

EFFINGHAM COUNTY JAIL DOMESTIC BOILER REPLACEMENT

DRAWING LIST:

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- P0.1 SCHEDULES & SPECIFICATIONS PLUMBING
- P1.1 FLOOR PLANS - PLUMBING AND ELECTRICAL
- P2.1 PLUMBING DETAILS



109 Park of Commerce Drive, Suite 6 Savannah, Georgia 31405
PHONE (912) 238-2400 FAX (912) 238-2412

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Revisions

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EFFINGHAM COUNTY JAIL
DOMESTIC BOILER REPLACEMENT

EFFINGHAM COUNTY GEORGIA

Stamp

Sheet Title

TITLE SHEET

Job No. 22032.00

Drawn JPG

Checked JPG

Date 19-APR-2022

Sheet No. **TO.1**

LEGEND & ABBREVIATIONS

| ABBREVIATION | SYMBOL | DESCRIPTION | ABBREVIATION | DESCRIPTION |
|--------------|--------|---------------------------------|--------------|---|
| W, S, D | S | SANITARY WASTE, SOIL & DRAIN | A/C | ABOVE CEILING |
| V | V | VENT - SANITARY | B/F | BELOW FLOOR |
| CW | CW | DOMESTIC COLD WATER | CONN | CONNECTION |
| HW | HW | DOMESTIC HOT WATER (110) | CONT | CONTINUATION |
| HWR | HWR | DOMESTIC HOT WATER RETURN | DN | DOWN |
| GV | GV | GATE VALVE | DWGS | DRAWINGS |
| BV | BV | BALL VALVE | ELEC | ELECTRICAL |
| CV | CV | CHECK VALVE | EXIST | EXISTING |
| WHA | WHA | WATER HAMMER ARRESTOR 'SIZE' | HVAC | HEATING, VENTILATION & AIR CONDITIONING |
| CO | CO | CLEANOUT | HB | HOSE BIBB |
| FCO | FCO | FLOOR CLEANOUT | SAN | SANITARY |
| FD | FD | FLOOR DRAIN 'TYPE' | S | SOIL |
| | S | SOIL OR WASTE STACK DESIGNATION | TYP | TYPICAL |
| | 2 | STACK NUMBER | VTR | VENT THRU ROOF |
| CA | CA | COMPRESSED AIR | W | WASTE |
| HW | HW | DOMESTIC HOT WATER (140) | ETR | EXISTING TO REMAIN |
| | SOFT | SOFT WATER | CTE | CONNECT TO EXISTING |
| CP | CP | CITY PRESSURE WATER | WH | WATER HEATER |
| PP | PP | PUMP PRESSURE WATER | HWC | HOT WATER CIRC PUMP |
| G | G | GAS PIPING | TV | TEMPERATURE MIXING VALVE |

GENERAL NOTES: (PLUMBING)

- ALL UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. VERIFY EXACT LOCATION AND INVERT ELEVATION IN FIELD BEFORE BEGINNING WORK.
- HOSE BIBBS SHALL BE MOUNTED 1'-6" ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE.
- COORDINATE ALL WORK WITH OTHER TRADES.

PLUMBING SPECIFICATIONS

CODES

- THE PLUMBING INSTALLATION AND EQUIPMENT SHALL CONFORM TO THE FOLLOWING:
 - INTERNATIONAL PLUMBING CODE, 2018 EDITION WITH GEORGIA AMENDMENTS.
 - INTERNATIONAL FUEL GAS CODE, 2018 EDITION WITH GEORGIA AMENDMENTS.

TESTING PIPE SYSTEMS

- GENERAL, CONCEALED PIPING AND INSULATED PIPING SHALL BE TESTED IN PLACE BEFORE CONCEALING OR COVERING. TEST SHALL BE CONDUCTED IN THE PRESENCE OF THE ARCHITECT OR HIS DESIGNATED REPRESENTATIVE. PIPING LOCATED UNDERGROUND SHALL BE TESTED BEFORE BACKFILLING. EQUIPMENT, MATERIALS AND INSTRUMENTS FOR TESTING SHALL BE FURNISHED BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER.
- PLUMBING SYSTEMS
 - WATER PIPING. UPON COMPLETION OF THE ROUGH-IN AND BEFORE SETTING FIXTURES, THE ENTIRE DOMESTIC COLD WATER, HOT WATER, AND HOT WATER CIRCULATION PIPING SYSTEMS SHALL BE TESTED AT HYDROSTATIC PRESSURE OF 100 PSIG AND PROVED TIGHT AT THIS PRESSURE FOR A PERIOD OF NOT LESS THAN 2 HOURS IN ORDER TO PERMIT INSPECTION OF ALL JOINTS. WHERE A PORTION OF THE WATER PIPING SYSTEM IS TO BE CONCEALED BEFORE COMPLETION, THIS PORTION SHALL BE TESTED SEPARATELY IN A MANNER DESCRIBED FOR THE ENTIRE SYSTEM.

