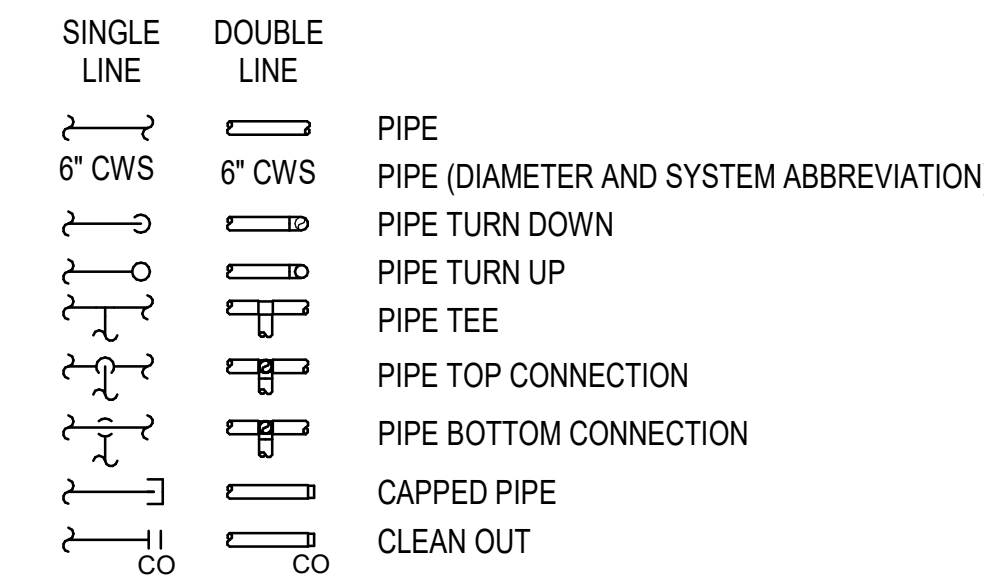


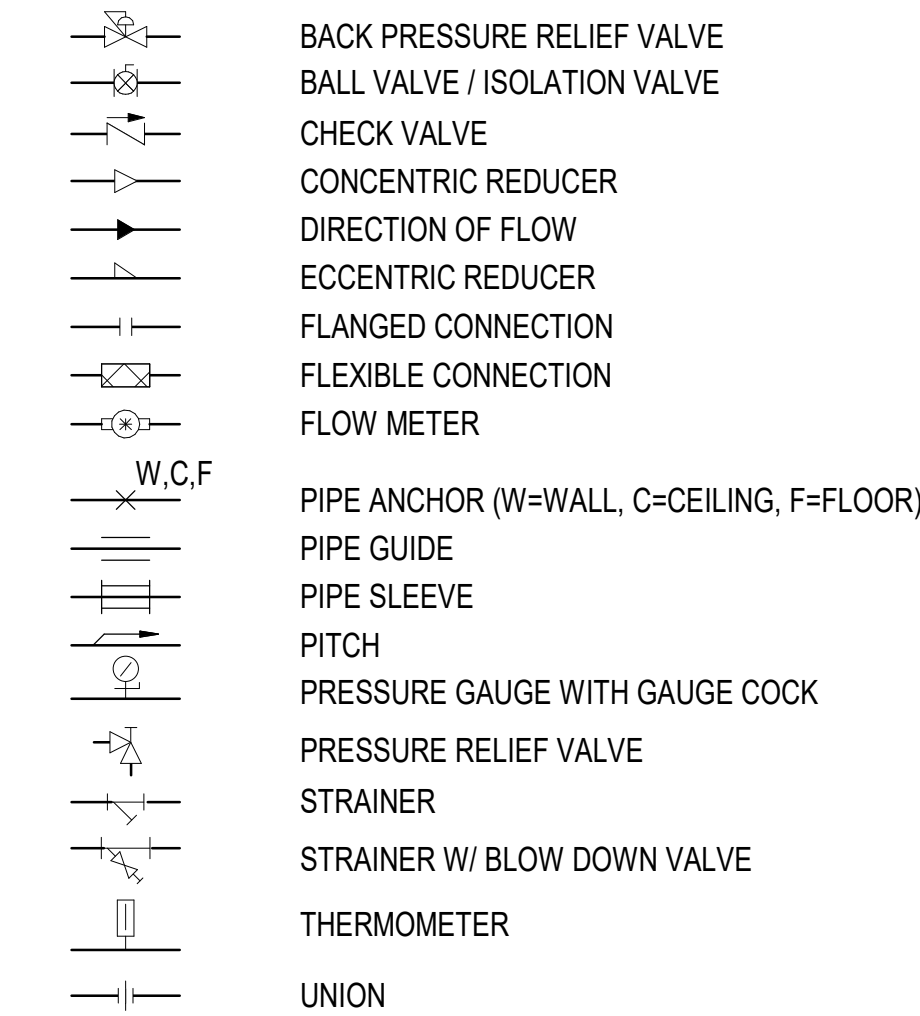
GENERAL

- ① DEMOLITION NOTE IDENTIFICATION
- 1 CONSTRUCTION NOTE IDENTIFICATION
- INDICATES EXISTING ITEM
- INDICATES NEW ITEM
- - - INDICATES FUTURE ITEM
- - - - - INDICATES DEMOLITION ITEM
- ⬢ REMOVE TO THIS POINT
- ⊕ CONNECT NEW TO EXISTING

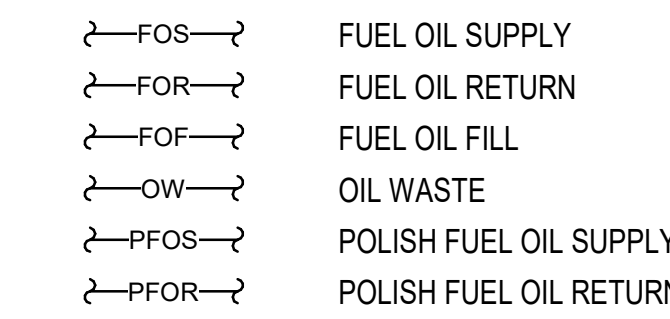
PIPING



VALVES AND PIPING ACCESSORIES



PIPING SYSTEM ABBREVIATIONS



ABBREVIATIONS

- AD ACCESS DOOR
- ADJ ADJUSTABLE
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- ALT ALTERNATE
- APPROX APPROXIMATE
- ARCH ARCHITECTURAL
- AVG AVERAGE
- BFF BELOW FINISHED FLOOR
- BFG BELOW FINISHED GRADE
- BFP BACKFLOW PREVENTER
- BLDG BUILDING
- BTU BRITISH THERMAL UNIT
- BTUH BTU PER HOUR
- CFM CUBIC FEET PER MINUTE
- CL CENTERLINE
- CONT CONTINUATION
- DDC DIRECT DIGITAL CONTROL
- DEG DEGREE
- DIA DIAMETER
- DP DIFFERENTIAL PRESSURE
- DWG DRAWING
- ENT ENTERING
- EX EXISTING
- EXR EXISTING TO REMAIN
- FFE FINISHED FLOOR ELEVATION
- FOF FUEL OIL FILL
- FOR FUEL OIL RETURN
- FOS FUEL OIL SUPPLY
- FPM FEET PER MINUTE
- FT FEET
- GA GAUGE
- GAL GALLON
- GALV GALVANIZED
- GPM GALLONS PER MINUTE
- HP HORSEPOWER
- HR HOUR
- IFC INTERNATIONAL FIRE CODE
- IN INCH
- IN WC INCHES WATER COLUMN
- LB POUND
- LBS POUNDS
- LVG LEAVING
- MAX MAXIMUM
- MBH BTUH, THOUSANDS
- MIN MINIMUM
- MISC MISCELLANEOUS
- MWA MACON WATER AUTHORITY
- NA NOT APPLICABLE
- NC NORMALLY CLOSED
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- NIC NOT IN CONTRACT
- NO NORMALLY OPEN
- NTS NOT TO SCALE
- OFCI OWNER FURNISHED CONTRACTOR INSTALLED
- OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
- OW OIL WASTE
- P&ID PIPING & INSTRUMENTATION DIAGRAM
- PFOR POLISHING FUEL OIL RETURN
- PFOS POLISHING FUEL OIL SUPPLY
- PRV PRESSURE REDUCING VALVE
- PSI POUNDS PER SQUARE INCH
- REX REMOVE EXISTING
- RM ROOM
- RPM REVOLUTIONS PER MINUTE
- SQFT SQUARE FEET
- TDH TOTAL DYNAMIC HEAD
- TEMP TEMPERATURE
- TYP TYPICAL
- UON UNLESS OTHERWISE NOTED
- VFD VARIABLE FREQUENCY DRIVE
- W WITH
- W/O WITHOUT

**NOTE:**  
 GENERATOR FUEL SYSTEM IS CRITICAL FOR PLANT OPERATIONS. TO PREVENT SERVICE INTERRUPTION, CONTRACTOR SHALL INSTALL NEW SYSTEM AND MAKE OPERATIONAL BEFORE REMOVAL OF EXISTING SYSTEM. OUTAGE FOR FINAL SWAPOVER SHALL BE COORDINATED WITH MWA AND ENGINEER.

GENERAL NOTES

1. GENERAL NOTES ON THIS DRAWING ARE APPLICABLE TO EACH DRAWING OF THIS SET. NOTES SPECIFIC TO INDIVIDUAL DRAWINGS WILL BE SHOWN ON THE RESPECTIVE DRAWING.
2. CONFORM WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS OF MUNICIPAL, STATE AND FEDERAL AUTHORITIES.
3. CONFORM TO APPLICABLE ASHRAE, NFPA, AND SMACNA STANDARDS AND OTHER REGULATORY BODIES HAVING JURISDICTION OVER THE CLASS OF WORK.
4. MATERIALS AND EQUIPMENT SHALL HAVE STAMPS OR SEALS OF ARI, ASME, UL, AND ASTM.
5. MAKE TESTS FOR ACCEPTANCE AND APPROVAL AS REQUIRED BY THE SPECIFICATIONS, CODE, AND REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES. REQUIRED TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE UNLESS OTHERWISE WAIVED IN WRITING.
6. OBTAIN AND PAY FOR ALL PERMITS, LICENSES, DOCUMENTS, AND SERVICES RELATED TO INSTALLATION OF THE WORK.
7. COORDINATE WORK WITH THE OTHER TRADES IN ORDER TO RESOLVE ANY CONFLICT THAT MIGHT ARISE DUE TO THE LOCATION OF EQUIPMENT OR THE USE OF SPACE.
8. EQUIPMENT OF HIGHER ELECTRICAL CHARACTERISTICS MAY BE SUBSTITUTED PROVIDED SUCH PROPOSED EQUIPMENT IS APPROVED IN WRITING AND CONNECTING ELECTRICAL SERVICE, CIRCUIT BREAKERS AND CONDUIT SIZES ARE APPROPRIATELY MODIFIED AT NO COST TO THE OWNER.
9. CUT OPENINGS, AS REQUIRED, IN THE EXISTING CONSTRUCTION FOR THE INSTALLATION OF PIPING AND EQUIPMENT. PATCH AND REPAIR TO MATCH THE EXISTING ADJACENT CONSTRUCTION. DO NOT CUT ANY STRUCTURAL MEMBER WITHOUT APPROVAL OF STRUCTURAL ENGINEER.
10. LAYOUT OF PIPING AND DUCTWORK IS DIAGRAMMATIC. RUN ALL EXPOSED PIPING AND DUCTWORK AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED. ALLOW FOR RISES, DROPS AND OFFSETS AS REQUIRED.
11. INSTALL MECHANICAL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH A MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS. PIPING SHALL NOT INTERFERE WITH FILTER PULL. MAINTAIN EQUIPMENT MANUFACTURER'S RECOMMENDED MINIMUM SERVICE CLEARANCE.
12. ALL VALVES ARE FULL LINE SIZE. SIZE CONTROL VALVES TO OPERATE ACROSS THE FULL RANGE OF FLOW.
13. LOCATE CONCRETE HOUSEKEEPING PADS AND CURBS IN ACCORDANCE WITH ACTUAL EQUIPMENT PURCHASED. EXTEND PAD BEYOND EQUIPMENT FOR 6" IN ALL DIRECTIONS.
14. ALL EQUIPMENT REMOVED FROM THE BUILDING, DURING DEMOLITION, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE NOTED.
15. EXISTING PIPE AND EQUIPMENT SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. FIELD VERIFY ALL EXISTING PIPE AND EQUIPMENT SIZES AND THEIR RESPECTIVE LOCATIONS BEFORE PROCEEDING WITH ANY ASSOCIATED WORK.
16. PRIOR TO SUBMITTING A PROPOSAL, THE CONTRACTOR IS STRONGLY ENCOURAGED TO VISIT THE SITE AND THOROUGHLY INSPECT ALL EXISTING CONDITIONS TO ENSURE THAT THE WORK REPRESENTED ON THE DRAWINGS CAN BE INSTALLED AS INDICATED.
17. REFER TO ELECTRICAL DRAWINGS FOR VOLTAGE AND PHASE REQUIREMENTS FOR ALL EQUIPMENT REQUIRING AN ELECTRICAL CONNECTION.
18. COORDINATE PIPING WITH ELECTRICAL PANELS AND EQUIPMENT. RUN PLUMBING PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCH GEAR, SIMILAR ELECTRICAL EQUIPMENT, COMMUNICATION (IT) ROOMS, STAIR WELLS, IN ELEVATOR SHAFTS, OR ELEVATOR EQUIPMENT ROOMS.
19. COORDINATE PIPE ROUTING WITH DUCT ROUTING, EQUIPMENT LOCATIONS, ELECTRICAL INSTALLATIONS, AND BUILDING STRUCTURAL MEMBERS. OFFSET PIPING WHERE REQUIRED TO AVOID CONFLICTS. AVOID PENETRATING ANY MAIN STRUCTURAL BEAM. NOTIFY CONSTRUCTION MANAGER / OWNER OF ANY CONFLICTS.
20. VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT, PIPING, FIXTURES, ETC.
21. CONTRACTOR SHALL SCHEDULE, PLAN, AND OBTAIN MWA APPROVAL FOR ALL WORK ACTIVITIES. NO FUEL OR OTHER UTILITY OUTAGES ARE ALLOWED WITHOUT MWA APPROVAL.

AMERSON WATER TREATMENT PLANT GENERATOR FUEL SYSTEM REPLACEMENT

703 RIVERBEND RD, MACON, GA 31211



DESIGNER



CLARK NEXSEN A JMT Company

3920 ARKWRIGHT ROAD SUITE 385  
MACON, GEORGIA 31210  
478-743-8415

PROFESSIONAL SEAL



SUBMITTAL

6/1/2026

ISSUE FOR CONSTRUCTION

REVISIONS

KEY PLAN

SHEET INDUSTRIAL LEGEND

D-001

DESIGN: DKB  
DRAWN: RBP  
REVIEW: RWC

CN 10709-100

**AMERSON WATER  
GENERATOR FUEL  
SYSTEM REPLACEMENT**

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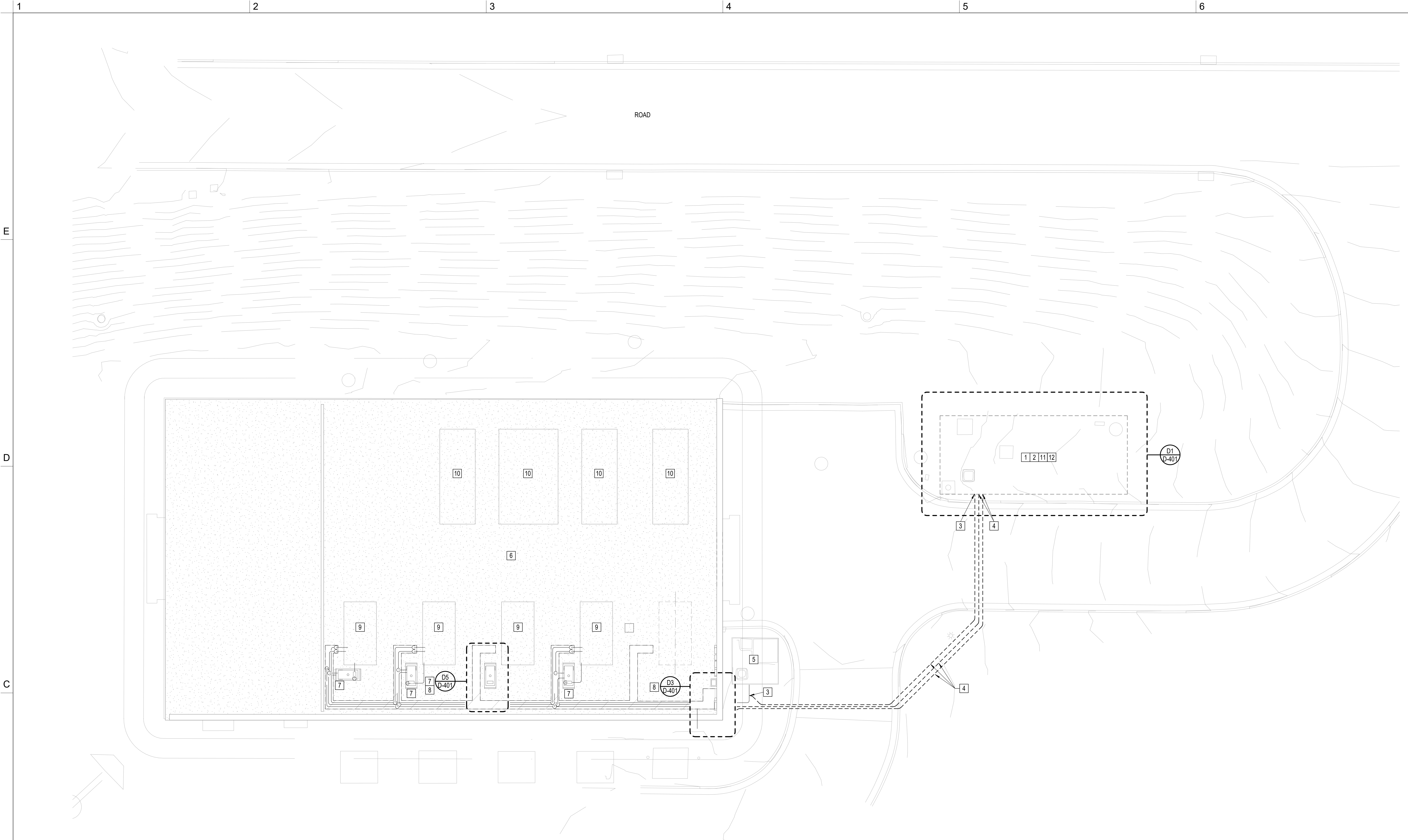
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SUBMITTAL  
6/1/2026  
ISSUE FOR CONSTRUCTION

REVISIONS

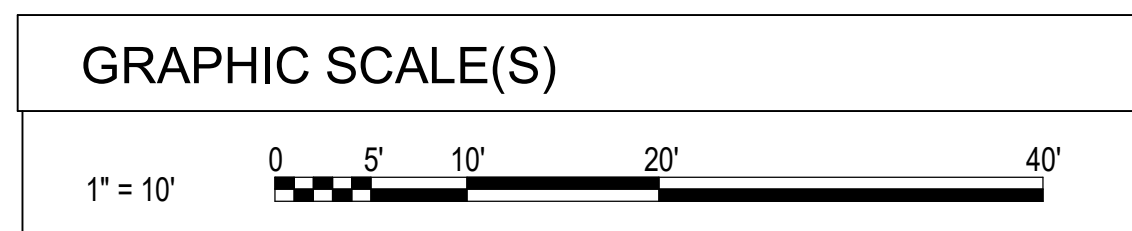
NO.	DESCRIPTION

KEY PLAN



**B1 PIPING DEMOLITION PLAN**  
SCALE: 1" = 10'-0"

GENERAL NOTES	KEY NOTES	KEY NOTES CONT'D
A. REFER TO SHEET D-001 FOR GENERAL NOTES.	<p>1 DECOMMISSION AND REMOVE SUMP PUMP, FUEL SUPPLY PUMPS, AND ALL ASSOCIATED APPURTENANCES WITHIN EXISTING FUEL OIL STORAGE VAULT. ONLY AFTER ALL NEW TANKS, PIPE, AND EQUIPMENT HAVE BEEN INSTALLED, TESTED, APPROVED, AND PLACED ON-LINE.</p> <p>2 REMOVE EXISING 20,000 GALLON TANK AND BACKFILL VAULT WITH M10 SCREENINGS. COMPACT SCREENINGS AND REPLACE CONCRETE VAULT LID. REPLACE SOIL, SOD, AND RESTORE SITE TO LIKE CONDITION. ONLY AFTER ALL NEW TANKS, PIPE, AND EQUIPMENT HAVE BEEN INSTALLED, TESTED, APPROVED, AND PLACED ON-LINE.</p> <p>3 DRAIN, CUT, AND CAP BOTH ENDS OF EXISTING SUMP PUMP WASTE PIPING. ABANDON PIPING IN PLACE. CAP EXISTING TEE IN WASTE OIL PIPE. ONLY AFTER ALL NEW TANKS, PIPE, AND EQUIPMENT HAVE BEEN INSTALLED, TESTED, APPROVED, AND PLACED ON-LINE. WASTE OIL PIPE FROM BUILDING TO REMAIN. CAP SECONDARY CONTAINMENT PIPE AND TEST TO ENSURE AIR TIGHT.</p> <p>4 DRAIN, CUT, AND CAP BOTH ENDS OF EXISTING FOS AND FOR DOUBLE WALL PIPING. ABANDON PIPING IN PLACE BELOW ASPHALT ROADWAY. ONLY AFTER ALL NEW TANKS, PIPE, AND EQUIPMENT HAVE BEEN INSTALLED, TESTED, APPROVED, AND PLACED ON-LINE.</p> <p>5 EXISTING WASTE STORAGE TANK IN UNDERGROUND VAULT.</p> <p>6 GENERATOR / BOOSTER PUMP BUILDING.</p>	<p>7 REFER TO ENLARGED PLAN FOR DEMOLITION REQUIREMENTS FOR EACH OF (4) DAY TANKS. PIPING ARRANGEMENT IS SIMILAR AT EACH TANK.</p> <p>8 REFER TO ENLARGED PLAN FOR DEMOLITION AND TIE-IN REQUIREMENTS TO PROVIDE PARALLEL OPERATION UNTIL NEW TANKS AND EQUIPMENT ARE INSTALLED, TESTED, APPROVED, AND ON-LINE.</p> <p>9 FULL LOAD GENERATOR FUEL CONSUMPTION IS 116 GALLONS PER HOUR (GPH).</p> <p>10 ELECTRICAL GEAR.</p> <p>11 REMOVE AND DISCARD FUEL OIL STORAGE TANK PER NFPA AND IFC REQUIREMENTS.</p> <p>12 SIPHON AND TEMPORARILY STORE FUEL FROM EXISTING TANK BEFORE REMOVAL. AFTER INSTALLATION, TRANSFER FUEL TO NEW STORAGE TANKS.</p>



