

YORK COUNTY PRISON WATER HEATING SYSTEM UPGRADES

778 JUSTICE BLVD YORK, SC 29745

VICINITY MAP





DRAWING INDEX SHEET NAME TITLE SHEET PLUMBING SCHEDULES AND NOTES PLUMBING DETAILS PLUMBING WATER HEATER SCHEMATIC PLUMBING FLOOR PLAN - OVERALL PLUMBING FLOOR PLAN - DEMOLITION PLUMBING FLOOR PLAN - DOMESTIC WATER PLUMBING FLOOR PLAN - GAS AND FLUE PLUMBING FLOOR PLANS - ENLARGED MECHANICAL FLOOR PLAN ELECTRICAL LEGEND AND SPECIFICATIONS ELECTRICAL SINGLE-LINE DIAGRAM ELECTRICAL SCHEDULES ELECTRICAL FLOOR PLAN

CODE INFORMATION

2021 SOUTH CAROLINA BUILDING CODE 2021 SOUTH CAROLINA FIRE CODE 2021 SOUTH CAROLIINA PLUMBING CODE 2021 SOUTH CAROLINA FUEL GAS CODE 2021 SOUTH CAROLINA MECHANICAL CODE 2020 NATIONAL ELECTRICAL CODE (NFPA 70)

PROJECT SCOPE

THE PROJECT SCOPE OUTLINED IN THIS SET OF DOCUMENTS INCLUDES A FULL WATER HEATER REPLACEMENT.



OWNER YORK COUNTY GOVERNMENT 6 S. CONGRESS STREET YORK, SC 29745

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PROJECT INFORMATION:

YORK COUNTY PRISON WATER HEATING SYSTEM UPGRADES

> 778 JUSTICE BLVD YORK, SC 29745

ISSUE DATE: 06/25/2024

REVISIONS

DESCRIPTION NO. DATE

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DRAWING NAME

TITLE SHEET

DRAWING NO.

Drawn By: DTL Checked By: SLE

HOT WATER FIXTURE LOAD CALCULATION - 125°F					
			WATER		
FIXTURE/EQUIPMENT	QUANTITY	EQUIPMENT GPM	HWFU PER FIXTURE	TOTAL HWFU	
COMBINATION FIXTURE	27	-	0.5	13.5	
LAVATORY	39	-	1.0	39.0	
MOP SINK	6	-	2.25	13.5	
MOP SINK/CAN WASH	1	-	1.5	1.5	
WALL SHOWER	32	-	3.0	96.0	
SHOWER	2	-	1.0	2.0	
EMERGENCY EYE/FACE WASH	1	-	10.0	10.0	
DENTAL SINK	1	-	1.0	1.0	
HAND SINK	2	-	1.0	2.0	
		TOTA	L 125°F HWFU	178.5	
EQUIPMENT 125°F = GPM 0.0		GPM 125°F HWFU		60.7	
TOTAL 125°F DEMAND 60.7 GPM					
41.0 GPM OF 160°F WATER REQUIRED TO DELIVER 60.7 GPM OF 125°F WATER					

HOT WATER FIXTURE LOAD CALCULATION - 140°F					
		WATE			
FIXTURE/EQUIPMENT	QUANTITY	EQUIPMENT GPM	HWFU PER FIXTURE	TOTAL HWFU	
BEVERAGE COUNTER	1	1 - 0.5			
HOSE REEL	1	-	2.25	2.25	
3-COMP. SINK	3 -		3.0	9.0	
SOILED DISHTABLE	1	1 -		1.0	
DISHWASHER	1 5.0				
		TOTAL 1	40°F HWFU	12.75	
EQUIPMENT 140°F = GPM	EQUIPMENT 140°F = GPM 5.0 GPM 140°F HWFU 16.4				
TOTAL 140°F DEMAND 21.4 GPM					
17.0 GPM OF 160°F WATER REQUIRED TO DELIVER 21.4 GPM OF 140°F WATER					

HOT WATER FIXTURE LOAD CALCULATION - 160°F					
WATER					
FIXTURE/EQUIPMENTNT	QUANTITY	EQUIPMENT GPM	HWFU PER FIXTURE	TOTAL HWFU	
WASHER/EXTRACTOR, 30 LB	2	2.3	-	-	
LAUNDRY SINK	1	-	1.5	1.5	
		TOTAL	160°F HWFU	1.5	
EQUIPMENT 160°F = GPM	4.6	GPM 160°F HWFU 4.0		4.0	
_	8.6 GPM				

HOT WATER FIXTURE LOAD CALCULATION TOTALS				
SYSTEM DESCRIPTION		TOTAL 125°F WATER REQUIRED	TOTAL 140°F WATER REQUIRED	QUANTITY OF 160°F WATER NEEDED
125°F SYSTEM		60.7 GPM	-	41.0 GPM
140°F SYSTEM		-	21.4 GPM	17.0 GPM
160°F SYSTEM				8.6 GPM
TOTAL 160°F WATER REQUIRED 66.6 GPM				
TOTAL 160°F WATER PRODUCED PER HEATER @ 100°F RISE 3.8 GPM				
TOTAL REQUIRED TANKLESS HEATERS 18				
BASED ON 199,000 BTUH RATING OF EACH CONDENSING HEATER AS SCHEDULED				

	HOT WATER RECIRCULATION PUMP SCHEDULE							
MARK	SERVES	MANUFACTURER	MODEL	GPM	HEAD (FEET)	DISCHARGE SIZE (INCHES)	ELECTRICAL V/PH/HZ	NOTES
RCP-1	125°F WATER HEATER A152	TACO	DHW VR15H	30	50	2" FLANGED	120/1/60	A thru D
RCP-2	140°F WATER HEATER A152	TACO	0011-SF	4	27	3/4" FLANGED	120/1/60	A thru D
RCP-3	160°F WATER HEATER A152	TACO	0011-SF	4	23	3/4" FLANGED	120/1/60	A thru D
NOTES:								

A. ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS AND DISCONNECTS FOR ALL RCP AS REQUIRED. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

C. PROVIDE D. PUMP Co AND NSF

	OAO DEMANDI OAD OALOULATIONO
3F 6	31 COMPLIANT.
OC	NSTRUCTION TO BE STAINLESS STEEL, COMPATIBLE FOR USE WITH DOMESTIC WATER SYSTEMS
E'	WALL MOUNTING BRACKET, VIBRATION ISOLATION AND FLEXIBLE FLANGED CONNECTION TO PUMPS.
IAL	L BE CONTROLLED BY AQUASTAT, SET FOR 5 DEG TEMPERATURE DIFFERENTIAL.

GAS DEMAND LOAD CALCULATIONS						
MARK	FIXTURE / EQUIPMENT	QUANTITY	EACH UNIT DEMAND BTUH	TOTAL DEMAND BTUH	TOTAL CFH	UNIT CONNECTION SIZE
GWH-1 THRU GWH-6	INSTANTANEOUS GAS WATER HEATER GROUP	1 (6 HEATERS)	199,000	1,194,000	1,194.0	1-1/2"
GWH-7 THRU GWH-12	THRU WATER HEATER GROUP		199,000	1,194,000	1,194.0	1-1/2"
GWH-13 THRU GWH-15	INSTANTANEOUS GAS WATER HEATER GROUP	1 (3 HEATERS)	199,000	597,000	597.0	1-1/4"
GWH-16 THRU GWH-18	THRU WATER HEATER GROUP (3 HEATE		199,000	597,000	597.0	1-1/4"
	TOTAL EXISTING		7,499,000	7,499.0		
DEMOLISHED LOAD (EXISTING WATER HEATERS)				<2,599,000>	<2,599.0>	
ADDED NEW LOAD (GWH1 - GWH18)				3,582,000	3,582.0	
	TOTAL COMBINED N	EW LOAD		8,482,000	8,482.0	
				•		•

3" MAIN BUILDING FEED GAS LINE REQUIRED BASED ON 816 FT EQUIVALENT LENGTH OF PIPE AT 2 PSI, 1.0" WC DROP

2" WATER HEATER BRANCH FEED GAS LINE REQUIRED BASED ON 816 FT EQUIVALENT LENGTH OF PIPE AT 2 PSI, 1.0" WC DROP

GAS LOAD BASED ON 2021 SOUTH CAROLINA FUEL GAS CODE

GAS LOAD BASED ON 2021 SOUTH CAROLINA FUEL GAS CODE, SECTION 402 (IFGS) PIPE SIZING, 402.2 MAXIMUM GAS DEMAND AND TABLES: 2021 SCFGC TABLE 404.4(2) - LESS THAN 2 PSI, 0.5" WC PRESSURE DROP, .60 SPECIFIC GRAVITY, BASED ON 90 FEET EQUIVALENT LENGTH. 2021 SCFGC TABLE 404.4(5) - 2 PSI, 1.0" WC PRESSURE DROP, .60 SPECIFIC GRAVITY, BASED ON 816 FEET (850FT) EQUIVALENT LENGTH.

THERMOSTATIC MIXING VALVE SCHEDULE						
MARK	LOCATION	MANUFACTURER	MODEL	MAX PRESSURE DROP	GPM FLOW RATE (MAX/MIN)	NOTES
<u>TMV-1</u>	125°F - WATER HEATER A152	LEONARD ASSE 1017	PNV-125-LF-R125 2.0 Controller	15 PSI	66 / 0.25	A, B, D
TMV-2	140°F - WATER HEATER A152	LEONARD ASSE 1017	PNV-100-LF-R34 2.0 Controller	10 PSI	25 / 0.5	A, C, E
TMV-3	100°F - WATER GANG SHOWER	LEONARD ASSE 1069	269-LF	5 PSI	3.5 / 1.0	F, G, J
<u>TMV-4</u>	100°F - WATER GANG SHOWER	LEONARD ASSE 1069	369-LF	15 PSI	6.8 / 1.0	F, G, K
<u>TMV-5</u>	100°F - WATER GANG SHOWER	LEONARD ASSE 1069	XL-690-LF-DT-TC	20 PSI	35 / 1.0	F, G, L
<u>TMV-6</u>	105°F - WATER LAVATORY	LEONARD ASSE 1070	270-LF	5 PSI	3.5 / 0.25	F, J
<u>POU</u>	POINT-OF-USE SEE PLANS	LEONARD ASSE 1070	170D-LF	10 PSI	1.25 / 0.25	Н, І

A. MOUNT AT 6'-0" AFF (SEE SECTIONS FOR INSTALLATION CONFIGURATION)

- B. SET OUTLET TEMPERATURE AT 125°F (ADJUST IN FIELD AS REQUIRED TO DESIRED DELIVERY TEMPERATURE AT EXISTING FIXTURES.)
- SET OUTLET TEMPERATURE AT 140°F (ADJUST IN FIELD AS REQUIRED TO DESIRED DELIVERY TEMPERATURE AT EXISTING FIXTURES.) PRE-ASSEMBLED ELECTRONIC MIXING STATION, PRE-PIPED, 3-WAY MIXING VALVE WITH UNION CONNECTIONS SERVICEABLE CHECK VALVES RECIRCULATION CONNECTION AND ISOLATION VALVES, ENHANCED CONTROLLER (PRE-MOUNTED AND PRE-WIRED) WITH WATER TEMPERATURE SENSORS, 100% FACTORY TESTED FOR PLUG-AND-PLAY IN A PACKAGED WALL MOUNT CONFIGURATION. PROVIDE 120 VAC PLUG-IN POWER SUPPLY WITH 6FT CORD TO THE CONTROLLER. CONNECTION: 1" INLET, 1-1/4" OUTLET AND 1-1/4" RETURN, COPPER PIPE
- PRE-ASSEMBLED ELECTRONIC MIXING STATION, PRE-PIPED, 3-WAY MIXING VALVE WITH UNION CONNECTIONS SERVICEABLE CHECK VALVES RECIRCULATION CONNECTION AND ISOLATION VALVES, ENHANCED CONTROLLER (PRE-MOUNTED AND PRE-WIRED) WITH WATER TEMPERATURE SENSORS, 100% FACTORY TESTED FOR PLUG-AND-PLAY IN A PACKAGED WALL MOUNT CONFIGURATION. PROVIDE 120 VAC PLUG-IN POWER SUPPLY WITH 6FT CORD TO THE CONTROLLER. CONNECTION: 3/4" INLET, 1" OUTLET AND 3/4" RETURN, COPPER PIPE CONNECTIONS. MOUNT CENTERLINE OF MIXING VALVE 4'-6" A.F.F. IN CHASE WITH WALL MOUNTING BRACKET OR
- WITHIN 12" OF LAYIN CEILING AS APPLICABLE. PROVIDE REDUCING FITTINGS AS REQUIRED FOR CONNECTION TO PLAN INDICATED PIPE SIZE.
- . SET OUTLET TEMPERATURE AT 100°F (ADJUST IN FIELD AS REQUIRED FOR MAXIMUM DELIVERY
- TEMPERATURE AT EXISTING SHOWERS.) 3/8" COMPRESSION CONNECTIONS - PROVIDE WITH WALL MOUNTING BRACKET, MOUNT HIGH AS
- POSSIBLE BENEATH SINK. PROVIDE NEW STAINLESS STEEL FLEXIBLE SUPPLY, COORDINATE WITH EXISTING STOPS AND FIXTURES.
- SET **POU** POINT-OF-USE MIXING VALVE @ 105°F

CONNECTIONS.

