTEMBER 22, 2025



GENERAL NOTE:

A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.

KEY NOTES:

- EXIST ITEM(S) TO REMAIN.
- REMOVE EXIST CHAIN LINK FENCE. SEE DWG ES-101.
- REMOVE CONDUCTORS/CABLES FROM EXIST CONDUIT(S). CONDUIT(S) TO REMAIN.
- EXIST ITEM(S) TO BE REMOVED.
- EXIST ITEM(S) TO BE RELOCATED. SEE DWG E-401 FOR NEW LOCATION.
- REPAIR FLOOR TO MATCH EXIST FLOOR IN AREAS WHERE CONC EQUIP PAD FOR NEW ATS DOES NOT COVER AREA UNDER EXIST PAD. SEE DWG E-401.
- REMOVE 2\"H CONC CURB UNDER ALL REMOVED MCC SECTIONS THAT ARE NOT SHOWN TO BE REPLACED ON DWG E-401.

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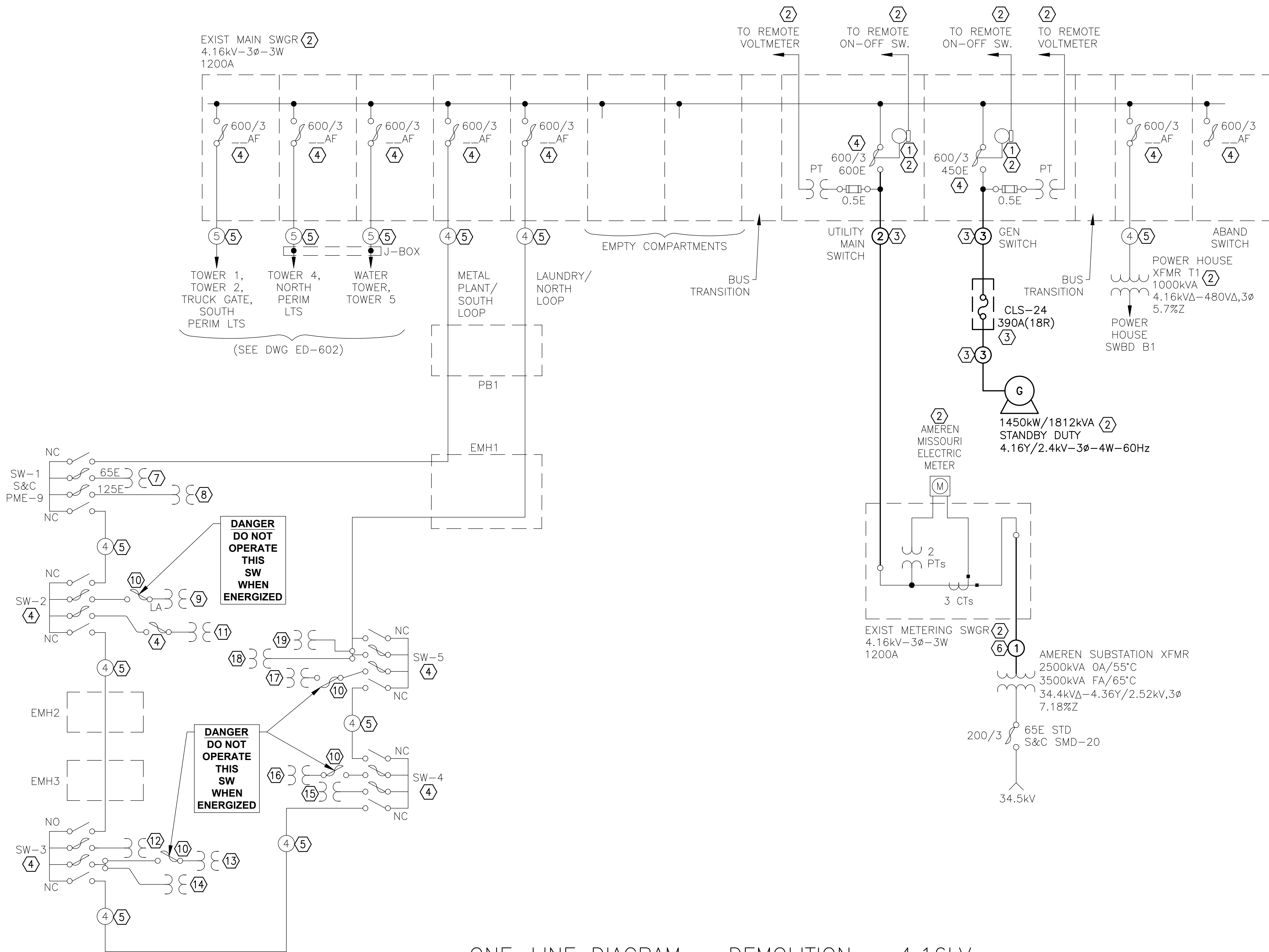
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CHECKED BY: B D F
DESIGNED BY: B D F

SHEET TITLE:
ELECTRICAL
DEMOLITION PLAN
- POWER PLANT

SHEET NUMBER:

ED-401

17 OF 28 SHEETS
SEPTEMBER 22, 2025



ONE-LINE DIAGRAM – DEMOLITION – 4.16kV

MEDIUM-VOLTAGE FEEDER SCHEDULE - EXISTING									
FEEDER NUMBER	CIRCUIT VOLTAGE	PHASE CONDUCTORS			NEUTRAL CONDUCTORS		GROUNDING CONDUCTORS		RACEWAY
		PHASE	QTY PER PHASE	SIZE	QTY	SIZE	QTY	SIZE	
5	1	4.16kV	3	3	500KCM	-	-	-	(3) 5"
5	2	4.16kV	3	3	500KCM	-	-	-	(3) 4"
	3	4.16kV	3	1	250KCM	1	250KCM	-	4"
5	4	4.16kV	3	1	500KCM	-	-	1	4"
5	5	4.16kV	3	1	1/0	-	-	1	2"

GENERAL NOTE:

A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.

KEY NOTES:

- MOTOR OPERATOR.
- EXIST ITEM(S) TO REMAIN.
- EXIST ITEM(S) TO BE REMOVED.
- UNVERIFIABLE WHILE SWGR IS ENERGIZED. FIELD VERIFY AND DOCUMENT EXIST FUSE SIZE & TYPE DURING SCHEDULED POWER OUTAGE.
- UNVERIFIABLE WHILE SWGR IS ENERGIZED. FIELD VERIFY AND DOCUMENT EXIST CONDUIT SIZE & TYPE AND CABLE TYPE, QTY & SIZES, INCL GRD DURING SCHEDULED POWER OUTAGE.
- REMOVE CABLES FROM EXIST CONDUITS. CONDUITS TO REMAIN.
- EXIST 300kVA, 4.16kVΔ-208Y/120V, 3-PHASE DRY TYPE XFMR, 6.6%Z AT METAL PLANT.
- EXIST 500kVA, 4.16kVΔ-480Y/277V, 3-PHASE DRY TYPE XFMR, 5.6%Z AT METAL PLANT.
- EXIST 225kVA, 4.16kVΔ-208Y/120V, 3-PHASE DRY TYPE XFMR, 4.7%Z AT HU 1.
- EXIST G&W 4.16kV, 3-PHASE OIL INS SWITCH.
- EXIST 500kVA, 4.16kVΔ-208Y/120V, 3-PHASE DRY TYPE XFMR, 5.94%Z AT FOOD SERVICE.
- EXIST 300kVA, 4.16kVΔ-208Y/120V, 3-PHASE DRY TYPE XFMR, 5.6%Z AT HU 3.
- EXIST 500kVA, 4.16kVΔ-208Y/120V, 3-PHASE DRY TYPE XFMR, 5.8%Z AT ADMIN BLDG.
- EXIST 300kVA, 4.16kVΔ-480Y/277V, 3-PHASE DRY TYPE XFMR, 4.2%Z AT ADMIN BLDG FOR CHILLERS.
- EXIST 300kVA, 4.16kVΔ-208Y/120V, 3-PHASE DRY TYPE XFMR, 4.99%Z AT SCHOOL.
- EXIST 225kVA, 4.16kVΔ-208Y/120V, 3-PHASE DRY TYPE XFMR, 4.7%Z AT HU 2.
- EXIST 225kVA, 4.16kVΔ-208Y/120V, 3-PHASE DRY TYPE XFMR, 4.7%Z AT SIGN SHOP.
- EXIST 225kVA, 4.16kVΔ-208Y/120V, 3-PHASE DRY TYPE XFMR AT PRINT SHOP/LAUNDRY (NO NAMEPLATE ON XFMR).
- EXIST 300kVA, 4.16kVΔ-480Y/277V, 3-PHASE DRY TYPE XFMR, 3.87%Z AT MVE WAREHOUSE.

STATE OF MISSOURI
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CONTROLS & TRANSFER
SWITCH, POWER PLANT

MOBERLY CORRECTIONAL
CENTER
5201 SOUTH MORLEY ST.
MOBERLY, MO 65270

PROJECT # C1920-01
SITE # 7005
ASSET # 9327005051

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 09/22/2025

CAD DWG FILE: C1920-01-7005-
9327005051-ED-601.DWG
DRAWN BY: KET/MNS
CHECKED BY: BDF
DESIGNED BY: BDF

SHEET TITLE:
ONE-LINE
DIAGRAM -
DEMOLITION -
4.16kV

SHEET NUMBER:

ED-601

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
BARRY D. FREINER
E-24220
9-22-25

**ROGERS-SCHMIDT
ENGINEERING CO., P.C.
CONSULTING ENGINEERS**
1736 WEST PARK CENTER DR.
SUITE 204
ST. LOUIS, MO 63026
PHONE: 636-600-1551
EMAIL: bfreiner@rogers-schmidt.com
**MISSOURI STATE CERTIFICATE
OF AUTHORITY #000408**

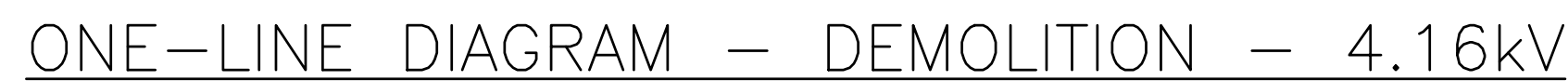
MOBERLY CORRECTIONAL
CENTER
5201 SOUTH MORLEY ST.
MOBERLY, MO 65270

ISSUE DATE: 09/22/2025

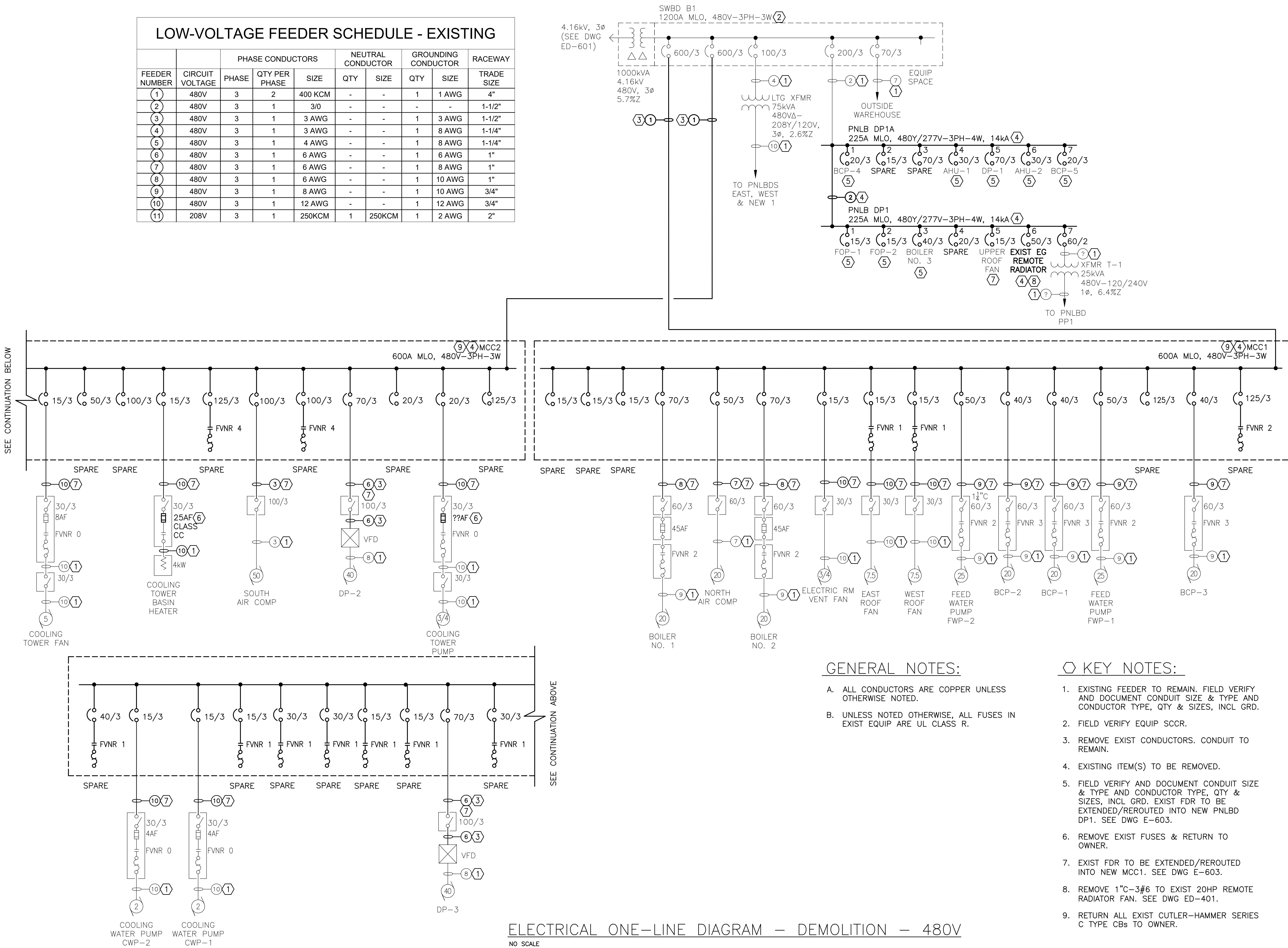
SHEET TITLE:
ONE-LINE
DIAGRAM -
DEMOLITION -
4.16kV

ED-602

A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.