SHEET  
DEMOLITION SITE PLAN

**DD101**

DESIGN: DKB  
DRAWN: RBP  
REVIEW: RWC  
CN 10709-100

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**AMERSON WATER  
GENERATOR FUEL  
SYSTEM REPLACEMENT**

703 RIVERBEND RD, MACON, GA 31211



DESIGNER  
**CLARK NEXSEN**  
A JMT Company  
3920 ARKWRIGHT ROAD SUITE 385  
MACON, GEORGIA 31210  
478-743-8415

PROFESSIONAL SEAL



SUBMITTAL

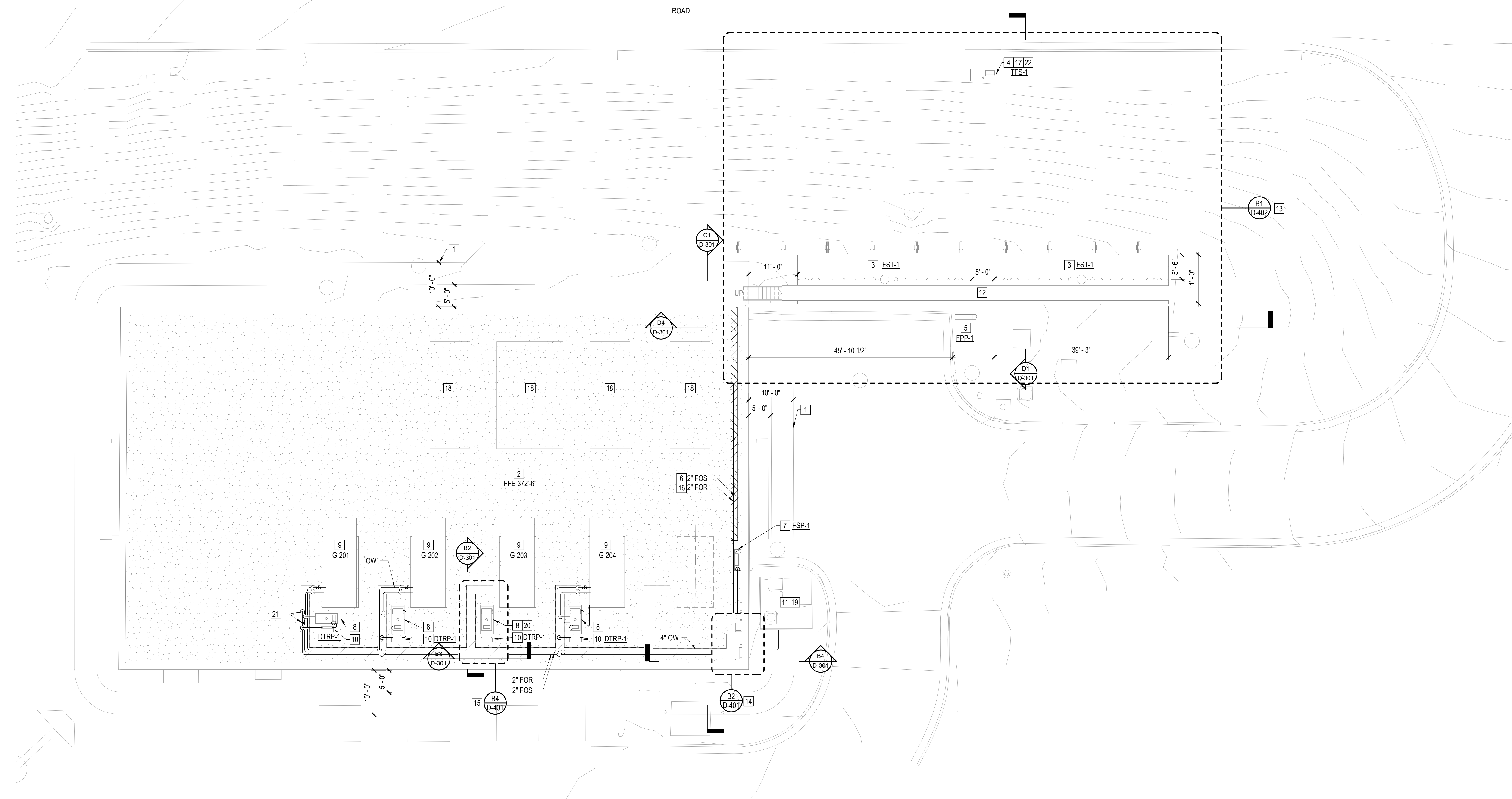
6/1/2026

ISSUE FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION

KEY PLAN



**B1 FUEL PIPING SITE PLAN**  
SCALE: 1" = 10'-0"

**GENERAL NOTES**

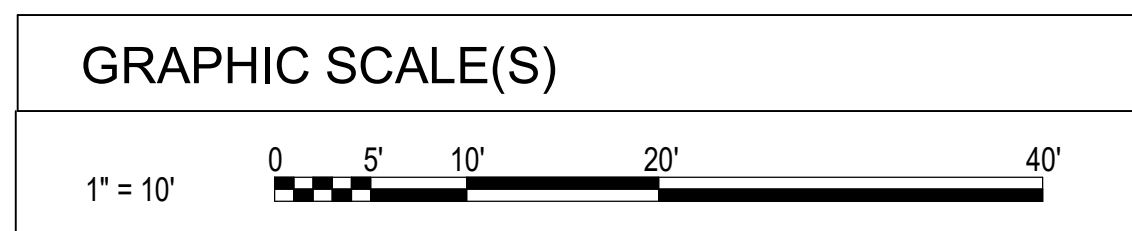
A. REFER TO SHEET D-001 FOR GENERAL NOTES.

**KEY NOTES**

- 1 10' BOUNDARY AROUND GENERATOR / BOOSTER PUMP BUILDING. 5' ABSOLUTE MINIMUM DISTANCE. FUEL STORAGE TANK MUST NOT BE WITHIN BOUNDARY.
- 2 GENERATOR / BOOSTER PUMP BUILDING.
- 3 25,000 GAL HORIZONTAL FUEL STORAGE TANK. TWO TANKS REQUIRED FOR TOTAL OF 50,000 GALLONS STORAGE CAPACITY.
- 4 REMOTE FILL STATION. SEE CIVIL AND STRUCTURAL DRAWINGS FOR ROADWAY MODIFICATIONS. SEE STRUCTURAL DRAWINGS FOR CONCRETE PAD AND BOLLARDS.
- 5 FUEL POLISHING SYSTEM.
- 6 FIELD ROUTE PIPING INDOORS. MINIMUM PIPE ELEVATION OF 16'-0" AFF INSIDE BUILDING REQUIRED TO CLEAR ROLL-UP DOOR.
- 7 FUEL DELIVERY PUMP.
- 8 EXISTING DAY TANK.
- 9 FULL LOAD GENERATOR FUEL CONSUMPTION IS 116 GALLONS PER HOUR (GPH).
- 10 DAY TANK RETURN PUMP.
- 11 EXISTING WASTE STORAGE TANK IN UNDERGROUND VAULT.
- 12 MAINTENANCE PLATFORM WITH STAIR ACCESS RUNNING FULL LENGTH OF FUEL STORAGE TANKS. STAIRS AND PLATFORM ARE TANK MANUFACTURER SUPPLIED, CONTRACTOR INSTALLED.

**KEY NOTES CONT'D**

- 13 REFER TO ENLARGED PLAN FOR FUEL STORAGE TANK PIPING ARRANGEMENT.
- 14 REFER TO ENLARGED PLAN FOR PIPE TIE-INS IN SOUTHEAST CORNER OF BUILDING.
- 15 REFER TO ENLARGED PLAN FOR DAY TANK PIPING ARRANGEMENT (TYPICAL FOR EACH OF 4 DAY TANKS).
- 16 INSTALL 6" STEEL CASING AND CASING SPACERS ON FUEL OIL SUPPLY AND FUEL OIL RETURN PIPING. CASING SHALL SPAN FROM EXTERIOR WALL TO BEYOND ROLL UP DOOR. SEAL OUTSIDE END OF CASING WITH LINK SEAL. INTERIOR END TO REMAIN OPEN.
- 17 CONCRETE PAD FOR FILL STATION. SEE STRUCTURAL.
- 18 ELECTRICAL GEAR.
- 19 SEE CONTROLS DRAWINGS. ADD TANK LEVEL AND MOISTURE SENSOR TO WASTE OIL TANK AND VAULT.
- 20 RELOCATE 4" EXISTING DAY TANK EMERGENCY VENTS OUTSIDE OF BUILDING PER NFPA AND IFC REQUIREMENTS (TYPICAL FOR EACH OF 4 DAY TANKS).
- 21 CONNECT FOS AND FOR LINE AT END OF TRENCH. INSTALL BACK PRESSURE RELIEF VALVE ON FOS LINE.
- 22 INCLUDE SIGNAGE IN COMPLIANCE WITH NFPA REQUIREMENTS FOR REMOTE FILL STATION.



SHEET  
**FUEL PIPING SITE PLAN**

**DP101**

DESIGN: DKB  
DRAWN: RBP  
REVIEW: RWC  
CN 10709-100

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**AMERSON WATER  
TREATMENT PLANT  
GENERATOR FUEL  
SYSTEM REPLACEMENT**

703 RIVERBEND RD, MACON, GA 31211



DESIGNER  
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MACON, GEORGIA 31210  
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PROFESSIONAL SEAL



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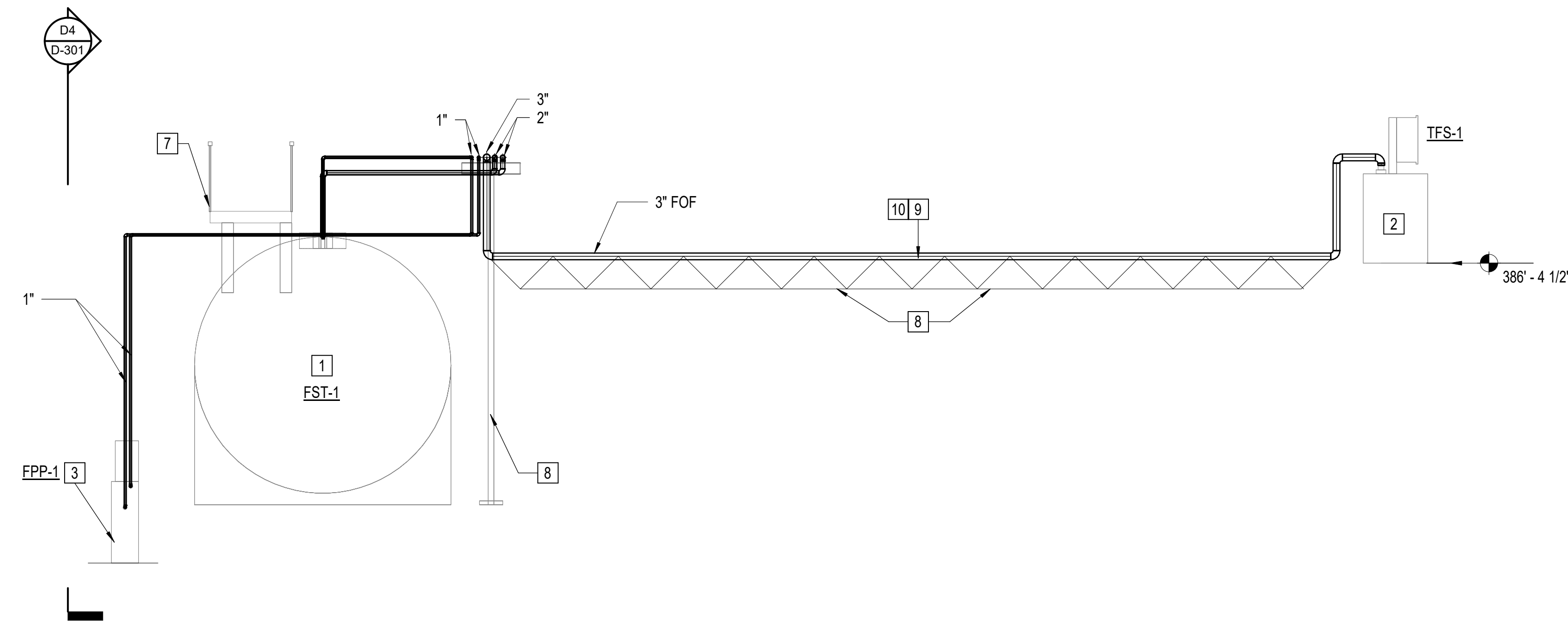
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KEY PLAN

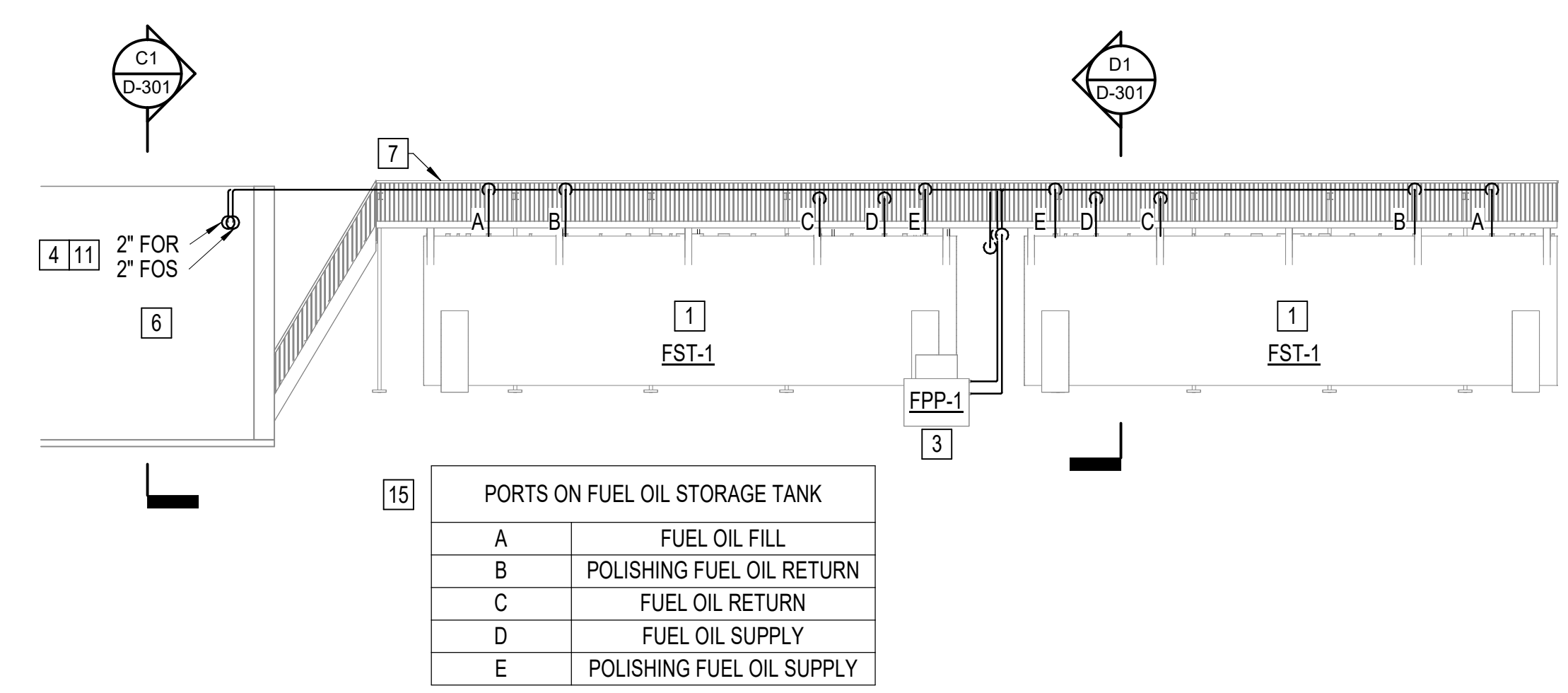
SHEET  
SECTIONS

**D-301**

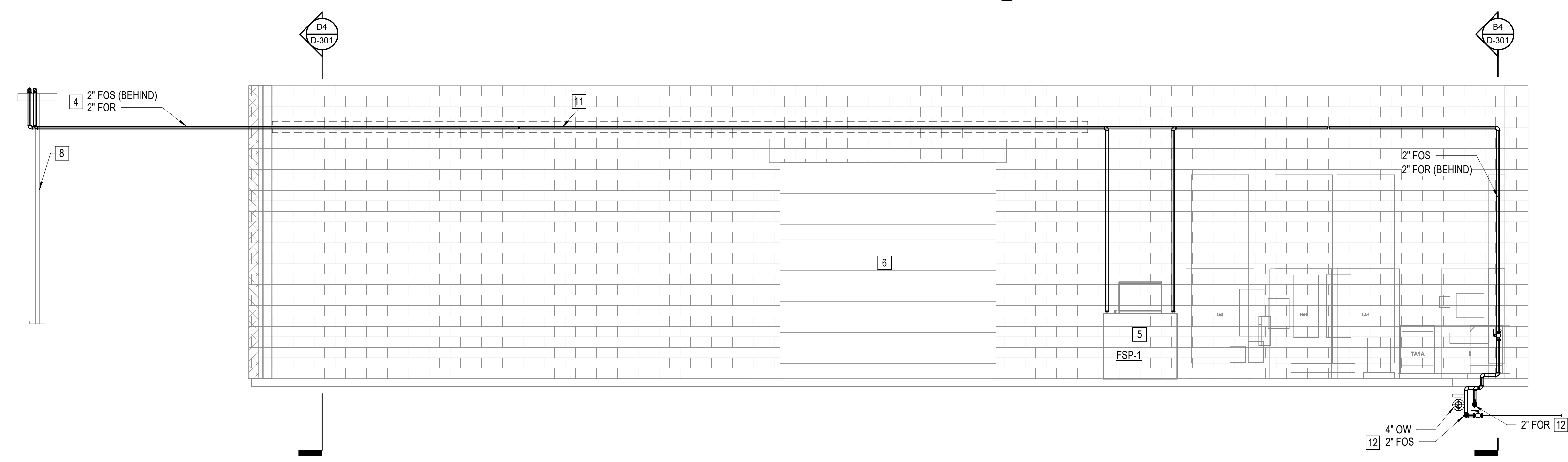
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CN 10709-100



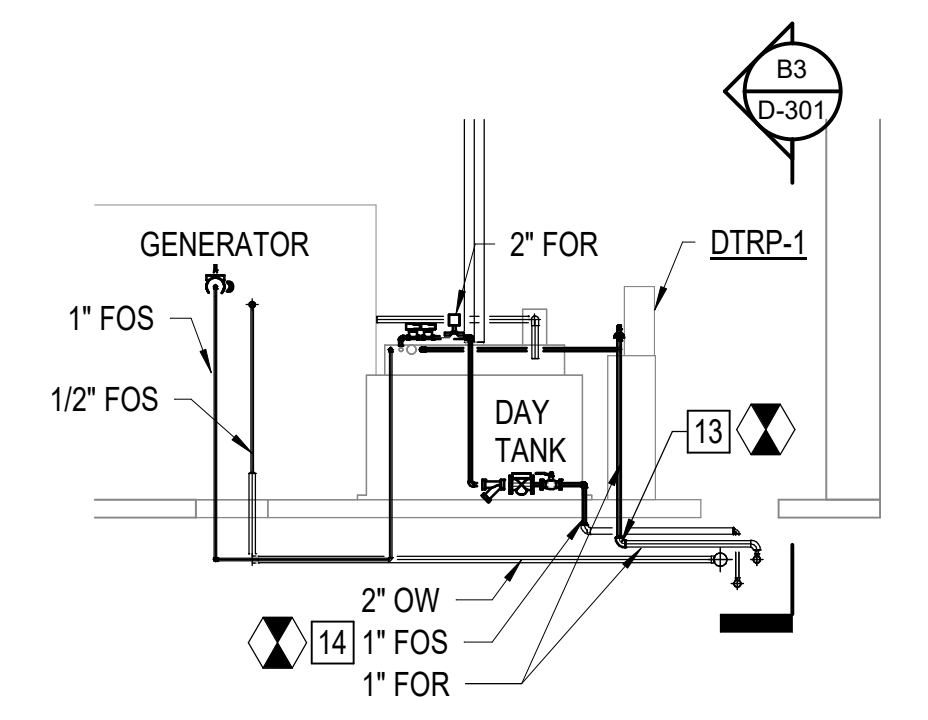
**D1 FST-1 AND TFS-1 PIPING**  
SCALE: 1/4" = 1'-0" D-301



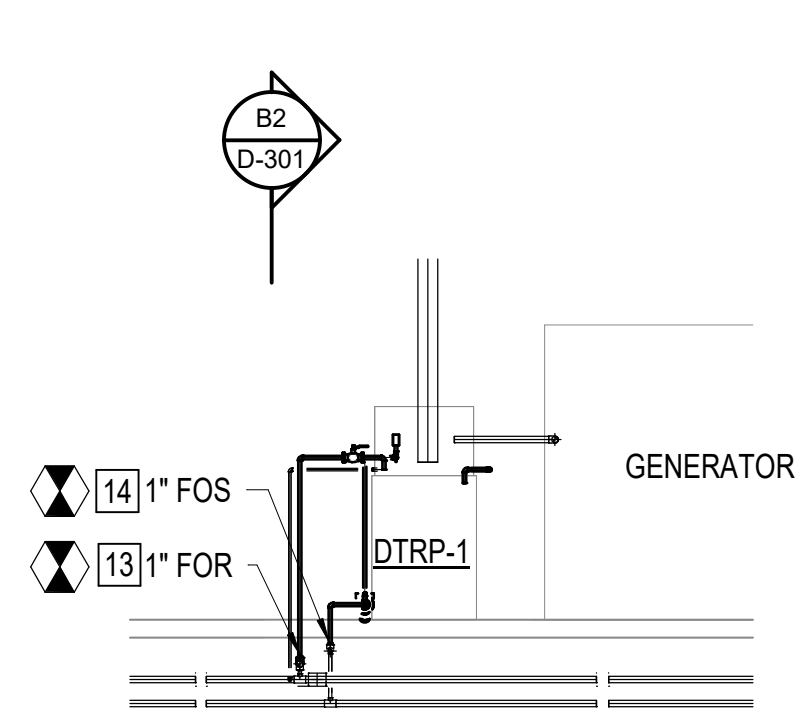
**D4 FST-1 PIPING**  
SCALE: 1" = 10'-0" D-301



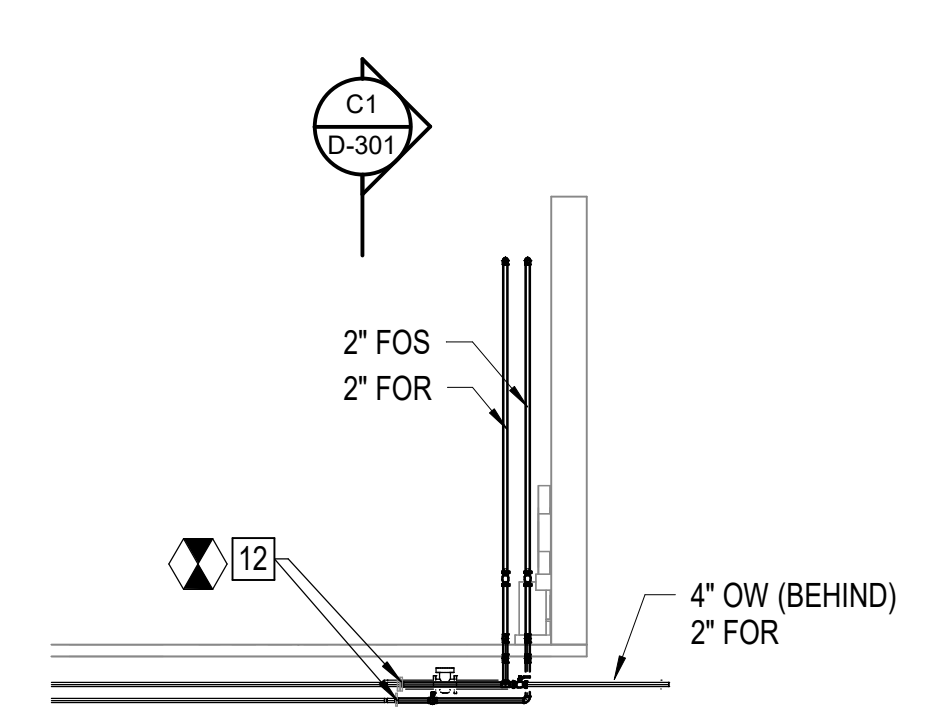
**C1 PIPING IN GENERATOR BUILDING**  
SCALE: 1/4" = 1'-0" D-301



**B2 TYPICAL DAY TANK ARRANGEMENT - 1**  
SCALE: 3/16" = 1'-0" D-301



**B3 TYPICAL DAY TANK ARRANGEMENT - 2**  
SCALE: 3/16" = 1'-0" D-301



**B4 PIPING TIE-INS**  
SCALE: 1/8" = 1'-0" D-301

**GENERAL NOTES**

A. REFER TO SHEET D-001 FOR GENERAL NOTES.

**KEY NOTES**

- 25,000 GAL HORIZONTAL FUEL STORAGE TANK. TWO TANKS REQUIRED FOR TOTAL OF 50,000 GALLONS STORAGE CAPACITY.
- REMOTE FILL STATION. SEE CIVIL AND STRUCTURAL DRAWINGS FOR ROADWAY MODIFICATIONS. SEE STRUCTURAL DRAWINGS FOR CONCRETE PAD AND BOLLARDS.
- FUEL POLISHING SYSTEM.
- FIELD ROUTE PIPING INDOORS. MINIMUM PIPE ELEVATION OF 16'-0" AFF INSIDE BUILDING REQUIRED TO CLEAR ROLL-UP DOOR.
- FUEL DELIVERY PUMP.
- GENERATOR / BOOSTER PUMP BUILDING.
- MAINTENANCE PLATFORM WITH STAIR ACCESS RUNNING FULL LENGTH OF FUEL STORAGE TANKS. STAIRS AND PLATFORM ARE TANK MANUFACTURER SUPPLIED. CONTRACTOR INSTALLED.
- PIPE SUPPORT. SEE STRUCTURAL DRAWINGS. SUPPORTS MUST NOT BE GREATER THAN 12" FROM ANY 90 DEGREE TURN.
- FST-1 FUEL OIL FILL FROM TFS-1.
- FIELD ROUTE ALL OUTDOOR PIPES AND CONDUIT UNLESS OTHERWISE NOTED.