THERMOMETERS.

1/2" MNPT CONNECTIONS - WITH INTEGRAL CHECK VALVES (. 3/4" MNPT CONNECTIONS - WITH INTEGRAL CHECK VALVES 1" FNPT INLETS AND 1-1/2" FNPT OUTLET - INTEGRAL CHECK VALVES AND INLET AND OUTLET DIAL

	PLUMBING SY	MBOLS LEGEND			
	PIPING LEGEND				
← - ·cw·		DOMESTIC COLD WATER - CW			
├── -(E)CW	— - — - — - — -	EXISTING DOMESTIC COLD WATER - (E)CW			
← HW		DOMESTIC HOT WATER - HW - 125°F			
⊱ — -(E)HW —		EXISTING DOMESTIC HOT WATER - (E)HW - 125°F			
← – HWR —	·	DOMESTIC HOT WATER RETURN - HWR - 125°F			
├─ -(E)HWR	 	EXISTING HOT WATER RETURN - (E)HWR - 125°F			
← – HW(140°F) –		DOMESTIC HOT WATER - HW - 140°F			
		EXISTING DOMESTIC HOT WATER - HW - 140°F			
├ ── HWR(140°F)	·	DOMESTIC HOT WATER RETURN - 140°F			
├ (E)HWR(140°F)	·	EXISTING HOT WATER RETURN - (E)HWR - 140°F			
← – HW(160°F) –		DOMESTIC HOT WATER - HW - 160°F			
← (E)HW(160°F)		EXISTING DOMESTIC HOT WATER - HW - 160°F			
├ ── HWR(160°F)	·	DOMESTIC HOT WATER RETURN - 160°F			
├ (E)HWR(160°F)	·	EXISTING HOT WATER RETURN - (E)HWR - 160°F			
<u></u> — − N− −	→	COMBUSTION AIR - IN			
⊱ EX	,	EXHAUST AIR - EX			
⊱ ——ss——		SANITARY SEWER PIPING - SS			
⊢ − -G − −	·	NATURAL GAS PIPING - G			
— — ·(E)G− —	 	EXISTING NATURAL GAS PIPING - (E)G			
SYN	IBOL LEGEND	ABBREVIATIONS			
•	CONNECT TO EXISTING	A AMPS AFF ABOVE FINISHED FLOOR BFF BELOW FINISHED FLOOR			
(#)	PLUMBING NOTE	BFF BELOW FINISHED FLOOR BFP BACKFLOW PREVENTER			

G	N	ATURAL	GAS PIPING - G	
– – (E)G– –	E	XISTING	NATURAL GAS PIPING - (E)G	
SYM	IBOL LEGEND	ABBREVIATIONS		
	CONNECT TO EXISTING	A AFF BFF	AMPS ABOVE FINISHED FLOOR BELOW FINISHED FLOOR	
#	PLUMBING NOTE	BFP BOP	BACKFLOW PREVENTER BOTTOM OF PIPE	
<u>XX-1</u>	FIXTURE / EQUIPMENT DESIGNATION	BTU CD CFH	BRITISH THERMAL UNIT CONDENSATE DRAIN PIPING CUBIC FEET PER HOUR	
OC—	FLOOR DRAIN	CO CTE	CLEANOUT CONNECT TO EXISTING	
©C—	HUB DRAIN	CW CWFU	COLD WATER (DOMESTIC) COLD WATER FIXTURE UNIT	
\otimes —	FLOOR/GRADE CLEANOUT	DFU	DRAINAGE FIXTURE UNIT	
I⊢⊃—	WALL CLEANOUT	DN ECO	DOWN EXTERIOR CLEANOUT	
OC—	P-TRAP	ELEV EWC	ELEVATION ELECTRIC WATER COOLER	
0—	PIPING TURNING UP	E/EX	EXISTING	
C	PIPING TURNING DOWN	FCO FD	FLOOR CLEANOUT FLOOR DRAIN	
_	VENT THRU ROOF	FLA	FULL LOAD AMPS	
اک	BALL VALVE	FOG FPWH	FATS, OIL, AND GREASE FROSTPROOF WALL HYDRANT	
— — —	GATE VALVE	FPM FPS	FEET PER MINUTE FEET PER SECOND	
	PRESS. REDUCING VALVE	FS	FLOOR SINK	
	BACKFLOW PREVENTER	FT/'	FOOT / FEET	

BACKFLOW PREVENTER FLUSH TANK FV FLUSH VALVE + STRAINER G GAS PIPING UNION GAL GALLON GPD GALLONS PER DAY ⊢ WALL HYDRANT GPH GALLONS PER HOUR GPM GALLONS PER MINUTE PIPE CAP GW GREASE WASTE GW&T GREASE WASTE AND TRAP

FLOW INDICATOR HB HOSE BIBB REDUCER HD HUB DRAIN HP HORSE POWER T&P VALVE HW HOT WATER (DOMESTIC) HWFU HOT WATER FIXTURE UNIT

→ CHECK VALVE

B. ALL HOT AND COLD WATER PIPING SHALL BE INSULATED WITH ALL SERVICE JACKET. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PROVIDE FULL WRAP AROUND PIPE MARKERS IN COLOR AND SYSTEM TO MATCH OWNER'S EXISTING SYSTEM.

EQUALS IN ACCORDANCE WITH APPROVED WATER HEATER MANUFACTURER RECOMMENDATIONS.

Hz HERTZ IN / " INCH / INCHES INV INVERT IW INDIRECT WASTE KW KILOWATT LRA LOCKED ROTOR AMPS MBH THOUSAND BRITISH THERMAL UNITS MAX MAXIMUM MIN MINIMUM NC NORMALLY CLOSED NO NORMALLY OPEN NTS NOT TO SCALE OST OVERFLOW (EMERGENCY) STORM PRV PRESSURE REDUCING VALVE RD ROOF DRAIN RPM REVOLUTIONS PER MINUTE RPZ REDUCED PRESSURE ZONE STORM DRAIN SPECIFIC GRAVITY SS SANITARY SEWER SQFT SQUARE FEET TD TRENCH DRAIN TDH TOTAL DYNAMIC HEAD TMV THERMOSTATIC MIXING VALVE TOP TOP OF PIPE TP TRAP PRIMER VOLTS VB VACUUM BREAKER VIV VALVE IN VERTICAL

VTR VENT THRU ROOF

W&T WASTE AND TRAP

WC WATER COLUMN

WCO WALL CLEANOUT

WH WALL HYDRANT

(NOT ALL SYMBOLS ARE USED)

PLUMBING PIPE MATERIAL SCHEDULE

PROVIDE BRASS VALVE TAGS, MATCHING OWNER'S EXISTING SYSTEM. CREATE NEW VALVE SCHEDULE FOR WATER HEATER ROOM AND MOUNT TO WALL, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

WHA WATER HAMMER ARRESTER

WSFU WATER SUPPLY FIXTURE UNIT

HWR HOT WATER RETURN (DOMESTIC)

BY THE SPECIFICATIONS.

PLUMBING GENERAL NOTES

- A. CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL CODES AND HEALTH REGULATIONS HAVING JURISDICTION. CONTRACTOR SHALL PAY ALL FEES AND PERMITS REQUIRED.
- B. CONTRACTOR SHALL GUARANTEE INSTALLATION AGAINST DEFECTS IN WORKMANSHIP, EQUIPMENT AND MATERIAL FURNISHED ON PROJECT FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. PROVIDE EXTENDED GUARANTEES FOR
- EQUIPMENT SUCH AS WATER HEATERS WHEN REQUIRED. C. SUBMIT FOR APPROVAL TO THE ENGINEER THE NUMBER OF SHOP DRAWINGS AND MANUFACTURERS LITERATURE ON ALL PLUMBING FIXTURES & MATERIALS AS REQUIRED
- D. CONTRACTOR SHALL VISIT THE JOB SITE AND EXAMINE PREMISES AT AND ADJACENT TO PROPOSED WORK. VERIFY EXISTING PIPE SIZES, LOCATION AND SUITABILITY FOR CONNECTION TO THE NEW SYSTEM PRIOR TO BID.
- E. DRAWINGS ARE DIAGRAMMATIC AND INTEND TO SHOW APPROXIMATE LOCATION OF PIPING, FIXTURES, ETC. CONTRACTOR SHALL REQUEST AND REVIEW ALL AVAILABLE AS-BUILT DRAWINGS AND COORDINATE WITH OTHER TRADES FOR PIPE ROUTING AND EQUIPMENT PLACEMENT. INSTALL ALL WORK WITHOUT CONFLICT WITH OTHER TRADES AND MAKE MINOR ALTERATIONS AS REQUIRED WITHOUT ADDITIONAL COST TO OWNER.
- F. CONTRACTOR SHALL COOPERATE FULLY WITH OWNER IN SCHEDULING AND MAKING CONNECTIONS TO EXISTING SERVICE LINES SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND SHORTEST POSSIBLE INTERRUPTION OF SERVICE.
- G. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL VOLTAGES, ELECTRICAL LOADS, ETC., OF ELECTRICALLY OPERATED EQUIPMENT PRIOR TO
- H. MAINTAIN A MINIMUM CLEARANCE OF 3'-0" IN FRONT OF ALL ELECTRICAL PANELS AND 1'-0" EITHER SIDE OF PANEL TO STRUCTURE. ALL PIPING SHALL BE ROUTED

PURCHASING EQUIPMENT. ALL EQUIPMENT SHALL BE U.L. AND NEMA APPROVED.

- AROUND THIS AREA. I. MAINTAIN A MINIMUM CLEARANCE OF 3'-0" IN FRONT OF ALL TANKLESS WATER HEATERS, CLEARANCES CAN BE SHARED.
- J. CONTRACTOR SHALL FURNISH AND INSTALL ACCESS PANELS AS REQUIRED FOR PLUMBING DEVICE ACCESS WHEN CONCEALED.
- K. ALL EXISTING SANITARY VENT ROOF PENETRATIONS SHALL BE A MINIMUM DISTANCE OF 10'-0" AWAY FROM ALL ROOFTOP MECHANICAL EQUIPMENT, INTAKE AND FLUE TERMINATIONS AND OTHER BUILDING AIR INTAKE DEVICES.
- ALL HORIZONTAL AND VERTICAL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. SUPPORTS SHALL SECURELY HOLD PIPING, PREVENT VIBRATION, COMPENSATE FOR STATIC AND OPERATIONAL CONDITIONS OF THE VARIOUS SYSTEMS, AND SHALL NOT BE SUBJECT TO ELECTROLYTIC ACTION.
- M. ALL DOMESTIC HOT WATER AND COLD WATER PIPING ABOVE SLAB SHALL BE TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS USING "NO-LEAD" SOLDER. PRESS FIT COPPER FITTING SYSTEM ACCEPTABLE. DOMESTIC WATER PIPING BELOW CONCRETE SLAB SHALL BE TYPE "K" SOFT COPPER. NO SOLDER JOINTS ARE ALLOWED BELOW CONCRETE SLAB. COPPER PIPING PASSING UNDER AND THROUGH CONCRETE SLAB OR WALLS SHALL BE PROTECTED WITH A PROTECTIVE SHEATHING OR WRAPPING TO PREVENT CORROSION TO THE COPPER PIPING.
- N. VALVES SERVING DOMESTIC WATER SYSTEMS SHALL BE FULL PORT BALL VALVES. ALL VALVES SHALL BE LOCATED SO AS TO BE ACCESSIBLE BY MAINTENANCE PERSONNEL.
- O. PROVIDE 1" THICK FIBERGLASS PIPE INSULATION WITH SERVICE JACKET ON ALL DOMESTIC WATER PIPING. DOMESTIC COLD WATER PIPE INSULATION SHALL HAVE A CONTINUOUS VAPOR BARRIER.
- P. ALL WATER PIPING SHOWN ROUTED IN EXTERIOR WALLS SHALL BE LOCATED INSIDE THE BUILDING INSULATION AND FINISHED WALL TO PREVENT FREEZE DAMAGE.
- Q. FLUSH EXISTING HOT WATER SYSTEM PRIOR TO BEGINNING DEMOLITION, SEE SPECIFICATION FOR PROCEDURE. ONCE ALL WORK IS COMPLETE, DISINFECT ENTIRE EXISTING AND NEW SYSTEM, SEE SPECIFICATIONS FOR PROCEDURE.