DOMESTIC WATER SYSTEM

- PROVIDE COMPLETE SYSTEMS OF COLD AND HOT WATER PIPING AND ACCESSORIES SO THAT EVERY FIXTURE AND PIECE OF WATER USING EQUIPMENT IN THIS AREA OF THE BUILDING WILL BE FURNISHED WITH A WATER SUPPLY.
- EXTEND THE DOMESTIC COLD AND HOT WATER AND FILTERED WATER PIPING AND CONNECT, AS SHOWN ON THE DRAWINGS.
- PIPING FITTINGS AND JOINTS
 - PIPE AND FITTINGS SHALL BE AS LISTED HEREIN AND SHALL BE USED ON THE SERVICES INDICATED.
 - DOMESTIC WATER PIPING SHALL BE SCHEDULE 40 CPVC PIPE WITH SOLVENT GLUED JOINTS TO MATCH THE EXISTING.
- DISINFECTION
 - ALL DOMESTIC WATER SERVICE AND SUPPLY PIPING INSTALLED UNDER THIS DIVISION SHALL BE DISINFECTED WITH CHLORINE BEFORE IT IS PLACED INTO OPERATION. THE CHLORINATING MATERIAL SHALL BE LIQUID CHLORINE CONFORMING TO FEDERAL SPECIFICATION BB-C-120 AND SHALL BE INTRODUCED TO THE SYSTEM BY EXPERIENCED OPERATORS ONLY. THE CHLORINE SOLUTION APPLIED TO THE PIPING SECTIONS OR SYSTEM SHALL CONTAIN AT LEAST FIFTY PARTS PER MILLION OF AVAILABLE CHLORINE AND SHALL REMAIN IN THE SECTIONS OR SYSTEM FOR A PERIOD OF NOT LESS THAN SIXTEEN (16) HOURS. DURING THE DISINFECTION PERIOD ALL VALVES SHALL BE OPENED AND CLOSED AT LEAST FOUR TIMES. AFTER THE DISINFECTION PERIOD THE CHLORINATED WATER SHALL BE FLUSHED FROM THE SYSTEM WITH CLEAR WATER UNTIL THE RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN TWO-TENTHS (0.2) - PARTS PER MILLION. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT CERTIFICATION THAT THE SYSTEM WAS DISINFECTED.

INSULATION

- INSULATION SHALL BE FIBERGLASS JACKETED PIPE INSULATION.
- INSTALLATION SHALL COMPLY TO THE MANUFACTURERS REQUIREMENTS.
- INSTALLATION THICKNESS SHALL COMPLY TO THE GEORGIA ENERGY CODE.

HANGERS

- HANGERS SHALL BE CLEVIS TYPE HANGERS. HANGERS SHALL BE COATED AS REQUIRED FOR PIPING SYSTEMS AS INSTALLATION.
- HANGER SPACING SHALL COMPLY TO THE INTERNATIONAL PLUMBING CODE

WATER HEATER

- THE HEATER SHALL BE A FULL MODULATION FIRING DOWN TO 20% OF THE RATED INPUT WITH A TURN DOWN RATION OF 5:1. THE HEATER SHALL HAVE THE ASME "HLW" STAMP AND BE LISTED. THE STAINLESS STEEL COMBINATION SHALL DRAIN CONDENSATE TO THE BOTTOM OF THE HEAT EXCHANGER ASSEMBLY. THE HEATER SHALL BE ANSI Z21.10.3 CERTIFIED. THE HEATER SHALL COMPLY WITH THE LATEST ASHRAE 90.1 STANDARD FOR EFFICIENCY AND BE 98% THERMAL EFFICIENCY.
- THE HEATER SHALL BE CONSTRUCTED OF A STEEL JACKET ASSEMBLY, PRIMED AND PAINTED. THE COMBUSTION CHAMBER SHALL BE SEALED AND COMPLETELY ENCLOSED. A BURNER/FLAME OBSERVATION PORT SHALL BE PROVIDED. THE BURNER SHALL BE STAINLESS STEEL. THE HEATER SHALL BE SUPPLIED WITH A GAS VALVE DESIGNED WITH NEGATIVE PRESSURE REGULATION AND SUPPLIED WITH A VARIABLE SPEED BLOWER.
- THE HEAT SHALL UTILIZE A 24 VOLT CONTROL CIRCUIT. THE CONTROL SYSTEM SHALL HAVE AN ELECTRONIC DISPLAY FOR SETUP, STATUS AND DIAGNOSTICS. THE HEATER SHALL HAVE THE MANUFACTURER'S STANDARD CONTROLS AND INTERFACE FOR THE OPERATION OF MULTIPLE HEATERS. CONTROLS SHALL INTERFACE WITH THE EXISTING CONTROLS ON SITE.
- THE WATER HEATER SHALL HAVE A SIDEWALL MOUNTED VENT AND COMBUSTION AIR INTAKE SYSTEM. VENTING MATERIAL SHALL BE AS APPROVED BY THE HEATER MANUFACTURER.
- THE WATER HEATER SHALL BE CAPABLE OF REMOTE COMMUNICATION AND CAPABLE OF SENDING TEXT MESSAGE OR EMAIL ALERTS.
- MODULATION LOGIC SHALL BE PROVIDED AND CAPABLE OF ROTATION OF THE HEATER.
- THE WATER HEATER SHALL HAVE 2 TERMINAL STRIPS FOR ELECTRICAL CONNECTION. A LOW VOLTAGE CONNECTION BOARD FOR SAFETY AND OPERATION CONTROLS.
- THE HEATER SHALL BE APPROVED FOR 180°F OPERATION.
- THE HEATERS SHALL HAVE A 5 YEAR WARRANTY ON THE HEAT EXCHANGERS AND 1 YEAR PARTS WARRANTY. SEE DRAWINGS FOR HEATER SIZING.
- THE HEATER SHALL BE SUPPLIED WITH THE MANUFACTURER'S CIRCULATING PUMP. SEE SCHEDULE FOR FLOW, HEAD AND HORSEPOWER. THE PUMP SHALL BE WIRED TO RUN WITH INTERMITTENT PUMP CONTROL.
- THE HEATER SHALL HAVE MANUFACTURER'S START UP AND 8 HOURS OWNER TRAINING AT START UP.
- THE WATER HEATERS SHALL BE LOCHINVAR AWH1500 OR A PRIOR APPROVED EQUAL.
- THE HEATER SHALL BE SUPPLIED WITH A CONDENSATE NEUTRALIZATION KIT.