**KEY NOTES CONT'D**

- INSTALL 6" STEEL CASING AND CASING SPACERS ON FUEL OIL SUPPLY AND FUEL OIL RETURN PIPING. CASING SHALL SPAN FROM EXTERIOR WALL TO BEYOND ROLL UP DOOR. SEAL OUTSIDE END OF CASING WITH LINK SEAL. INTERIOR END TO REMAIN OPEN.
- NEW FOS AND FOR PIPING TO TIE INTO EXISTING AT THIS LOCATION. SEE ENLARGED PLANS ON SHEET D-401. TIE-INS TO BE COORDINATED WITH OWNER AND COMPLETED IN 8-HOUR OUTAGE. ALL SYSTEMS MUST REMAIN OPERATIONAL IN PARALLEL UNTIL SUCH TIME AS NEW WORK AND EQUIPMENT IS INSTALLED, TESTED, APPROVED, AND ON-LINE.
- TIE-IN PIPING FROM DAY TANK RETURN PUMP SKID TO EXISTING FOR LINE.
- TIE-IN PIPING FROM EXISTING FOS TO EXISTING DAY TANK.
- REFER TO SHEET D-701 FOR ALL REQUIRED VALVES AND EQUIPMENT CONNECTIONS.



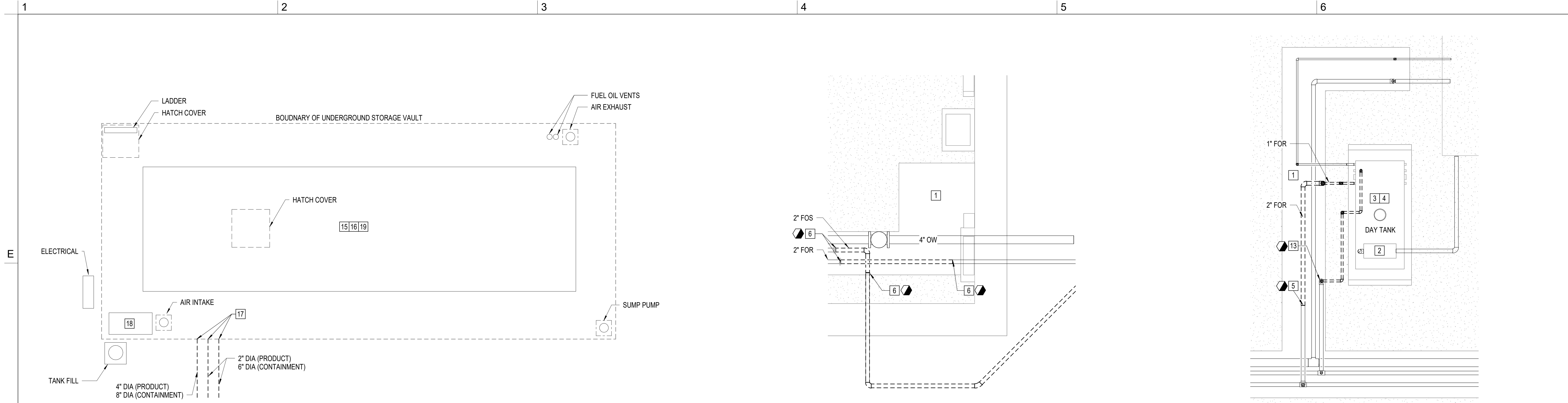
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**AMERSON WATER  
TREATMENT PLANT  
GENERATOR FUEL  
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703 RIVERBEND RD, MACON, GA 31211



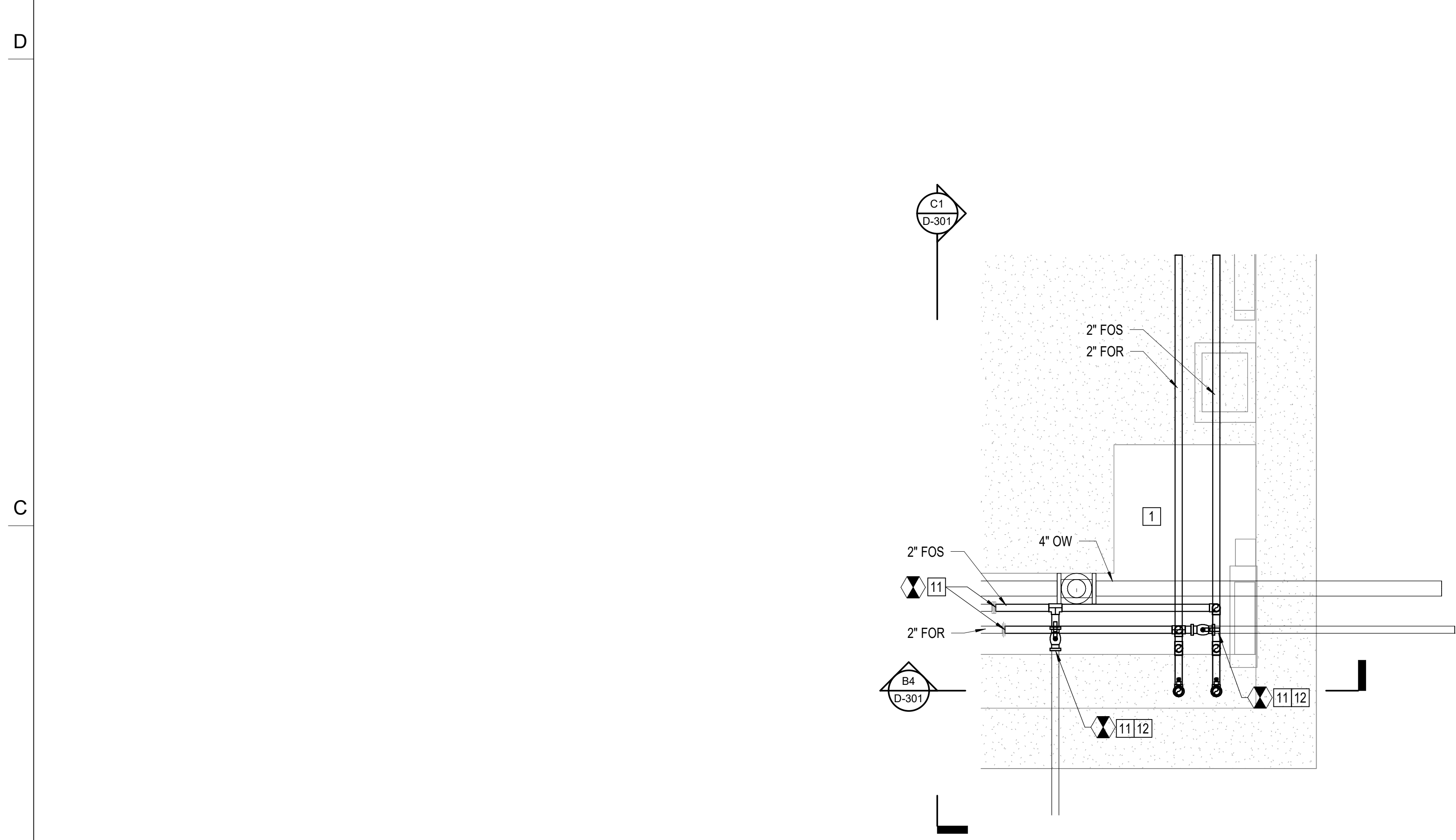
DESIGNER  
**CLARK NEXSEN**  
A JMT Company  
3920 ARKWRIGHT ROAD SUITE 385  
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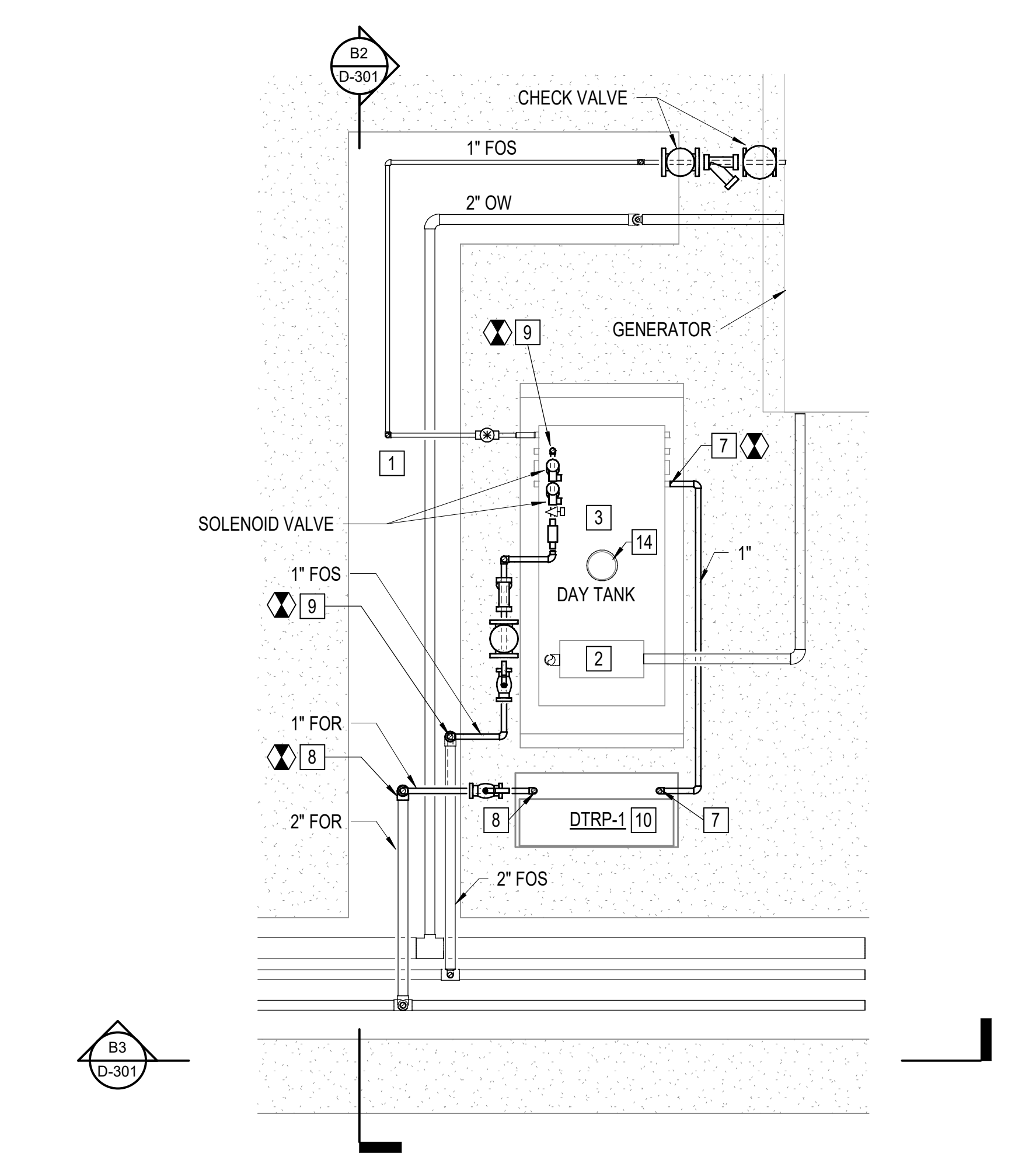
**D1 ENLARGED DEMOLITION - FUEL OIL STORAGE TANK VAULT**  
NOT TO SCALE DD101

**D3 ENLARGED DEMOLITION - FOS / FOR PIPING**  
SCALE: 1/2" = 1'-0" DD101

**D5 ENLARGED DEMOLITION - DAY TANK PIPING**  
SCALE: 1/2" = 1'-0" DD101

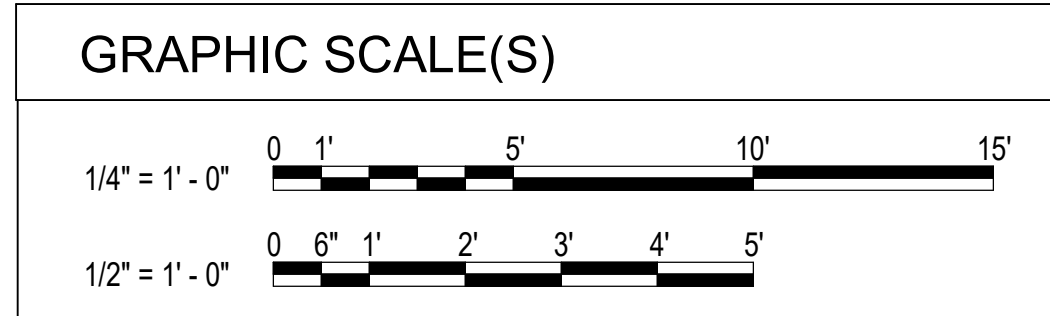


**B2 ENLARGED - PIPE TIE-INS**  
SCALE: 1/2" = 1'-0" DP101



**B4 ENLARGED - TYPICAL DAY TANK PIPING ARRANGEMENT**  
SCALE: 1/2" = 1'-0" DP101

GENERAL NOTES	KEY NOTES	KEY NOTES CONT'D	KEY NOTES CONT'D
A. REFER TO SHEET D-001 FOR GENERAL NOTES.	<ol style="list-style-type: none"> <li>TRENCH CONTAINING FOS, FOR, OW PIPING.</li> <li>DIESEL FUEL OIL COOLER TO REMAIN. TYPICAL FOR 4 DAY TANKS.</li> <li>EXISTING DAY TANK AND RUPTURE TANK TO REMAIN. EXISTING PIPING TO AND FROM GENERATOR TO REMAIN. EXISTING DAY TANK EMERGENCY VENT AND NORMAL VENT TO REMAIN. TYPICAL FOR 4 DAY TANKS.</li> <li>EXISTING DAY TANK CONTROLS AND LEVEL SENSORS TO BE REMOVED AND DISCARDED. TYPICAL FOR 4 DAY TANKS.</li> <li>DRAIN, DISCONNECT, REMOVE, AND DISCARD EXISTING FUEL OIL OVERFLOW RETURN PIPE. TYPICAL FOR 4 DAY TANKS.</li> <li>DRAIN, DISCONNECT, REMOVE, AND DISCARD FOS AND FOR PIPE SECTION TO TIE-IN NEW SYSTEM. EXISTING SYSTEM TO BE RECONNECTED WITH IN-LINE VALVES FOR PARALLEL OPERATION UNTIL NEW SYSTEM IS INSTALLED, TESTED, APPROVED, AND ON-LINE.</li> <li>INSTALL NEW FUEL OIL OVERFLOW PIPE FROM EXISTING DAY TANK AND CONNECT TO DTRP-1. CONNECTION PORT ON EXISTING DAY TANK MUST HAVE INTERNAL DIP TUBE. TYPICAL FOR 4 DAY TANKS.</li> <li>INSTALL NEW FUEL OIL OVERFLOW PIPE FROM DTRP-1 AND CONNECT TO EXISTING FOR PIPE IN TRENCH. NOTCH EXISTING TRENCH COVER TO ALLOW REMOVAL AFTER PIPE IS INSTALLED. TYPICAL FOR 4 DAY TANKS.</li> </ol>	<ol style="list-style-type: none"> <li>INSTALL NEW FUEL OIL SUPPLY PIPING TO INCLUDE BALL VALVE, CHECK VALVE, WYE STRAINER, UNIONS, FLOW GAUGE, NEEDLE VALVE, AND REDUNDANT SOLENOID VALVES. SOLENOID VALVES ARE SUPPLIED BY NEW DAY TANK CONTROLS MANUFACTURER. NEEDLE VALVE MUST BE THROTTLED TO ALLOW 15 GPM FLOW UNDER NORMAL PUMP CONDITIONS. SEE CONTROL AND ELECTRICAL SHEETS. TYPICAL FOR 4 DAY TANKS.</li> <li>INSTALL NEW DAY TANK RETURN PUMP AND CONTROLS SKID IN THIS APPROXIMATE LOCATION. INSTALLATION LOCATION MUST NOT AFFECT TRENCH COVER REMOVAL OR ENCROACH ON ANY MAINTENANCE SPACE REQUIREMENTS FOR ANY EQUIPMENT. TYPICAL FOR 4 DAY TANKS.</li> <li>TIE-IN POINT FOR NEW FOS AND FOR PIPING EXISTING SYSTEM TO BE RECONNECTED WITH IN-LINE VALVES FOR PARALLEL OPERATION UNTIL NEW SYSTEM IS INSTALLED, TESTED, APPROVED, AND ON-LINE.</li> <li>WHEN NEW SYSTEM IS INSTALLED, TESTED, APPROVED, AND ON-LINE, SHUT PARALLEL SYSTEM VALVES OFF, DISCONNECT PIPE BETWEEN VALVE AND TRENCH WALL, AND CAP ORIGINAL FOS AND FOR PIPE AT TRENCH WALL.</li> <li>DRAIN, DISCONNECT, REMOVE, AND DISCARD EXISTING FOS PIPE, VALVE, STRAINER, UNION, AND FITTINGS. TYPICAL FOR 4 DAY TANKS.</li> </ol>	<ol style="list-style-type: none"> <li>RELOCATE 4" EXISTING DAY TANK EMERGENCY VENTS OUTSIDE OF BUILDING PER NFPA AND IFC REQUIREMENTS (TYPICAL FOR EACH OF 4 DAY TANKS).</li> <li>REMOVE AND DISCARD FUEL OIL STORAGE TANK PER NFPA AND IFC REQUIREMENTS.</li> <li>REMOVE EXISTING 20,000 GALLON TANK AND BACKFILL VAULT WITH M10 SCREENINGS. COMPACT SCREENINGS AND REPLACE CONCRETE VAULT LID, REPLACE SOIL, SOD, AND RESTORE SITE TO LIKE CONDITION. ONLY AFTER ALL NEW TANKS, PIPE, AND EQUIPMENT HAVE BEEN INSTALLED, TESTED, APPROVED, AND PLACED ON-LINE.</li> <li>DRAIN, OUT, AND CAP BOTH ENDS OF EXISTING FOS AND FOR DOUBLE WALL PIPING. ABANDON PIPING IN PLACE BELOW ASPHALT ROADWAY. ONLY AFTER ALL NEW TANKS, PIPE, AND EQUIPMENT HAVE BEEN INSTALLED, TESTED, APPROVED, AND PLACED ON-LINE.</li> <li>DECOMMISSION AND REMOVE SUMP PUMP, FUEL SUPPLY PUMPS, AND ALL ASSOCIATED APPURTENANCES WITHIN EXISTING FUEL OIL STORAGE VAULT. ONLY AFTER ALL NEW TANKS, PIPE, AND EQUIPMENT HAVE BEEN INSTALLED, TESTED, APPROVED, AND PLACED ON-LINE.</li> <li>CONFINED SPACE SHALL BE ENTERED ONLY IN ACCORDANCE WITH OSHA AND MWA STANDARDS.</li> </ol>



PROFESSIONAL SEAL

SUBMITTAL  
6/1/2026  
ISSUE FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION

KEY PLAN

SHEET  
**ENLARGED PLANS**

**D-401**

DESIGN: DKB  
DRAWN: RBP  
REVIEW: RWC  
CN 10709-100

5/29/2026 9:46:13 AM C:\rent\Projects\10709\_MWA\_Amerison WTP Gen Fuel System\_LDS\_Ryan\_Parabian.rvt