UNIT PRICING:

CONTRACTOR SHALL PROVIDE LINE ITEM UNIT PRICING IN BID FOR THE REPLACEMENT OF EXISTING DEVICES THAT HAVE THE POTENTIAL FOR NOT HOLDING CALIBRATION OR PROVIDING POSITIVE SHUTOFF, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION

- A. MATERIAL AND LABOR TO REPLACE ONE (1) EXISTING CIRCUIT SETTER THAT IS NOT FUNCTIONING CORRECTLY OR CANNOT BE ADJUSTED DUE TO AGE OR OTHER CIRCUMSTANCES, REPLACE IN LIKE, PROVIDE ALL REQUIRED APPURTENANCES AND REPLACE/REPAIR ALL DAMAGED OR REMOVED INSULATION TO MATCH EXISTING.
- B. MATERIAL AND LABOR TO REPLACE ONE (1) EXISTING ISOLATION OR SHUTOFF VALVE THAT IS NOT FUNCTIONING CORRECTLY OR DOES NOT PROVIDE POSITIVE SHUTOFF DUE TO AGE OR OTHER CIRCUMSTANCES, REPLACE IN LIKE, PROVIDE ALL REQUIRED APPURTENANCES AND REPLACE/REPAIR ALL DAMAGED OR REMOVED INSULATION TO MATCH EXISTING. MEET SPECIFICATIONS FOR NEW







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DEVITA Project No. 23501-04

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WATER HEATING SYSTEM UPGRADES

778 JUSTICE BLVD

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NO. DATE

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DESCRIPTION

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Drawn By: DRB Checked By: DTL

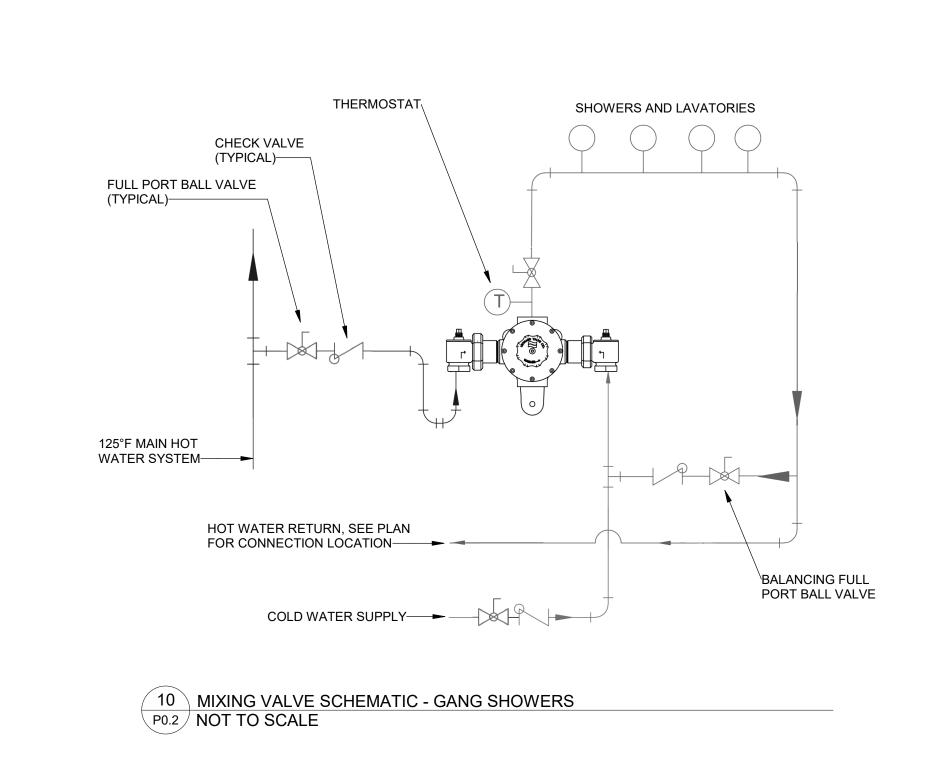
PLUMBING SHEET LIST SHEET NUMBER SHEET NAME PLUMBING SCHEDULES AND NOTES PLUMBING DETAILS PLUMBING WATER HEATER SCHEMATIC PLUMBING FLOOR PLAN - OVERALL PLUMBING FLOOR PLAN - DEMOLITION PLUMBING FLOOR PLAN - DOMESTIC WATER PLUMBING FLOOR PLAN - GAS AND FLUE PLUMBING FLOOR PLANS - ENLARGED

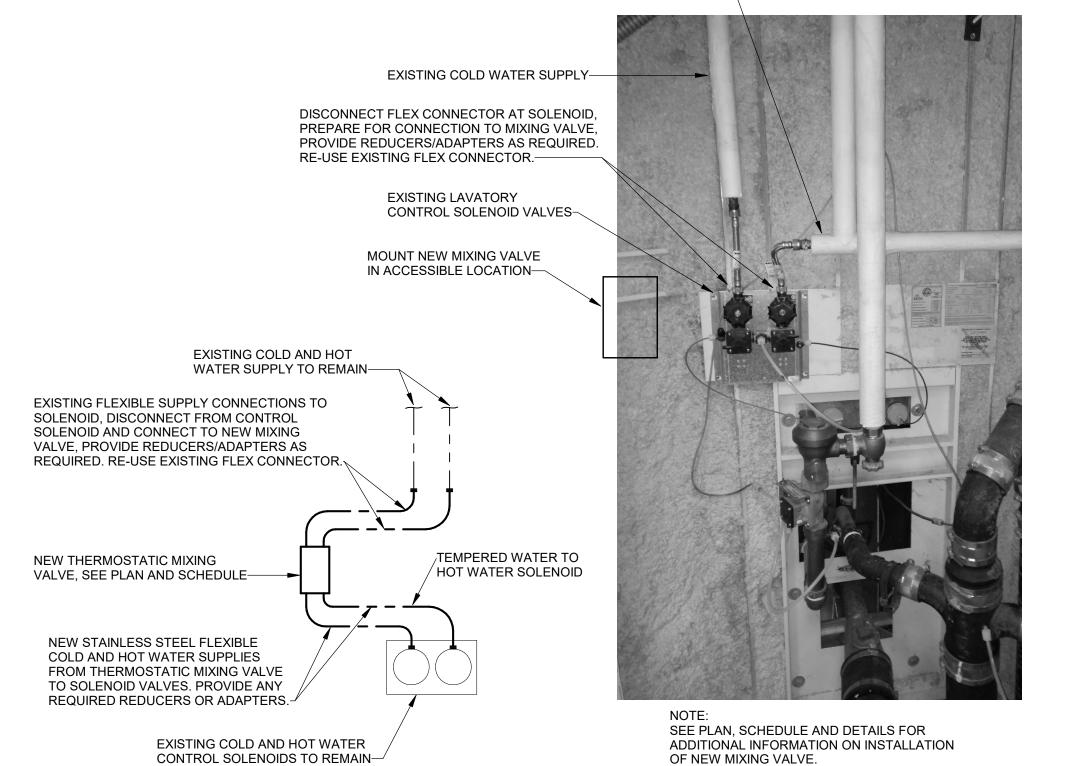
GAS FIRED WATER HEATER SCHEDULE BASIS OF DESIGN | HEATER INPUT FLOW RATE ELECTRICAL LOCATION NOTES MARK RACKING SYSTEM MANUFACTURER | MODEL (BTUH) (100°F RISE) V/PH/HZ 1,194,000 3.8 GPM EACH UNIT 120/1/60 CU-199i 6-UNIT FREE STANDING MODEL TRS06CUIN GWH1 - GWH6 RINNAI HEATER A152 199,000 EA 22.8 GPM TOTAL FOR RACK CONTROLS CU-199i 6-UNIT FREE STANDING MODEL TRS06CUIN 1,194,000 WATER 3.8 GPM EACH UNIT GWH7 - GWH12 | HEATER A152 A THRU P 199,000 EA | 22.8 GPM TOTAL FOR RACK CONTROLS GWH13 - GWH15 HEATER A152 597.000 3.8 GPM EACH UNIT 120/1/60 A THRU N CU-199i 3-UNIT WALL MOUNTED MODEL TRW03CUIN RINNAI 199,000 EA 11.4 GPM TOTAL FOR RACK CONTROLS AND Q 597,000 3.8 GPM EACH UNIT 120/1/60 A THRU N GWH16 - GWH18 | HEATER A152 CU-199i 3-UNIT WALL MOUNTED MODEL TRW03CUIN 199,000 EA 11.4 GPM TOTAL FOR RACK CONTROLS AND Q 68.4 GPM TOTAL SYSTEM

GUIDELINES.

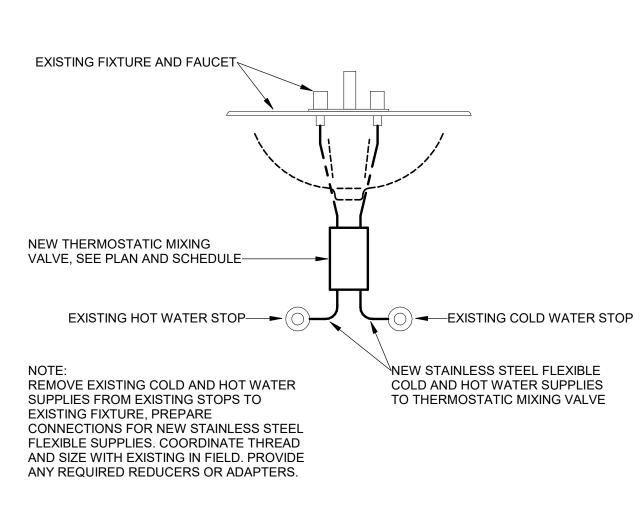
- A. EQUIPMENT, ALL ASSOCIATED WATER SIDE PIPING, VALVES, AND ACCESSORIES SHALL BE PROVIDED BY PLUMBING CONTRACTOR.
- SET HOT WATER OUTLET TEMPERATURE TO 160° FAHRENHEIT EQUIPMENT SHALL MEET ASHRAE 90.1 STANDARDS FOR THERMAL EFFICIENCY AND STANDBY LOSS.
-). PROVIDE FACTORY INSTALLED TEMPERATURE AND PRESSURE SAFETY RELIEF VALVE (T&P VALVE). E. PLUMBING CONTRACTOR SHALL PROVIDE HARD COPPER DRAIN LINE FROM T&P VALVE DOWN TO 6" A.F.F. PIPING TO BE FULL SIZE OF T&P VALVE DISCHARGE CONNECTION.
- F. PROVIDE AND INSTALL ISOLATION VALVE KIT AT EACH UNIT.
- G. UNIT SHALL MEET SCAQMD RULE 1146.2 FOR LOW-NOx EMISSIONS. H. PROVIDE WITH FACTORY 5' LONG POWER CORD WITH NEMA 5-20P PLUG. PLUMBING CONTRACTOR SHALL COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR. REFER TO GAS WATER HEATER SCHEMATIC FOR ADDITIONAL INSTALLATION INFORMATION.
- PROVIDE AND INSTALL DRAIN DOWN KIT, CONTROLLERS AND CASCADE CABLES AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM. COORDINATE WITH MANUFACTURER'S
- K. PROVIDE AND INSTALL THREE (3) RINNAI P/N 103000067 ACID NEUTRALIZER TANKS, ONE FOR EACH RACK, COLLECT CONDENSATE FROM EACH HEATER ON RACK TO TANK AND THEN TO FLOOR DRAIN, TERMINATE WITH 2" AIR GAP. LOCATE TANKS AS SHOWN ON PLAN. ET-1 - PROVIDE AMTROL ST-60VC, ASME, 150 PSI, EXPANSION TANK, 25 GALLON, .44 ACCEPTANCE FACTOR (11 GALLONS), MEETS ASHRAE 188 AND JIS Z 2801 LEGIONELLA
- M. FLUE AND AIR INTAKE PIPE, FITTINGS, HANGERS AND ACCESSORIES SHALL BE IN ACCORDANCE WITH WATER HEATER MANUFACTURER RECOMMENDATIONS AND LOCAL AHJ. PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR, FOR A FULLY FUNCTIONING AIR INTAKE AND FLUE SYSTEM.
- N. UTILIZE THREE (3) EXISTING AND ONE (1) NEW ROOF PENETRATION FOR FLUE AND AIR INTAKE, MODIFY OPENINGS AS REQUIRED FOR INSTALLATION OF NEW PIPING. PROVIDE ALL MÀTERIALS REQUIRED FOR A WATER TIGHT PENETRATION, SEE ROOFING SCOPE ON SHEET P2.2 FOR ADDITIONAL INFORMATION. FLUE AND AIR INTAKE
- TERMINATIONS AT ROOF SHALL MAINTAIN CODE AND MANUFACTURER REQUIRED CLEARANCES. O. PROVIDE ISOLATION PADS UNDER MOUNTING LOCATIONS OF FLOOR MOUNTED UNITS, RACK SHALL NOT BE IN DIRECT CONTACT WITH CONCRETE PAD. P. PROVIDE WITH FACTORY ELECTRICAL ASSEMBLY, (3) NEMA 5-20R RECEPTACLES FACTORY WIRED FOR SINGLE-POINT CONNECTION.
- Q. POWER TO BE PROVIDED BY WALL RECEPTACLE, COORDINATE WITH ELECTRICAL CONTRACTOR LOCATION OF RECEPTACLES.