LOW-VOLTAGE FEEDER SCHEDULE - EXISTING									
FEEDER NUMBER	CIRCUIT VOLTAGE	PHASE CONDUCTORS			NEUTRAL CONDUCTOR		GROUNDING CONDUCTOR		RACEWAY
		PHASE	QTY PER PHASE	SIZE	QTY	SIZE	QTY	SIZE	
(1)	480V	3	2	400 KCM	-	-	1	1 AWG	4"
(2)	480V	3	1	3/0	-	-	-	-	1-1/2"
(3)	480V	3	1	3 AWG	-	-	1	3 AWG	1-1/2"
(4)	480V	3	1	3 AWG	-	-	1	8 AWG	1-1/4"
(5)	480V	3	1	4 AWG	-	-	1	8 AWG	1-1/4"
(6)	480V	3	1	6 AWG	-	-	1	6 AWG	1"
(7)	480V	3	1	6 AWG	-	-	1	8 AWG	1"
(8)	480V	3	1	6 AWG	-	-	1	10 AWG	1"
(9)	480V	3	1	8 AWG	-	-	1	10 AWG	3/4"
(10)	480V	3	1	12 AWG	-	-	1	12 AWG	3/4"
(11)	208V	3	1	250KCM	1	250KCM	1	2 AWG	2"



GENERAL NOTES:

- ALL CONDUCTORS ARE COPPER UNLESS OTHERWISE NOTED.
- UNLESS NOTED OTHERWISE, ALL FUSES IN EXIST EQUIP ARE UL CLASS R.

KEY NOTES:

- EXISTING FEEDER TO REMAIN. FIELD VERIFY AND DOCUMENT CONDUIT SIZE & TYPE AND CONDUCTOR TYPE, QTY & SIZES, INCL GRD.
- FIELD VERIFY EQUIP SCCR.
- REMOVE EXIST CONDUCTORS. CONDUIT TO REMAIN.
- EXISTING ITEM(S) TO BE REMOVED.
- FIELD VERIFY AND DOCUMENT CONDUIT SIZE & TYPE AND CONDUCTOR TYPE, QTY & SIZES, INCL GRD. EXIST FDR TO BE EXTENDED/REROUTED INTO NEW PNLBD DP1. SEE DWG E-603.
- REMOVE EXIST FUSES & RETURN TO OWNER.
- EXIST FDR TO BE EXTENDED/REROUTED INTO NEW MCC1. SEE DWG E-603.
- REMOVE 1"C-3#6 TO EXIST 20HP REMOTE RADIATOR FAN. SEE DWG ED-401.
- RETURN ALL EXIST CUTLER-HAMMER SERIES C TYPE CBs TO OWNER.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2026

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DEPARTMENT OF
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PROJECT # C1920-01
SITE # 7005
ASSET # 9327005051

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CHECKED BY: BDF
DESIGNED BY: BDF

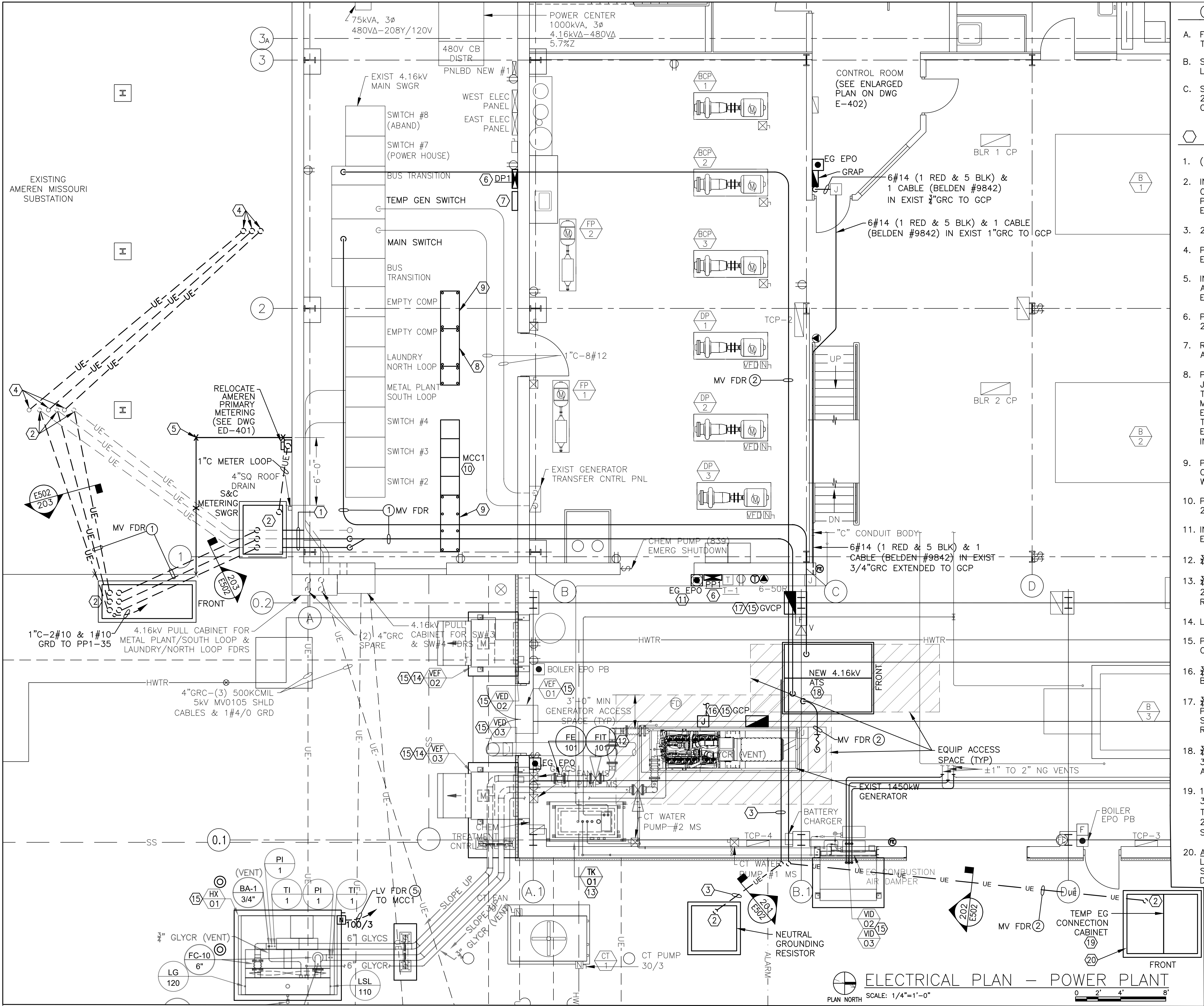
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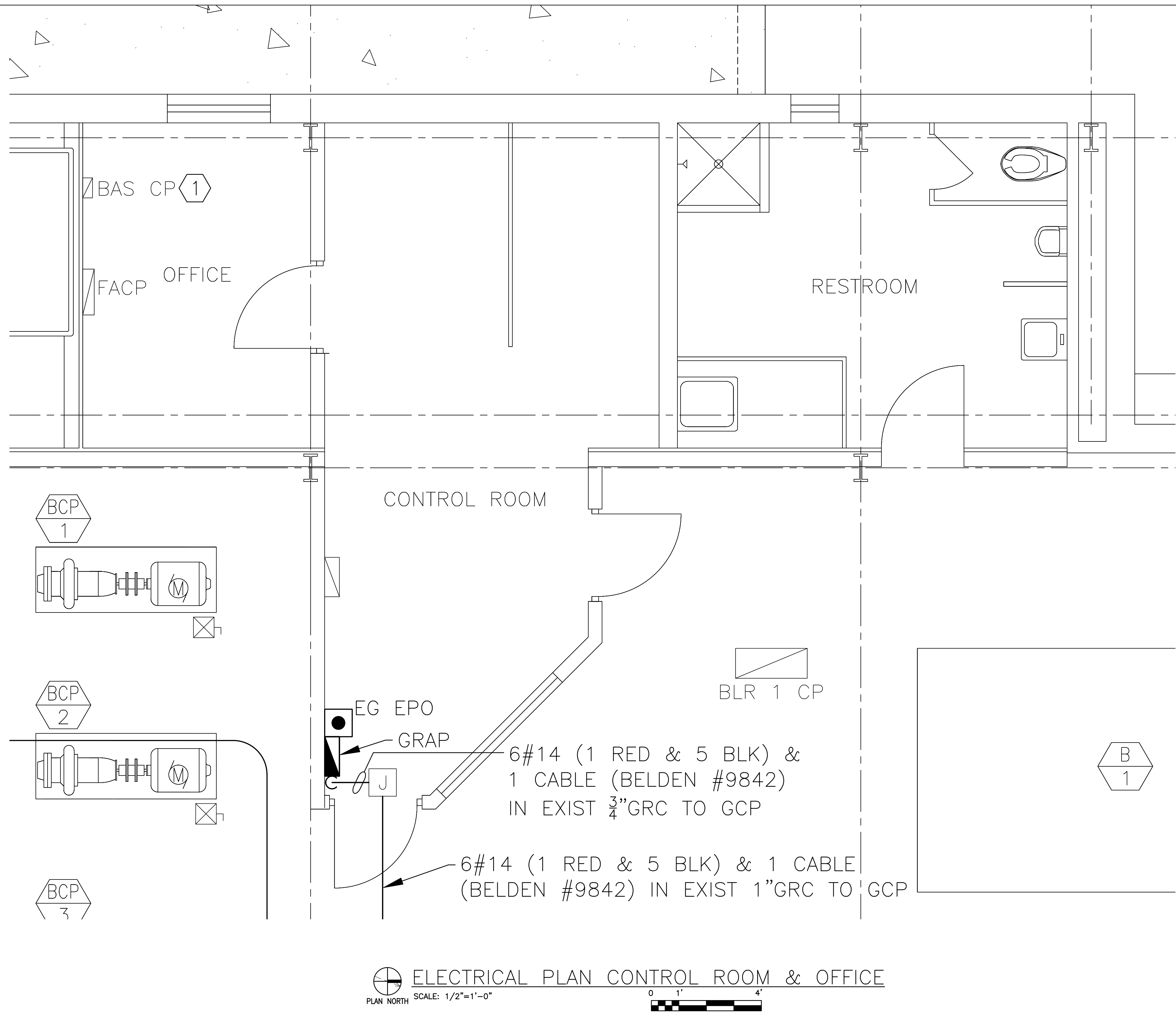
ONE-LINE
DIAGRAM -
DEMOLITION - 480V

SHEET NUMBER:

ED-603

20 OF 28 SHEETS
SEPTEMBER 22, 2025





GENERAL NOTE:

A. FIELD VERIFY EXISTING CONDITIONS
PRIOR TO PROCEEDING.

KEY NOTE:

1. WIRE ALL BAS CNTRL SIGNALS
INDICATED ON THE PLANS & IN THE
SPECIFICATIONS TO THE EXIST BAS
CNTRL PANEL. SEE SPECIFICATION
SECTION 230900.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
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MO # E-24220
Expires 12-31-2026