STORAGE TANK

- STORAGE TANK SHALL BE A VERTICAL TANK HAVING A STORAGE CAPACITY OF 257 GALLONS. THE TANK SHALL BE CONSTRUCTED WITH AN INNER CHAMBER DESIGNED TO RECEIVE ALL CIRCULATION TO AND FROM THE WATER HEATER TO ELIMINATE TURBULENCE IN THE TANK. THE BAFFLED TANK SHALL SUPPLY 80% OF TANK CAPACITY WITHOUT A DROP IN OUTLET TEMPERATURE.
- THE STORAGE TANK SHALL BE CONSTRUCTED IN ACCORDANCE WITH (STANDARD/ASME) REQUIREMENTS IF SAME IS STAMPED AND REGISTERED WITH THE NATIONAL BOARD OF BOILERS AND PRESSURE VESSEL INSPECTORS. THE STORAGE TANK SHALL HAVE A WORKING PRESSURE OF (125/150) PSI. THE STORAGE TANK SHALL BE GLASS LINED AND FIRED TO 1600°F TO ENSURE A MOLECULAR FUSING OF GLASS AND STEEL, AND CARRY A FIVE (5) YEAR LIMITED WARRANTY. THE LOCK-TEMP TANK SHALL BE CONSTRUCTED WITH A HEAVY GAUGE GALVANIZED STEEL JACKET ASSEMBLY, PRIMED AND PRE-PAINTED ON BOTH SIDES. THE JACKET AND TANK BASE SHALL BE A WATER TIGHT CONSTRUCTION WITH A BUILT-IN DRAIN PAN, COMPLETE WITH A 3/4" DRAIN CONNECTION TO ASSIST IN PROTECTING AGAINST DAMAGE IN THE EVENT OF A TANK OR COMPONENT LEAKAGE. THE STORAGE TANK SHALL BE COMPLETELY ENCASED IN HIGH DENSITY INSULATION OF SUFFICIENT THICKNESS TO MEET THE ENERGY EFFICIENCY REQUIREMENTS OF THE LATEST EDITION OF THE ASHRAE 90.1 STANDARD. THE STORAGE TANK SHALL BE LOCHINVAR RGA0257 OR PRIOR APPROVED EQUAL.

CIRCULATION PUMPS (HWC-1)

- DOMESTIC HOT WATER CIRCULATION PUMP SHALL BE THE IN-LINE CENTRIFUGAL TYPE DESIGNED FOR 125 PSI (860 KPA) WORKING PRESSURE WITH BRONZE BODY AND IMPELLER, MECHANICAL SEALS AND STAINLESS STEEL IMPELLER SHAFT. THE PUMP MOTOR SHALL BE THE OPEN DRIP-PROOF DESIGN WITH BALL BEARINGS, BUILT-IN THERMAL OVER-LOAD PROTECTORS, AND SHALL OPERATE AT 1750 RPM. PUMP SHALL HAVE THE CAPACITIES AS SHOWN ON THE DRAWINGS. PUMPS SHALL BE:
 - BELL & GOSSETT
 - TRUDER SERIES
 - CIRCULATION SERIES
 - CIRCULATOR SERIES

NATURAL GAS PIPING

- PROVIDE A COMPLETE SYSTEM OF NATURAL GAS PIPING AS SHOWN ON THE DRAWINGS.
- ABOVE GROUND NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE ASTM20 WITH 1501B THREADED MALLEABLE IRON FITTINGS ASTM A47.
- INSTALLATION
 - HORIZONTAL PIPING SHALL BE SLOPED 1/8" PER FOOT TOWARD THE VALVED DRIP LEGS.
 - TAKEOFFS FOR EQUIPMENT SHALL BE FROM THE TOP OF THE MAIN. TAKEOFFS TO DRIP LEGS SHALL BE FROM THE BOTTOM OF THE MAIN.
 - PIPING SHALL BE TESTED AT 200 PSI FOR 1HR. ALL LEAKS SHALL BE REPAIRED.
- ALL WORK SHALL COMPLY TO CODES.

INSULATION

- ALL WATER PIPING SHALL BE INSULATED WITH FIBERGLASS JACKETED. INSULATION TO MATCH EXISTING.
- THICKNESS SHALL COMPLY TO THE INTERNATIONAL ENERGY CODE REQUIREMENTS.

WATER HEATERS - GAS

| HEATER NUMBER | WH-1 | WH-2 |
|--|----------------|----------------|
| SPEC. TYPE | --- | --- |
| LOCATION | SEE DWGS | SEE DWGS |
| STORAGE, GALLONS | ② | ② |
| RECOVERY ① | 1,782 | 1,782 |
| ENTERING WATER TEMPERATURE, °F. | 60 | 60 |
| LEAVING WATER TEMPERATURE, °F. | 140 | 140 |
| INPUT, BTU/HR. | 1,500,000 | 1,500,000 |
| GAS HEATING VALUE, BTU/FT ³ | 1000 | 1000 |
| ELECTRICAL CHARACTERISTICS | SEE ELEC DWGS. | SEE ELEC DWGS. |
| REMARKS | | |

① GALLONS PER HOUR AT 100° RISE.

② WATER HEATER IS SUPPLIED WITH A REMOTE TANK.

PUMPS

| PUMP NUMBER | HWC-1 | HWC-2 | HWC-3 |
|----------------------------|-----------------|-----------------|-----------------|
| SPEC. TYPE | --- | --- | --- |
| SERVICE | DOMESTIC WATER | DOMESTIC WATER | DOMESTIC WATER |
| LOCATION | SEE DWGS | SEE DWGS | SEE DWGS |
| CAPACITY, GPM | 15 | 115 | 115 |
| DISCHARGE HEAD, FT. | 25 | 22 | 22 |
| SUCTION PRESS., FT. | --- | --- | --- |
| FLUID TEMP., °F. | 140 | 140 | 140 |
| RPM | 1750 | 1750 | 1750 |
| HP | 1/6 | 1 | 1 |
| CONTROLLER | AQUASTAT/TIMER | | |
| ELECTRICAL CHARACTERISTICS | SEE ELEC. DWGS. | SEE ELEC. DWGS. | SEE ELEC. DWGS. |
| REMARKS | | ① | ① |

① PUMP IS SUPPLIED WITH THE WATER HEATER/BOILER. ONE PUMP IS AT EACH BOILER.