SYSTEM:	LOCATION:	SIZE:	MATERIAL:	PIPING STANDARD:	JOINING METHOD:	FITTING STANDARD:
DOMESTIC WATER DISTRIBUTION:	ABOVE GRADE	ALL SIZES	TYPE "L" HARD DRAWN	ASTM B88	WROUGHT COPPER SOLDER JOINT SEAMLESS	ASTM B75 AND ASME B16.22
			TEMPER COPPER		SOLDER: 95-5 (95% TIN AND 5% ANTIMONY) NO LEAD OR CORED SOLDER.	ASTM B 32, ALLOY GRADE SB5
					SILVER SOLDER NO LEAD OR CORED SOLDER.	AMS 4773C
NATURAL GAS:	ABOVE GRADE	ALL SIZES	SCHEDULE 40 BLACK STEEL		THREADED MALLEABLE IRON FITTINGS.	
WATER HEATER VENT & AIR INTAKE:	ABOVE GRADE	3" AND SMALLER	POLYPROPYLENE	UL-1738	PUSH FIT FITTINGS	UL-1738
(BASIS OF DESIGN - CENTROTHERM) SEE NOTE E	ABOVE GRADE	4" AND LARGER	POLYPROPYLENE	UL-1738	PUSH FIT FITTINGS	UL-1738
CONDENSATE:	ABOVE GRADE	ALL SIZES	SCH-40 CPVC		SCH-40 CPVC SOCKET FITTINGS AND CEMENT.	

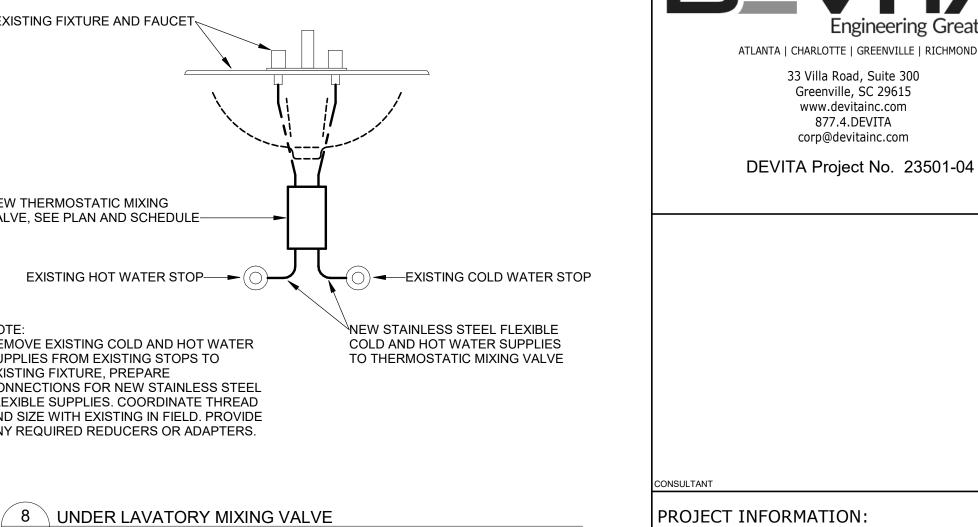


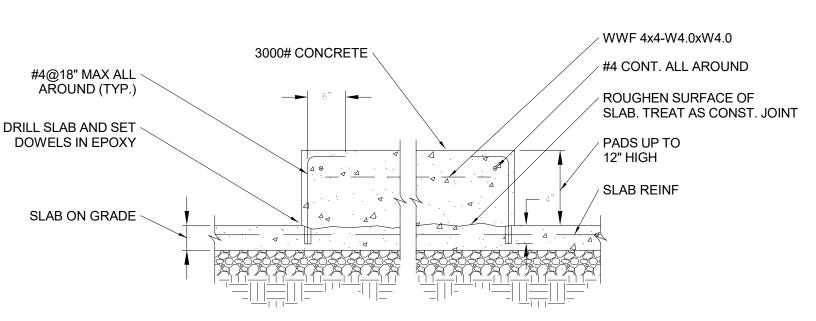


EXISTING HOT WATER SUPPLY



P0.2 NOT TO SCALE





-ADJUSTING DIAL

MIXING VALVE AND PIPING

LOCATED ABOVE CEILING,

WITHIN 12" OF CEILING.

THERMOSTATIC MIXING VALVE POINT OF USE (TMV-3 OR TMV-4). REFER TO SPECIFICATIONS FOR

HOT WATER SUPPLY

BALL VALVE

UNION-

COLD INLET

TEMPERED

OUTLET---

P0.2 NOT TO SCALE

TEMPERED

WATER TO

SHOWERS

11 MIXING VALVE ABOVE CEILING

PIPE TO FIXTURES

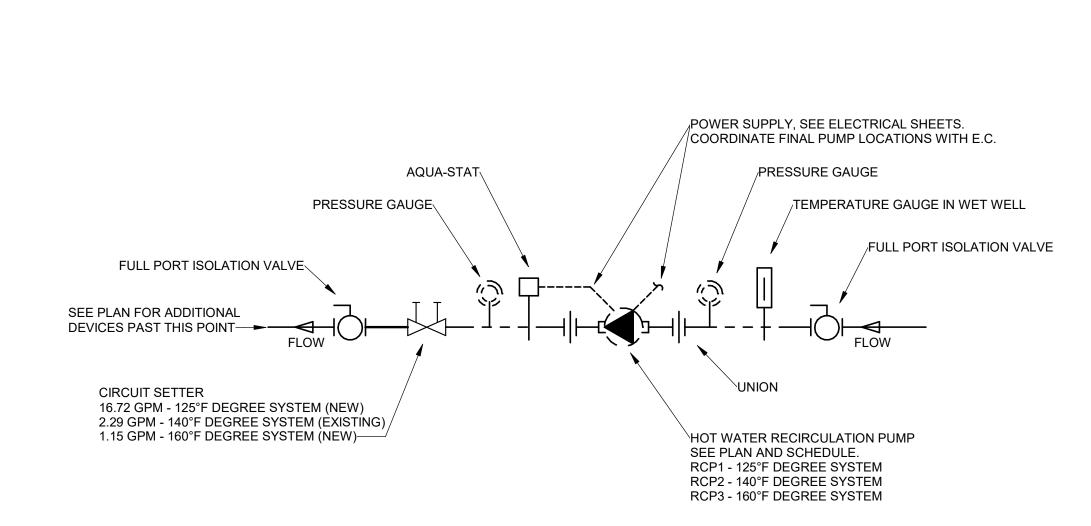
COLD WATER

FIXTURES

SUPPLY PIPE TO

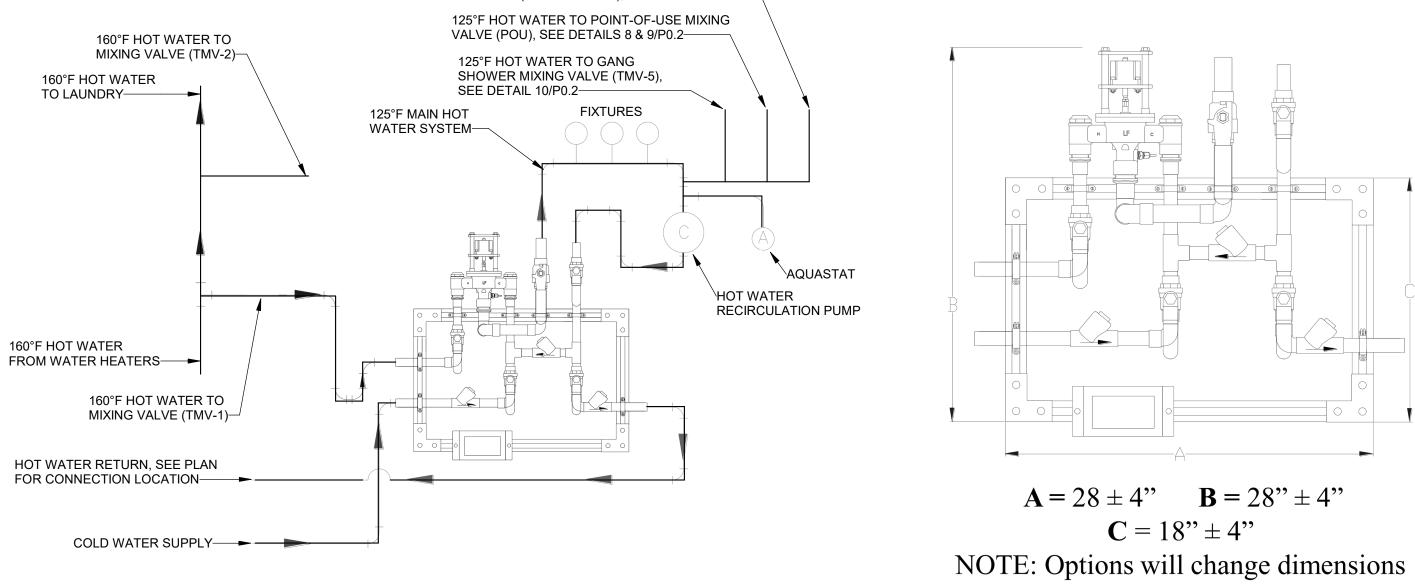
THE EXACT SIZE, SHAPE, AND LOCATION OF EQUIPMENT (HOUSEKEEPING) PAD(S) SHALL BE DETERMINED BY THE CONTRACTOR AFTER APPROVAL OF SHOP DRAWINGS FOR EQUIPMENT. ANCHOR BOLTS WHERE REQUIRED SHALL BE SIZED AND LOCATED ACCORDING TO MANUFACTURER'S REQUIREMENTS.

7 EQUIPMENT PAD DETAIL P0.2 NOT TO SCALE



6 HOT WATER RECIRCULATING PUMP SCHEMATIC

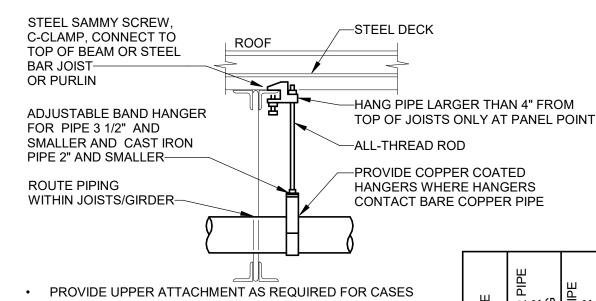
P0.2 NOT TO SCALE



125°F HOT WATER TO MIXING VALVES

9 SINGLE CELL MIXING VALVE P0.2 NOT TO SCALE





- NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER.
- DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. SLOPE ALL WATER PIPING SLIGHTLY TOWARD DRAINABLE LOCATIONS. HANGER SPACING FOR PIPE SIZE: AS INDICATED ON TABLE.
- FOR PIPE SIZE: 2" AND SMALLER = 3/8", 2 1/2" TO 3" = 1/2", 4" = 5/8", 6" = 3/4", 8" AND LARGER = 7/8". • LOCATE HANGERS WITHIN 1'-0" OF VALVES AND FITTINGS.
- PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS WITHIN 1'-0" OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. CHAINS AND PERFORATED STRAP IRON AND STEEL ARE NOT ACCEPTABLE.

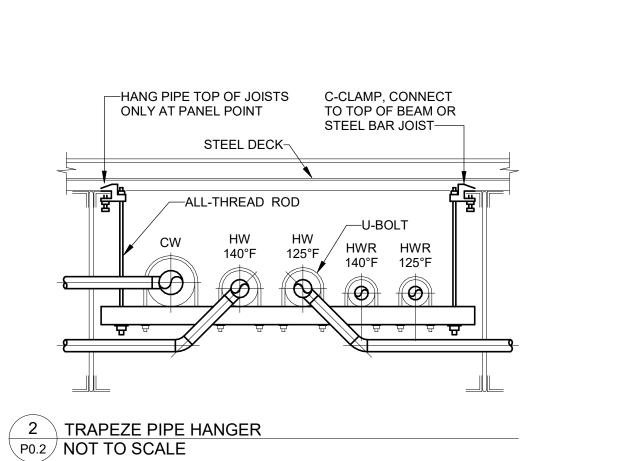
11'-0" | 12'-0"

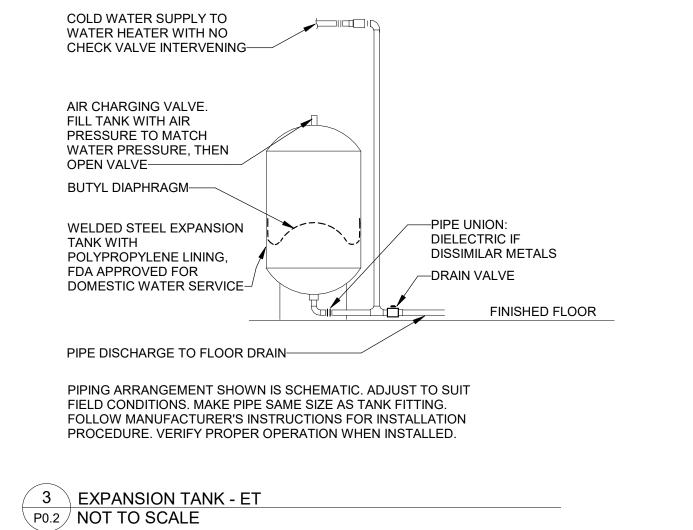
4" 12'-0" 12'-0"

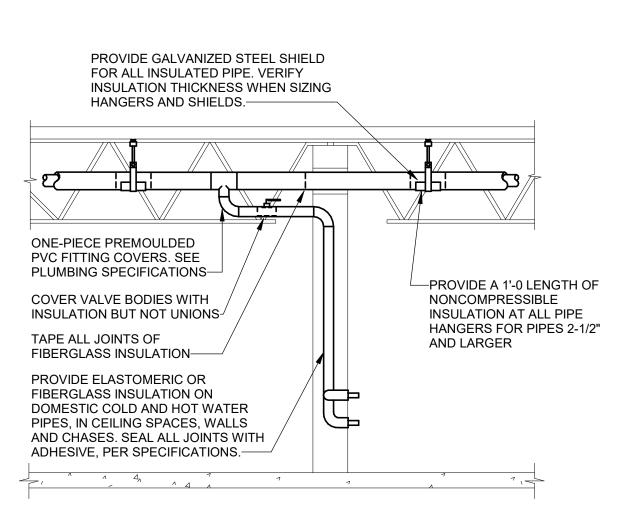
CAST IRON: 10' AND WITHIN 1'-0" OF ALL JOINTS. ROD SIZES

 DO NOT SUSPEND PIPE FROM JOIST BRACING MEMBERS. REFER TO CODE AND SPECIFICATIONS FOR FURTHER INFORMATION. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES.