**AMERSON WATER  
GENERATOR FUEL  
SYSTEM REPLACEMENT**

703 RIVERBEND RD, MACON, GA 31211



DESIGNER  
**CLARK NEXSEN**  
A JMT Company  
3920 ARKWRIGHT ROAD SUITE 385  
MACON, GEORGIA 31210  
478-743-8415

PROFESSIONAL SEAL



SUBMITTAL

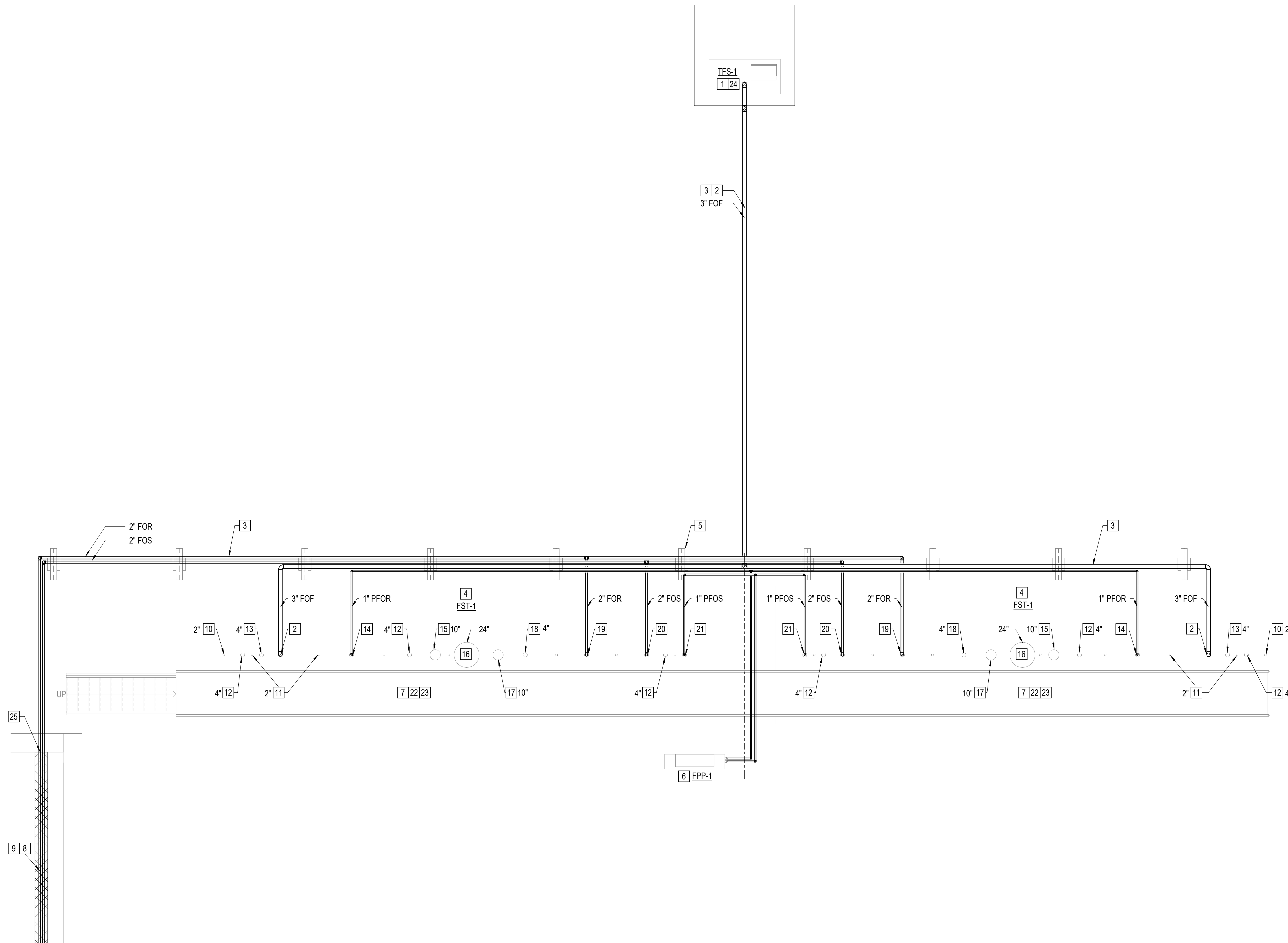
6/1/2026

ISSUE FOR CONSTRUCTION

REVISIONS

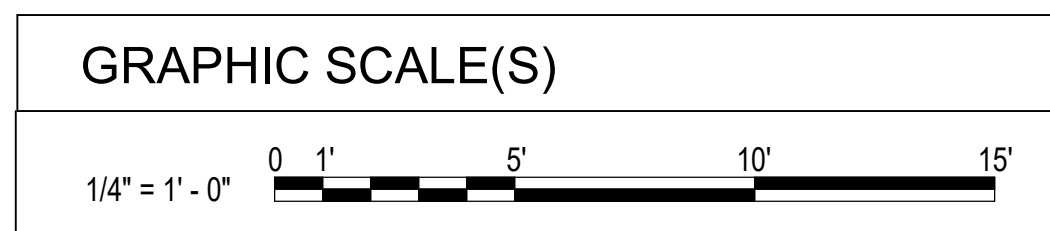
NO.	DESCRIPTION

KEY PLAN



**B1** ENLARGED - FUEL PIPING AT TANKS  
SCALE: 1/4" = 1'-0" DP101

GENERAL NOTES	KEY NOTES	KEY NOTES CONT'D	KEY NOTES CONT'D
A. REFER TO SHEET D-001 FOR GENERAL NOTES.	<p>1 REMOTE FILL STATION. SEE CIVIL AND STRUCTURAL DRAWINGS FOR ROADWAY MODIFICATIONS. SEE STRUCTURAL DRAWINGS FOR CONCRETE PAD AND BOLLARDS.</p> <p>2 FST-1 FUEL OIL FILL FROM TSF-1.</p> <p>3 FIELD ROUTE ALL OUTDOOR PIPES AND CONDUIT UNLESS OTHERWISE NOTED.</p> <p>4 25,000 GAL HORIZONTAL FUEL STORAGE TANK. TWO TANKS REQUIRED FOR TOTAL OF 50,000 GALLONS STORAGE CAPACITY.</p> <p>5 PIPE SUPPORT. SEE STRUCTURAL DRAWINGS. SUPPORTS MUST NOT BE GREATER THAN 12' FROM ANY 90 DEGREE TURN.</p> <p>6 FUEL POLISHING SYSTEM.</p> <p>7 MAINTENANCE PLATFORM WITH STAIR ACCESS RUNNING FULL LENGTH OF FUEL STORAGE TANKS. STAIRS AND PLATFORM ARE TANK MANUFACTURER SUPPLIED. CONTRACTOR INSTALLED.</p> <p>8 FIELD ROUTE PIPING INDOORS. MINIMUM PIPE ELEVATION OF 16'-0" AFF INSIDE BUILDING REQUIRED TO CLEAR ROLL-UP DOOR.</p> <p>9 INSTALL 6" STEEL CASING AND CASING SPACERS ON FUEL OIL SUPPLY AND FUEL OIL RETURN PIPING. CASING SHALL SPAN FROM EXTERIOR WALL TO BEYOND ROLL UP DOOR. SEAL OUTSIDE END OF CASING WITH LINK SEAL. INTERIOR END TO REMAIN OPEN.</p> <p>10 TANK INTERSTITIAL LEAK MONITOR SENSOR.</p>	<p>11 PORTS FOR INTERSTITIAL SPACE TO BE USED BY MANUFACTURER TO INSTALL FIRE GUARD MATERIAL, TYPICAL.</p> <p>12 SPARE TANK OPENING. ALL USABLE PIPE CONNECTION PORTS ARE 4" THREADED COUPLINGS.</p> <p>13 ULTRASONIC AND 3-POSITION LEVEL SENSORS.</p> <p>14 POLISHED FUEL OIL RETURN FROM FFP-1 IN 4" PORT.</p> <p>15 TANK PRIMARY EMERGENCY VENT (TPEV).</p> <p>16 TANK MANWAY (TMW) FOR INTERIOR INSPECTION AND MAINTENANCE.</p> <p>17 TANK INTERSTITIAL EMERGENCY VENT (TIEV).</p> <p>18 TANK NORMAL VENT.</p> <p>19 DAY TANK FUEL OIL RETURN.</p> <p>20 DAY TANK FUEL OIL SUPPLY.</p> <p>21 POLISHED FUEL OIL SUPPLY TO FFP-1.</p> <p>22 REQUIRED VALVES, MOTORIZED VALVES, PRESSURE RELIEF VALVES, ETC. ARE NOT INDICATED ON THIS SHEET. REFER TO SHEET D-701 FOR ALL REQUIRED DEVICES AND THEIR LOCATION.</p> <p>23 PROVIDE FST-1 WITH PERMANENTLY ATTACHED OPERATION INSTRUCTION, OTHER SIGNAGE, AND FIRE EXTINGUISHER AS REQUIRED BY NFPA AND IFC.</p> <p>24 PROVIDE TSF-1 WITH PERMANENTLY ATTACHED OPERATION INSTRUCTION, OTHER SIGNAGE, AND FIRE EXTINGUISHER AS REQUIRED BY NFPA AND IFC.</p>	<p>25 LINK SEAL</p>

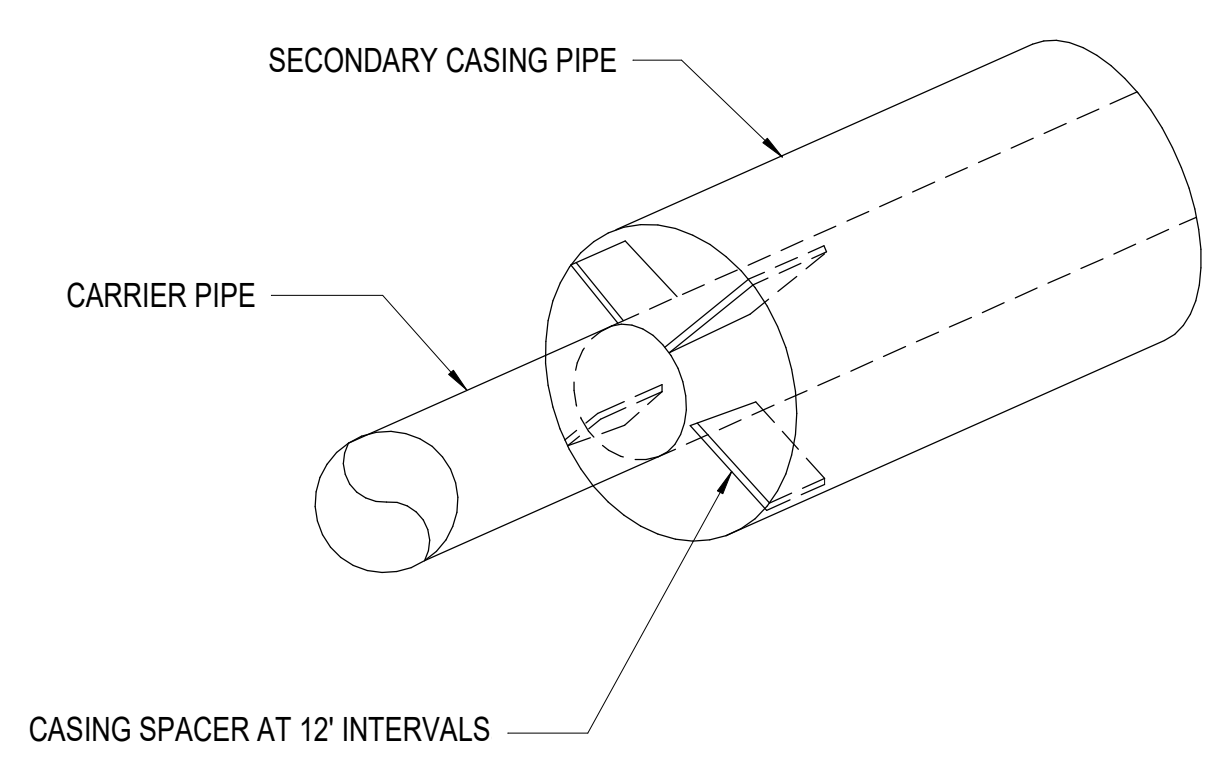


SHEET  
ENLARGED PLANS

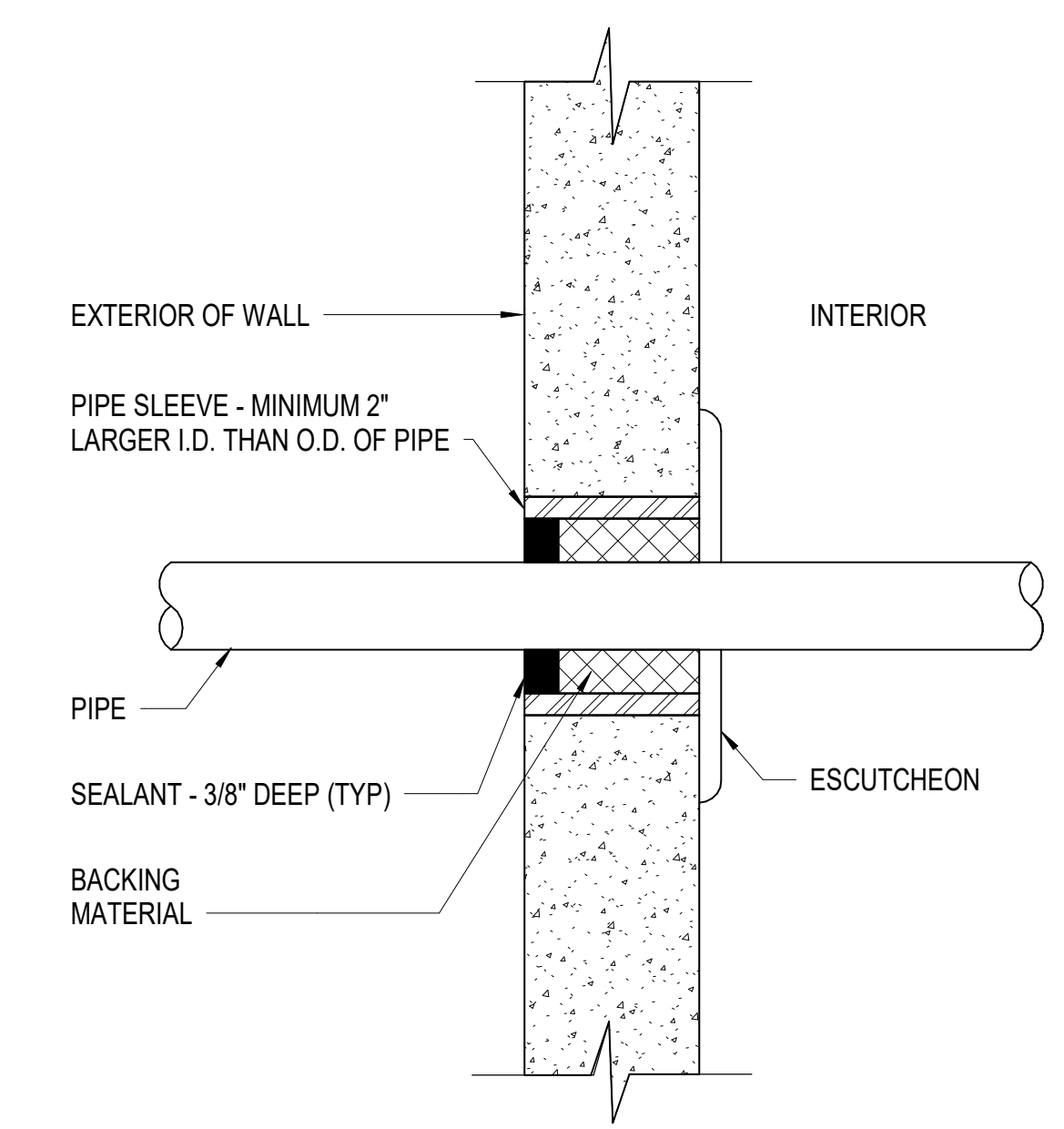
**D-402**

DESIGN: DKB  
DRAWN: RBP  
REVIEW: RWC  
CN 10709-100

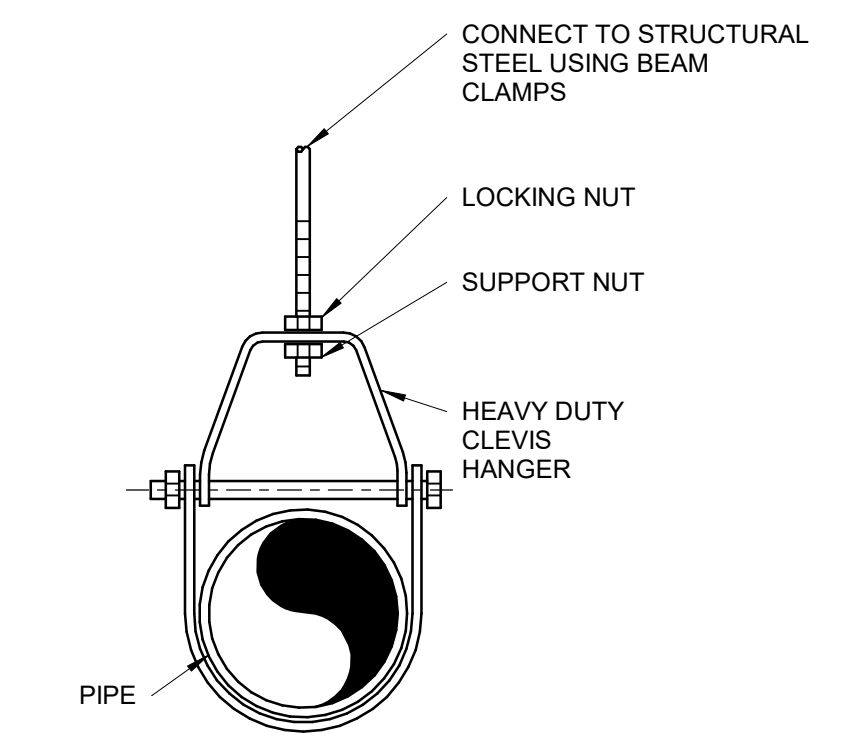
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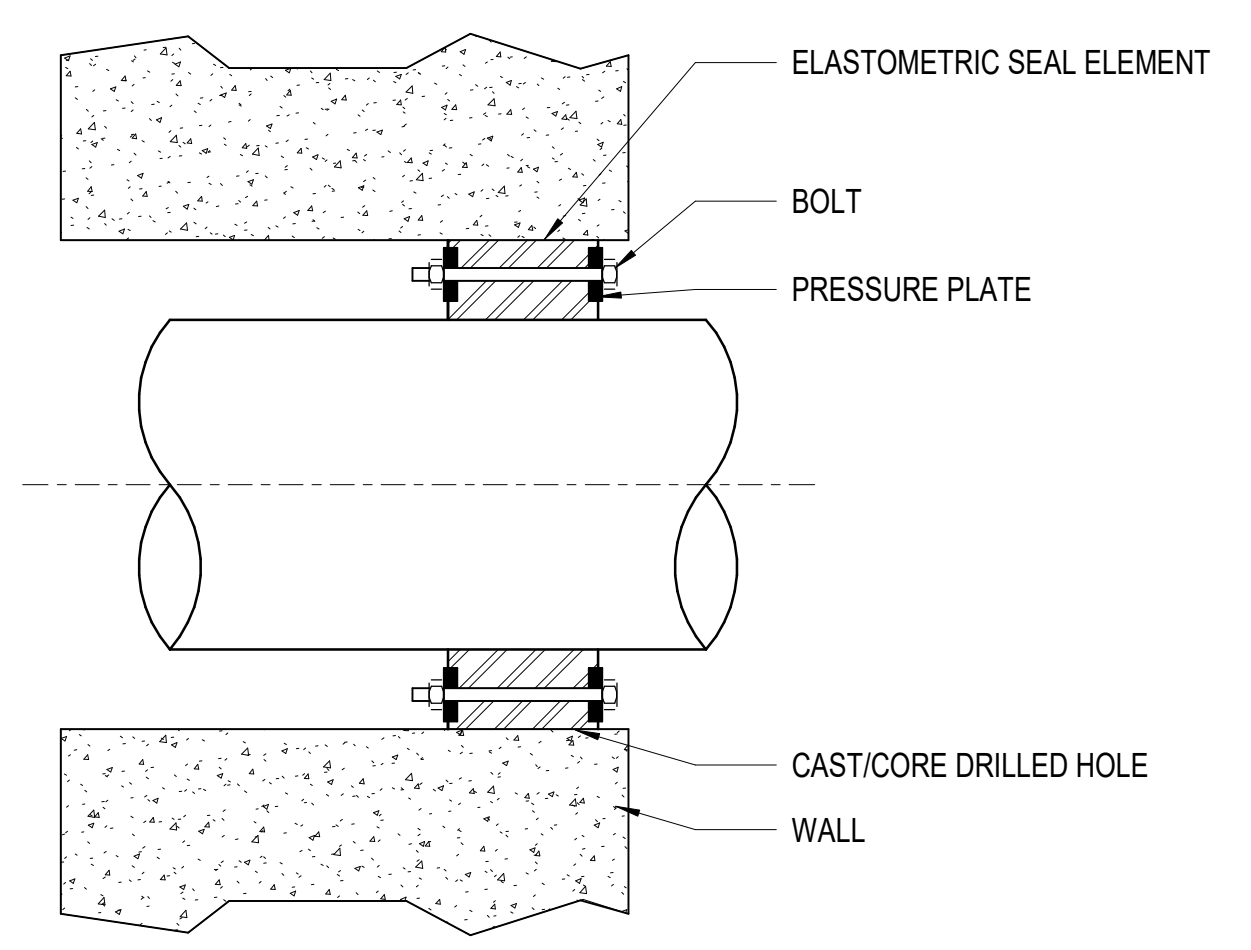
**D1** PIPE CASING DETAIL  
NOT TO SCALE



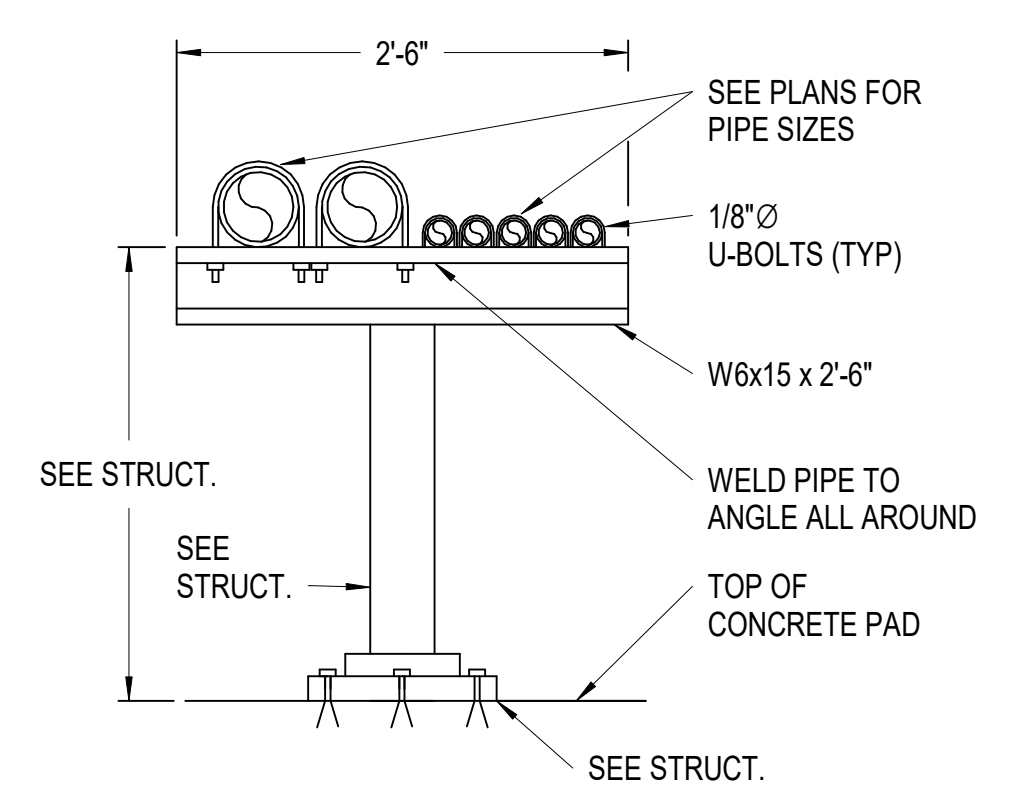
**D3** ABOVE GRADE PIPE PENETRATION DETAIL  
NOT TO SCALE