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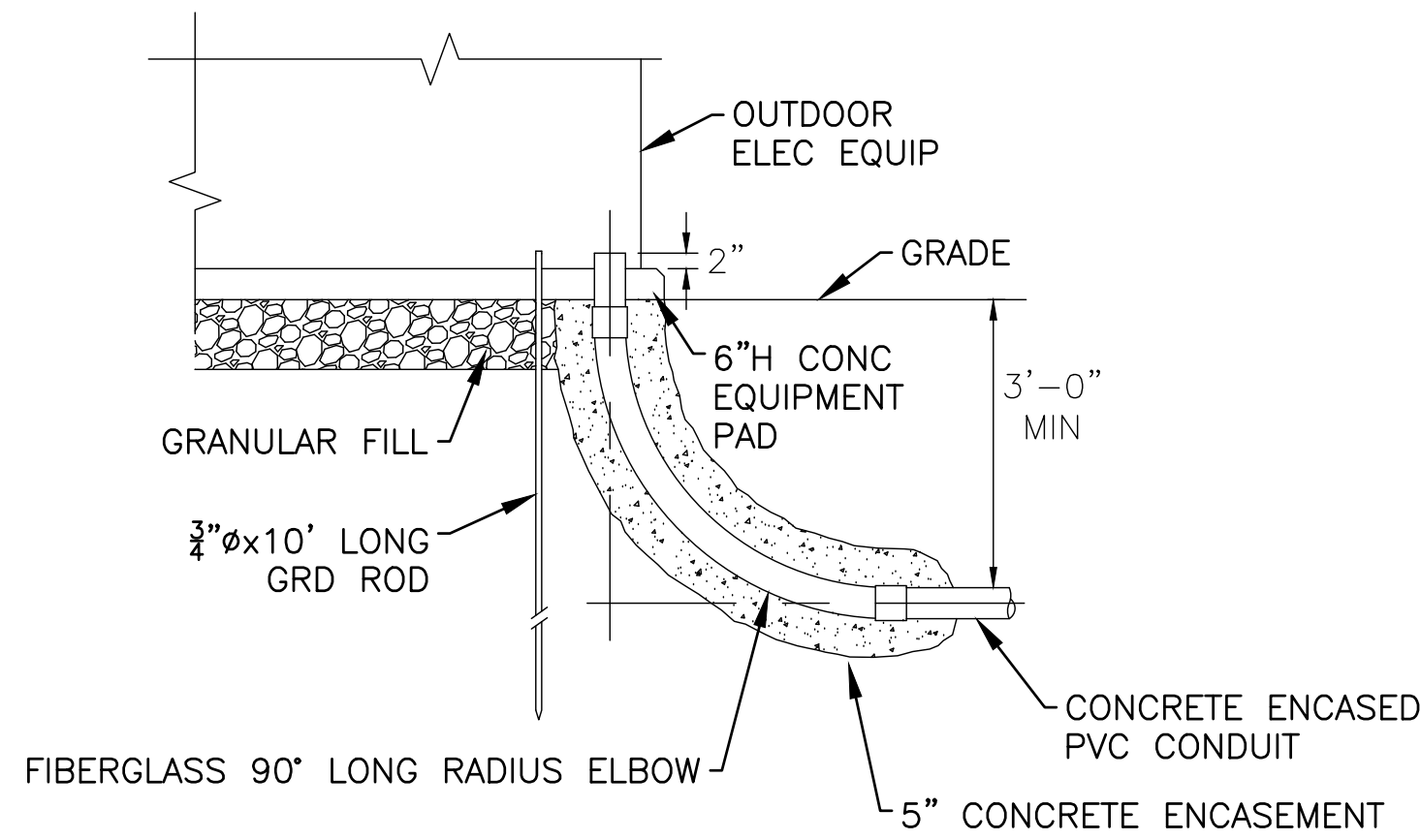
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DRAWN BY: M N S
CHECKED BY: B D F
DESIGNED BY: B D F

SHEET TITLE:
ELECTRICAL PLAN
- CONTROL ROOM
& OFFICE

SHEET NUMBER:

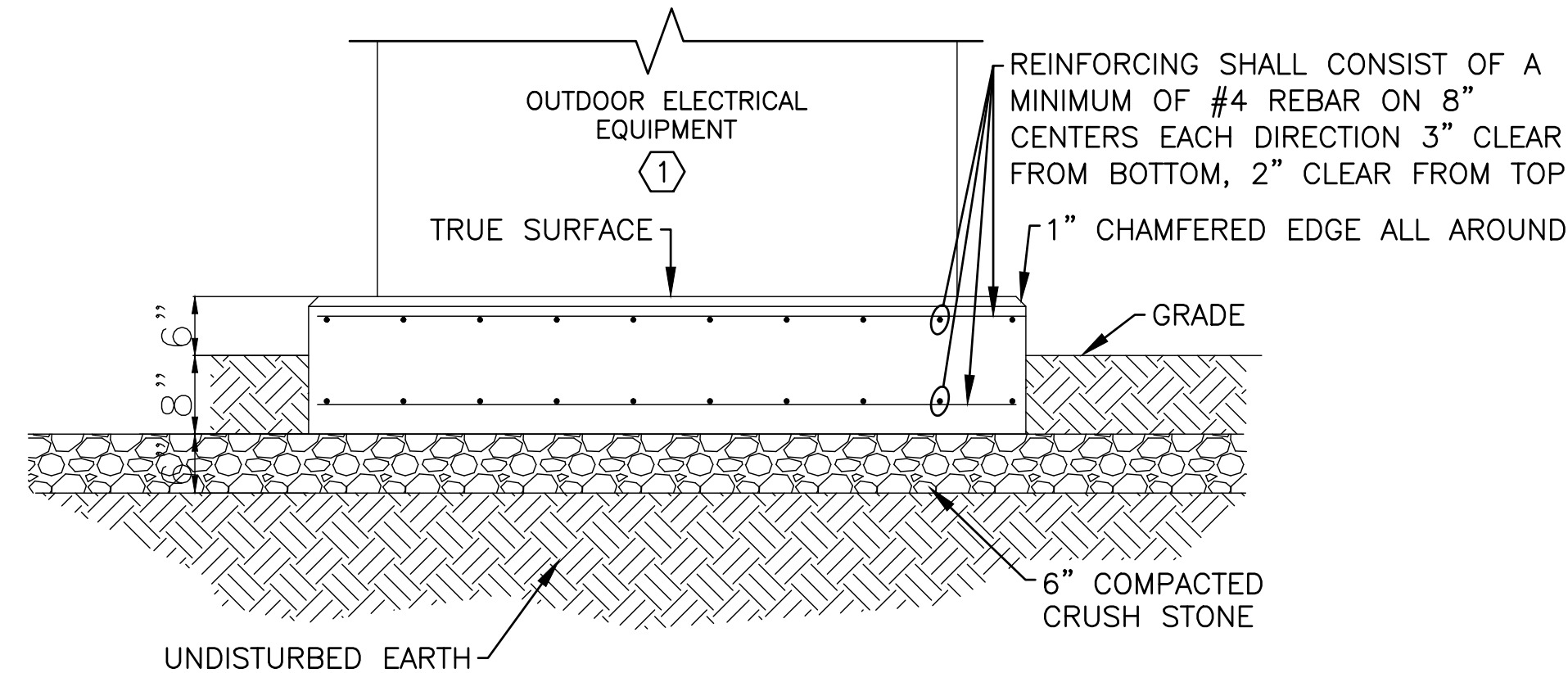
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22 OF 28 SHEETS
SEPTEMBER 22, 2025