4 PIPE INSULATION - BAR JOIST P0.2 NOT TO SCALE



ASSOCIATES,

PROJECT INFORMATION:

YORK COUNTY PRISON WATER HEATING SYSTEM UPGRADES

778 JUSTICE BLVD YORK, SC 29745

ISSUE DATE: 06/25/2024 **REVISIONS**

DESCRIPTION

NO. DATE

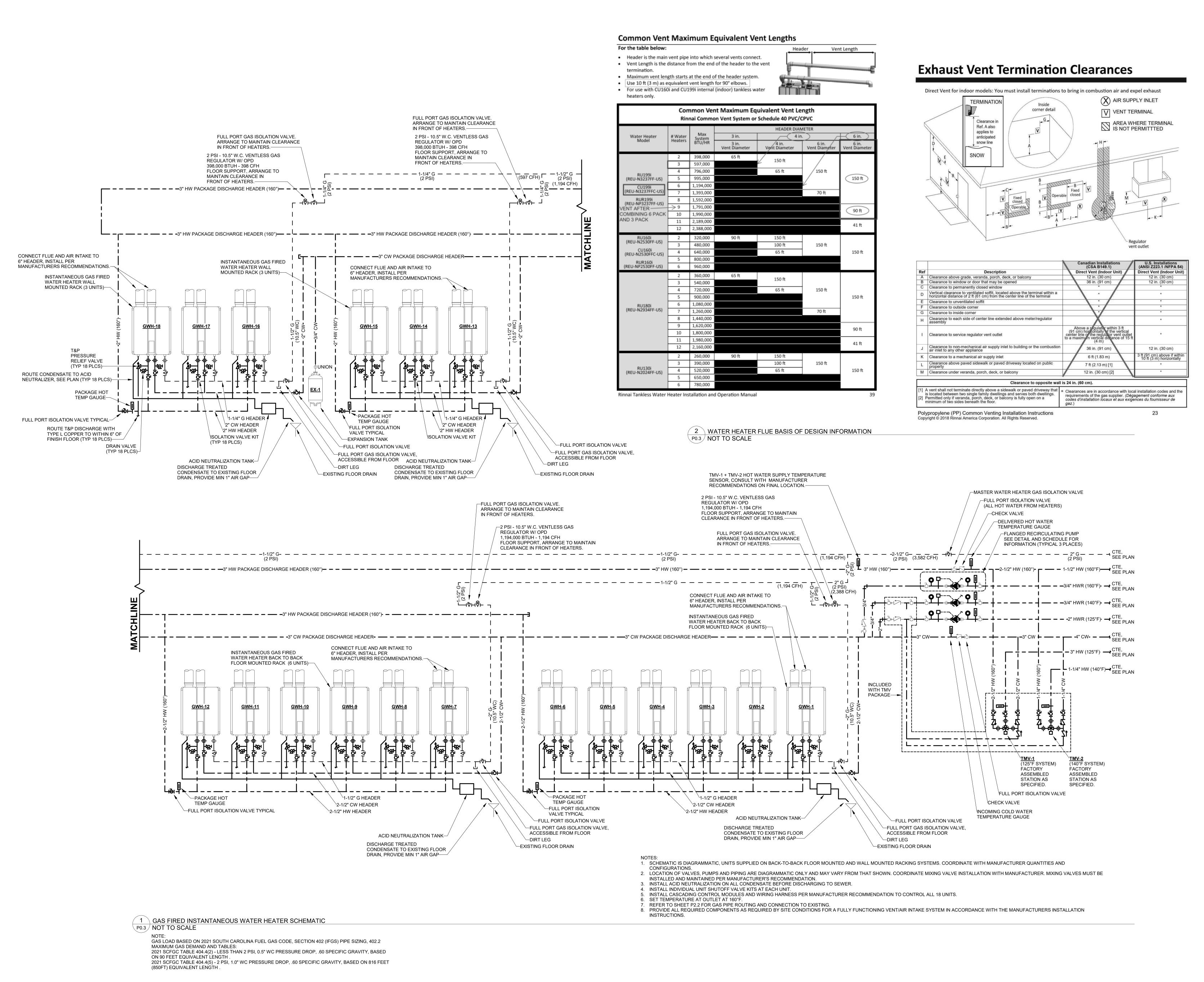
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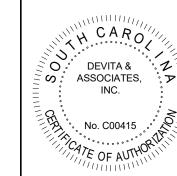
DRAWING NAME

PLUMBING DETAILS

DRAWING NO.

P0.2 Drawn By: DRB Checked By: DTL







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DEVITA Project No. 23501-04

PROJECT INFORMATION:

YORK COUNTY PRISON WATER HEATING SYSTEM UPGRADES

> 778 JUSTICE BLVD YORK, SC 29745

> > DESCRIPTION

ISSUE DATE: 06/25/2024 REVISIONS

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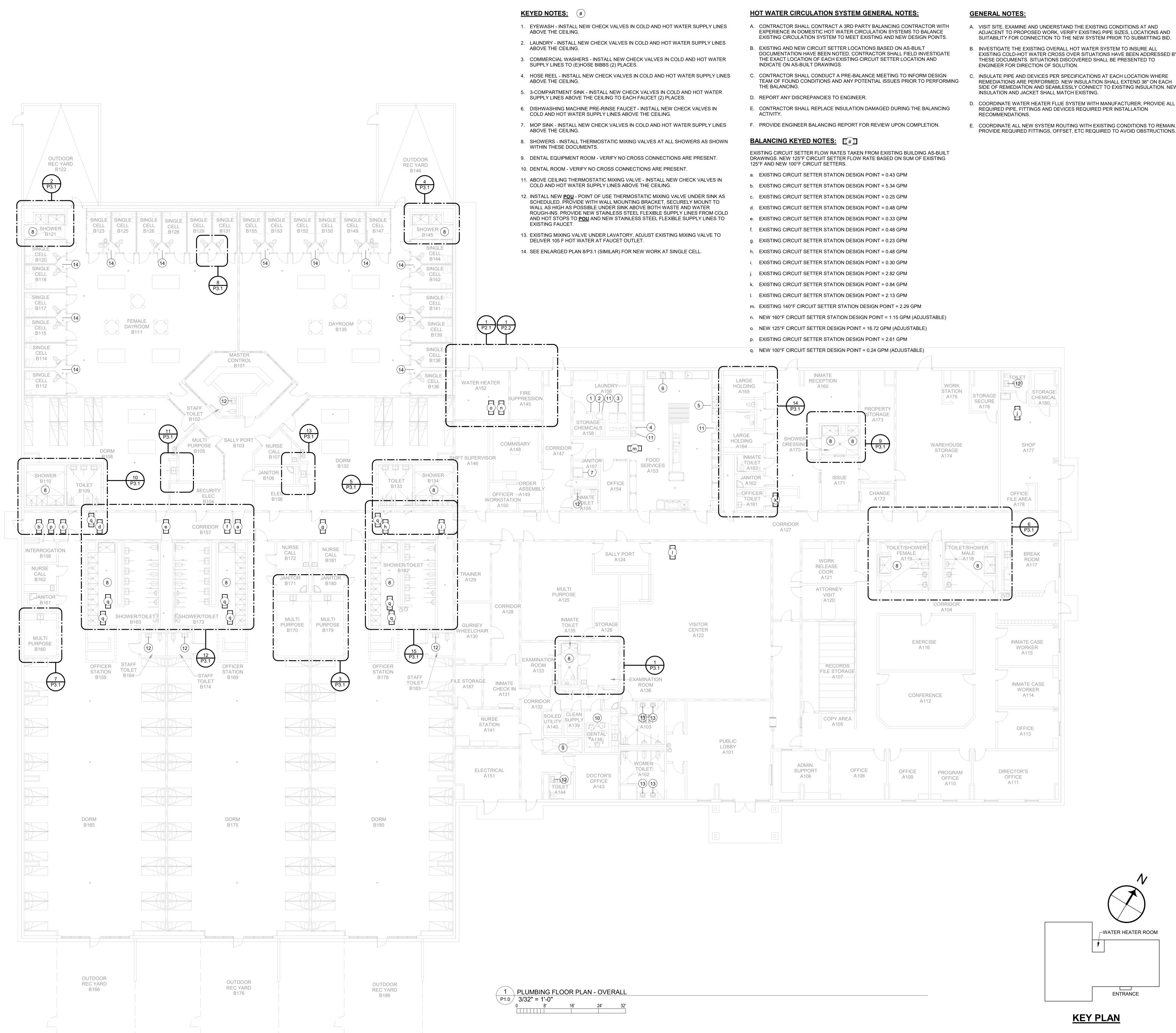
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DRAWING NAME

PLUMBING WATER HEATER SCHEMATIC

DRAWING NO.

Drawn By: DRB Checked By: DTL



ADJACENT TO PROPOSED WORK, VERIFY EXISTING PIPE SIZES, LOCATIONS AND SUITABILITY FOR CONNECTION TO THE NEW SYSTEM PRIOR TO SUBMITTING BID.

EXISTING COLD-HOT WATER CROSS OVER SITUATIONS HAVE BEEN ADDRESSED BY

SIDE OF REMEDIATION AND SEAMLESSLY CONNECT TO EXISTING INSULATION. NEW

D. COORDINATE WATER HEATER FLUE SYSTEM WITH MANUFACTURER, PROVIDE ALL

PROVIDE REQUIRED FITTINGS, OFFSET, ETC REQUIRED TO AVOID OBSTRUCTIONS.





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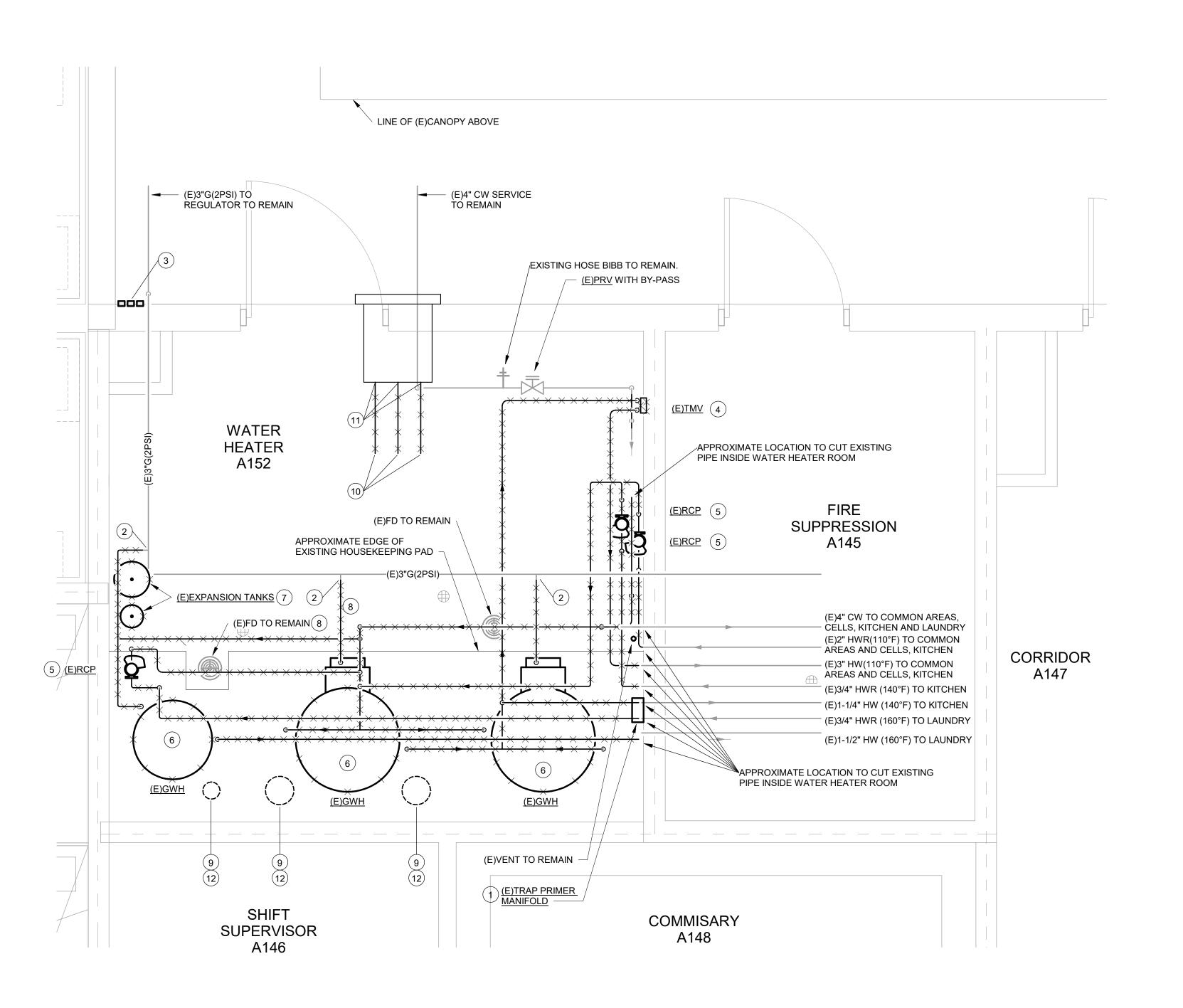
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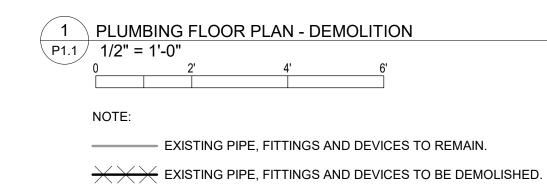
PLUMBING FLOOR PLAN - OVERALL

DRAWING NO.