**D5** CLEVIS PIPE HANGER  
SCALE: 12" = 1'-0"



**B1** LINK SEAL DETAIL  
SCALE: 1/8" = 1'-0"



**B3** OUTDOOR PIPE SUPPORT DETAIL  
NOT TO SCALE



DESIGNER  
**CLARK NEXSEN**  
A JMT Company  
3920 ARKWRIGHT ROAD SUITE 385  
MACON, GEORGIA 31210  
478-743-8415

PROFESSIONAL SEAL



SUBMITTAL  
6/1/2026

ISSUE FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION

KEY PLAN

SHEET  
DETAILS

**D-501**

**AMERSON WATER  
TREATMENT PLANT  
GENERATOR FUEL  
SYSTEM REPLACEMENT**

703 RIVERBEND RD, MACON, GA 31211



DESIGNER  
**CLARK NEXSEN**  
A JMT Company  
3920 ARKWRIGHT ROAD SUITE 385  
MACON, GEORGIA 31210  
478-743-8415

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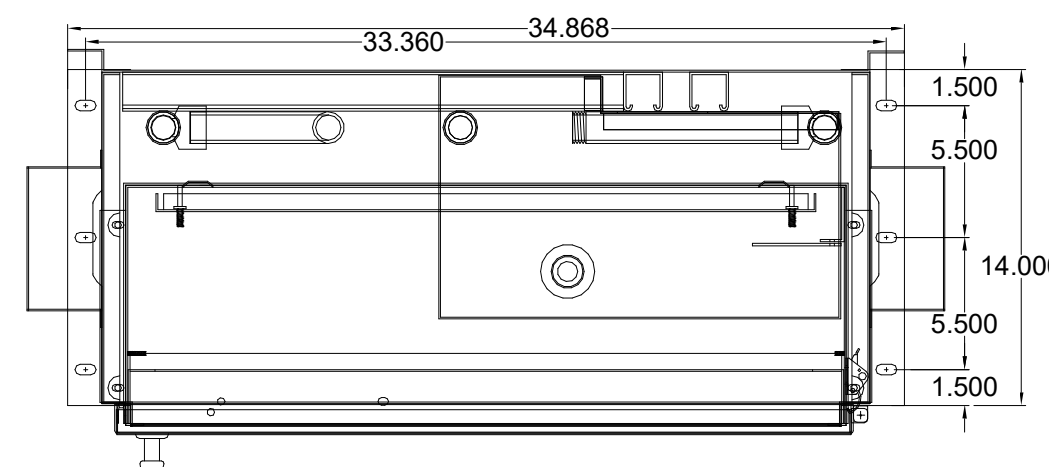
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D

C

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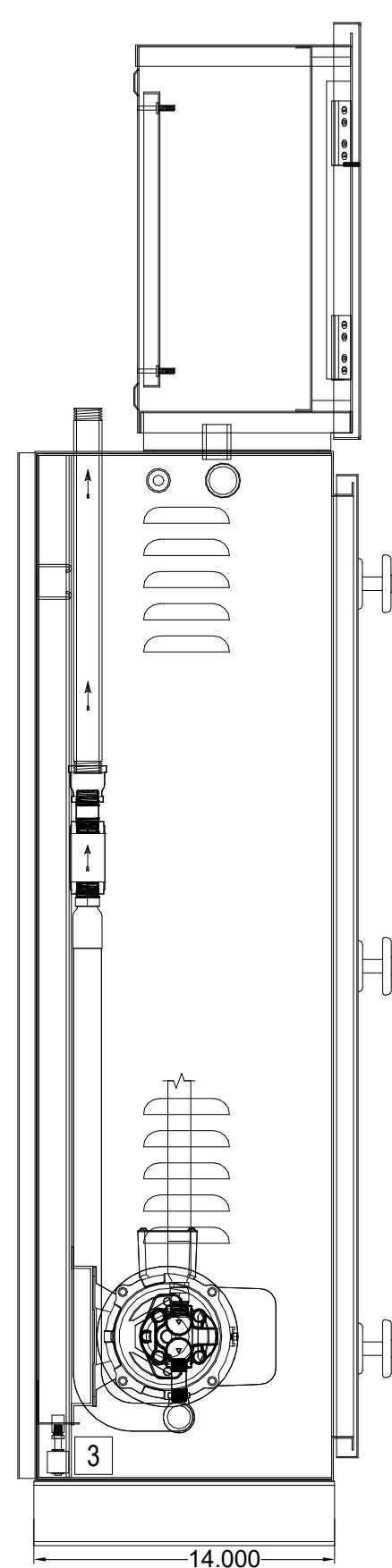
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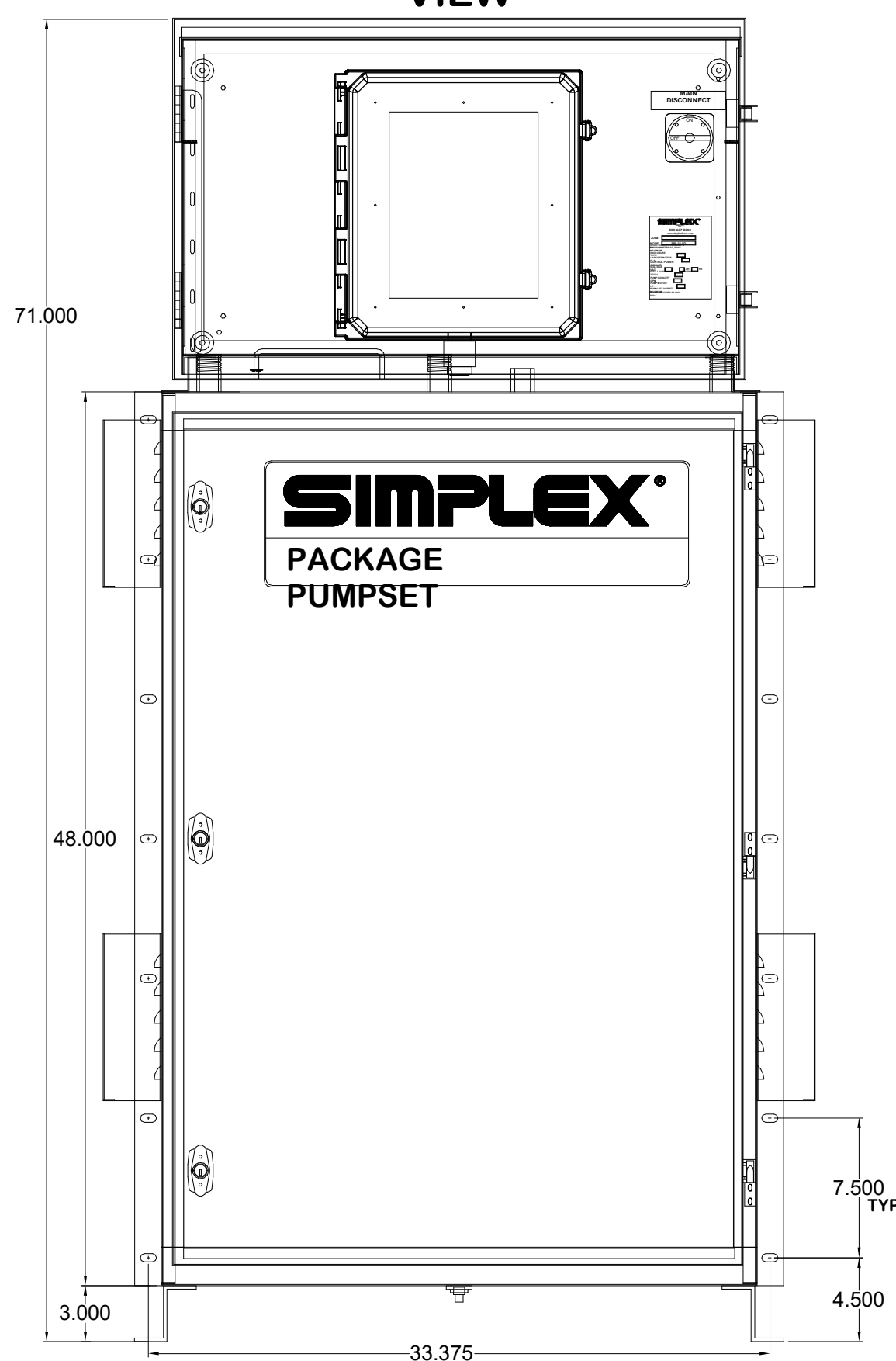
**TOP VIEW**

- NOTES  
1) ALL DIMENSIONS ±.125  
2) DUE TO SYSTEM COMPLEXITY SOME COMPONENTS MAY NOT BE VISIBLE IN ALL VIEWS  
3) CONSTRUCTION SEAM WELDED 14 GA. H.R.S.

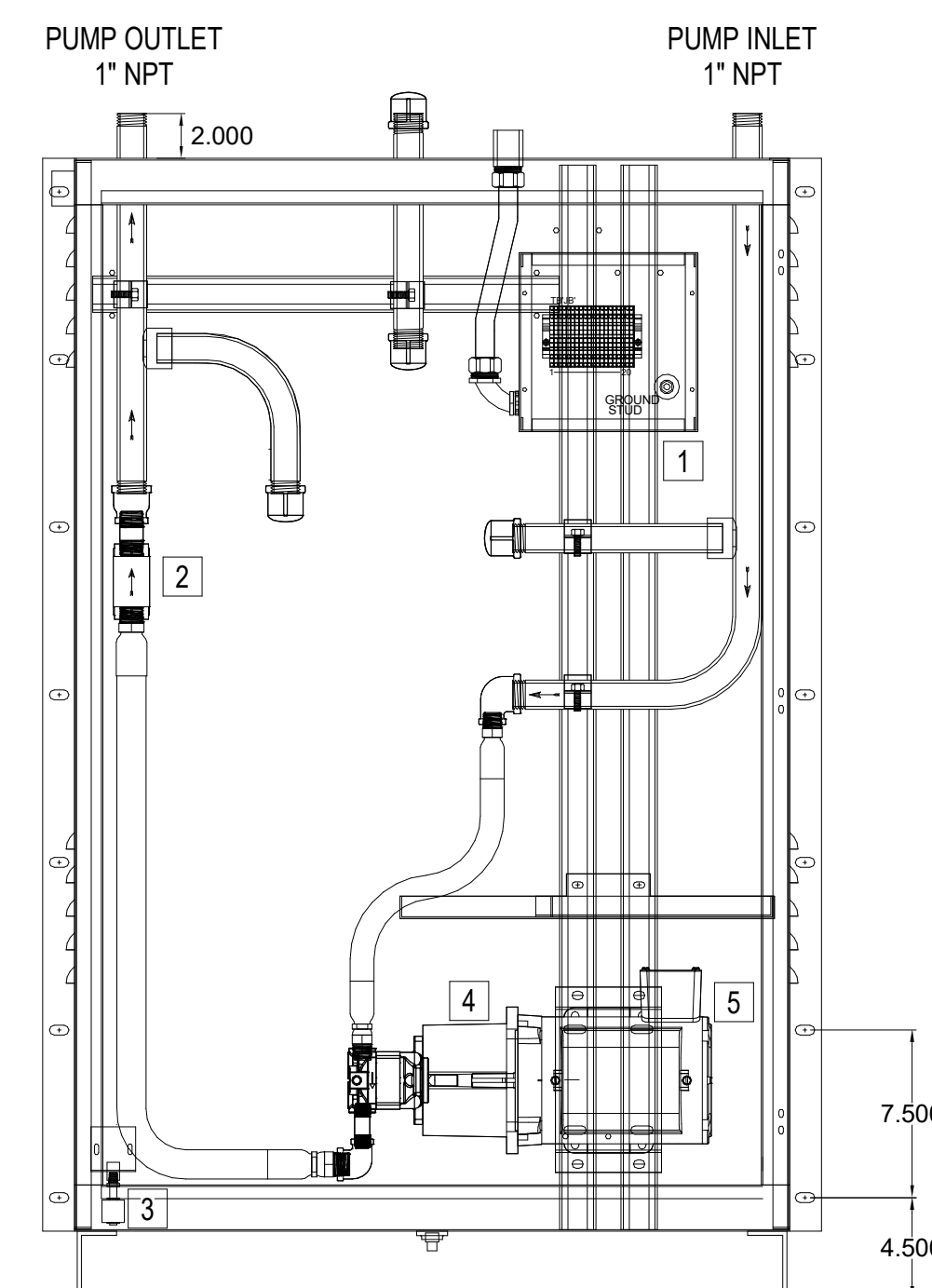
DAY TANK RETURN PUMP SET STANDARD PARTS	
ITEM	COMPONENT
1	JUNCTION BOX 8"X8"X4" W/ SCREW COVER, TYPE 1. TERMINAL BLOCK, 4-WIRE 20A, 600V, GRAY; TERMINAL BLOCK, 4-WIRE, END PLATE
2	CHECK VALVE, 1" NPT. SPRING TYPE, BRONZE BODY, VITON O-RING
3	CABINET FUEL LINE LEAK SENSOR, BUNA-N FLOAT
4	15 GPM PUMP, 1" NPT INLET / 3/4" NPT OUTLET, CAST ALUMINUM
5	1.5 HP MOTOR, 460VAC, 3PH, 60HZ, 1750RPM, TEFC



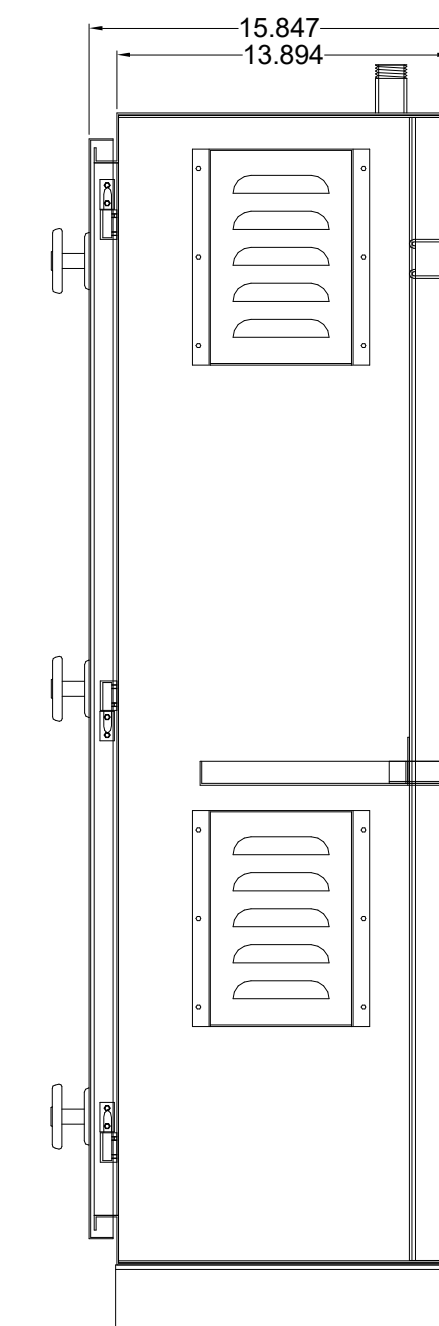
**L.H. VIEW LESS  
LOUVER RAIN  
HOOD**



**FRONT VIEW**



**FRONT VIEW LESS DOOR,  
CONTROLLER & HOODS**



**R.H. VIEW  
LESS  
CONTROLLER**

**B2 DAY TANK RETURN PUMP SKID**  
NOT TO SCALE

PROFESSIONAL SEAL

SUBMITTAL  
6/1/2026  
ISSUE FOR CONSTRUCTION

REVISIONS


KEY PLAN

SHEET  
DETAILS

**D-502**

DESIGN: -  
DRAWN: RBP  
REVIEW: RWC  
CN 10709-100

# AMERSON WATER GENERATOR FUEL SYSTEM REPLACEMENT

703 RIVERBEND RD, MACON, GA 31211



DESIGNER  
**CLARK NEXSEN**  
A JMT Company  
3920 ARKWRIGHT ROAD SUITE 385  
MACON, GEORGIA 31210  
478-743-8415

PROFESSIONAL SEAL



SUBMITTAL

6/1/2026

ISSUE FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION

KEY PLAN

SHEET

DETAILS

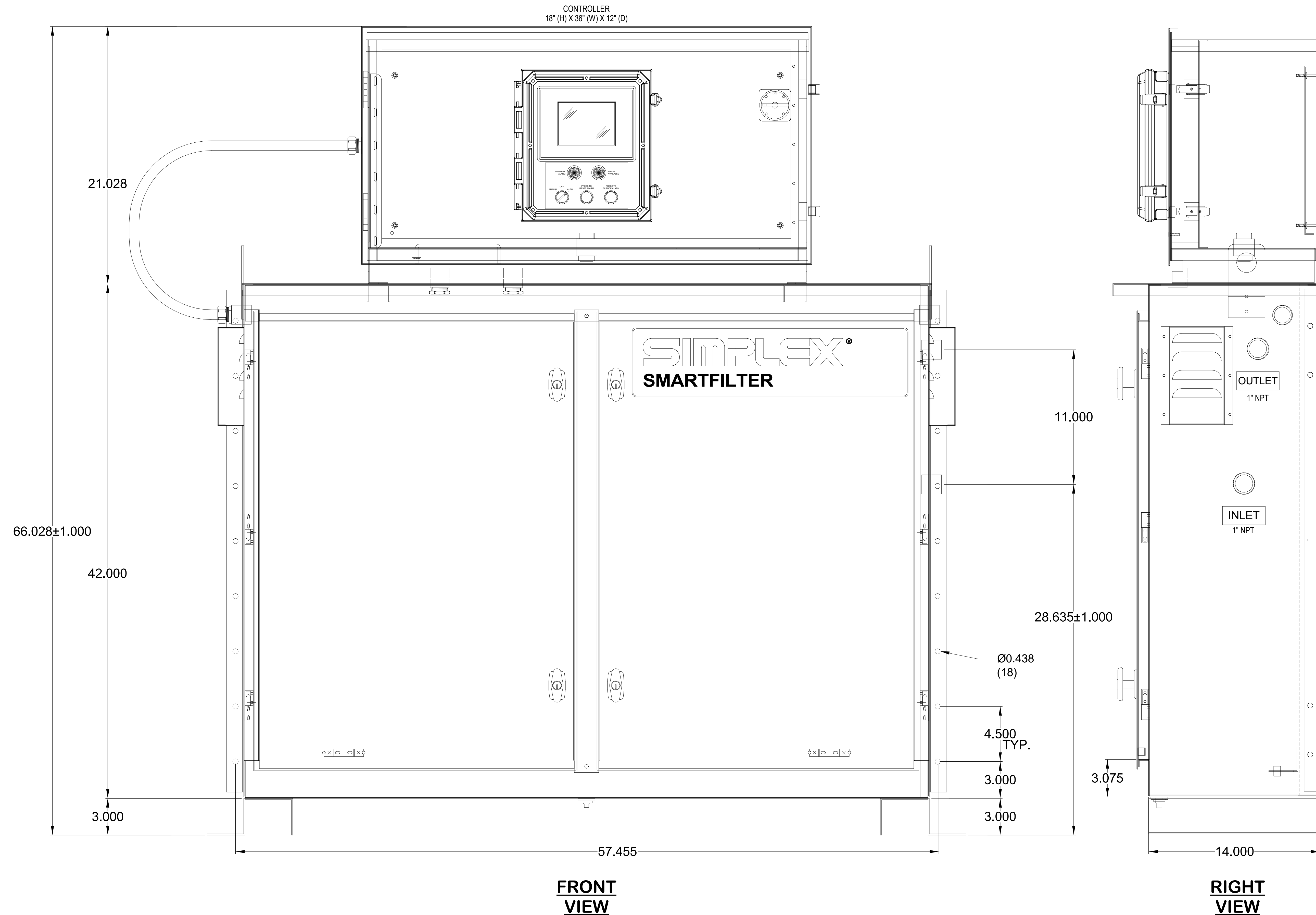
## D-503

DESIGN: -  
DRAWN: RBP  
REVIEW: RWC

CN 10709-100

### NOTES:

1. MATERIAL: 14 GA. H.R.S.
2. COLOR: CABINET WHITE  
DOORS BLUE
3. ALL PARTS SHOWN TYPICAL



**A1** FUEL POLISHING PUMP SKID  
NOT TO SCALE

**AMERSON WATER  
TREATMENT PLANT  
GENERATOR FUEL  
SYSTEM REPLACEMENT**

703 RIVERBEND RD, MACON, GA 31211



DESIGNER  
**CLARK NEXSEN**  
A JMT Company  
3920 ARKWRIGHT ROAD SUITE 385  
MACON, GEORGIA 31210  
478-743-8415

PROFESSIONAL SEAL



SUBMITTAL  
6/1/2026  
ISSUE FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION