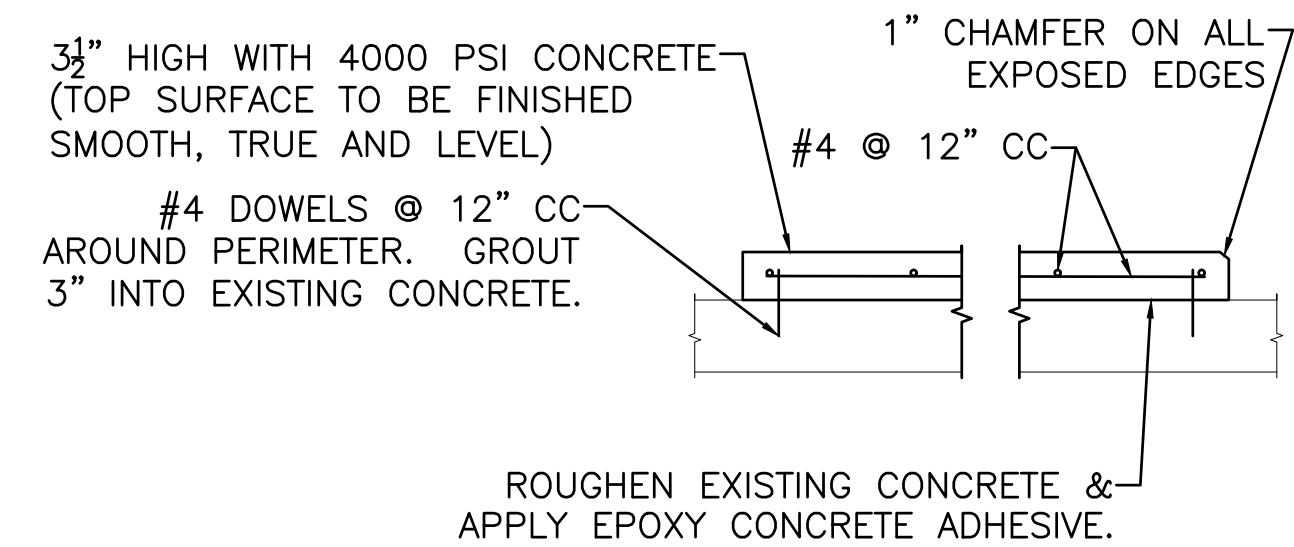
101
E-501
NO SCALE

CONDUIT TERMINATION AT
OUTDOOR ELEC EQUIP DETAIL



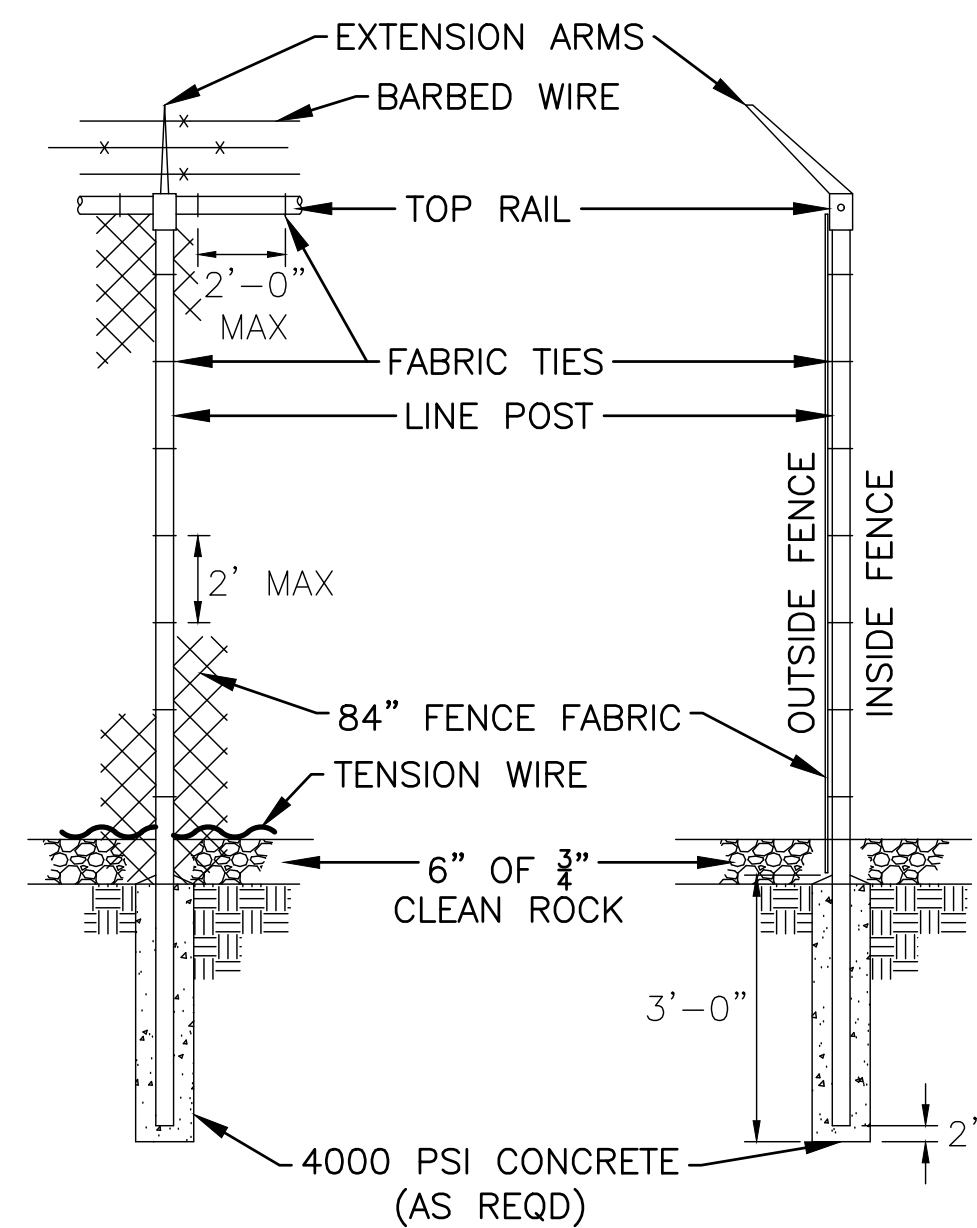
102
E-501
NO SCALE

OUTDOOR EQUIPMENT PAD DETAIL



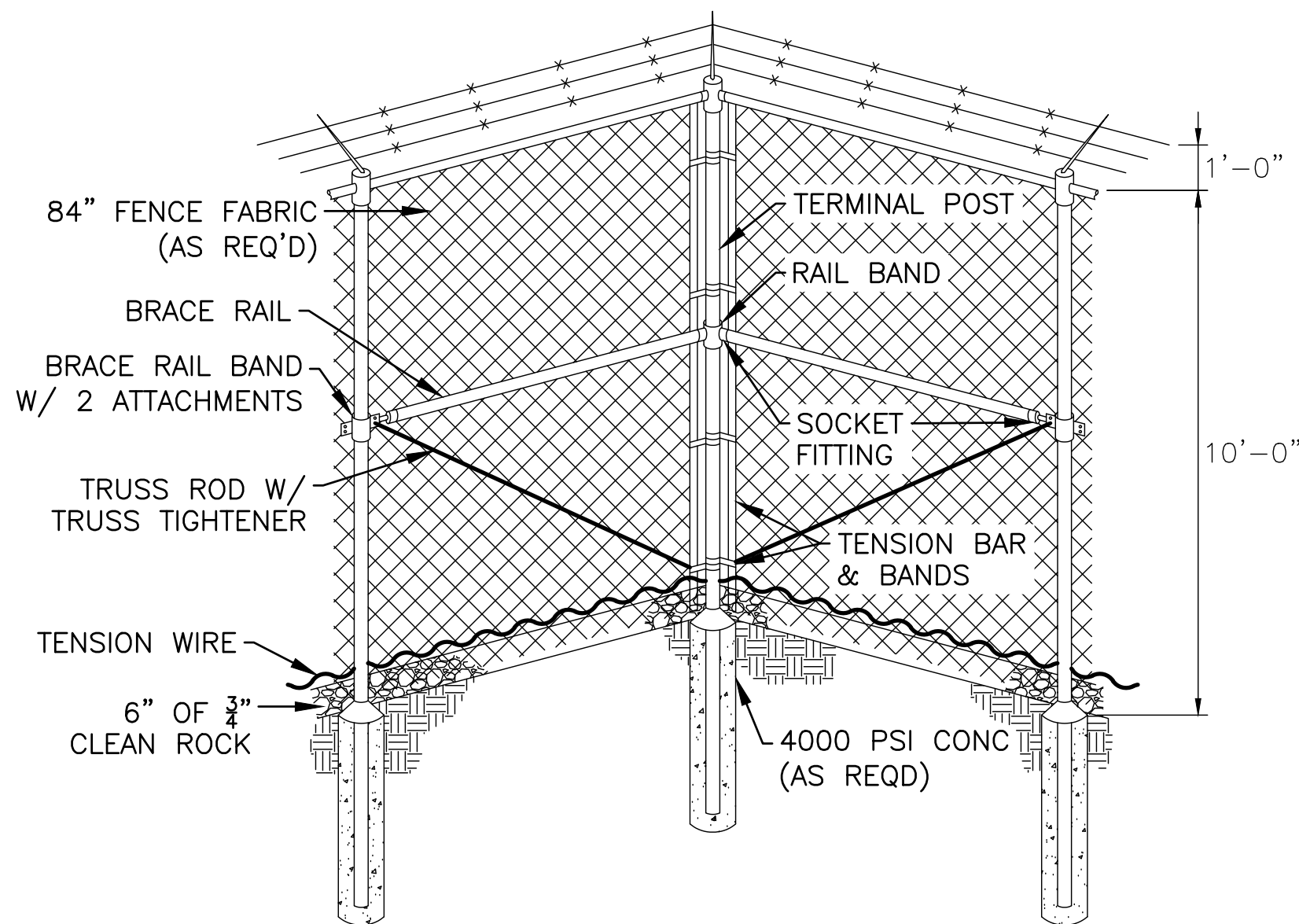
103
E-501
NO SCALE

INDOOR EQUIPMENT PAD DETAIL



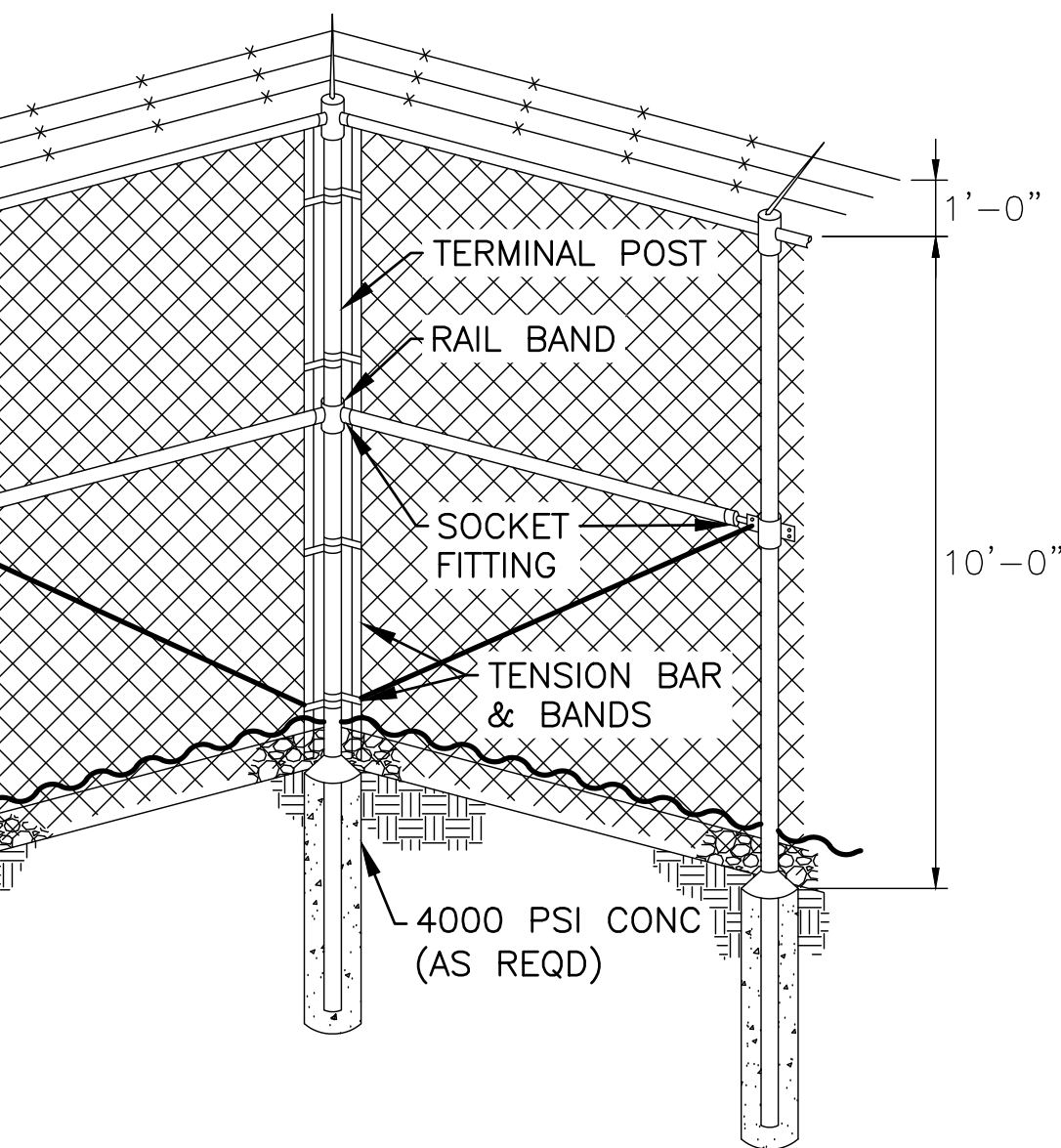
104
E-501
NO SCALE

SECTION



105
E-501
NO SCALE

SECTION



106
E-501
NO SCALE

CORNER SECTION

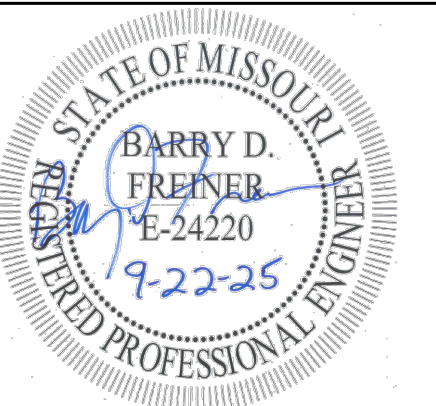
AMEREN MISSOURI SUBSTATION FENCE DETAILS

0 1' 2' 3'
SCALE IN FEET
3/4" = 1'-0"

KEY NOTES:

1. SET EQUIPMENT ON CONCRETE PAD IN PROPER LOCATION. DO NOT SLIDE ON CONCRETE TO AVOID DAMAGING PROTECTIVE FINISH ON BOTTOM
2. EARTH FORMING OF DUCT BANKS SHALL BE PERMITTED ONLY IN AREAS WHERE SIDES AND BOTTOM OF DUCT BANK TRENCH CONSIST OF FIRM UNDISTURBED SOIL.
3. ALL SPARE DUCT BANK CONDUITS SHALL CONTAIN A PULL STRING IN ACCORDANCE WITH THE SPECIFICATIONS.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2026

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OFFICE OF ADMINISTRATION
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UPGRADE GENERATOR
CONTROLS & TRANSFER
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PROJECT # C1920-01
SITE # 7005
ASSET # 9327005051

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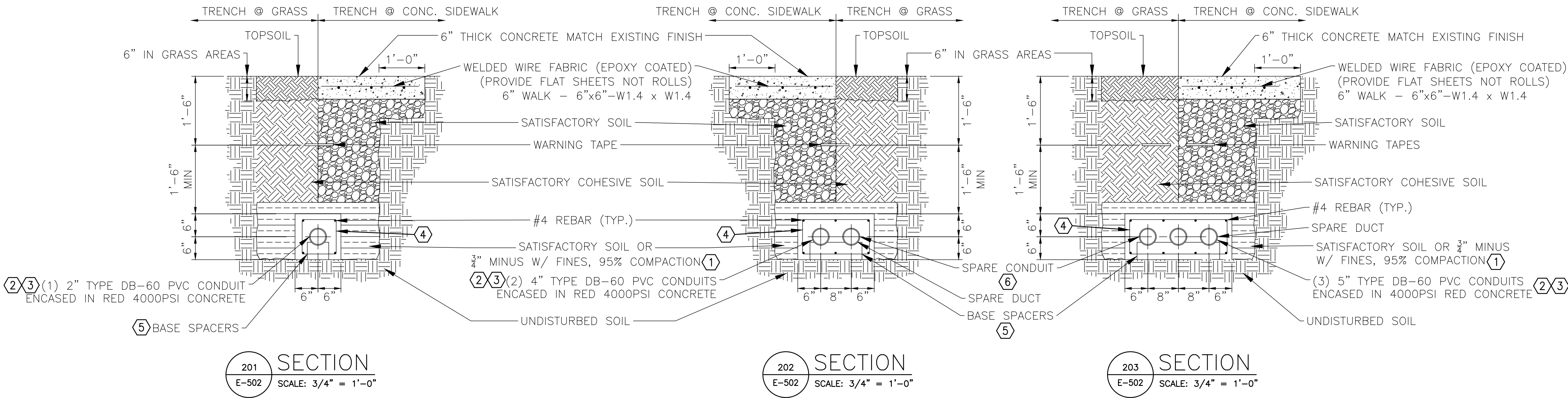
CAD DWG FILE: C1920-01-7005-
9327005051-E-501.DWG
DRAWN BY: K E T
CHECKED BY: B D F
DESIGNED BY: B D F

SHEET TITLE:
ELECTRICAL &
FENCE DETAILS

SHEET NUMBER:

E-501

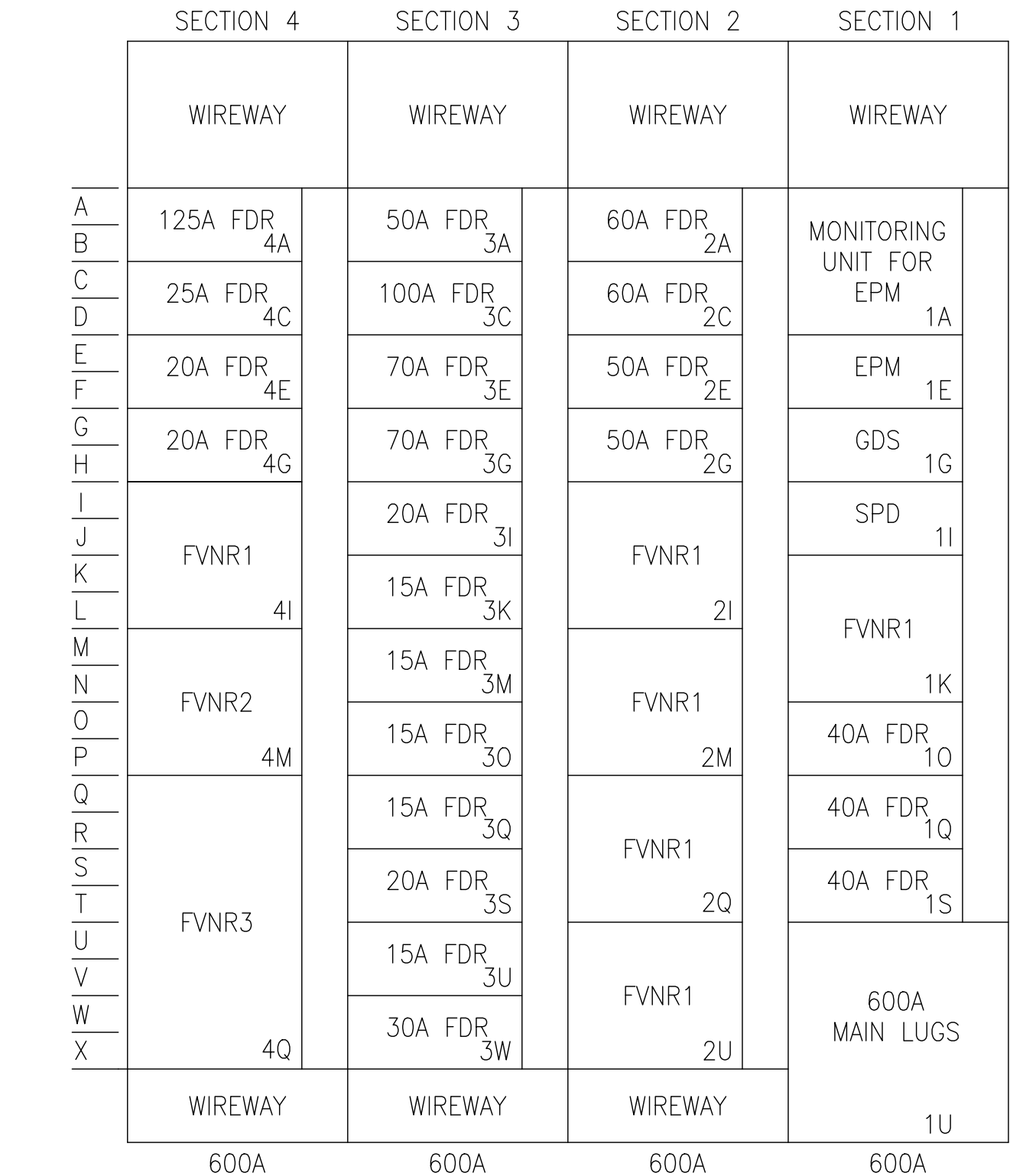
23 OF 28 SHEETS
SEPTEMBER 22, 2025



KEY NOTES:

- EARTH FORMING OF DUCT BANK IS ACCEPTABLE WHERE SIDES OF TRENCH CONSIST OF FIRM, UNDISTURBED SOIL. FORMING SHALL BE REQUIRED TO LIMIT DUCT BANK CONC THICKNESS TO 12" MAX FROM SIDE OF DUCT.
- IN PLACING CONCRETE, USE A DELIVERY CHUTE TO MINIMIZE FALL OF THE CONCRETE INTO THE TRENCH. USE A SPLASH BOARD TO DIVERT THE FLOW OF CONCRETE AWAY FROM THE TRENCH SIDES AND AVOID DISLODGING SOIL AND STONES. CONCRETE SLUMP SHALL HAVE CONSISTENCY TO INSURE FLOWING OF CONC BETWEEN, UNDER, AND ALL AROUND DUCTS. PRECAUTIONS SHALL BE USED TO PREVENT VOIDS AND AIR POCKETS, AND TO PREVENT THE DUCTS FROM FLOATING.
- EACH UNDERGROUND CONDUIT MUST HAVE A MINIMUM 3" CONCRETE ENVELOPE IN EACH DIRECTION AND MAXIMUM OF 6" VERTICAL AND A MAXIMUM OF 12" HORIZONTAL. THE NUMBER AND CONFIGURATION OF CONDUITS IN DUCT BANKS SHALL BE AS INDICATED.
- #4 REBAR TIE LOOP EVERY 48" MAXIMUM O.C.. SPACE BETWEEN LONGITUDINAL REINFORCING REBAR SHALL BE 12" MAXIMUM.
- INSTALL SPACERS AT A MAXIMUM OF EVERY 8 FEET.
- ALL SPARE DUCT BANK CONDUITS SHALL CONTAIN A PULL STRING IN ACCORDANCE WITH THE SPECIFICATION 337119.13.
- MCC1 LAYOUT SHOWN IS BASED ON SQUARE D MODEL 6. CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS AT NO ADDITIONAL COST TO ACCOMODATE ALTERNATE ARRANGEMENT FROM ONE OF THE OTHER MCC MANUFACTURERS LISTED IN SPECIFICATION SECTION 262419.

MOTOR CONTROL CENTER MCC1 SCHEDULE	
BUCKET NO.	DESCRIPTION
1A	MONITORING UNIT FOR EPM
1E	EPM
1G	GDS
1I	SPD
1K	FVNR 1 - ELECTRIC RM VENT FAN
1O	40A/3P CB - BCP 1
1Q	40A/3P CB - BCP 2
1S	40A/3P CB - BCP 3
1U	600A MAIN LUGS
2A	60A/3P CB - BOILER 1
2C	60A/3P CB - BOILER 2
2E	50A/3P CB - FWP 1
2G	50A/3P CB - FWP 2
2I	FVNR1 - UPPER ROOF FAN
2M	FVNR1 - EAST ROOF FAN
2Q	FVNR1 - WEST ROOF FAN
2U	FVNR1 - SPARE
3A	50A/3P CB - NORTH AIR COMPRESSOR
3C	100A/3P CB - SOUTH AIR COMPRESSOR
3E	70A/3P CB - DP 2
3G	70A/3P CB - DP 3
3I	20A/3P CB - CT PUMP
3K	15A/3P CB - CT BASIN HEATER
3M	15A/3P CB - CT FAN
3O	15A/3P CB - CWP-2
3Q	15A/3P CB - CWP-1
3S	20A/3P CB - SPARE
3U	15A/3P CB - SPARE
3W	30A/3P CB - SPARE
4A	125A/3P CB - SPARE
4C	25A/3P CB - SPARE
4E	20A/3P CB - VEF-03 EAST
4G	20A/3P CB - VEF-02 WEST
4I	FVNR1 - SPARE
4M	FVNR2 - SPARE
4Q	FVNR3 - EMER GEN REMOTE RADIATOR FAN



MCC1 ELEVATION

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
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PROJECT # C1920-01
SITE # 7005
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DRAWN BY: KET
CHECKED BY: BDF
DESIGNED BY: BDF

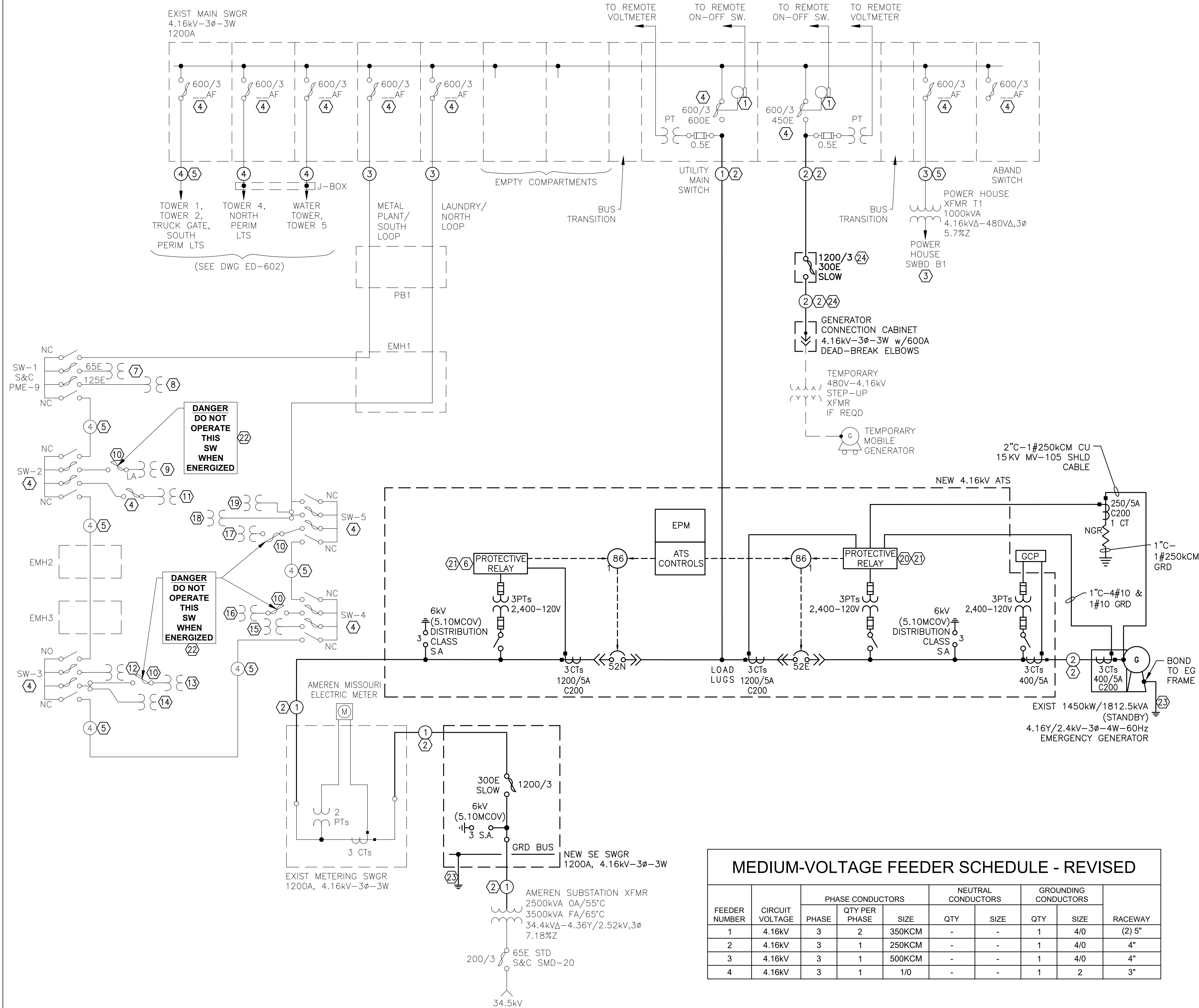
SHEET TITLE:

DUCT BANK &
MOTOR CONTROL
CENTER DETAILS

SHEET NUMBER:

E-502

24 OF 28 SHEETS
SEPTEMBER 22, 2025



ONE-LINE DIAGRAM - NEW WORK - 4.16kV

GENERAL NOTES:

- FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- UTILIZE 15KV SHLD CABLE FOR ALL 4.16KV CKTS PER SPECIFICATION SECTION 260513.