P1.0

Drawn By: DRB Checked By: DTL





DEMOLITION PLAN GENERAL NOTES:

- A. REMOVE EXISTING TRAP PRIMER MANIFOLD ASSEMBLY, PREPARE TO REINSTALL IN NEW LOCATION. EXISTING PRIMER LINES INTO SLAB TO FLOOR DRAINS SHALL REMAIN.
- B. ALL EXISTING WATER HEATING EQUIPMENT AND ASSOCIATED PIPING IN MECHANICAL ROOM TO BE DEMOLISHED WITH THE EXCEPTION OF COLD WATER SERVICE ENTRY, EXISTING PRESSURE REDUCING VALVE AND EXISTING TRAP PRIMER MANIFOLD ASSEMBLY.
- C. EACH EXISTING GAS FIRED WATER HEATER COMBUSTION AIR PIPING AND EXHAUST VENT PIPING ASSEMBLIES SHALL BE COMPLETELY REMOVED. PREPARE TO USE EXISTING ROOF PENETRATIONS FOR NEW COMBUSTION INTAKE AND EXHAUST.

DEMOLITION PLAN KEY NOTES: (#)

- REMOVE EXISTING TRAP PRIMER MANIFOLD, PREPARE TO REINSTALL IN NEW LOCATION. EXISTING PRIMER LINES INTO SLAB TO FLOOR DRAINS SHALL REMAIN.
- DISCONNECT AT MAIN AND REMOVE EXISTING GAS BRANCH PIPING TO EACH EXISTING WATER HEATER, CAP OUTLET AT MAIN.
- 3. REMOVE EXISTING INTERIOR GAS REGULATORS, VENTS AND ASSOCIATED DEVICES AT EACH EXISTING WATER HEATER. SEAL PENETRATIONS IN BUILDING EXTERIOR WHERE VENT PIPES TERMINATED, PATCH EXTERIOR TO MATCH EXISTING. (TYPICAL 3 PLACES)
- 4. DISCONNECT EXISTING COLD WATER SUPPLY TO EXISTING MIXING VALVE. REMOVE EXISTING MIXING VALVE AND ALL ASSOCIATED PIPING AND DEVICES. CAP COLD WATER OUTLET AT 4" COLD WATER MAIN.
- REMOVE EXISTING HOT WATER RECIRCULATION PUMPS AND ASSOCIATED PIPING AND DEVICES. (TYPICAL 3 PLACES)
- 6. REMOVE EXISTING WATER HEATER AND ASSOCIATED PIPE AND DEVICES, INCLUDING BUT NOT LIMITED TO COLD, HOT, HOT WATER RETURN, GAS, FLUE, AIR INTAKE PIPING, ETC.
- REMOVE EXISTING EXPANSION TANK AND ASSOCIATED PIPE AND DEVICES.
- 8. REMOVE EXISTING FLOOR DRAIN GRATES AND CLEAN. INSTALL NEW TRAP GUARD DEVICE EQUAL TO SURESEAL MODEL SS**09V IN FLOOR DRAIN AND REPLACE CLEANED FLOOR DRAIN GRATE.
- 9. APPROXIMATE LOCATIONS OF EXISTING WATER HEATER FLUE ROOF PENETRATIONS, FIELD VERIFY EXACT LOCATIONS.
- 10. REMOVE EXISTING WATER HEATER COMBUSTION AIR INTAKE PIPING AND ASSOCIATED FITTINGS AND DEVICES. LOUVER AND PLENUM BOX TO
- 11. SEAL EXISTING LOUVER PLENUM BOX PENETRATION OPENINGS WITH SAME MATERIAL AS PLENUM BOX AND SEALANT. ANY OTHER CONNECTION SHALL REMAIN UNDISTURBED.
- 12. PREPARE EXISTING ROOF OPENINGS TO UTILIZE FOR NEW FLUE AND COMBUSTION AIR INTAKE, SEE NEW WORK ON SHEET P2.2.







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DEVITA Project No. 23501-04

CONSULTANT

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DRAWING NAME

PLUMBING FLOOR PLAN - DEMOLITION

DRAWING NO.

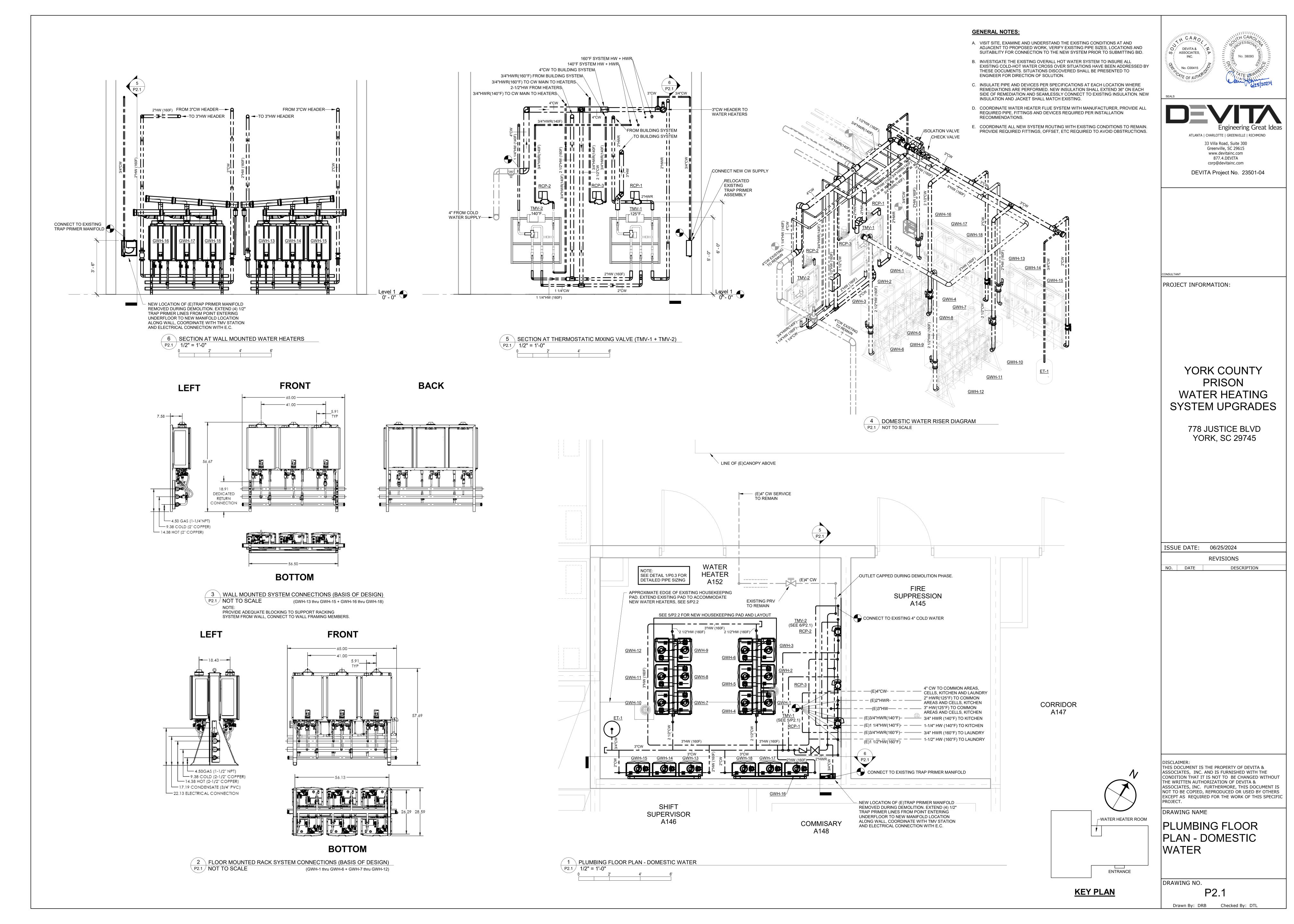
P1.1

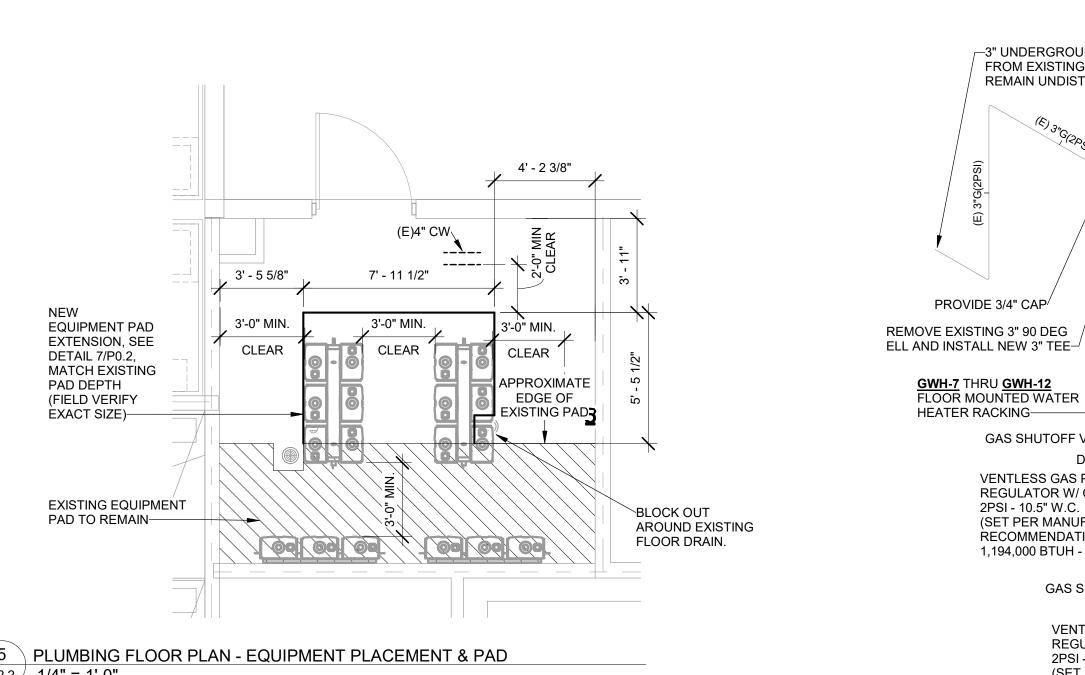
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KEY PLAN

┌WATER HEATER ROOM

ENTRANCE





Vertical Termination Clearances (All System Sizes)

additionally secured to the building with guys or braces.

Pitched Roof Termination Clearances:

Freestanding Components:

above roof or

anticipated snow

6" WATER HEATER FLUE GOOSENECK

P2.2 / NOT TO SCALE

EX = FLUE PIPING

IN = COMBUSTION AIR INTAKE

TERMINATION. INSURE TERMINATION OUTLET

IS A MINIMUM OF 36" ABOVE TOP OF ALL ROOF MOUNTED AIR INTAKE HOODS. SEE DETAIL

WALL MOUNT RACK, ANCHOR TO EXISTING WALL,

ANCHORS SHALL BE LOCATED AT EXISTING WALL

FRAMING. PROVIDE SUPPLEMENTAL STEEL

WHERE REQUIRED. ANCHOR PER MANUFACTURER RECOMMENDATION.- 3 WATER HEATER ROOF TERMINATIONS
P2.2 NOT TO SCALE

There should be a minimum of 12 in. (305 mm) between exhaust and intake terminations.

each support. Additional supports can be installed before and after an elbow if needed.