STORAGE TANK

| TANK NUMBER | ST-1 | ST-2 |
|-------------------|----------|----------|
| LOCATION | SEE DWGS | SEE DWGS |
| STORAGE, GALLONS | 257 | 257 |
| HEIGHT (INCHES) | 91 | 91 |
| DIAMETER (INCHES) | 34 | 34 |

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EFFINGHAM COUNTY JAIL
 DOMESTIC BOILER REPLACEMENT
 EFFINGHAM COUNTY GEORGIA

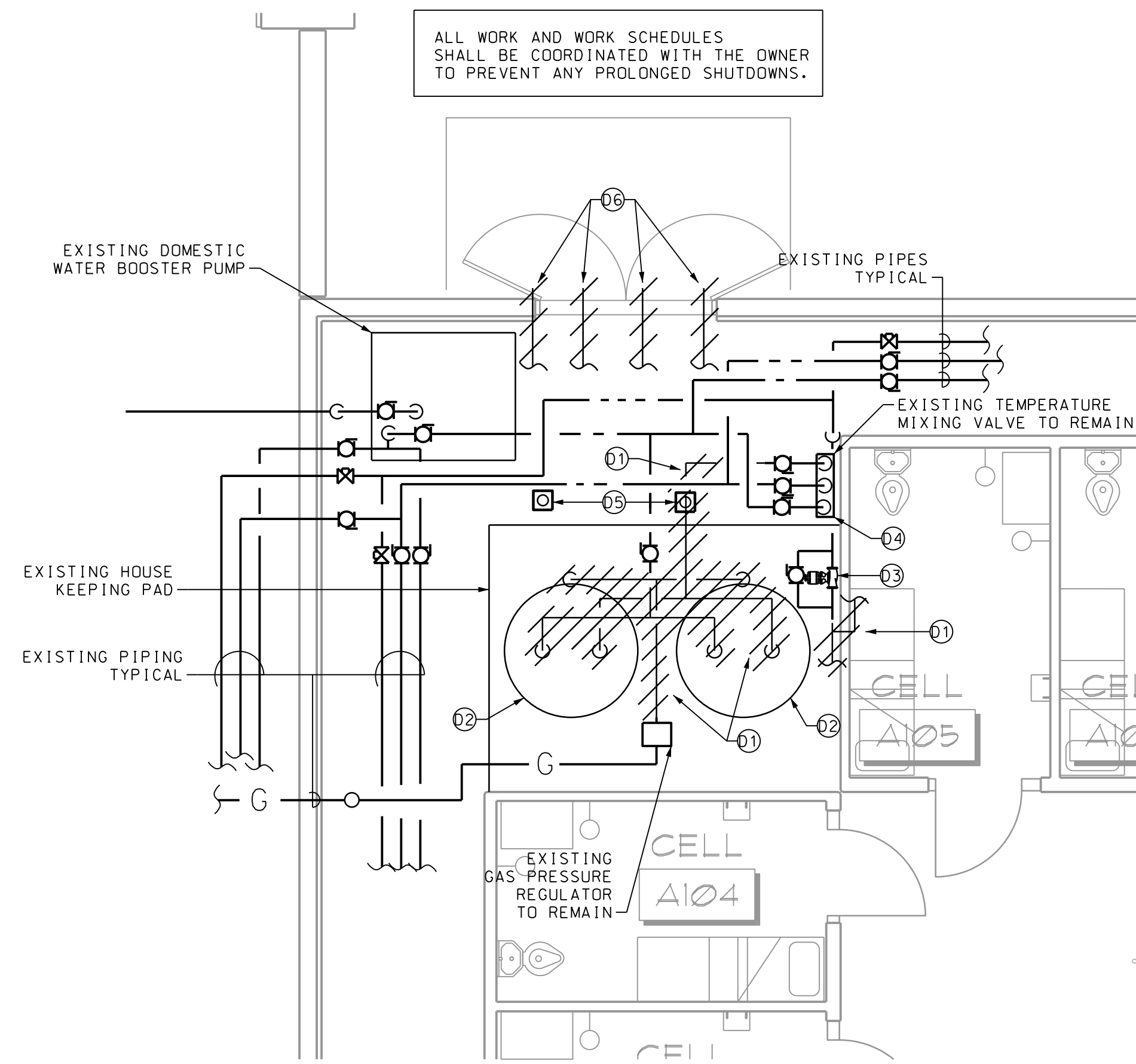
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SCHEDULES & SPECIFICATIONS PLUMBING