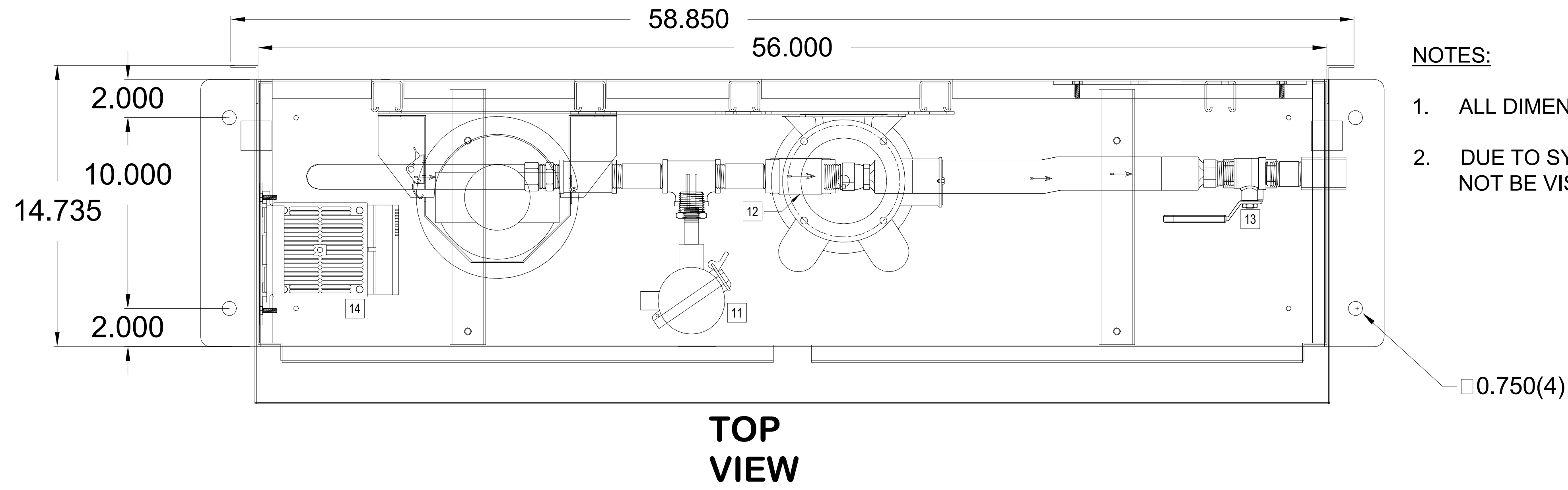
KEY PLAN

SHEET  
DETAILS

**D-504**

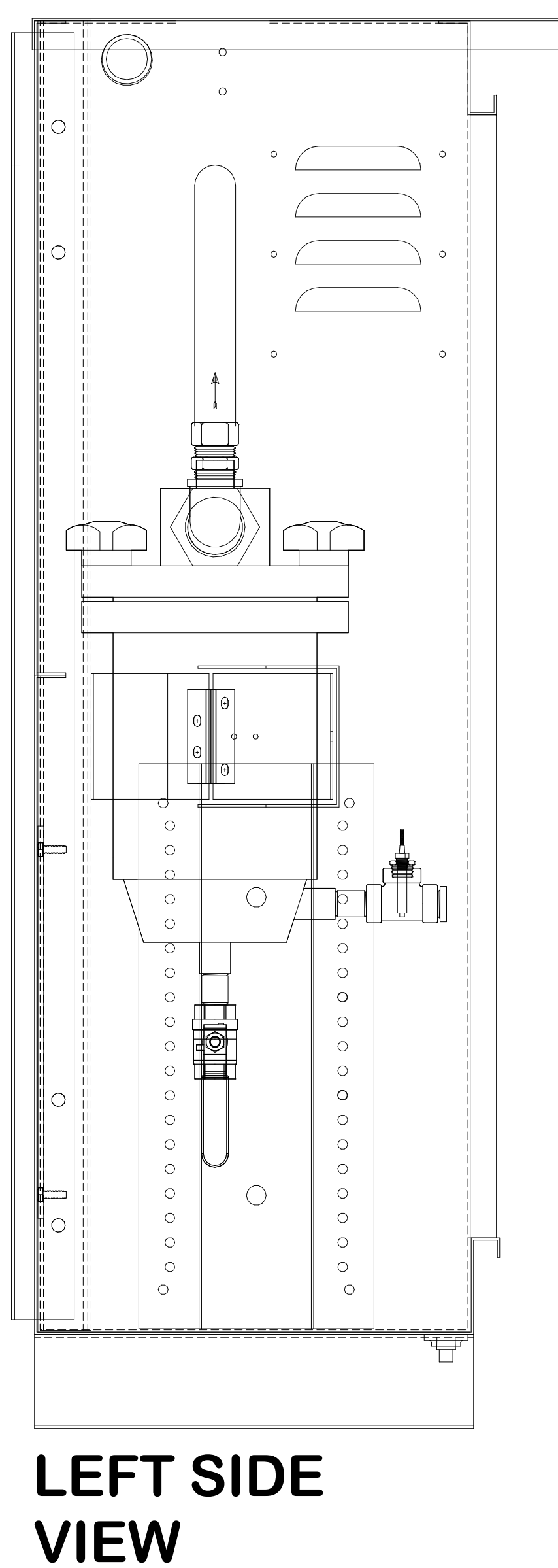
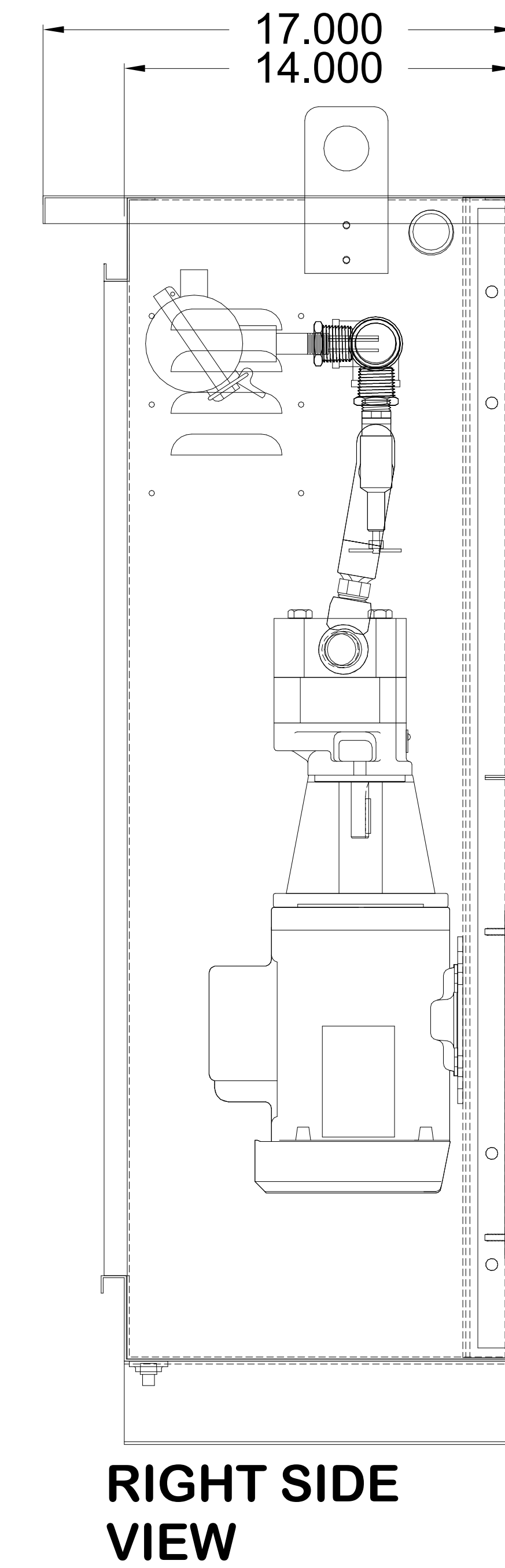
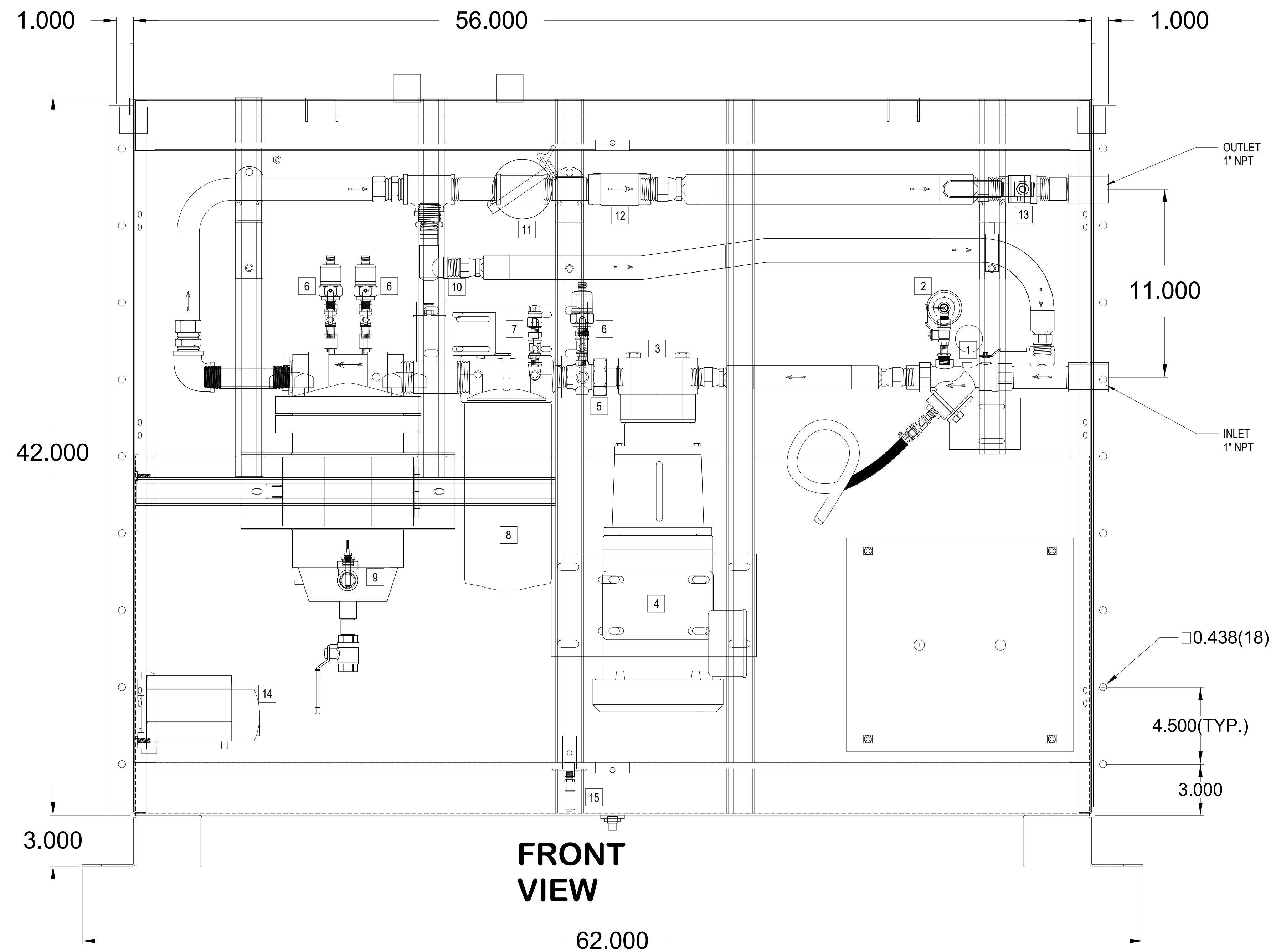
DESIGN: -  
DRAWN: RBP  
REVIEW: RWC  
CN 10709-100

FUEL POLISHER PUMP SKID COMPONENTS	
ITEM	COMPONENT
1	BALL VALVE / FUEL STRAINER COMBO; 1" NPT. FEMALE INLET TAILPIECE SIZED TO PUMP INLET PORT.
2	VACUUM GAUGE 2" DIA. 0-30HG W/ ISOLATION VALVE
3	15 GPM PUMP. CAST IRON W/ LIP SEAL. 1" NPT INLET / OUTLET
4	PUMP MOTOR. 1.5HP. 460VAC. 3PH. 60HZ. 56C-FACE. TEFC
5	NEXUS STYLE UNION. 1" NPT. MALE BODY TAILPIECE SIZED TO PUMP OUTLET PORT
6	PRESSURE TRANSDUCER 4-20 mA W/ ISOLATION VALVE
7	LINE PRESSURE SWITCH; 1/4" NPT SET @ 60 PSI
8	PRE-FILTER 1.50" NPT. ALUMINUM HEAD W/ 10-MICRON SPIN-ON ELEMENT
9	FINAL FILTER HOUSING W/ 5-MICRON COALESCER / SEPRATOR ELEMENTS
10	PRESSURE RELIEF VALVE 3/4" NPT. 0-300 PSI SET @ 65 PSI
11	FLOW SWITCH 3/4" NPT. 24 VDC. 1.8" PROBE LENGTH
12	CHECK VALVE 1" NPT. SPRING TYPE BRONZE BODY
13	BALL VALE 1" NPT. FULL PORT BRASS BODY
14	CABINET HEATER. 1200 WATT @ 120 VAC W/ FAN. THERMOSTAT 32-140 DEG F. 8 HIGH TEMP CUT-OUT
15	CABINET FUEL LINE LEAK SENSOR FLOAT



**NOTES:**

1. ALL DIMENSIONS ±.50
2. DUE TO SYSTEM COMPLEXITY SOME COMPONENTS MAY NOT BE VISIBLE IN ALL VIEWS



**A1 FUEL POLISHING PUMP SKID PLUMBING**  
NOT TO SCALE

**AMERSON WATER  
GENERATOR FUEL  
SYSTEM REPLACEMENT**

703 RIVERBEND RD, MACON, GA 31211



DESIGNER  
**CLARK NEXSEN**  
A JMT Company  
3920 ARKWRIGHT ROAD SUITE 385  
MACON, GEORGIA 31210  
478-743-8415

PROFESSIONAL SEAL



SUBMITTAL  
6/1/2026  
ISSUE FOR CONSTRUCTION

REVISIONS


KEY PLAN

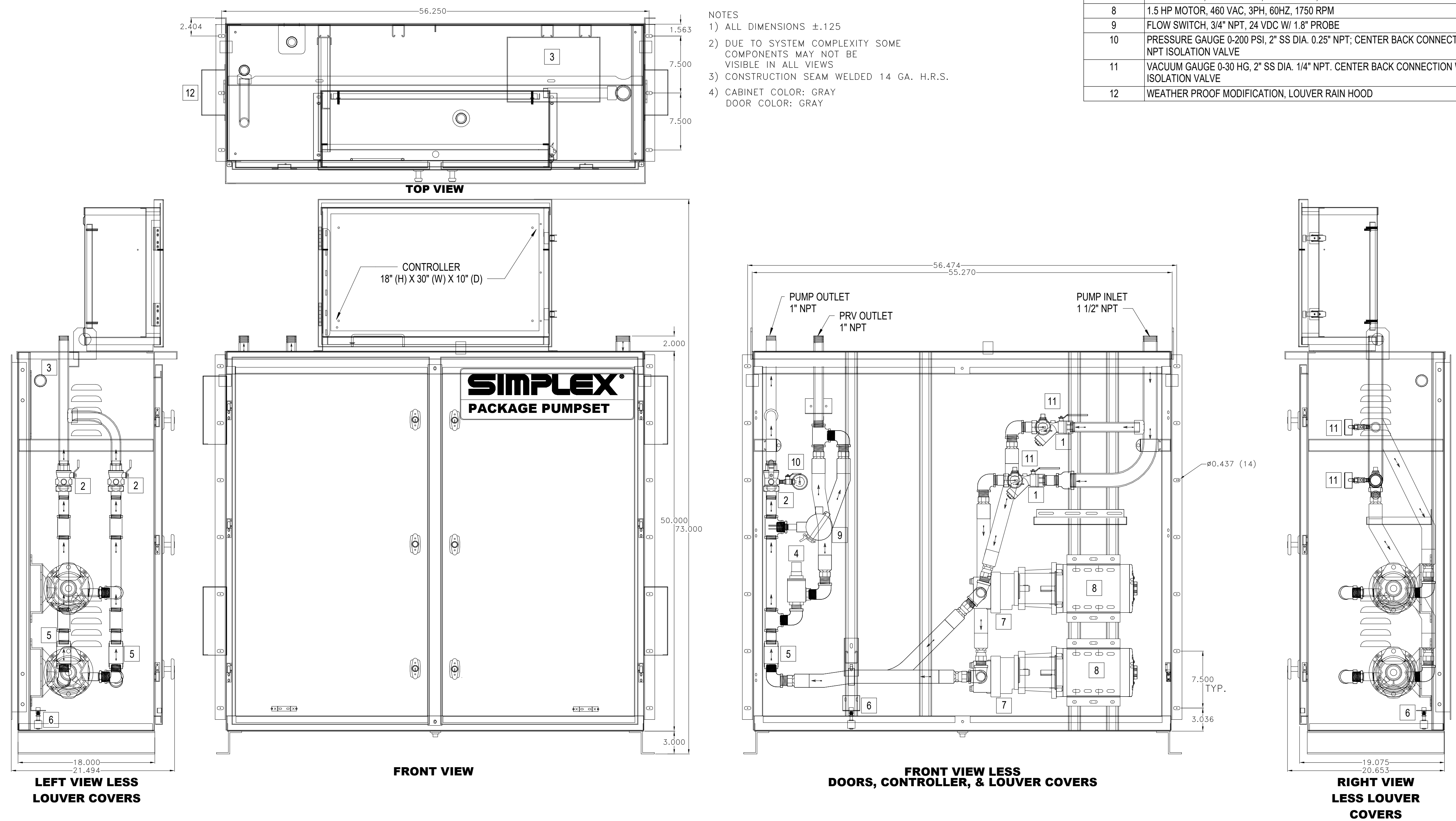
SHEET  
DETAILS

**D-505**

DESIGN: -  
DRAWN: RBP  
REVIEW: RWC  
CN 10709-100

FUEL SUPPLY PUMP SKID COMPONENTS	
ITEM	COMPONENT
1	BALL VALVE / FUEL STRAINER COMBO, 1" NPT, FEMALE BODY, 1" NPT, MALE TAILPIECE
2	BALL VALVE W/ UNION END & SHORT HANDLE, 1" NPT, FEMALE BODY, 1" NPT, FEMALE TAILPIECE
3	JUNCTION BOX 8" X 8" X 4" W/ SCREW COVER, TYPE 1; TERMINAL BLOCK, 4-WIRE, 20A, 600V, GRAY; TERMINAL BLOCK, 4-WIRE, END PLATE
4	PRESSURE RELIEF VALVE, 1" NPT, SET @ 65 PSI (29 GPM MAX FLOW)
5	CHECK VALVE, 1" NPT, SPRING TYPE, BRONZE BODY, VITON O-RING
6	CABINET FUEL LINE LEAK SENSOR, BURMAN FLOAT
7	15 GPM PUMP, 1" NPT INLET, 3/4" OUTLET, CAST ALUM.
8	1.5 HP MOTOR, 480 VAC, 3PH, 60HZ, 1750 RPM
9	FLOW SWITCH, 3/4" NPT, 24 VDC W/ 1.8" PROBE
10	PRESSURE GAUGE 0-200 PSI, 2" SS DIA. 0.25" NPT; CENTER BACK CONNECTION W/ 1/4" NPT ISOLATION VALVE
11	VACUUM GAUGE 0-30 HG, 2" SS DIA. 1/4" NPT. CENTER BACK CONNECTION W/ 1/4" NPT ISOLATION VALVE
12	WEATHER PROOF MODIFICATION, LOUVER RAIN HOOD

- NOTES
- 1) ALL DIMENSIONS ±.125
  - 2) DUE TO SYSTEM COMPLEXITY SOME COMPONENTS MAY NOT BE VISIBLE IN ALL VIEWS
  - 3) CONSTRUCTION SEAM WELDED 14 GA. H.R.S.
  - 4) CABINET COLOR: GRAY  
DOOR COLOR: GRAY