All supports, such as wall brackets or spacer blocks, must be installed with a maximum distance of 78 in. (2 m) between

Components which are installed freestanding for vertical termination with a length of over 59 in. (1.5 m), must be

- 1. HOUSEKEEPING PAD DIMENSION SHALL BE FIELD VERIFIED AND ADJUSTED AS REQUIRED TO ACCOMMODATE HEATER RACKING TO OBTAIN REQUIRED
- CLEARANCES. 2. PRESSURE WASH EXISTING PAD AND FLOOR PRIOR TO POURING NEW EQUIPMENT PAD EXTENSION, PROVIDE COMMERCIAL GRADE CONCRETE SEALER ON EXISTING FLOOR, EXISTING AND NEW EQUIPMENT PADS.

COMMON VENT GUIDELINES:

EXISTING GAS TO

-3" UNDERGROUND GAS SERVICE

FROM EXISTING METER TO

REMAIN UNDISTURBED

GAS SHUTOFF VALVE—

REGULATOR W/ OPD

RECOMMENDATIONS)

2PSI - 10.5" W.C.

4 NATURAL GAS RISER DIAGRAM

MAXIMUM GAS DEMAND AND TABLES:

ON 90 FEET EQUIVALENT LENGTH.

(850FT) EQUIVALENT LENGTH.

P2.2 / NOT TO SCALE

Vent termination per ANSI Z223.1/NFPA 54. For clearances not specified in ANSI Z223.1/NFPA 54, clearances are in accordance with local installation

codes and the requirements of the gas supplier.

NOTE: TERMINATE ALL PENETRATIONS WITH

6" WATER HEATER COMBUSTION AIR INTAKE

TERMINATION OUTLET IS A MINIMUM OF 12"

BELOW FLUE OUTLET, AND MINIMUM OF 24"

TERMINATION KIT PER MANUFACTURER

GOOSENECK TERMINATION. INSURE

ABOVE ROOF. SEE DETAIL 3/P2.2

VENTLESS GAS PRESSURE

(SET PER MANUFACTURER'S

1,194,000 BTUH - 1,194 CFH-

2"G(10.5"WC)-

VENTLESS GAS PRESSURE

(SET PER MANUFACTURER'S

398,000 BTUH - 398 CFH-----

GAS LOAD BASED ON 2021 SOUTH CAROLINA FUEL GAS CODE, SECTION 402 (IFGS) PIPE SIZING, 402.2

2021 SCFGC TABLE 404.4(2) - LESS THAN 2 PSI, 0.5" WC PRESSURE DROP, .60 SPECIFIC GRAVITY, BASED

2021 SCFGC TABLE 404.4(5) - 2 PSI, 1.0" WC PRESSURE DROP, .60 SPECIFIC GRAVITY, BASED ON 816 FEET

DIRT LEG/

GAS SHUTOFF VALVE-/

REGULATOR W/ OPD

RECOMMENDATIONS)

2PSI - 10.5" W.C.

PROVIDE 3/4" CAP/

REMAINDER OF BUILDING TO

PROVIDE 1-1/2" CAP

PROVIDE 1-1/2" CAP

, <u>GWH-1</u> THRU <u>GWH-6</u> FLOOR MOUNTED WATER

GAS SHUTOFF VALVE

VENTLESS GAS PRESSURE

(SET PER MANUFACTURER'S

WALL MOUNTED WATER

-VENTLESS GAS PRESSURE

(SET PER MANUFACTURER'S

REGULATOR W/ OPD 2PSI - 10.5" W.C.

RECOMMENDATIONS) 398,000 BTUH - 398 CFH

HEATER RACKING

—1-1/2"G(14"WC)

REGULATOR W/ OPD

RECOMMENDATIONS) 1,194,000 BTUH - 1,194 CFH

GAS SHUTOFF VALVE

DIRT LEG

[\]2"G(10.5"WC)

WALL MOUNTED WATE

DIRT LEG

HEATER RACKING

-1-1/2"G(14"WC)

2PSI - 10.5" W.C.

HEATER RACKING

REMAIN UNDISTURBED—

- A. USE VENT COMPONENTS THAT ARE CERTIFIED AND LISTED WITH THE WATER HEATER MODEL. B. AVOID SHARP BENDS OR TEES IN THE VENT SYSTEM. THESE VENT COMPONENTS CREATE ADDITIONAL
- RESTRICTIONS THAT COULD REDUCE PERFORMANCE OF THE WATER HEATERS. ${\sf C.}$ COMBUSTION AIR AND EXHAUST SHOULD TERMINATE WITH ELBOW OR TEE POINTING DOWN. THIS WILL STOP UNWANTED MOISTURE FROM ENTERING THE VENT SYSTEM.
- D. FIRE RATED PENETRATIONS SHALL BE FIRESTOPPED IN ACCORDANCE WITH SPECIFICATIONS. E. EXAMINE ALL VENT COMPONENTS FOR DAMAGE PRIOR TO INSTALLATION. F. VENT SYSTEMS MUST BE FREE TO EXPAND AND CONTRACT. REFER TO THE VENT MANUFACTURER'S
- INSTALLATION INSTRUCTIONS FOR APPROPRIATE SUPPORT METHODS. G. VENTING MUST INCLUDE UNRESTRICTED VENT MOVEMENT THROUGH WALLS, CEILINGS, AND ROOF
- PENETRATIONS. H. USE ONLY VENT CONNECTIONS APPROVED BY THE VENT MANUFACTURER.
- I. REFER TO VENT MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PROPER JOINT ASSEMBLY PROCEDURES AND PRODUCTS.
- LENGTH. CONDENSATE TRAP MUST INCLUDE A LOOP THAT CAN HOLD 6 IN. OF WATER. K. VENT ROUTING SHOWN IS DIAGRAMMATIC, COORDINATE FINAL ROUTING IN FIELD WITH EXISTING CONDITIONS, COORDINATE WITH VENT MANUFACTURER ON FINAL CONFIGURATION, PROVIDE ALL REQUIRED FITTINGS AND COMPONENTS AS REQUIRED, PROVIDE SHOP DRAWING TO ENGINEER OF FINAL CONFIGURATION FOR REVIEW AND APPROVAL.

J. COMMON VENTING SHOULD INCLUDE A CONDENSATE DRAIN AND TRAP BETWEEN THE HEADER AND VENT

GENERAL NOTES:

- A. VISIT SITE, EXAMINE AND UNDERSTAND THE EXISTING CONDITIONS AT AND ADJACENT TO PROPOSED WORK, VERIFY EXISTING PIPE SIZES, LOCATIONS AND SUITABILITY FOR CONNECTION TO THE NEW SYSTEM PRIOR TO SUBMITTING BID.
- B. INVESTIGATE THE EXISTING OVERALL HOT WATER SYSTEM TO INSURE ALL EXISTING COLD-HOT WATER CROSS OVER SITUATIONS HAVE BEEN ADDRESSED BY THESE DOCUMENTS. SITUATIONS DISCOVERED SHALL BE PRESENTED TO ENGINEER FOR DIRECTION OF SOLUTION.
- C. INSULATE PIPE AND DEVICES PER SPECIFICATIONS AT EACH LOCATION WHERE REMEDIATIONS ARE PERFORMED. NEW INSULATION SHALL EXTEND 36" ON EACH SIDE OF REMEDIATION AND SEAMLESSLY CONNECT TO EXISTING INSULATION. NEW INSULATION AND JACKET SHALL MATCH EXISTING.
- D. COORDINATE WATER HEATER FLUE SYSTEM WITH MANUFACTURER, PROVIDE ALL REQUIRED PIPE, FITTINGS AND DEVICES REQUIRED PER INSTALLATION RECOMMENDATIONS.
- E. COORDINATE ALL NEW SYSTEM ROUTING WITH EXISTING CONDITIONS TO REMAIN. PROVIDE REQUIRED FITTINGS, OFFSET, ETC REQUIRED TO AVOID OBSTRUCTIONS.

KEYED NOTES: (#)

- 1. PAINT ALL GAS PIPE IN ACCORDANCE WITH OWNER COLOR SCHEME.
- 2. PROVIDE WRAP-AROUND GAS LABELS ON ALL NEW AND EXISTING GAS PIPING WITHIN WATER HEATER A152 ROOM.
- 3. PROVIDE NEW CAP WHERE EXISTING GAS PIPE WAS DISCONNECTED AND
- 4. CONNECT NEW GAS PIPING FOR NEW WATER HEATERS TO EXISTING TEE WHERE EXISTING WAS DISCONNECTED AND REMOVED.
- 6. ROUTE CONDENSATE PIPING ALONG WALL OR TIGHT TO HOUSEKEEPING PAD, ETC
- 7. DISCHARGE CONDENSATE TO EXISTING FLOOR DRAIN, TERMINATE WITH 2" MIN. AIR
- 8. 6" FLUE UP THROUGH ROOF, WATER TIGHT. TERMINATE WITH VENT TERMINATION KIT. RE-USE EXISTING ROOF PENETRATION WITH EXISTING ROOFING
- 9. 6" AIR INTAKE THROUGH ROOF, WATER TIGHT. TERMINATE WITH VENT
- 10. 6" AIR INTAKE UP THROUGH ROOF, WATER TIGHT. TERMINATE WITH VENT TERMINATION KIT. RE-USE EXISTING ROOF PENETRATION. MODIFY AS REQUIRED.
- 11. ROUTE ALONG WALL UNDER HEATER RACKS AND CONNECT WITH NEUTRALIZATION UNIT ON OPPOSITE SIDE OF ROOM.

- 5. ROUTE FLUE AND AIR INTAKE CONDENSATE DRAINS TO ACID NEUTRALIZER.
- TO AVOID CROSSING WALKING FLOOR SPACE AND MINIMIZE TRIPPING HAZARD.
- MANUFACTURER. SEE ROOFING SCOPE NOTE BELOW.
- TERMINATION KIT. COORDINATE NEW ROOF PENETRATION WITH EXISTING ROOFING AND ROOFING SCOPE NOTE BELOW.
- SEE ROOFING SCOPE NOTE BELOW.

LINE OF (E)CANOPY ABOVE ÙŃDERGRÓUND TO GAS **REGULATOR TO REMAIN** UNDISTURBED WATER **HEATER** SEE WATER HEATER SCHEMATIC 1/P0.3 AND 4/P2.2 FOR DETAILED PIPE SIZES **SUPPRESSION** A145 ☐ TO REMAINDER OF (E)2-1/2"G REMAIN UNDISTURBED APPROXIMATE EDGE OF EXISTING HOUSEKEEPING PAD CORRIDOR GAS DOWN A147 SEE WATER HEATER VENTING ISOMETRIC 2/P2.2 FOR CLARIFICATION OF ROUTING

COMMISARY

ROUTE FLUE CONDENSATE TO ACID NEUTRALIZER ROUTE FLUE CONDENSATE 2 WATER HEATER VENTING ISOMETRIC TO ACID NEUTRALIZER FOR CLARITY ROUTE FLUE CONDENSATE TO ACID NEUTRALIZER— -MOUNT FLOOR RACK TO HOUSEKEEPING PAD WITH 1/2" DROP-IN ANCHORS AND ISOLATION PADS (TYP 4 PLCS) - BOTH RACKS

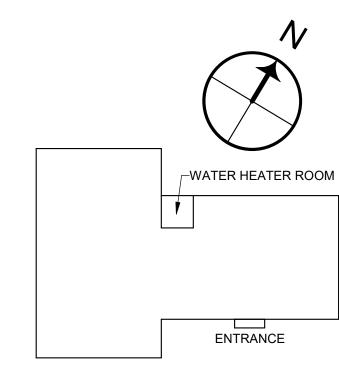
ROOFING SCOPE:

1 PLUMBING FLOOR PLAN - GAS AND VENT

GAS DOWN

SUPERVISOR

EXISTING ROOF PENETRATIONS SHALL BE REUSED FOR NEW WATER HEATER FLUE AND COMBUSTION AIR INTAKES. PROVIDE ROOFING, DECKING, FRAMING/SUPPORTS, CURBS, FLASHING, AND ALL OTHER WORK AND MATERIAL REQUIRED TO ACCOMMODATE NEW PIPING THROUGH EXISTING LARGER PENETRATIONS. MATCH EXACTLY THE EXISTING ROOF CONSTRUCTION AND MATERIAL; WHERE EXISTING IS UNAVAILABLE, PROVIDE CONSTRUCTION METHOD AND MATERIALS ACCEPTABLE TO THE EXISTING ROOFING MANUFACTURER TO MAINTAIN EXISTING WARRANTY. ROOFING/FLASHING SUBCONTRACTOR SHALL SUBMIT FOR OWNER AND ENGINEER REVIEW SHOP DRAWING WITH INSTALLATION DIAGRAM DETAILING INSTALLATION METHOD AND MATERIALS AND INDICATING APPROVAL OF EXISTING ROOFING MANUFACTURER.