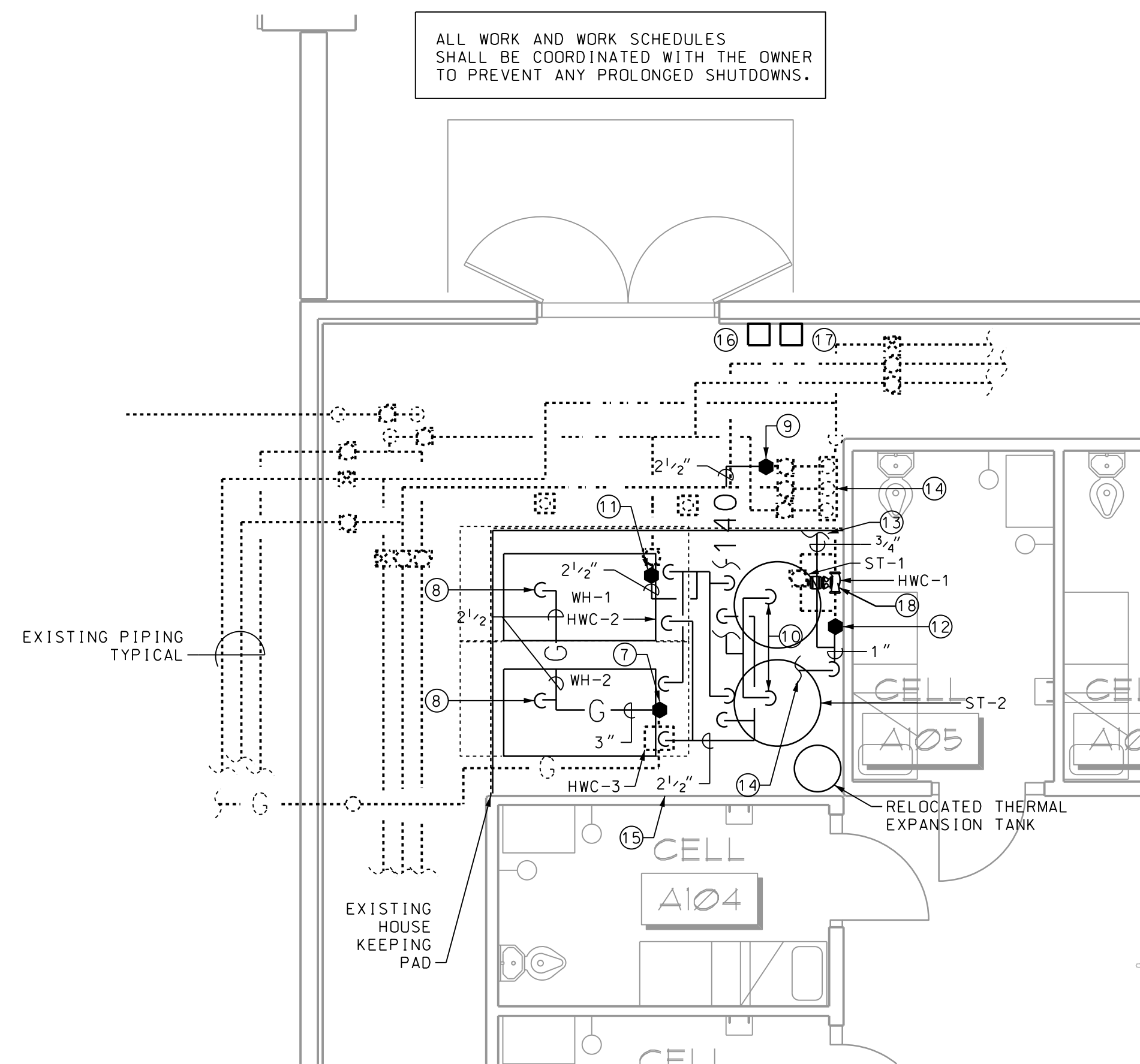
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RELEASED FOR CONSTRUCTION



1 FLOOR PLAN - PLUMBING DEMOLITION
 P1.1 SCALE: 1/4" = 1'-0"



3 FLOOR PLAN - PLUMBING PIPING
 P1.1 SCALE: 1/4" = 1'-0"

NOTES: (REFERENCE 1/P1.1)

- 11 EXISTING CW, HW (140) HW, HWR AND GAS PIPING SHOWN HATCHED REMOVED AND PROPERLY DISPOSED OF. COORDINATE WITH NEW WORK POINTS OF RECONNECTION.
- 12 EXISTING WATER HEATER AND TRIM TO BE REMOVED AND DISPOSED OF. THE EXISTING THERMAL EXPANSION TANK SHALL BE RELOCATED.
- 13 EXISTING PUMP TO BE REMOVED AND DISPOSED OF. SEE NEW WORK FOR REPLACEMENT.
- 14 EXISTING THERMAL MIXING VALVE TO REMAIN. MODIFY PIPING AS REQUIRED FOR NEW PIPING. SEE WATER HEATER DETAIL.
- 15 EXISTING FLOOR DRAINS TO REMAIN.
- 16 EXISTING 6" FLUES AND 6" AIR INTAKES TO BE REMOVED TO WATER HEATER AND DISPOSED OF.

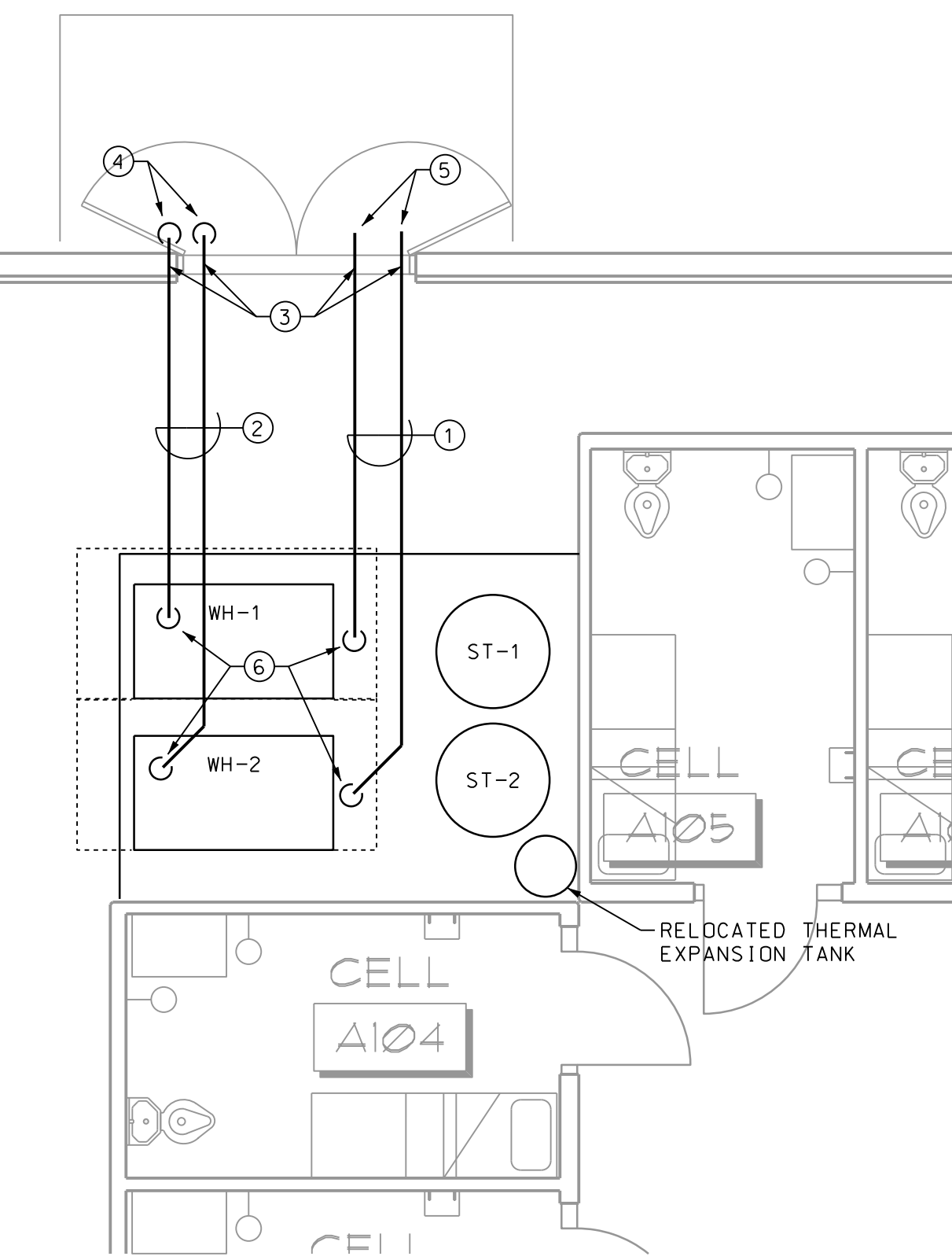
NOTES: (REFERENCE 2/P1.1 & 3/P1.1)