KEY NOTES:

- MOTOR OPERATOR.
- PROVIDE NEW 4.16KV FEEDER.
- SEE DWG E-603.
- FIELD VERIFY AND DOCUMENT EXIST FUSE TYPE & SIZE.
- FIELD VERIFY AND DOCUMENT EXIST CONDUIT SIZE & TYPE AND CABLE TYPE, QTY & SIZES, INCL GRD.
- UTILITY SOURCE PROTECTIVE RELAY SHALL BE GE MULTILIN 850 OR APPROVED EQUAL BY BASLER OR SCHWEITZER.
- EXIST 300kVA, 4.16kVΔ-208Y/120V, 3-PHASE DRY TYPE XFMR, 6.6%Z AT METAL PLANT.
- EXIST 500kVA, 4.16kVΔ-480Y/277V, 3-PHASE DRY TYPE XFMR, 5.6%Z AT METAL PLANT.
- EXIST 225kVA, 4.16kVΔ-208Y/120V, 3-PHASE DRY TYPE XFMR, 4.7%Z AT HU 1.
- EXIST G&W 4.16kV, 3-PHASE OIL INS SWITCH.
- EXIST 500kVA, 4.16kVΔ-208Y/120V, 3-PHASE DRY TYPE XFMR, 5.94%Z AT FOOD SERVICE.
- EXIST 300kVA, 4.16kVΔ-208Y/120V, 3-PHASE DRY TYPE XFMR, 5.6%Z AT HU 3.
- EXIST 500kVA, 4.16kVΔ-208Y/120V, 3-PHASE DRY TYPE XFMR, 5.8%Z AT ADMIN BLDG.
- EXIST 300kVA, 4.16kVΔ-480Y/277V, 3-PHASE DRY TYPE XFMR, 4.2%Z AT ADMIN BLDG FOR CHILLERS.
- EXIST 300kVA, 4.16kVΔ-208Y/120V, 3-PHASE DRY TYPE XFMR, 4.99%Z AT SCHOOL.
- EXIST 225kVA, 4.16kVΔ-208Y/120V, 3-PHASE DRY TYPE XFMR, 4.7%Z AT HU 2.
- EXIST 225kVA, 4.16kVΔ-208Y/120V, 3-PHASE DRY TYPE XFMR, 4.7%Z AT SIGN SHOP.
- EXIST 225kVA, 4.16kVΔ-208Y/120V, 3-PHASE DRY TYPE XFMR AT PRINT SHOP/LAUNDRY (NO NAMEPLATE ON XFMR).
- EXIST 300kVA, 4.16kVΔ-480Y/277V, 3-PHASE DRY TYPE XFMR, 3.87%Z AT MVE WAREHOUSE.
- EMERGENCY SOURCE PROTECTIVE RELAY SHALL BE GE MULTILIN 889 OR APPROVED EQUAL BY BASLER OR SCHWEITZER.
- PROTECTIVE RELAY FUNCTIONS TO BE DETERMINED BY SPECIFICATION SECTION 260573 ENGINEER PER AMEREN RQMTS.
- PROVIDE AN ENGRAVED LAMINATED PLASTIC NAMEPLATE, PER SPECIFICATION 260553, ON THE OUTSIDE OF THE DOOR THAT PROVIDES ACCESS TO ALL G&W OIL INSULATED SWITCHES, OR ON THE WALL NEXT TO THE SWITCH IF IT IS NOT ENCLOSED, WITH THE FOLLOWING WHITE LETTERING ON A RED BACKGROUND:

DANGER!
DO NOT OPERATE THIS
SWITCH WHEN ENERGIZED
- 4/0 STRD CU GRD TO 3/4"ØX10'L COPPERCLAD STL GRD ROD.
- ALTERNATE BID NO. 1

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2026

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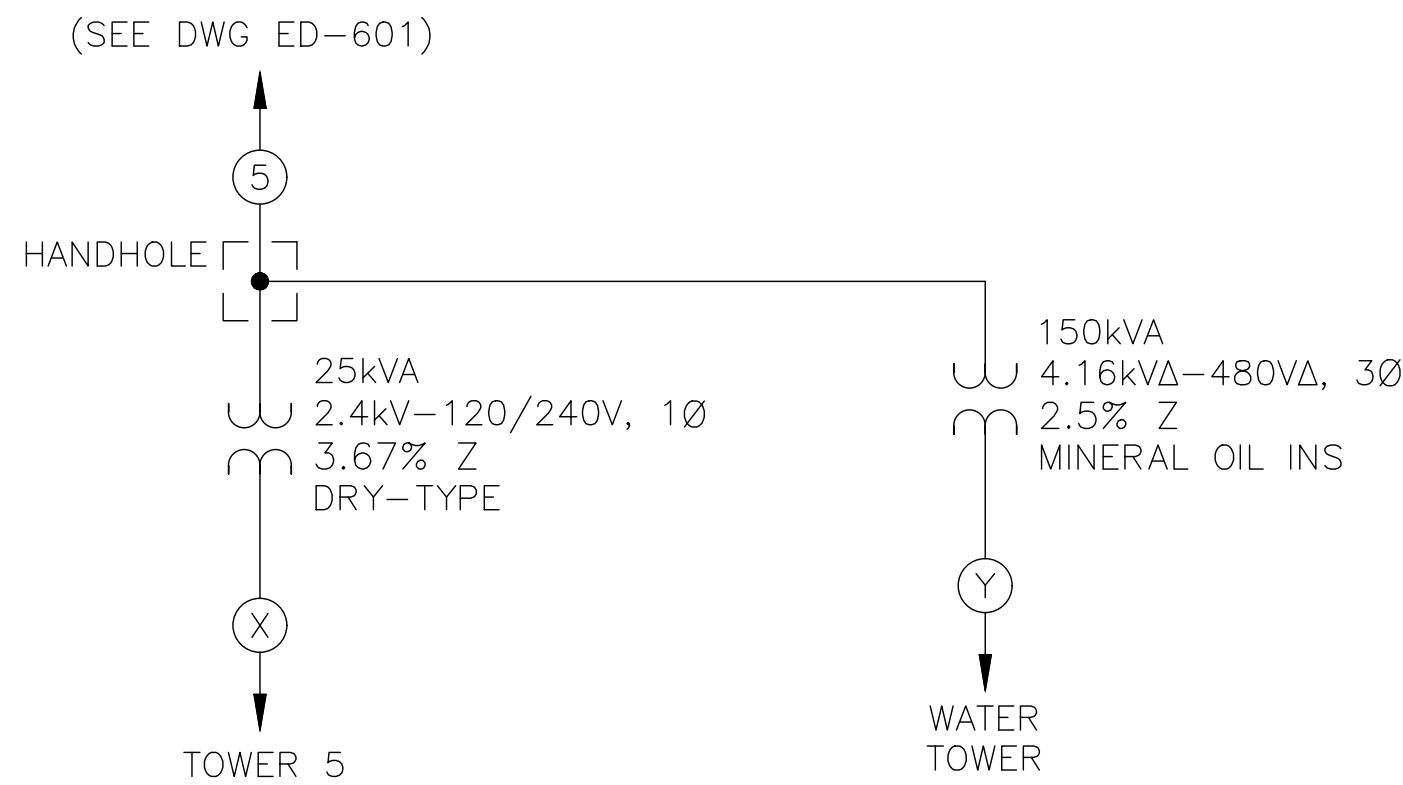
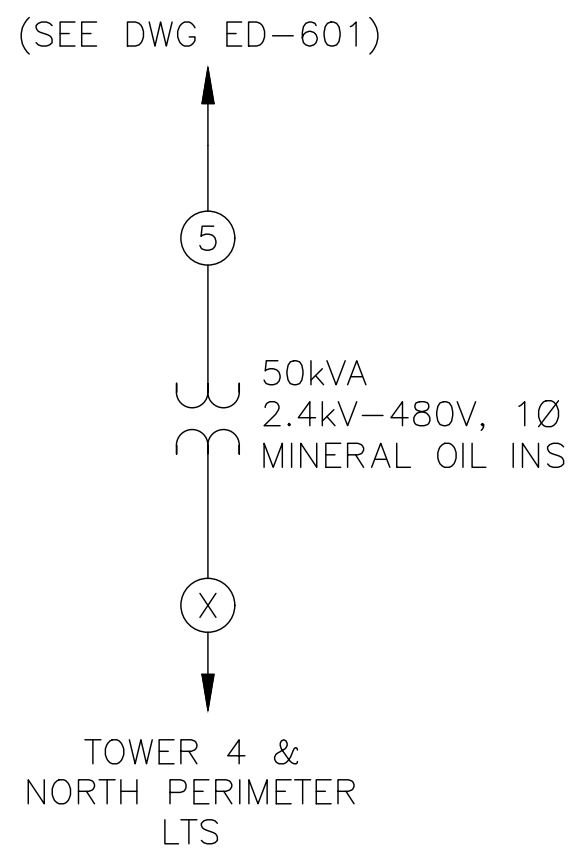
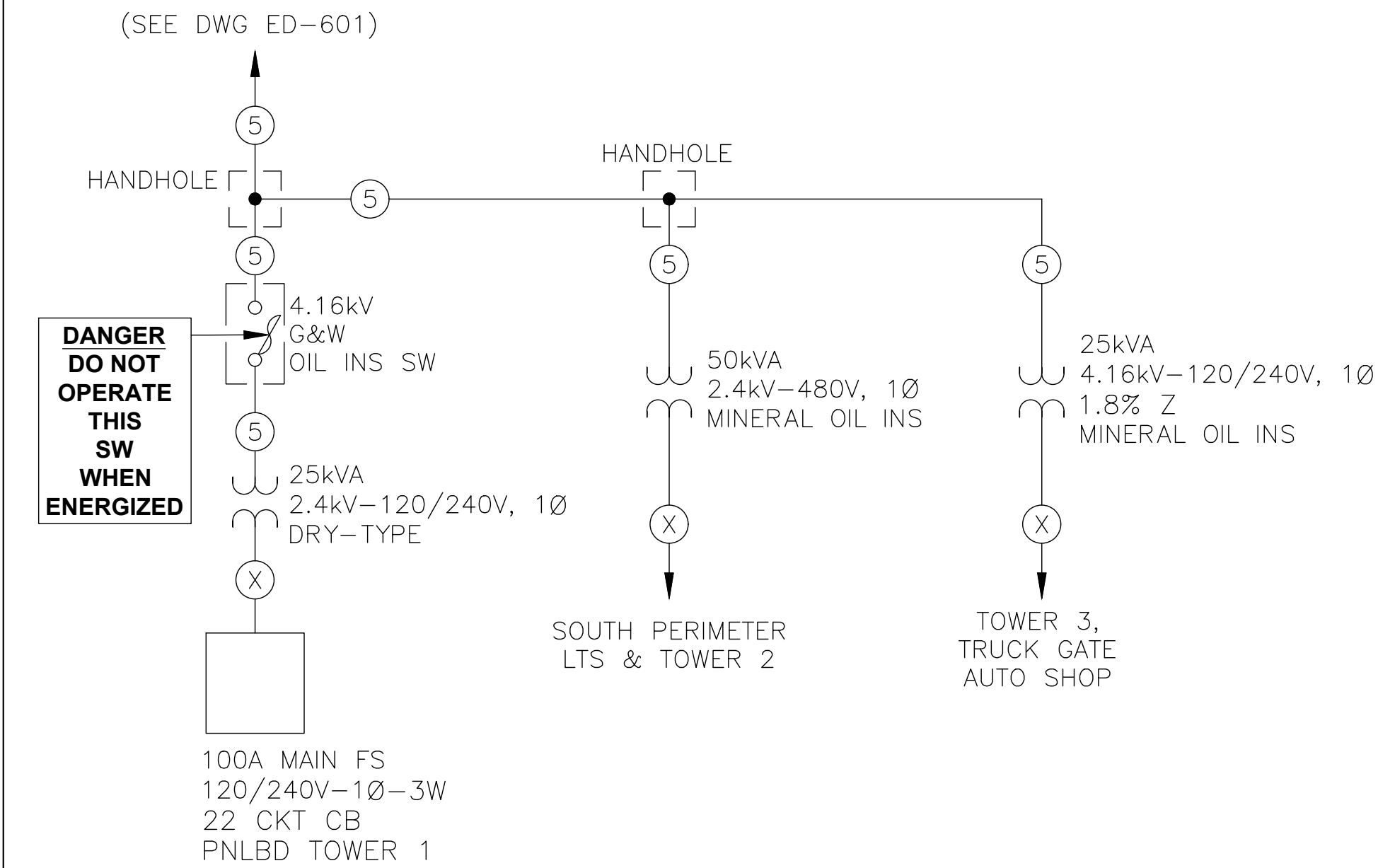
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9327005051-E-601.DWG
DRAWN BY: KET/MNS
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DESIGNED BY: BDF

SHEET TITLE:
ONE-LINE
DIAGRAM - NEW
WORK - 4.16kV

SHEET NUMBER:

E-601

25 OF 28 SHEETS
SEPTEMBER 22, 2025



GENERAL NOTE:

A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.