**B1 FUEL SUPPLY PUMP SKID**  
NOT TO SCALE

**AMERSON WATER  
TREATMENT PLANT  
GENERATOR FUEL  
SYSTEM REPLACEMENT**

703 RIVERBEND RD, MACON, GA 31211



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478-743-8415

PROFESSIONAL SEAL

SUBMITTAL  
6/1/2026  
ISSUE FOR CONSTRUCTION

REVISIONS

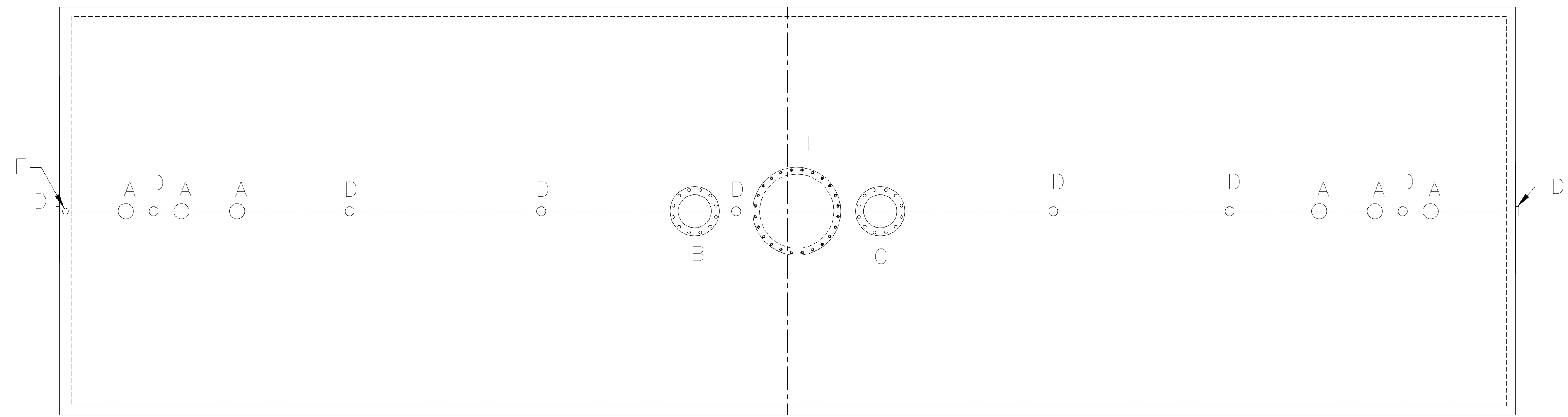
NO.	DESCRIPTION

KEY PLAN

SHEET  
DETAILS

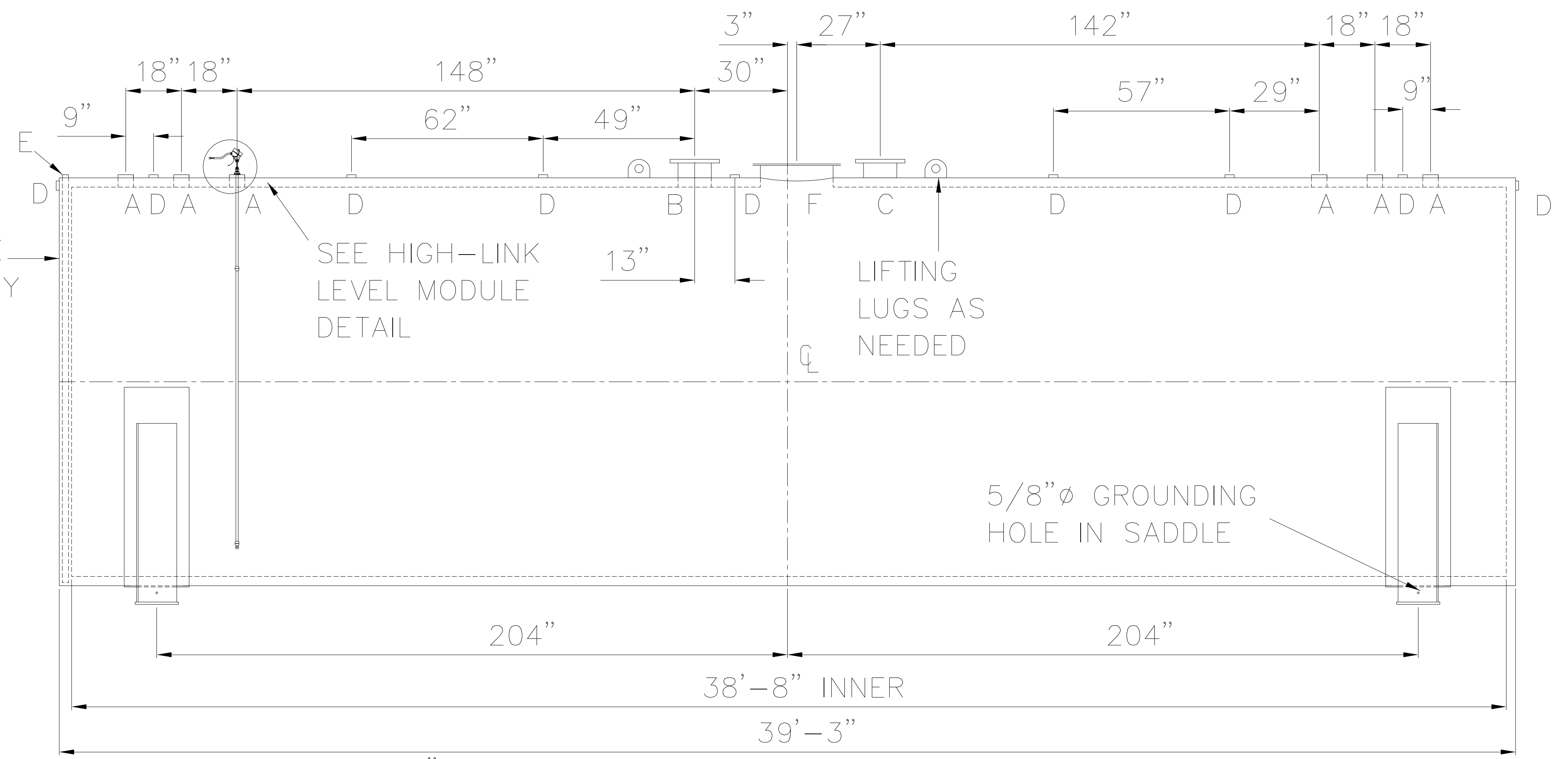
**D-506**

DESIGN: -  
DRAWN: RBP  
REVIEW: RWC  
CN 10709-100

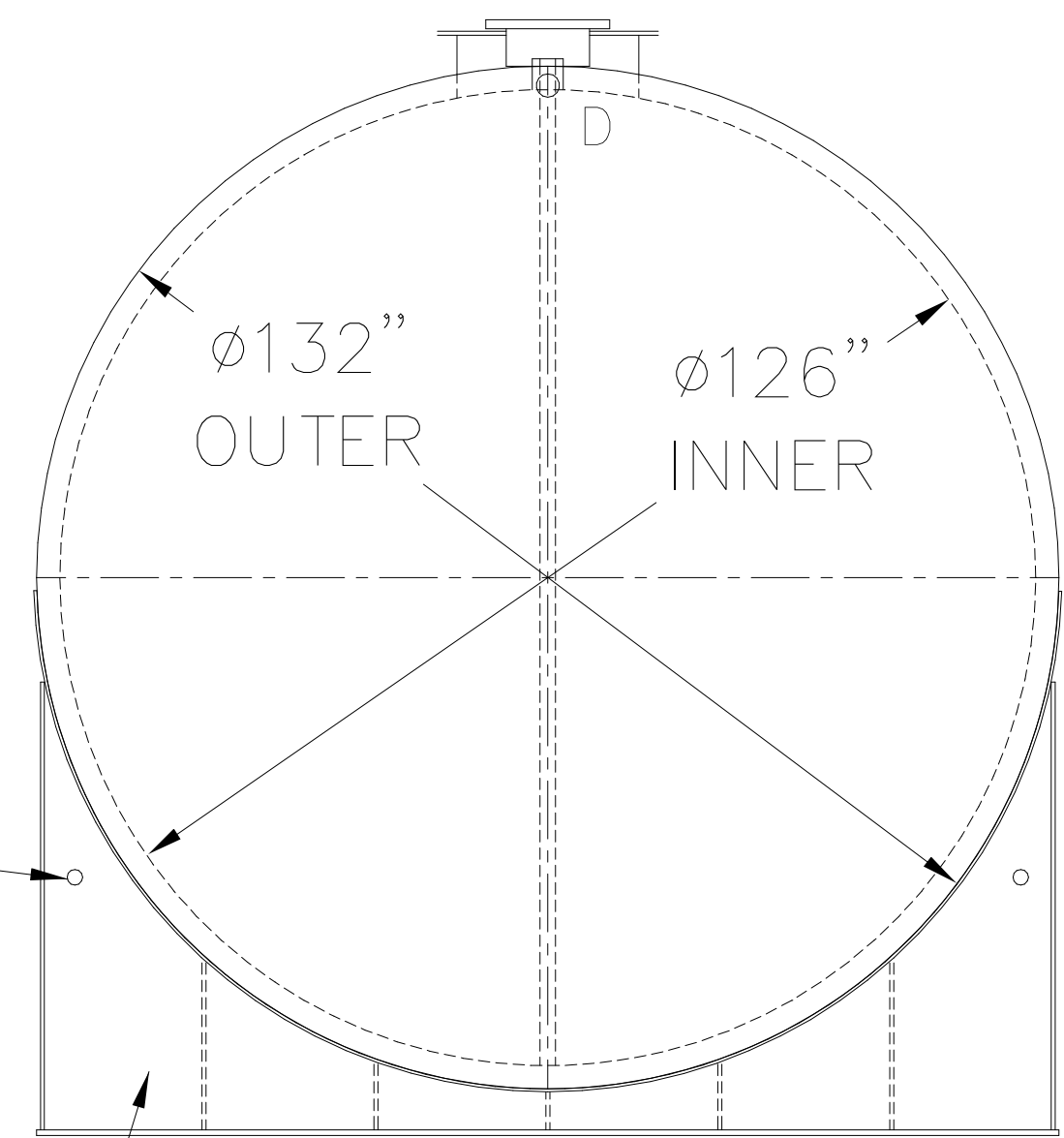


PLAN VIEW

FITTING LEGEND	
A	4" FEMALE FG COUPLING
B	10" FFSO 150# FLANGE - PRIMARY EMERGENCY VENT USE ONLY
C	10" FFSO 150# FLANGE THROUGH OUTER SHELL ONLY, MARK WITH SPECIAL WARNING LABEL INTERSTITIAL EMERGENCY VENT USE ONLY
D	2" FITTING THROUGH OUTER SHELL ONLY WITH CAST IRON PLUG- MFG USE ONLY
E	2" MONITOR PIPE WITH MALE NPT END
F	24" x 1/4" PLATE TIGHT BOLT MANWAY WITH 1/8" THICK FIBREFLEX GASKET

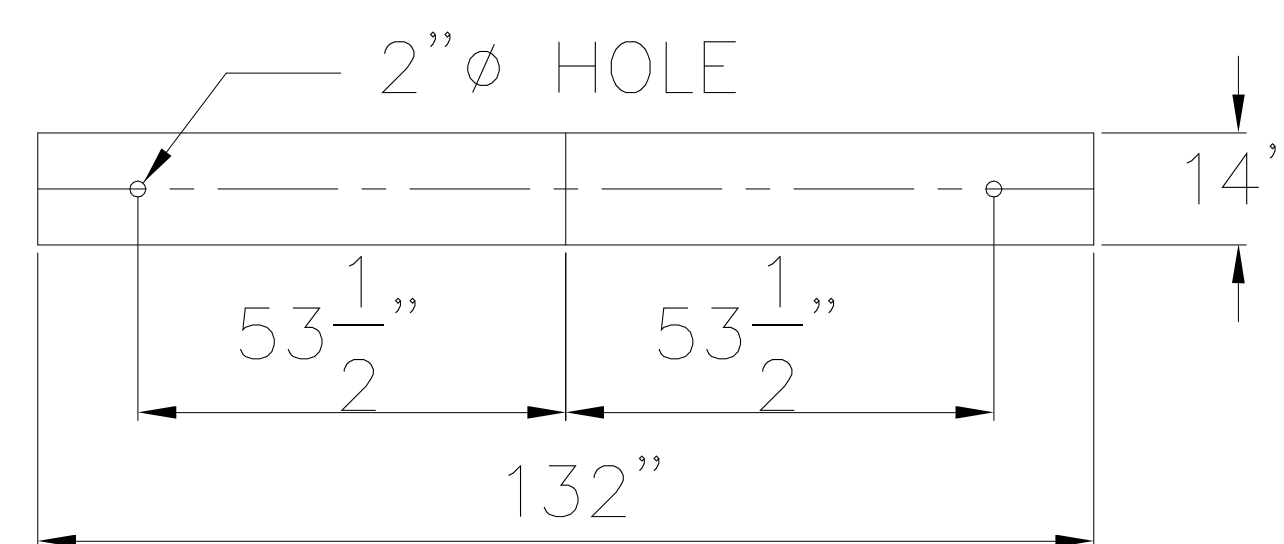


ELEVATION VIEW



SHIPMENT BANDING HOLES (2) PER SADDLE

(2) 11'-0"  $\phi$  x 6" HIGH SADDLES SEAL WELDED TO TANK



BASE PLATE DETAIL

4" INTERSTICE THIS END ONLY

SEE HIGH-LINK LEVEL MODULE DETAIL

LIFTING LUGS AS NEEDED

5/8"  $\phi$  GROUNDING HOLE IN SADDLE

3" LIGHTWEIGHT INSULATION MATERIAL WITHIN INTERSTICE

**A1 FST-1 FUEL SUPPLY TANK**  
SCALE: 1/2" = 1'-0"

# AMERSON WATER GENERATOR PLANT GENERATOR FUEL SYSTEM REPLACEMENT

703 RIVERBEND RD, MACON, GA 31211



DESIGNER  
**CLARK NEXSEN**  
A JMT Company  
3920 ARKWRIGHT ROAD SUITE 385  
MACON, GEORGIA 31210  
478-743-8415

PROFESSIONAL SEAL



SUBMITTAL

6/1/2026

ISSUE FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION

KEY PLAN

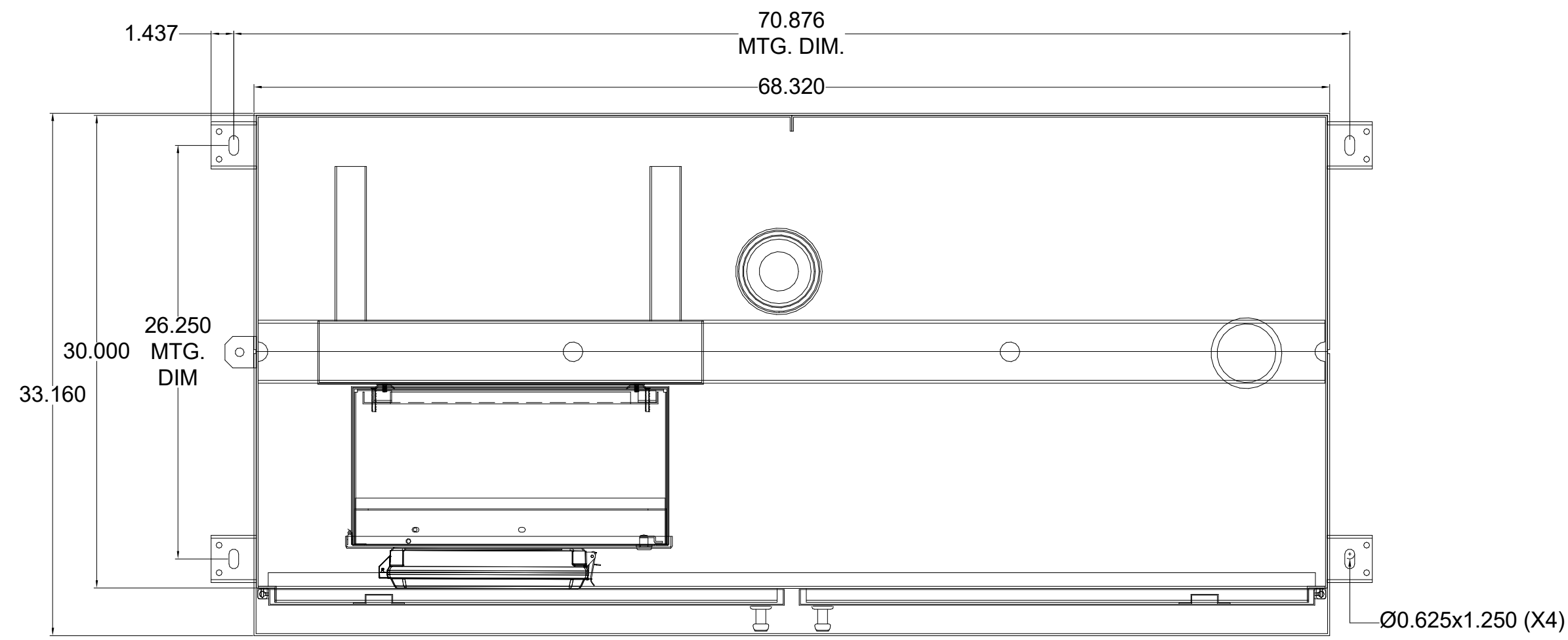
SHEET

DETAILS

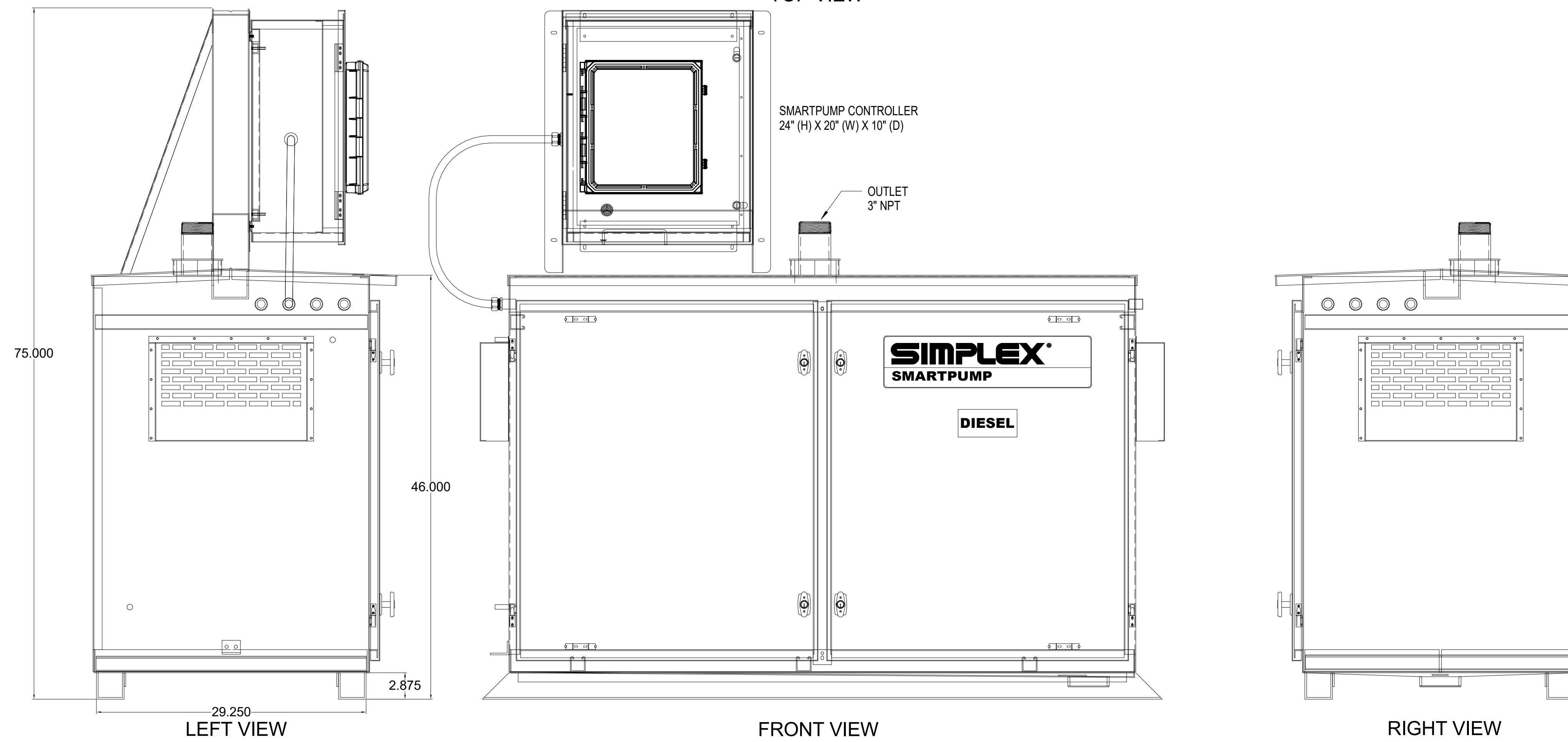
## D-507

DESIGN: -  
DRAWN: RBP  
REVIEW: RWC

CN 10709-100



TOP VIEW



LEFT VIEW

FRONT VIEW

RIGHT VIEW

**B1** REMOTE FILL STATION  
NOT TO SCALE

**AMERSON WATER  
TREATMENT PLANT  
GENERATOR FUEL  
SYSTEM REPLACEMENT**

703 RIVERBEND RD, MACON, GA 31211



DESIGNER  
**CLARK NEXSEN**  
A JMT Company  
3920 ARKWRIGHT ROAD SUITE 385  
MACON, GEORGIA 31210  
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PROFESSIONAL SEAL