- 1 8" EXHAUST FLUE OVERHEAD. COORDINATE WITH EXISTING CONDITIONS.
- 2 8" AIR INTAKE OVERHEAD. COORDINATE WITH EXISTING CONDITIONS.
- 3 MODIFY THE EXISTING OPENINGS IN CONCRETE WALL AS REQUIRED FOR INCREASED PIPE SIZE. OPENINGS SHALL BE CORE DRILLED.
- 4 8" AIR INTAKE TURN DOWN WITH BIRD SCREEN. SEE 2/P2.1 FOR SCHEMATIC.
- 5 8" EXHAUST FLUE WITH BIRD SCREEN. SEE 2/P2.1 FOR SCHEMATIC.
- 6 8" DOWN TO CONNECTION AT HEATER.
- 7 CONNECT TO THE EXISTING GAS AT OUTLET OF THE PRESSURE REGULATOR.
- 8 2 1/2" GAS DN TO HEATER. INSTALL VALVE, UNION AND DRIP LEG AT THE CONNECTION.
- 9 CONNECT TO THE EXISTING 2 1/2" (140) HW.
- 10 2 1/2" (140) HW DOWN TO STORAGE TANKS. SEE 1/P2.1 FOR VALVES, ETC.
- 11 CONNECT TO THE EXISTING 2 1/2" CW AT VALVE.
- 12 CONNECT TO THE EXISTING 1" HWR.
- 13 EXTEND 3/4" HWR AND CONNECT TO THE EXISTING TEMPERING VALVE AS SHOWN ON 1/P2.1.
- 14 EXTEND 1" HWR AND CONNECT TO THE CW PIPING AS SHOWN ON 1/P2.1.
- 15 FOR ADDITIONAL PIPING, PIPE SIZES, VALVES TRIM ETC. SEE 1/P2.1.
- 16 VERIFY IF SPACE HAS EMERGENCY STOP SWITCH AT EXIT FOR GAS FIRED BOILERS. IF MISSING PROVIDE TO STOP ALL BOILERS WHEN ENERGIZED.
- 17 PROVIDE AND INSTALL A CARBON MONOXIDE SENSOR. SENSOR SHALL ALARM AT 50 PPM AND BOILERS SHALL BE INTERLOCKED TO DISABLE BURNERS WHEN THE MEASURED LEVEL OF CO RISES ABOVE 200 PPM. THE CO SENSOR SHALL ALSO DISABLE THE BURNERS UPON LOSS OF POWER TO THE DETECTOR.
- 18 RELOCATE PUMP TO PROVIDE SERVICE ACCESS.