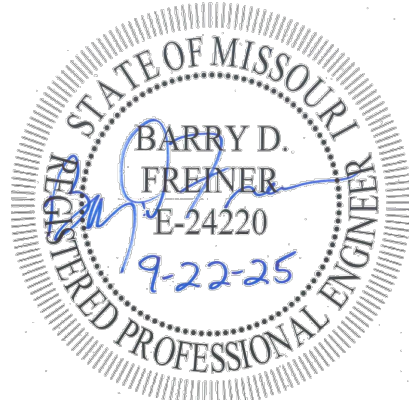
KEY NOTE:

1. PROVIDE AN ENGRAVED LAMINATED PLASTIC NAMEPLATE, PER SPECIFICATION 260553, ON THE OUTSIDE OF THE DOOR THAT PROVIDES ACCESS TO ALL G&W OIL INSULATED SWITCHES, OR ON THE WALL NEXT TO THE SWITCH IF IT IS NOT ENCLOSED, WITH THE FOLLOWING WHITE LETTERING ON A RED BACKGROUND:

DANGER!
DO NOT OPERATE THIS
SWITCH WHEN ENERGIZED

ONE-LINE DIAGRAM — 4.16kV

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SHEET TITLE:
ONE-LINE
DIAGRAM - NEW
WORK - 4.16kV

SHEET NUMBER:

E-602

STATE OF MISSOURI
BARRY D. FREINER
E-24220
9-22-25
REGISTERED PROFESSIONAL ENGINEER

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**MISSOURI STATE CERTIFICATE
OF AUTHORITY #000408**

MOBERLY CORRECTIONAL
CENTER
5201 SOUTH MORLEY ST.
MOBERLY, MO 65270

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

CAD DWG FILE: C1920-01-7005-9327005051-E-603.DWG

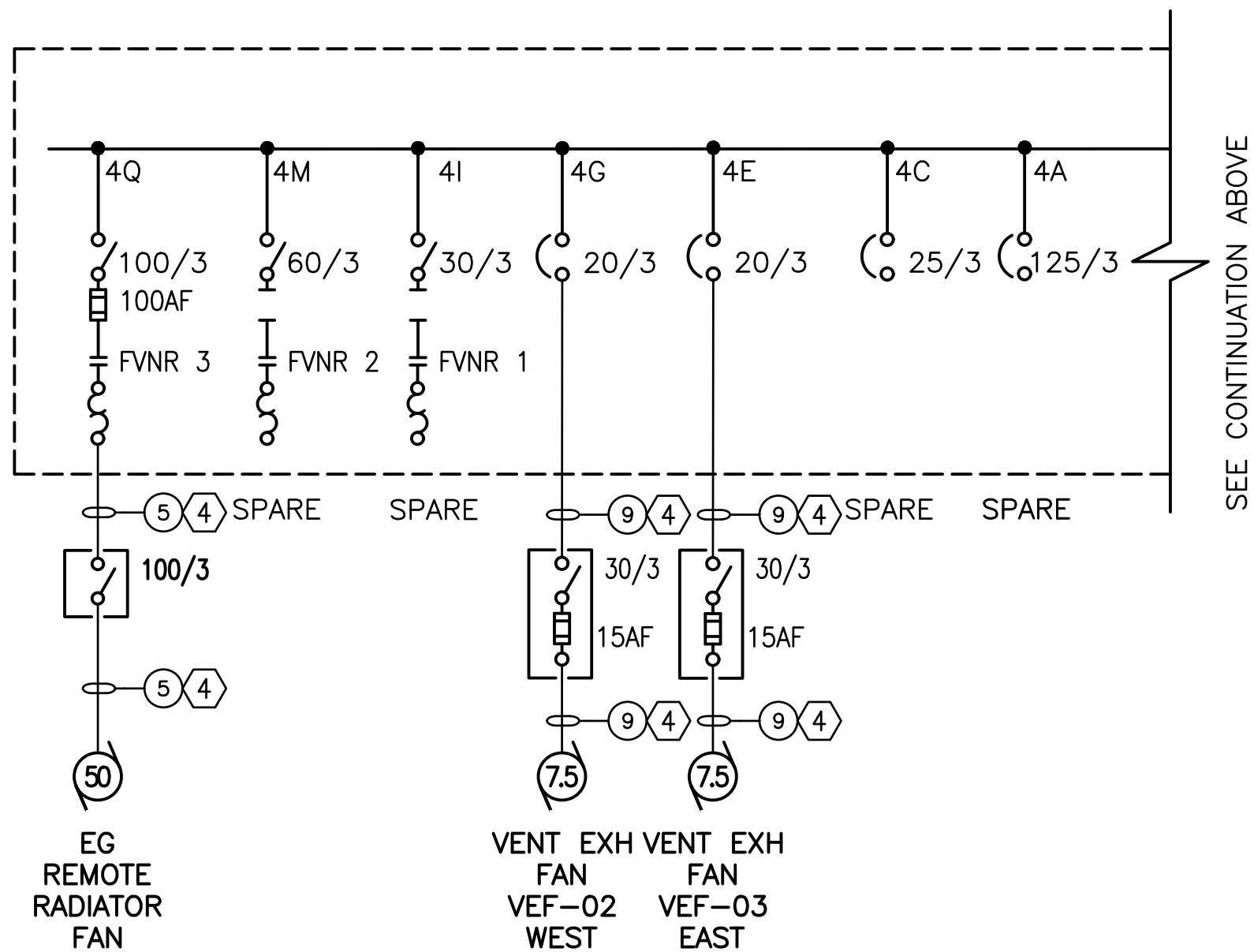
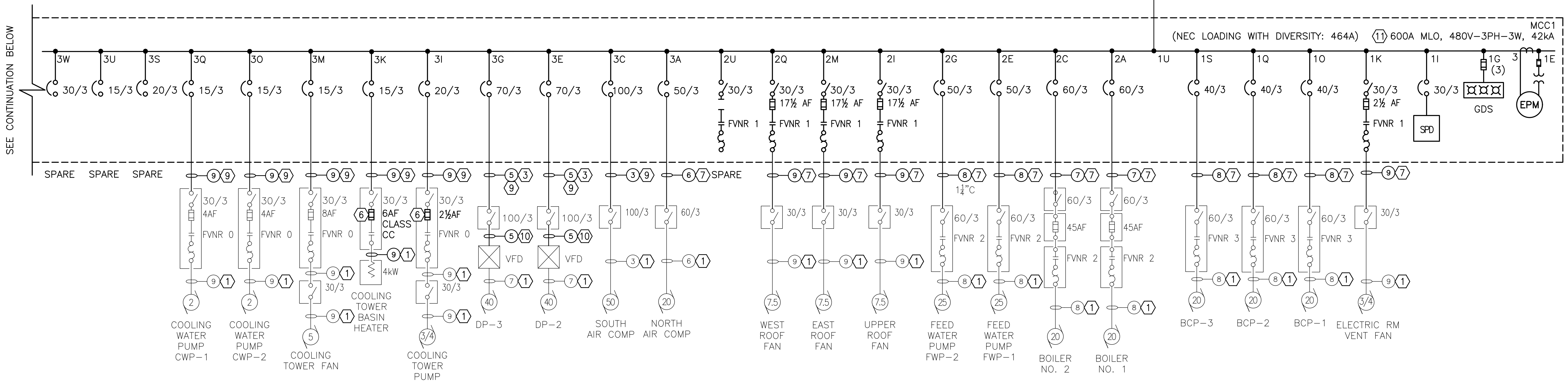
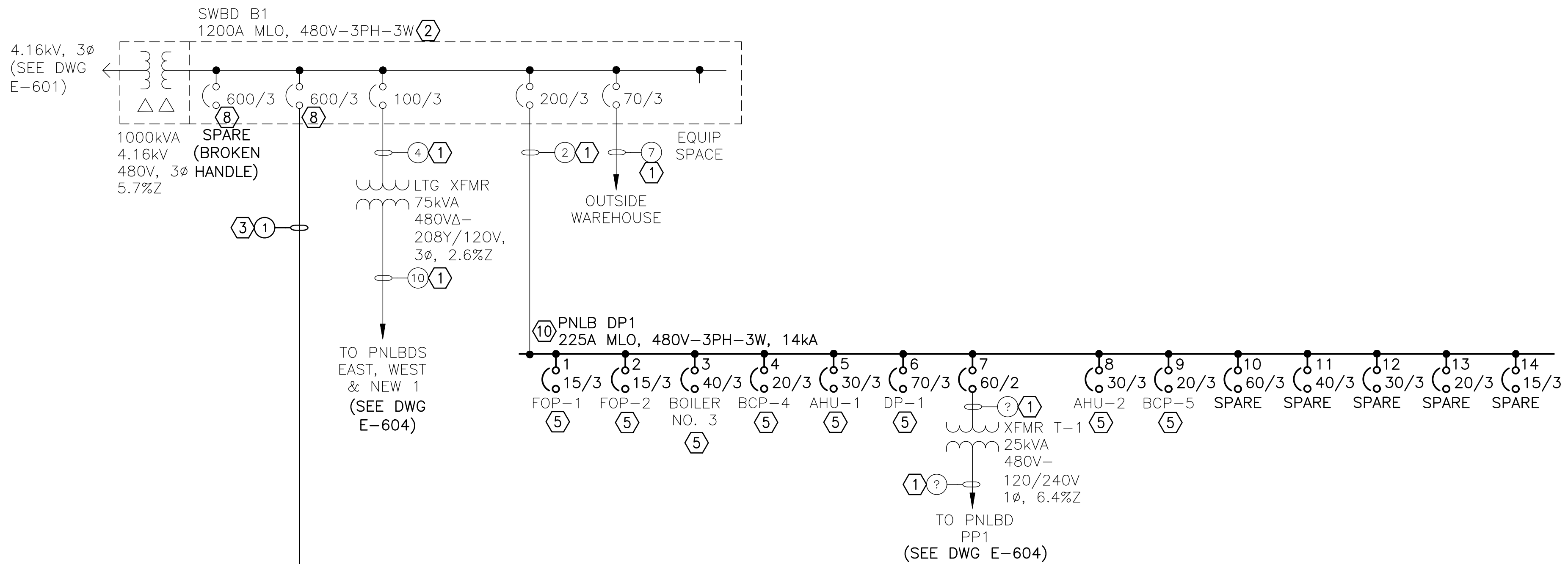
DRAWN BY:	K E T / M N S
CHECKED BY:	B D F
DESIGNED BY:	B D F

ONE-LINE
DIAGRAM - NEW
WORK - 480V

E-603

ELECTRICAL ONE-LINE DIAGRAM – NEW WORK – 480V

LOW-VOLTAGE FEEDER SCHEDULE - REVISED									
FEEDER NUMBER	CIRCUIT VOLTAGE	PHASE CONDUCTORS			NEUTRAL CONDUCTOR		GROUNDING CONDUCTOR		RACEWAY TRADE SIZE
		PHASE	QTY PER PHASE	SIZE	QTY	SIZE	QTY	SIZE	
①	480V	3	2	500 KCM	-	-	1	1/0 AWG	4"
②	480V	3	1	3/0	-	-	-	-	1-1/2"
③	480V	3	1	3 AWG	-	-	1	3 AWG	1-1/2"
④	480V	3	1	3 AWG	-	-	1	8 AWG	1-1/4"
⑤	480V	3	1	4 AWG	-	-	1	8 AWG	1-1/4"
⑥	480V	3	1	6 AWG	-	-	1	8 AWG	1"
⑦	480V	3	1	6 AWG	-	-	1	10 AWG	1"
⑧	480V	3	1	8 AWG	-	-	1	10 AWG	3/4"
⑨	480V	3	1	12 AWG	-	-	1	12 AWG	3/4"
⑩	208V	3	1	250KCM	1	250KCM	1	2 AWG	2"



KEY NOTES:

1. EXISTING FEEDER TO REMAIN. FIELD VERIFY AND DOCUMENT CONDUIT SIZE & TYPE AND CONDUCTOR TYPE, QTY & SIZES, INCL GRD.
2. FIELD VERIFY EQUIP SCCR.
3. PROVIDE NEW FEEDER CONDUCTORS IN EXIST CONDUIT.
4. PROVIDE NEW FEEDER.
5. FIELD VERIFY AND DOCUMENT CONDUIT SIZE & TYPE AND CONDUCTOR TYPE, QTY & SIZES, INCL GRD. EXTEND/REROUTE EXIST FDR INTO NEW PNLBD DP1. SEE DWG ED-603.
6. PROVIDE NEW FUSES AS INDICATED.
7. EXTEND/REROUTE EXIST FDR INTO NEW MCC1. SEE DWG ED-603.

8. TERMINATE NEW MCC1 FDR ON THE "MCC2"
CB. PROVIDE NEW ENGRAVED NP "MCC1"
FOR THIS CB AND "SPARE" NP FOR THE
CB WITH THE BROKEN HANDLE.
9. CONNECT EXIST MCC2 FDR TO NEW MCC1.
EXTEND EXIST CONDUIT & WIRING IF/AS
REQD. SEE DWG ED-603.
10. PROVIDE NEW PANELBOARD PER
SPECIFICATION SECTION 262416.
11. PROVIDE NEW MCC PER SPECIFICATION
SECTION 262419.