SUBMITTAL  
6/1/2026  
ISSUE FOR CONSTRUCTION

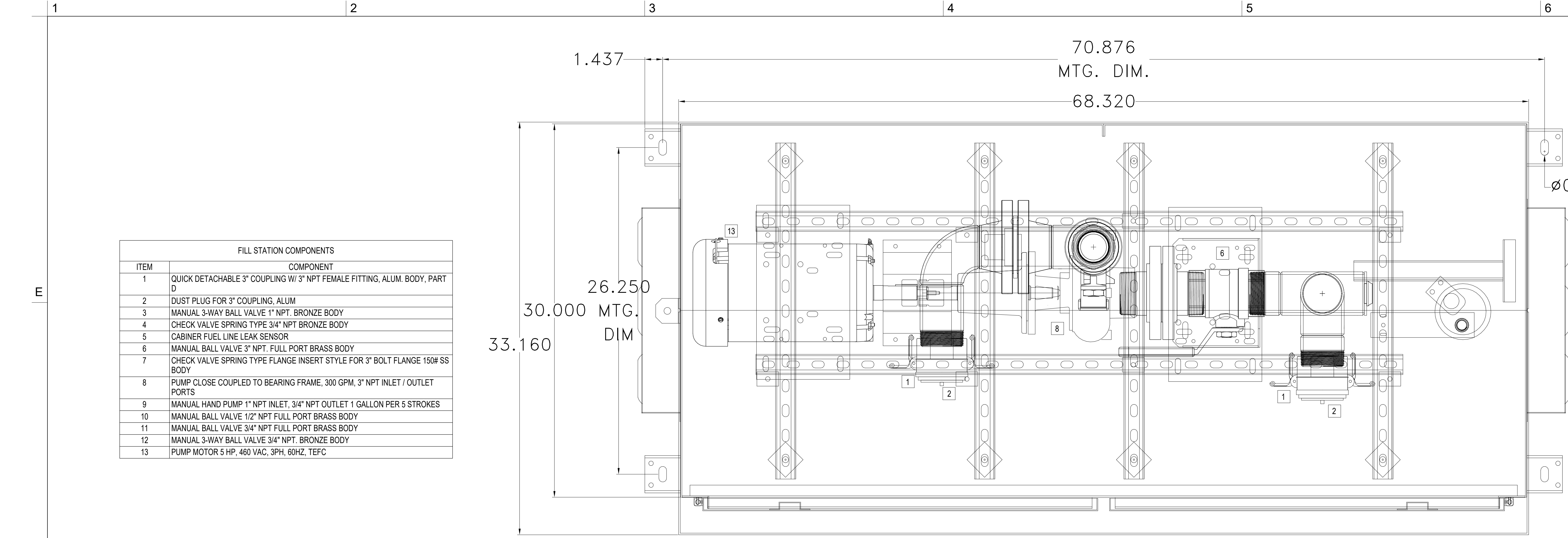
REVISIONS

KEY PLAN

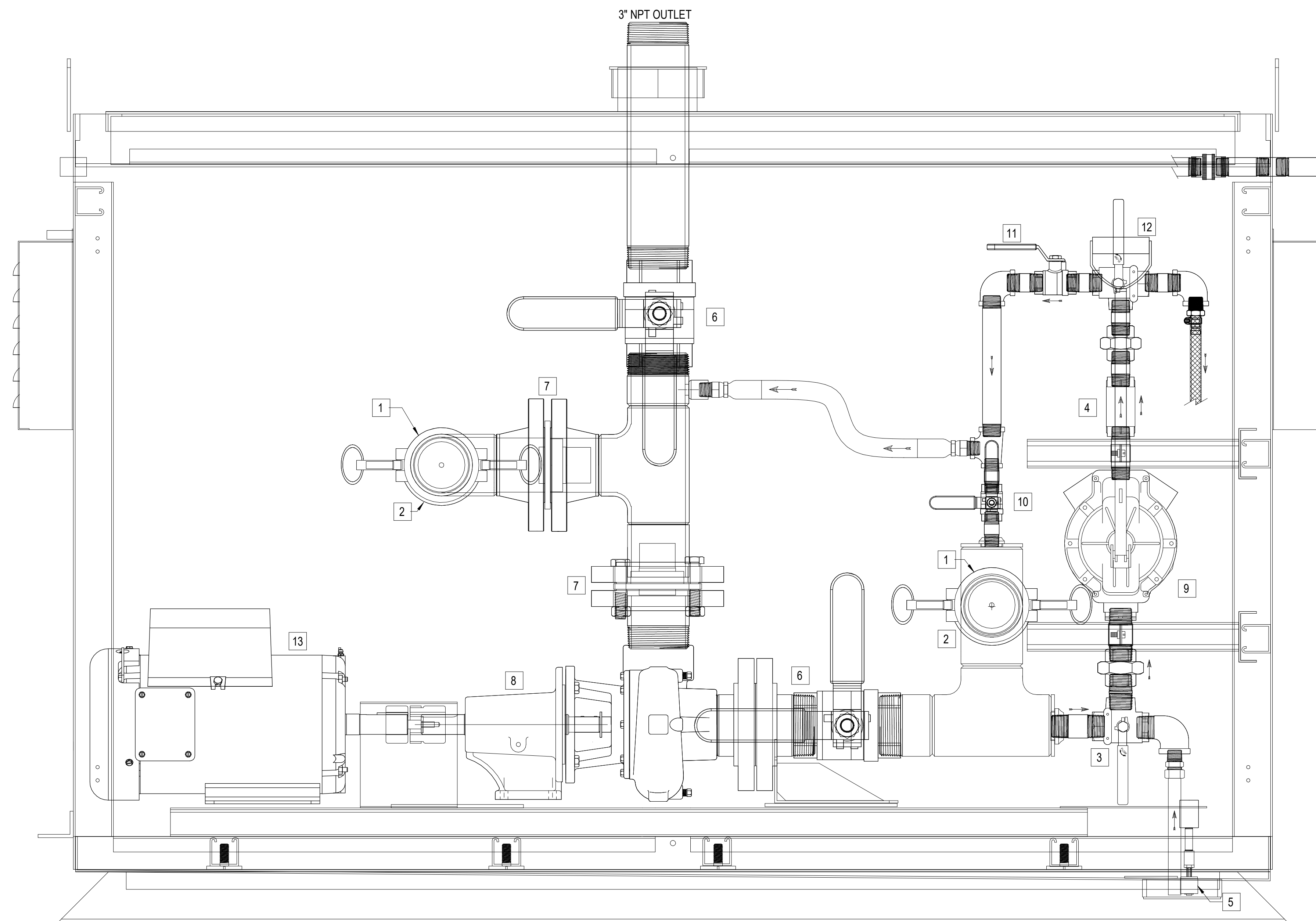
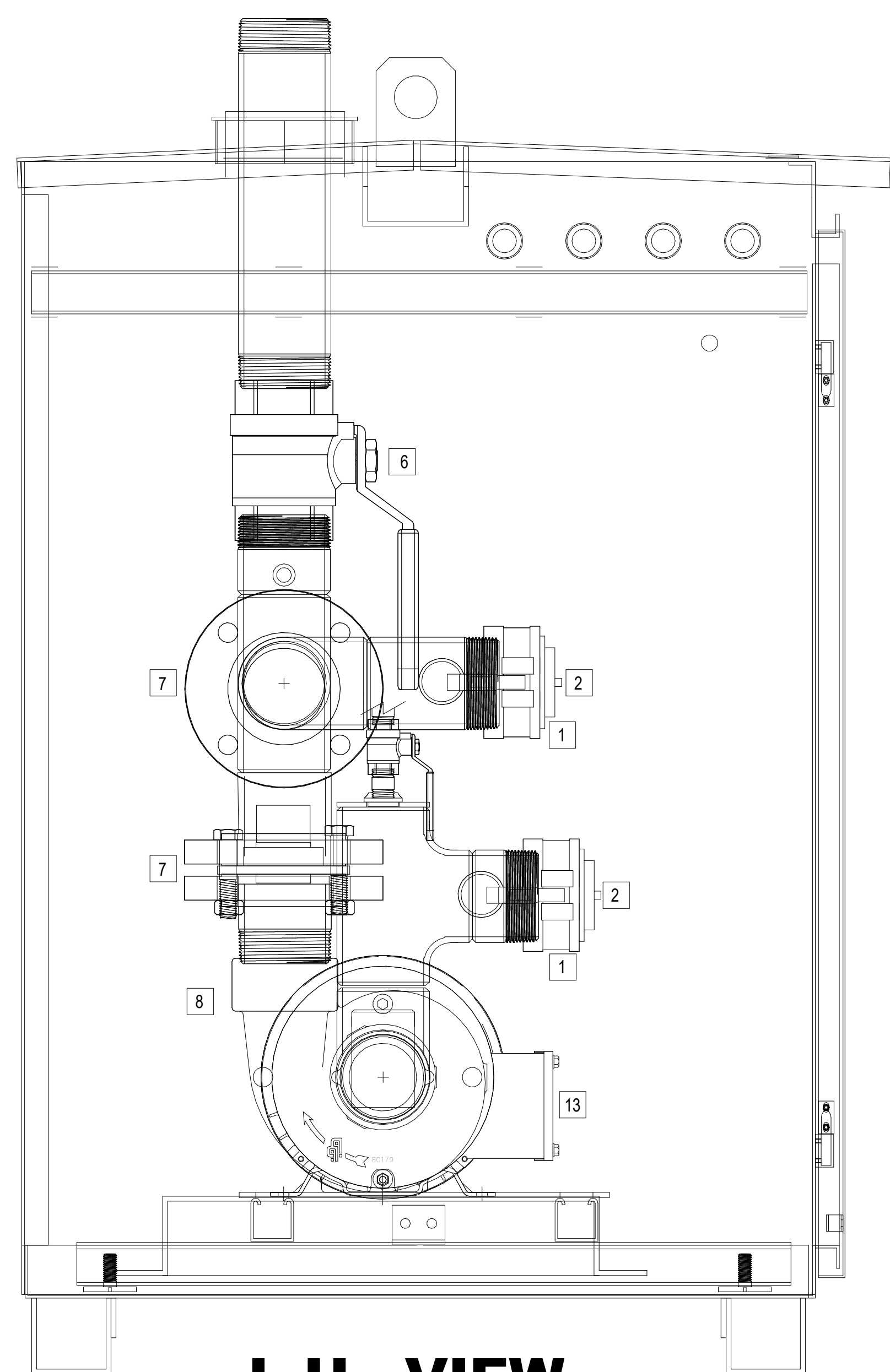
SHEET  
DETAILS

**D-508**

DESIGN: -  
DRAWN: RBP  
REVIEW: RWC  
CN 10709-100



**TOP VIEW**



FILL STATION COMPONENTS	
ITEM	COMPONENT
1	QUICK DETACHABLE 3" COUPLING W/ 3" NPT FEMALE FITTING, ALUM. BODY, PART D
2	DUST PLUG FOR 3" COUPLING, ALUM
3	MANUAL 3-WAY BALL VALVE 1" NPT, BRONZE BODY
4	CHECK VALVE SPRING TYPE 3/4" NPT BRONZE BODY
5	CABINER FUEL LINE LEAK SENSOR
6	MANUAL BALL VALVE 3" NPT, FULL PORT BRASS BODY
7	CHECK VALVE SPRING TYPE FLANGE INSERT STYLE FOR 3" BOLT FLANGE 150# SS BODY
8	PUMP CLOSE COUPLED TO BEARING FRAME, 300 GPM, 3" NPT INLET / OUTLET PORTS
9	MANUAL HAND PUMP 1" NPT INLET, 3/4" NPT OUTLET 1 GALLON PER 5 STROKES
10	MANUAL BALL VALVE 1/2" NPT FULL PORT BRASS BODY
11	MANUAL BALL VALVE 3/4" NPT FULL PORT BRASS BODY
12	MANUAL 3-WAY BALL VALVE 3/4" NPT, BRONZE BODY
13	PUMP MOTOR 5 HP, 460 VAC, 3PH, 60HZ, TEFC

**A1** REMOTE FILL STATION PLUMBING  
NOT TO SCALE

5/29/2026 9:48:19 AM Client: Projects\10709\_MWA-Amerson WTP Gen Fuel System\_LDS\_Ryan.Pandam.nf

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**FUEL OIL SPECIALTIES SCHEDULE**

MARK	EQUIPMENT DESCRIPTION	LOCATION	TYPE	MOUNTING	OUTLET PRESSURE	STORAGE CAPACITY	GPM	HP	ELECTRICAL		OWNERS PREFERRED MANUFACTURER AND NOTES
									VOLTAGE	PHASE	
DTRP-1	DAY TANK RETURN PUMP	BLDG. 2	SIMPLEX SELF CONTAINED SKID WITH NEW CONTROLS FOR EACH EXISTING DAY TANK	INSIDE ON FLOOR	100 PSIG	0	15	1.5	460	3	<p>SIMPLEX MODEL: SPS-25-RP. (FOUR REQUIRED) PROVIDE THE FOLLOWING OPTIONS:</p> <p>OPT 391, PUMP SET RETURN PUMP OUT CONTROL                      OPT 515, 15 GPM CAST IRON HIGH LIFT PUMP                      OPT 1022, 1.5 HP, 460V AC, 3 PHASE, 60 HERTZ MOTOR, TEFC                      OPT 262, CONTROL POWER TRANSFORMER                      OPT 2011, PLC LEVEL CONTROLLER WITH FLOATSWITCHES                      OPT 230, 7" WIDE SCREEN, COLOR TOUCH SCREEN HMI                      OPT 242, MODBUS VIA FIBER                      OPT 191, FLOAT SWITCH IN CONTAINMENT WITH ALARM                      OPT 299, AUXILIARY RELAY, 3 PDT, 10A                      FSOP-060, FLOATSET                      FSOP-062, LEVEL TRANSMITTER</p> <p>PROVIDE THE FOLLOWING DAY TANK INLET MANIFOLD ITEMS:</p> <p>OPT 0890-C, SOLENOID VALVES, AC, 1" NPT (TWO REQUIRED)                      OPT 060-A, FUEL STRAINER, 1-25 GPM PUMPS                      OPT 087-C, MANUAL BALL VALVE, 1" BRONZE (THREE REQUIRED)                      OPT 089, NEEDLE VALVE SET AT 12 GPM                      OPT 103, FLOW GAUGE</p>
FPP-1	FUEL POLISHING PUMP	BLDG. 2	SIMPLEX SELF CONTAINED SKID	OUTSIDE ON SLAB	50 PSIG	0	15	1.5	460	3	<p>SIMPLEX MODEL: SFG15C-A/2. PROVIDE THE FOLLOWING OPTIONS:</p> <p>OPT 230, 7" WIDE SCREEN, COLOR TOUCH SCREEN HMI                      OPT 242, MODBUS VIA FIBER                      OPT 515, 15 GPM CAST IRON PUMP                      OPT 1022, 1.5 HP, 460V AC, 3 PHASE, 60 HERTZ MOTOR, TEFC                      OPT 299, AUXILIARY RELAY, 3 PDT, 10A                      FSOP-096, 1" MOTORIZED BALL VALVE                      FSOP-090, THERMAL EXPANSION PRESSURE RELIEF VALVE                      LEVEL, LEVELS VIA SIMPLEX NETWORK</p>
FSP-1	FUEL SUPPLY PUMP	BLDG. 2	DUPLEX SELF CONTAINED SKID	INSIDE ON FLOOR	50 PSIG	0	15	1.5	460	3	<p>SIMPLEX MODEL: SPS55-AQ-D. PROVIDE THE FOLLOWING OPTIONS:</p> <p>OPT 100-A, PRESSURE GAUGE WITH ISOLATION VALVE, 2"                      OPT 101-A, VACUUM GAUGE WITH ISOLATION VALVE, 2"                      OPT 285, FLOW SWITCH WITH LOSS OF FLOW ALARM                      OPT 349, PLC DUPLEX PUMP CONTROLLER                      OPT 230, 7" WIDE SCREEN, COLOR TOUCH SCREEN HMI                      OPT 242, MODBUS VIA FIBER                      OPT 515, 15 GPM CAST IRON HIGH LIFT PUMP, (TWO REQUIRED)                      OPT 1022, 1.5 HP, 460V AC, 3 PHASE, 60 HERTZ MOTOR, TEFC                      OPT 329, LOW FUEL LEVEL RED LIGHT FOR MAIN TANK                      OPT 299, AUXILIARY RELAY, 3 PDT, 10A                      OPT 334, ALARM HORN WITH SILENCE BUTTON                      OPT 097-A, BACK PRESSURE REGULATING VALVE, 1" NPT</p> <p>PROVIDE THE FOLLOWING ADDITIONAL ITEMS:</p> <p>FSOP-097, 1.5" MOTORIZED BALL VALVE, (FOUR REQUIRED)                      MAIN TANK SELECTION, PROGRAMMING FOR MAIN TANK SELECTION OF TWO MAIN TANKS                      TANK SELECTION, TANK ON-OFF-AUTOMATIC MODE SELECTION                      TANK SELECTED, TANK SELECTED INDICATION                      MAIN TANK STATUS, VIA MODBUS FROM SIMPLEX NETWORK                      ALL TANKS LOW, ALL TANKS LOW LEVEL ALARM                      VALVE POSITION, VALVE OPEN / CLOSED POSITION INDICATION                      VALVE FAIL, VALVE FAIL ALARM</p>
FST-1	ABOVE GROUND FUEL STORAGE TANK	BLDG. 2	DOUBLE WALL STEEL TANK WITH INTERSTITIAL MONITORING	OUTSIDE STEEL TANK PEDISTALS ON STRUCTURAL CONCRETE SLAB AND CONCRETE PEDISTAL SUPPORTS	ATMOSPHERIC	25,000 GALLONS					<p>HIGHLAND TANK MODEL: 25,000 GALLON HORIZONTAL CYLINDRICAL FIREGUARD DOUBLE WALL TANK, (TWO REQUIRED). PROVIDE THE FOLLOWING OPTIONS:</p> <p>TANK PEDISTALS, MANUFACTURER SUPPLIED AND INSTALLED IN FIELD, (FOUR REQUIRED)                      EMERGENCY VENT, 10" FLANGED, BOLT AND GASKET KIT, (FOUR REQUIRED)                      MANWAY, 24" FLANGED, BOLT AND GASKET KIT, (TWO REQUIRED)                      STAIRS, FREE STANDING, HEIGHT AS REQUIRED BY SITE                      PLATFORM, STEP OFF, 24" BY 36", (TWO REQUIRED)                      CATWALK, 24" BY FULL LENGTH OF TWO TANKS PLUS 5' SPAN BETWEEN TANKS.                      FIBERGLASS GRATING, SUPPORTS AT 5' INTERVALS ALONG TANK PER                      MANUFACTURER'S INSTALLATION REQUIREMENTS, MANUFACTURER                      INSTALLED IN FIELD.                      DROP PIPE, 2" FOR PUMP SUCTION INLET, (FOUR REQUIRED)                      FOOT VALVE, 2" DOUBLE POPPET, (FOUR REQUIRED)                      FLANGE, 2" SLIP ON STANDARD RAISED FACE, (FOUR REQUIRED)                      OVERFILL PREVENTION VALVE, 2", 2" FNPT BY 4" FNPT, (TWO REQUIRED)</p>
TFS-1	TANK FILL STATION FOR FST-1	BLDG. 2	PUMPED FILL STATION SELF CONTAINED SKID WITH BY-PASS FOR PUMPER TRUCK.	OUTSIDE AT ROADWAY ON SLAB	23 PSIG	0	300	5	460	3	<p>SIMPLEX MODEL: SP-3-2. PROVIDE THE FOLLOWING OPTIONS:</p> <p>TRANSFER PUMP, 300 GPM @ 55' HD                      PUMP MOTOR, 5 HP, 460V AC, 3 PHASE, 60 HERTZ, TEFC                      BY-PASS BY-PASS FOR PUMPER TRUCK                      OPT 242, MODBUS VIA FIBER                      FSOP-182-A, FULL LOCKABLE ENCLOSURE WITH CONTAINMENT BASIN AND HAND PUMP                      FSOP-062, LEVEL TRANSMITTER, (TWO REQUIRED)                      FSOP-064, 3 LEVEL FLOAT ASSEMBLY, FULL (90%), HIGH (95%), CRITICAL HIGH (98%), (TWO REQUIRED)                      FSOP-065, 1 LEVEL FLOAT ASSEMBLY, LOW (10%), (TWO REQUIRED)                      FSOP-051, TANK LEAK SENSOR, ADJUSTABLE FLOAT SWITCH TYPE, (TWO REQUIRED)                      FSOP-099, 3" MOTORIZED BALL VALVE, (FOUR REQUIRED)                      FSOP-090, THERMAL EXPANSION PRESSURE RELIEF VALVE</p>

**AMERSON WATER TREATMENT PLANT GENERATOR FUEL SYSTEM REPLACEMENT**

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DESIGNER



**CLARK NEXSEN**

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 3920 ARKWRIGHT ROAD SUITE 385  
 MACON, GEORGIA 31210  
 478-743-8415

PROFESSIONAL SEAL



SUBMITTAL

6/1/2026

ISSUE FOR CONSTRUCTION

REVISIONS


KEY PLAN

SHEET  
**SCHEDULES**

**D-601**

DESIGN: DKB  
 DRAWN: RBP  
 REVIEW: RWC

**AMERSON WATER  
TREATMENT PLANT  
GENERATOR FUEL  
SYSTEM REPLACEMENT**

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**CLARK NEXSEN**  
A JMT Company  
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478 743 8415

PROFESSIONAL SEAL



SUBMITTAL

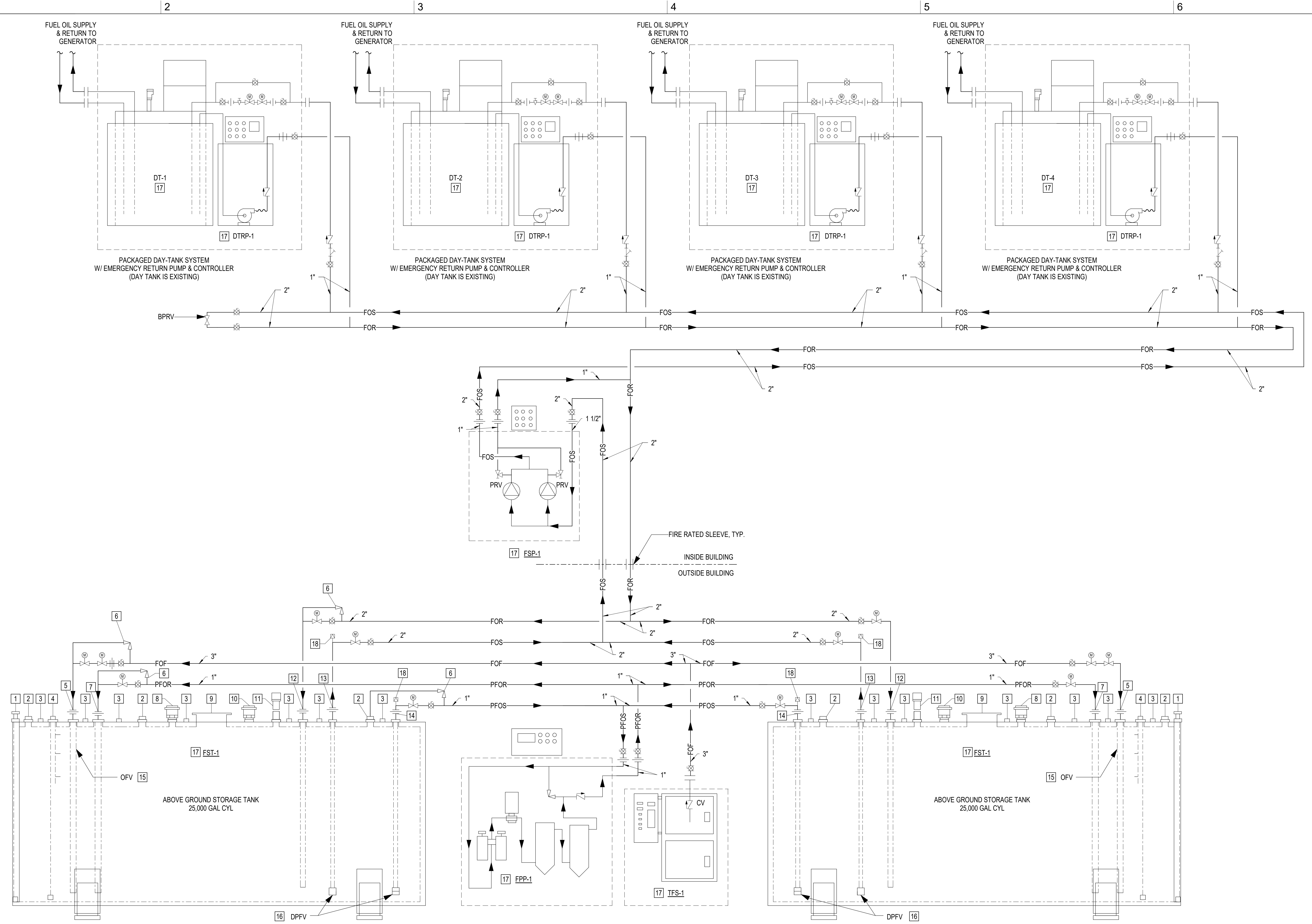
6/1/2026

ISSUE FOR CONSTRUCTION

REVISIONS

NO.	DESCRIPTION

KEY PLAN



**B1 FUEL OIL PIPING DIAGRAM**  
NOT TO SCALE

**GENERAL NOTES**

A. REFER TO SHEET D-001 FOR GENERAL NOTES.

**KEY NOTES**

- TANK INTERSTITIAL LEAK MONITOR SENSOR (OIS) IN 2" PORT. THIS PORT EXTENDS TO BOTTOM OF INTERSTITIAL SPACE.
- SPARE TANK OPENING. ALL USABLE PIPE CONNECTION PORTS ARE 4" THREADED COUPLINGS.
- 2" PORTS FOR MANUFACTURER ON-SITE INSTALLED FIRE GUARD MATERIAL IN INTERSTITIAL SPACE ARE SPACED OUT ALONG TOP OF TANK AND ARE CONNECTED TO INTERSTITIAL SPACE ONLY.
- ULTRASONIC AND 3 POSITION LEVEL SENSORS (SLTA) IN 4" PORT.
- FST-1 FUEL OIL FILL FROM TSF-1.
- THERMAL EXPANSION PRESSURE RELIEF VALVE (TEPRV).
- POLISHED FUEL OIL RETURN FROM FFP-1 IN 4" PORT.
- TANK PRIMARY EMERGENCY VENT (TPEV) IN 10" FLANGED PORT. TPEV IS PROVIDED BY TANK MANUFACTURER.
- TANK MANWAY (TMW) FOR INTERIOR INSPECTION AND MAINTENANCE VIA 24" FLANGED COVER.

**KEY NOTES CONT'D**

- TANK INTERSTITIAL EMERGENCY VENT (TIEV) IN 10" FLANGED PORT. TIEV IS PROVIDED BY TANK MANUFACTURER.
- TANK NORMAL VENT IN 4" PORT.
- DAY TANK FUEL OIL RETURN.
- DAY TANK FUEL OIL SUPPLY.
- POLISHED FUEL OIL SUPPLY TO FFP-1.
- INSTALL OVER FILL PREVENTION VALVE (OFV) AS CLOSE AS POSSIBLE TO TOP INTERIOR OF TANK.
- INSTALL DOUBLE POPPET FOOT VALVE (DPFV) PER TANK MANUFACTURER'S INSTALLATION INSTRUCTIONS OR NO GREATER THAN 6" OFF BOTTOM OF TANK ON ALL PUMP SUCTION LINES.
- REFER TO FLOOR PLANS, SECTION VIEWS, ENLARGED PLANS, DETAILS, SCHEDULES, AND RISER DIAGRAMS FOR INSTALLATION.
- INSTALL ANTI SIPHON VALVE (ASV) ON ALL PUMP SUCTION LINES CONNECTED TO TOP OF ANY STORAGE TANK.

**LEGEND**

- ANTI SIPHON VALVE
- CHECK VALVE
- DIRECTION OF FLOW ARROW
- FULL PORT FUEL OIL RATED BALL VALVE
- MOTORIZED BALL VALVE
- NEEDLE (THROTTLE) VALVE
- THERMAL EXPANSION PRESSURE RELIEF VALVE
- UNION OR FLANGE
- WYE STRAINER

**LEGEND**

- ASV: ANTI SIPHON VALVE
- BPRV: BACK PRESSURE RELIEF VALVE
- DPFV: DOUBLE POPPET FOOT VALVE
- DT: DAY TANK
- DTRP: DAY TANK RETURN PUMP
- FOF: FUEL OIL FILL
- FOR: FUEL OIL RETURN
- FOS: FUEL OIL SUPPLY
- FFP: FUEL POLISHING PUMP
- FSP: FUEL SUPPLY PUMP
- FST: ABOVE GROUND FUEL OIL STORAGE TANK
- MBV: MOTORIZED BALL VALVE
- OFV: OVERFILL PREVENTION VALVE
- OIS: OIL/WATER INTERFACE SENSOR
- PFOR: POLISHING FUEL OIL RETURN
- PFOS: POLISHING FUEL OIL SUPPLY
- PRV: PRESSURE RELIEF VALVE
- SLTA: SUBMERSIBLE LEVEL TRANSMITTER ASSEMBLY
- TEPRV: THERMAL EXPANSION PRESSURE RELIEF VENT
- TFS: TANK FILL STATION
- TIEV: TANK INTERSTITIAL EMERGENCY VENT
- TMW: TANK MANWAY
- TPEV: TANK PRIMARY EMERGENCY VENT

**D-701**

**PIPING DIAGRAM**

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