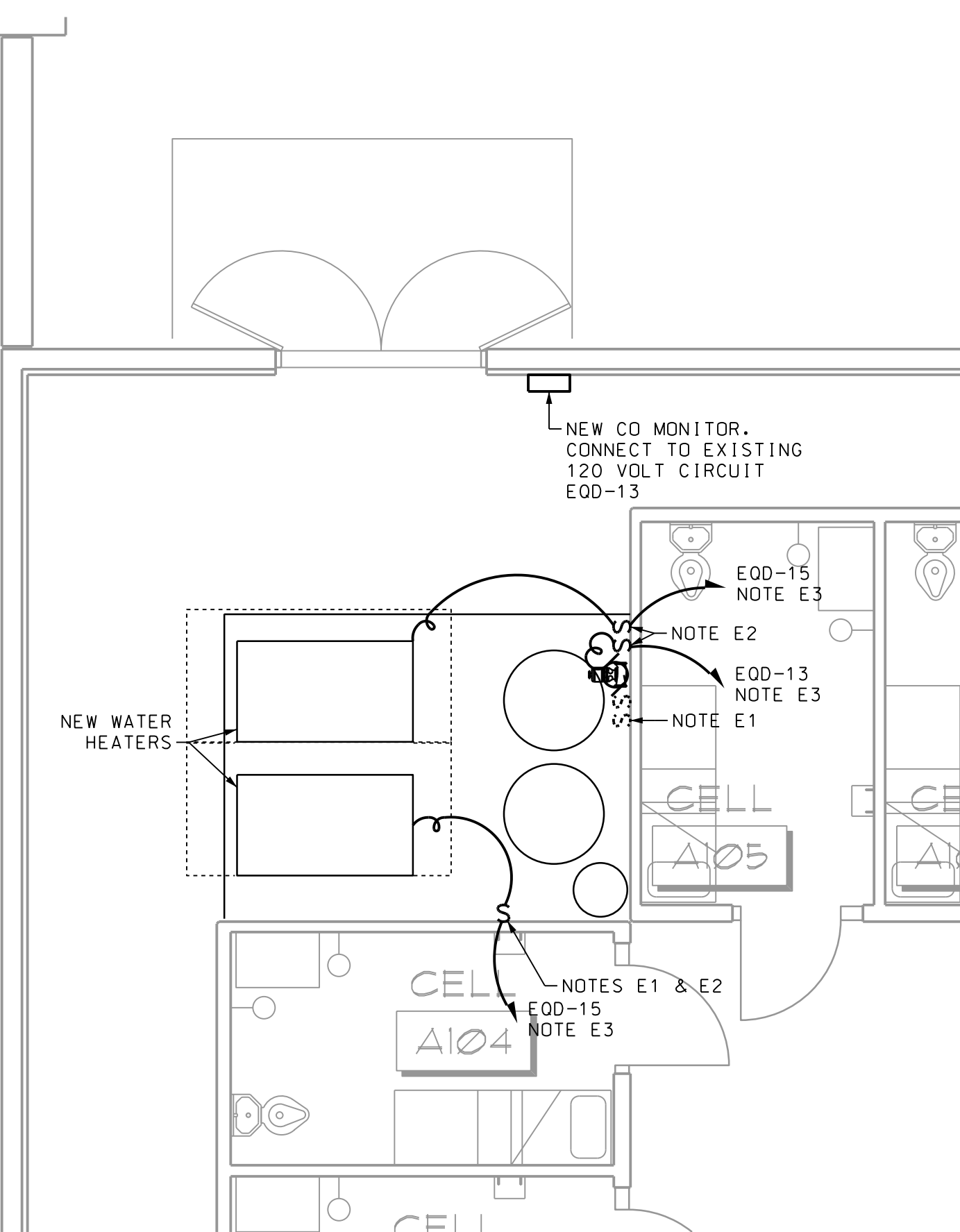
NOTES: (REFERENCE 4/P1.1) - ELECTRICAL

- E1. REMOVE CONNECTIONS TO EXISTING WATER HEATERS (2) AND HWC-1 CIRC PUMP FROM EXISTING CIRCUITS. INTERCEPT CIRCUITS WITH NEW JUNCTION BOX AND RELOCATE SWITCHES SO THEY ARE ACCESSIBLE.
- E2. CONNECT NEW HEATERS AND NEW CIRC PUMP HWC-1 TO EXISTING CIRCUITS SHOWN. WATER HEATERS DESIGN RATED 1HP, 7A, 120V AND HWC-1 IS RATED 1/4 HP, 120V. PROVIDE NEW OVERLOAD HEATERS IN EXISTING MOTOR SWITCHES TO MATCH NEW LOADS. ALL CONNECTIONS TO BE COORDINATED WITH EQUIPMENT PROVIDED AND USE FLEXIBLE CONDUIT. PROVIDE GREEN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS.
- E3. EXISTING 120 VOLT CIRCUIT. MAINTAIN TO SERVE NEW EQUIPMENT.

ALL WORK AND WORK SCHEDULES SHALL BE COORDINATED WITH THE OWNER TO PREVENT ANY PROLONGED SHUTDOWNS.



2 FLOOR PLAN - PLUMBING VENTING
 P1.1 SCALE: 1/4" = 1'-0"



4 FLOOR PLAN - ELECTRICAL
 P1.1 SCALE: 1/4" = 1'-0"

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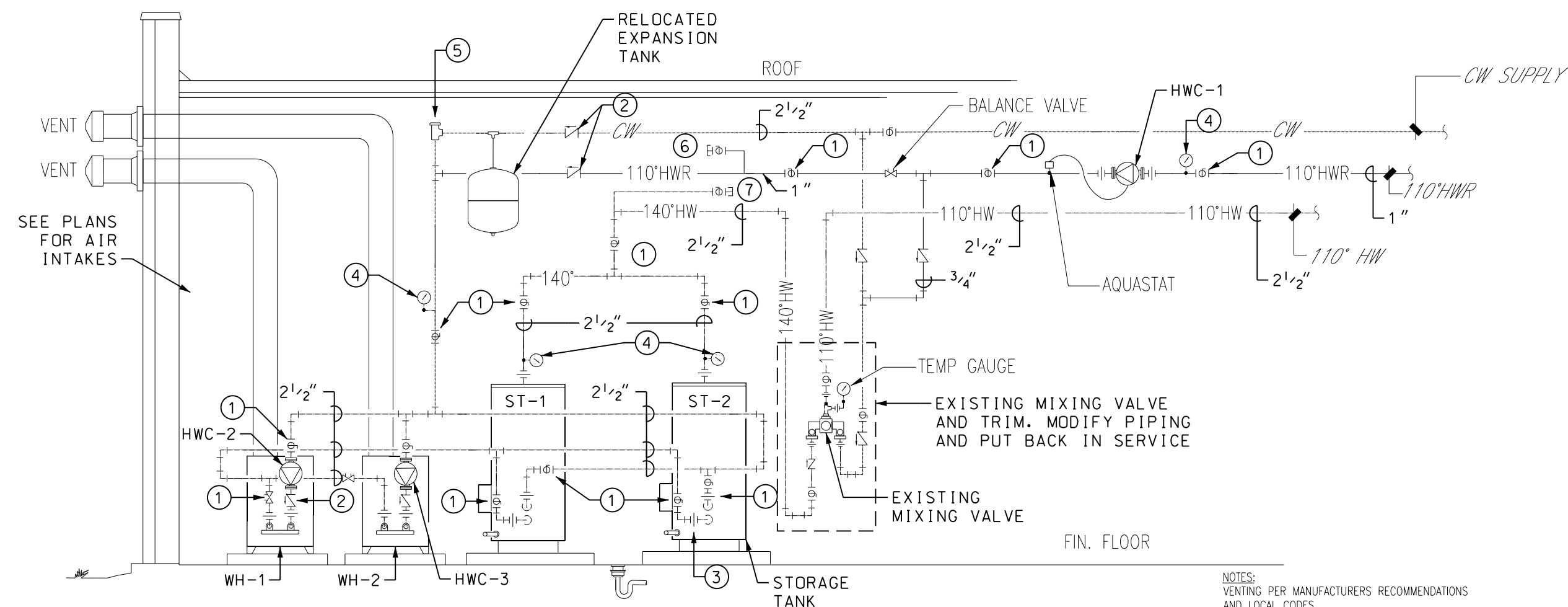
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Sheet Title
FLOOR PLANS - PLUMBING AND ELECTRICAL