GENERAL NOTES:

- A. PANELBOARD SCHEDULES ARE BASED ON AVAILABLE EXIST DOCUMENTATION. ALL INFORMATION SHALL BE FIELD VERIFIED FOR THE ARC FLASH RISK ASSESSMENT STUDY PER SPECIFICATION SECTION 260573 WITH ALL CHANGES NOTED ON "AS-BUILT" DWGS.
- B. PROVIDE UPDATED PRINTER GENERATED PNLBD CKT DIRECTORY FOR EACH PNLBD (NEW & EXIST) PER SPECIFICATION SECTION 260553 WITH THE LOAD(S) SERVED BY EACH CKT IDENTIFIED PER NEC 408.4(A).
- C. NEW OCPDs PROVIDED IN EXIST PNLBDs SHALL BE SAME TYPE, SIZE, AMPERE RATING, AIC RATING AND MANUFACTURER AS EXIST.

KEY NOTES:

1. TRACE EXIST CKT AND INDICATE LOAD(S) SERVED ON NEW CKT DIRECTORY.
2. VERIFY BRANCH CIRCUIT CONDUCTOR SIZE IS 10AWG. CHANGE FUSE/CB TO 20A FOR 12AWG AND TO 15A FOR 14AWG CONDUCTORS.
3. PROVIDE DEVICE THAT PREVENTS CB FROM BEING TURNED OFF BUT ALLOWS THE CB TO TRIP.
4. PROVIDE RED LABEL WITH WHITE "FIRE ALARM" LETTERING PER NEC 760.41.
5. PROVIDE NEW PNLBD WITH INTEGRALLY MTD SPD PER SPECIFICATION SECTION 262416.
6. PROVIDE 3/4"C-1 CABLE (2/C#18) TO BAS CNTRL PANEL IN OFFICE FOR SPD STATUS.
7. FIELD VERFY FUSE AND CONDUCTOR SIZES.
8. FIELD VERIFY EQUIP SCCR.

EXISTING PANELBOARD EAST SCHEDULE (ELEC RM)

CKT NO	AMPS	POLES	LOAD	VOLT-AMPERES			VOLT-AMPERES			LOAD	POLES	AMPS	CKT NO
				ØA	ØB	ØC	ØA	ØB	ØC				
2	1	30	1	LTS-BATHRM/PATIO & RECPTS-KITCHEN/S. OFFICE	-			-		E&N OFFICE, ENTRANCE, KITCHEN & W PUMP RM RECPTS	1	30	2
	3	20	1	SANDBLASTER/BOILER RM RECPTS		-			-	WATER FOUNTAIN	1	30	4
2	5	30	1	TOWER SECURITY LIGHT			-		-	LIGHTS - 3RD FLOOR	1	30	6
2	7	30	1	LIGHT - E. SIDE 2ND FLOOR	-			-		LIGHTS - S. SIDE 3RD FLOOR	1	30	8
2	9	30	1	HIGH H2O ALARM-STORAGE TANK/3RD FLR RECPTS		-			-	OFFICE A/C - HEAT PUMP	1	30	10
2	11	30	1	LIGHTS - MIDDLE 2ND FLR & TELEPHONE BELL			-		-	OFFICE A/C - HEAT PUMP	1	30	12
2	13	30	1	LIGHTS - 2ND FLR ID FANS	-			-		BATHROOM HEATER	1	30	14
2	15	30	1	LIGHTS - BLUERROOM/PAINT LOCKER/STAIRWAY/SW 2ND FLOOR		-			-	BATHROOM HEATER	1	30	16
2	17	25	1	LIGHTS - PREHEATER			-		-	SUMP PUMP BY GARAGE DOOR	1	30	18
2	19	30	1	LTS-W. SIDE 2ND FLR ABOVE ID FANS/BLUERROOM HTR	-			-		WALL HEATERS - ELEC ROOM NORTH & WEST	1	-	20
2	21	25	1	OFFICE HEATER		-			-	WALL HEATERS - ELEC ROOM NORTH & WEST	1	-	22
2	23	25	1	OFFICE HEATER			-		-	ELEC ROOM HEATER	1	-	24
2	25	30	1	RECPT AT MAKEUP PUMPS	-			-		BATHROOM DOMESTIC WATER HEATER	1	25	26
7	27	?	1	NORTH SECURITY LIGHT		-			-	BATHROOM DOMESTIC WATER HEATER	1	25	28
7	29	?	1	LIGHTS ABOVE PUMPS IN PUMP ROOM			-		-	-	1	-	30
	31	?	1	-	-			-		-	1	-	32

200 AMP MLO. 208Y/120V-3Ø-4W. 32 CKT, ??kA/8
FRANK ADAM ELECTRIC PLUG FUSED PNLD

NEW PANELBOARD PP1 SCHEDULE (GENERATOR RM)

CKT NO	AMPS	POLES	LOAD	VOLT-AMPERES			VOLT-AMPERES			LOAD	POLES	AMPS	CKT NO
				ØA	ØB	ØC	ØA	ØB	ØC				
2	1	30	1	CONV OUTLETS & FENCE SENSOR	-		-		-	DOOR OPENER	1	30	2
	3	20	1	VENT FAN & DAMPER MOTOR #3		-		-	-	DAY TANK CONTROL PANEL	1	20	4
	5	20	1	LTG - GENERATOR & BOILER 3 AREA	-		-		-	EXTERIOR LTS & RESTRICTED TOOL CAGE	1	20	6
	7	20	1	WATER SOFTENER RECPT		-		-	-	COOLING TOWER HEAT TRACE	1	20	8
	9	20	1	SPARE	-		-		-	BOILER #1 & #2 CONTROLS	1	20	10
	11	20	1	GENERATOR BATTERY CHARGER		-		-	-	WEST OUT BUILDING	1	20	12
	13	20	1	ROOF EXH FAN ABOVE SW STAIRWELL	-		-		-	WEST OUT BUILDING	1	20	14
	15	20	1	PLUG STRIP BLR CNTRL CAB - OFFICE		-		-	-	GENERATOR WEST JACKET WATER HTR	2	30	16
	17	15	1	OFFICE	-		-		-				18
	19					-		-	-	BLR CNTRL CIR - LOW WATER - OFFICE	1	15	20
	21	60	2	SPARE	-		-		-				22
	23					-		-	-	WELDER	2	70	24
	25	30	2	INGERSOL RAND AIR COMPRESSOR	-		-		-	DAY TANK REVERSE FUEL OIL PUMP	1	20	26
1	27	20	1	UNKNOWN LOAD		-		-	-				28
	29	20	1	ATS CONTROL POWER	-		-		-	GENERATOR EAST JACKET WATER HTR	2	30	30
	31	20	1	ATS EMERGENCY SOURCE CB SHUNT TRIP		-		-	-	TEMP GEN CONNECTION CABINET SHORE POWER	1	30	32
	33	20	1	GENERATOR VENTILATION CONTROL PANEL	-		-		-	TEMP GEN CONNECTION CABINET SHORE POWER	1	30	34
	35	20	1	4.16kV SE SWGR ENCL HEATERS		-		-	-	TEMP GEN CONNECTION CABINET SHORE POWER	1	20	36
	37	20	1	4.16kV GEN CONNECTION CABINET ENCL HEATERS	-		-		-	SPARE	1	20	38
	39	15	1	SPARE		-		-	-	SPARE	1	15	40
	41	15	1	SPARE	-		-		-	SPARE	1	15	42

125 AMP MCB. 120/240V-1Ø-3W. 42 CKT, 10kA
BOTTOM FEED

EXISTING PANELBOARD WEST SCHEDULE (ELEC RM)

CKT NO	AMPS	POLES	LOAD	VOLT-AMPERES			VOLT-AMPERES			LOAD	POLES	AMPS	CKT NO
				ØA	ØB	ØC	ØA	ØB	ØC				
2	1	30	1	UNKNOWN LOAD	-		-		-	PUMPROOM RECPTS, MU METER, BSMT SP ALARM, DDC PUMP CNTRL CKT FOR BLR & DIST PUMPS	1	30	2
	3	15	1	LIGHT - WATER CEMISTRY CABINET		-		-		BOILER CONTROL PANEL LIGHTS & ANNUNCIATOR	1	30	4
2	5	30	1	LIGHTS - N. OF ID FANS & BLUERROOM RECPTS			-		-	2ND FLR RECPT - E. W. MIDDLE & PAINT STORAGE & AHU DDC COMMUNICATIONS	1	30	6
2	7	30	1	LIGHTS - N & E BASEMENT & N. RECPTS	-			-		OUTLETS COMP. RM BSMT (AIR DRYER)	1	30	8
	9	-	1	PORTABLE GENERATOR RECEPT		-		-		RECPTS - BASEMENT UNDER BOILERS	1	30	10
	11	-	1	PORTABLE GENERATOR RECPT - BATT CHARGER			-		-	SPARE	1	30	12
2	13	30	1	LITES - N. MIDDLE, W OF BLRS & S BSMT, DRILL PRESS	-			-		LIGHTS - ABOVE FRONT OF BOILERS 1 & 2	1	20	14
	15	-	1	SPARE		-		-		LIGHTS - STAIRWAY IN FRONT OF BLR 1, CENTER STAIRWAY	1	30	16
2	17	30	1	UNKNOWN LOAD			-		-	LIGHTS - MIDDLE ELECTRIC ROOM	1	30	18
	19	20	1	LIGHTS - SOUTH PUMP ROOM	-			-		LIGHTS - N & S ELECTRIC ROOM	1	30	20
2	21	30	1	LIGHTS - NORTH PUMP ROOM		-		-		UNKNOWN LOAD	1	20	22
	23	20	1	LIGHTS - OFFICE/KITCHEN/ENTRANCE			-		-	MAKEUP PUMP METER	1	30	24

200 AMP MLO. 208Y/120V-3Ø-4W. 24 CKT, ??kA/8
FRANK ADAM ELECTRIC PLUG FUSED PNLD

EXISTING LOAD CENTER NEW 1 SCHEDULE (ELEC RM)

CKT NO	AMPS	POLES	LOAD	VOLT-AMPERES			VOLT-AMPERES			LOAD	POLES	AMPS	CKT NO
				ØA	ØB	ØC	ØA	ØB	ØC				
	1	20	1	ANTENNA #3 RECPT	-		-		-	ANTENNA ROOM SPARE	1	20	2
	3	20	1	ANTENNA #2 RECPT		-		-	-	ANTENNA ROOM SPARE	1	20	4
	5	20	1	ANTENNA #1 RECPT			-		-	ANTENNA #4 RECPT	1	20	6
	7	20	1	AMEREN GAS METER	-		-		-	UNKNOWN LOAD	1	20	8
4	9	20	1	FIRE ALARM		-		-	-	UNKNOWN LOAD	1	20	10
	11						-		-				12
	13	30	2	A/C RADIO ROOM	-		-		-	OFFICE A/C-HEAT PUMP	2	30	14
	15	-	-	-		-		-	-	-	-	-	16
	17	-	-	-		-		-	-	-	-	-	18
	19	-	-	-		-		-	-	-	-	-	20
	21	-	-	-		-		-	-	-	-	-	22
	23	-	-	-		-		-	-	-	-	-	24
	25	-	-	-		-		-	-	-	-	-	26
	27	-	-	-		-		-	-	-	-	-	28
	29	-	-	-		-		-	-	-	-	-	30
	31	-	-	-		-		-	-	-	-	-	32
	33	-	-	-		-		-	-	-	-	-	34
	35	-	-	-		-		-	-	-	-	-	36
	37	-	-	-		-		-	-	-	-	-	38
	39	-	-	-		-		-	-	-	-	-	40
	41	-	-	-		-		-	-	-	-	-	42

200 AMP MCB. 208Y/120V-3Ø-4W. 42 CKT, 10kA
SQUARE D QO LOAD CENTER

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2026

ROGERS-SCHMIDT
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MISSOURI STATE CERTIFICATE
OF AUTHORITY #000408

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
CORRECTIONS

UPGRADE GENERATOR
CONTROLS & TRANSFER
SWITCH, POWER PLANT

MOBERLY CORRECTIONAL
CENTER
5201 SOUTH MORLEY ST.
MOBERLY, MO 65270

PROJECT # C1920-01

SITE # 7005

ASSET # 9327005051

REVISION: _____
DATE: _____
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DATE: _____

ISSUE DATE: 09/22/2025

CAD DWG FILE: C1920-01-7005-
9327005051-E-604.DWG
DRAWN BY: KET/MNS
CHECKED BY: BDF
DESIGNED BY: BDF

SHEET TITLE:

PANELBOARD
SCHEDULES

SHEET NUMBER:

E-604

28 OF 28 SHEETS
SEPTEMBER 22, 2025