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ALL LOOP PIPING BETWEEN HEATERS AND TANK SHALL BE 2 1/2" UNLESS REQUIRED OTHERWISE BY MANUFACTURER

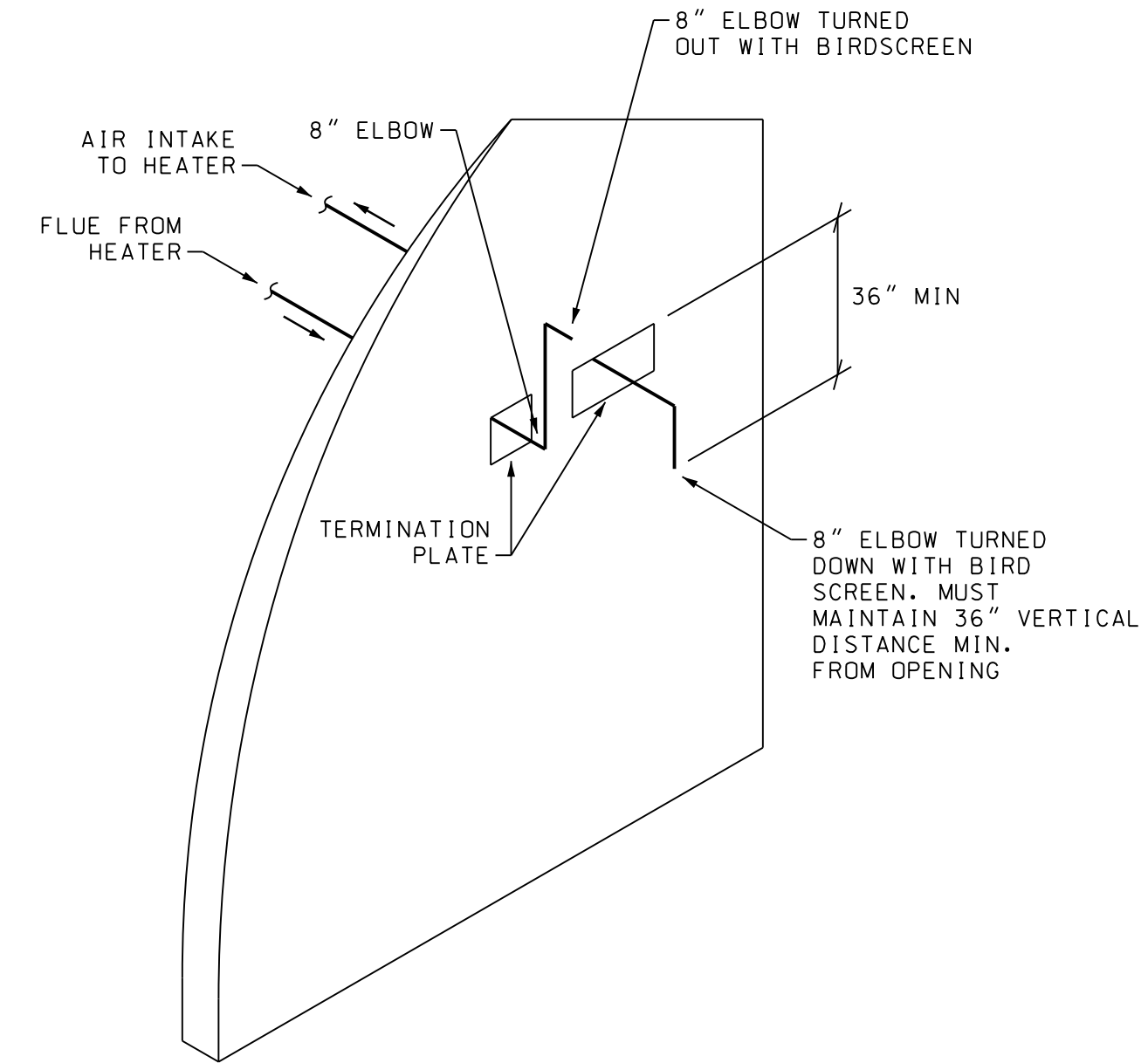


NOTES:

- ① BALL VALVE (TYP)
- ② CHECK VALVE (TYP)
- ③ UNION (TYP)
- ④ TEMPERATURE GAUGE (TYP)
- ⑤ VACUUM BREAKER
- ⑥ 1" HWR VALVED AND CAPPED FOR FUTURE CONNECTION. LOCATE VALVE AND CONNECTION IN AN ACCESSIBLE LOCATION.
- ⑦ 2-1/2" HE VALVED AND CAPPED FOR FUTURE CONNECTION. LOCATE VALVE AND CONNECTION IN AN ACCESSIBLE LOCATION.

NOTES:
VENTING PER MANUFACTURERS RECOMMENDATIONS AND LOCAL CODES
DRAWINGS FOR SCHEMATIC PURPOSES ONLY. ALL VALVES & EQUIPMENT MUST BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.

1 WATER HEATER PIPING DETAIL
P2.1 SCALE: SCHEMATIC



1. ALL WORK FOR THE INSTALLATION OF THE AIR INTAKE AND EXHAUST FLUE SHALL COMPLY TO THE HEATER MANUFACTURERS REQUIREMENTS.
2. THE OPTION TO INSTALL A CONCENTRIC SIDEWALL VENT KIT, IF PROVIDED BY THE HEATER MANUFACTURER IS AN OPTION. THE INSTALLATION, SHALL COMPLY TO THE MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL PATCH ADDITIONAL HOLES IN THE WALL TO MATCH THE EXISTING.

2 SIDEWALL DIRECT VENTING
P2.1 SCALE: SCHEMATIC

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