KEY PLAN

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DEVITA Project No. 23501-04

DEVITA &

ASSOCIATES,

PROJECT INFORMATION:

WATER HEATING SYSTEM UPGRADES

778 JUSTICE BLVD YORK, SC 29745

ISSUE DATE: 06/25/2024

NO. DATE

REVISIONS

DESCRIPTION

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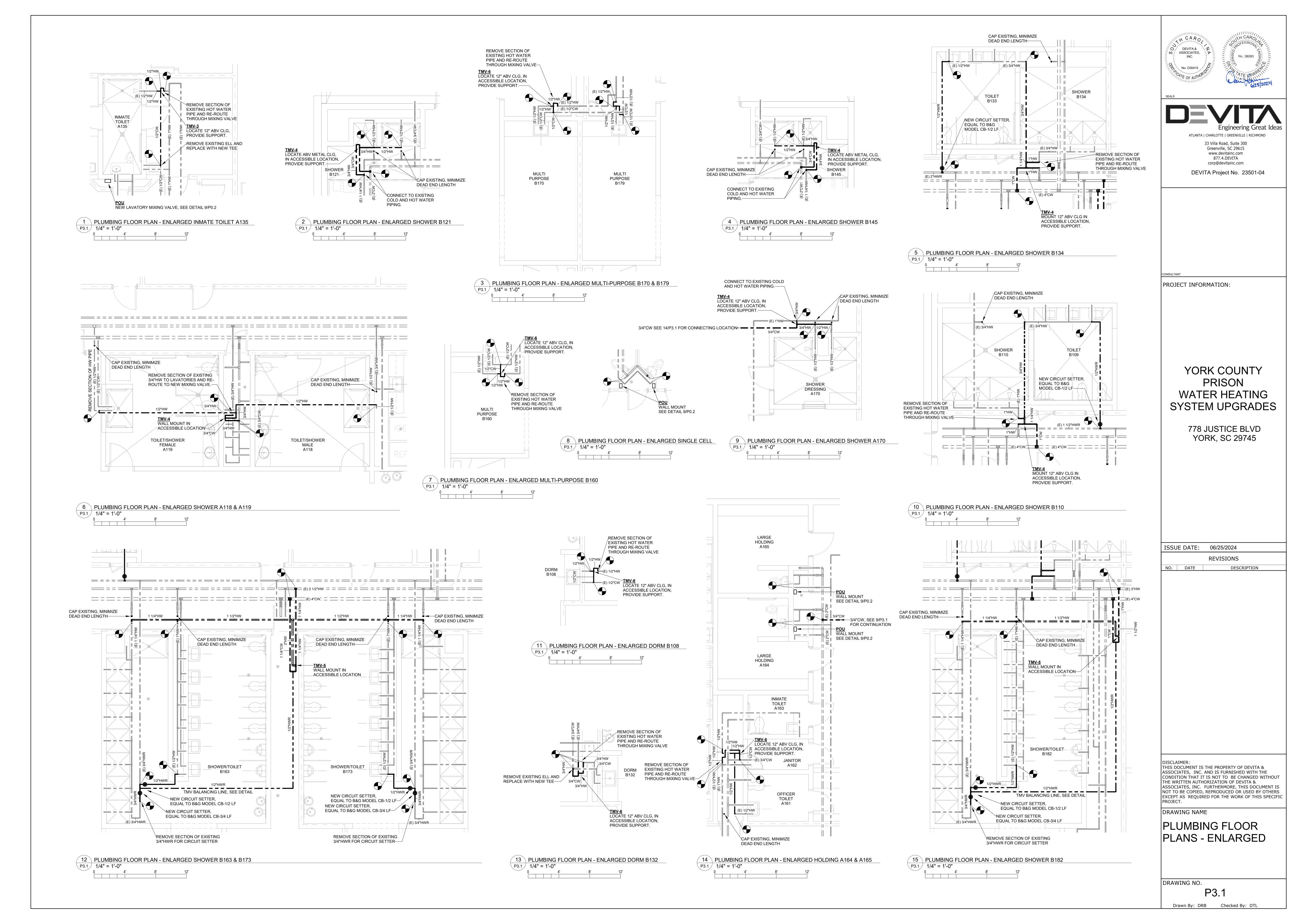
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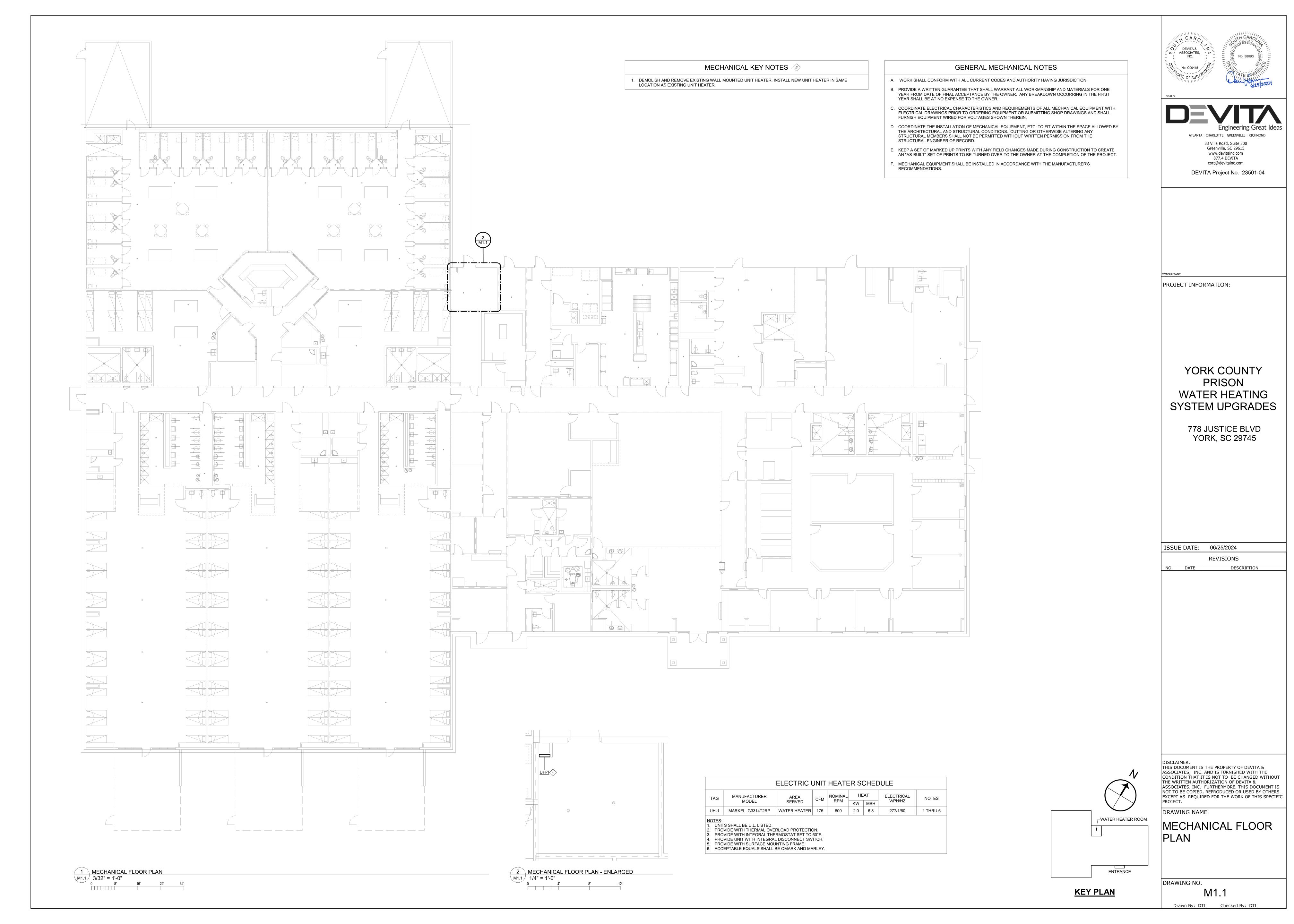
PLUMBING FLOOR PLAN - GAS AND FLUE

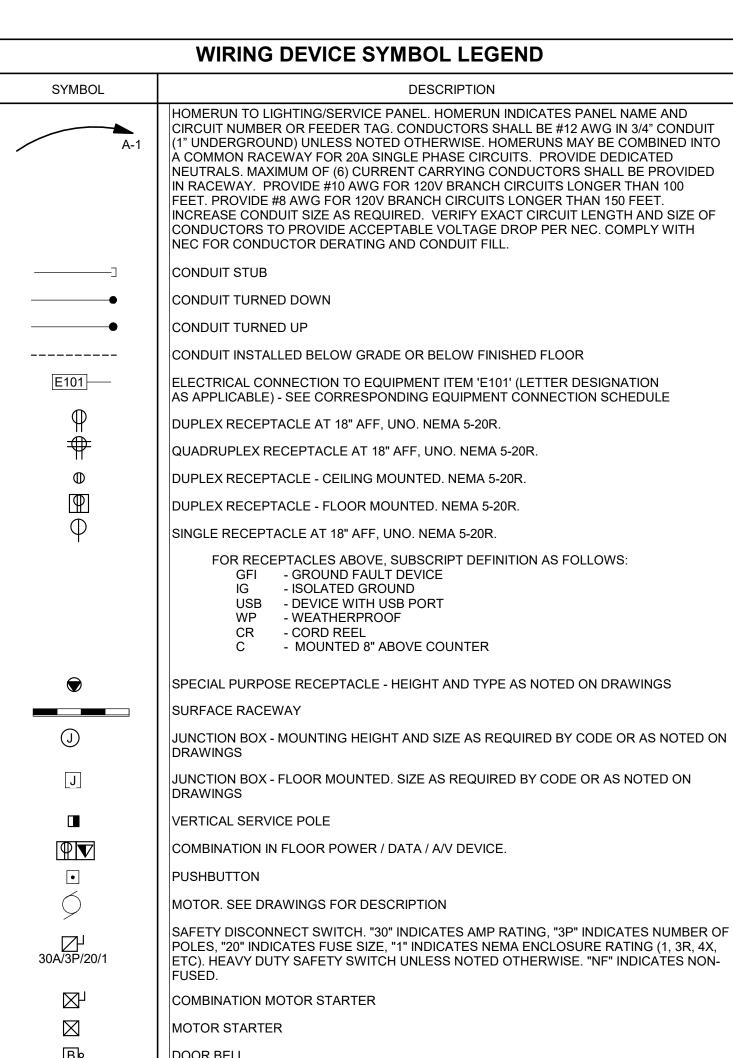
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Drawn By: DRB Checked By: DTL

P2.2







B₀	DOOR BELL
	FIRE ALARM SYMBOL LEGEND
SYMBOL	DESCRIPTION
FAA	FIRE ALARM ANNUNCIATOR PANEL - WALL MOUNTED AT 60" AFF TO CENTER, UNO
FACU	FIRE ALARM CONTROL UNIT; "D" SUBSCRIPT INDICATES DEDICATED UNIT
FATC	FIRE ALARM TERMINAL CABINET - WALL MOUNTED AT 72" AFF TO TOP, UNO
ARCM	AREA OF REFUGE EMERGENCY COMMUNICATION SYSTEM MASTER UNIT
ARCR	AREA OF REFUGE EMERGENCY COMMUNICATION SYSTEM REMOTE UNIT
ESR	ELEVATOR STATUS / RECALL
RTS	REMOTE TEST STATION FOR FA DUCT DETECTOR
NAC_n_	 NOTIFICATION CIRCUIT POWER BOOSTER, EXTENDER PANEL. "n" = UNIT NUMBER
PRE	PRE-ACTION SYSTEM / CONTROL UNIT
SD	SMOKE DAMPER
ES	 ELEVATOR SHUTDOWN
ER	 ELEVATOR RECALL
FH	 ELEVATOR FIREMAN'S HAT LIGHT
 ∇M	 ELEVATOR SHUNT TRIP VOLTAGE MONITOR
(AIM)	ADDRESSABLE INPUT MONITOR MODULE
AOM	ADDRESSABLE OUTPUT MONITOR MODULE
IM	ISOLATION MODULE
△ co	CO DETECTOR
H) _{xx}	 HEAT DETECTOR. "XX" = TYPE/BASIC SHAPE
WF WF	 WATER FLOW DETECTOR / SWITCH
RL	 NON-ADDRESSABLE OUTPUT RELAY
SS	SURGE SUPPRESSOR
VS	VALVE SUPERVISORY SWITCH
E	
<u> </u>	
(S) _R	RELAY BASE
SS -	SMOKE ALARM. SINGLE STATION
S	SMOKE DETECTOR / SENSOR FOR DUCT
F _{ss}	FIRE ALARM SYSTEM BELL - SINGLE STROKE
S O F O F G	GONG
~ ⊠	COMBINATION HORN / VISIBLE; cd = CANDELA RATING
cd 1W	COMBINATION SPEAKER / VISIBLE; W = WATTAGE, cd = CANDELA RATING
	HORN ONLY
RI RI	CEILING MOUNT INDICATOR
RTS	REMOTE ALARM INDICATING AND TEST SWITCH
S ^w	SPEAKER ONLY, WALL MOUNT; W = WATTAGE
	VISIBLE ONLY (STROBE), CEILING MOUNT; CD = CANDELA RATING
X _{co}	VISIBLE ONLY (STROBE), WALL MOUNT; CD = CANDELA RATING
DH	DOOR HOLDER
	SUBSCRIPT DEFINITIONS: C - CEILING MOUNTED WP - WEATHERPROOF WG - WIRE GUARD

SYMBOL	DESCRIPTION
\$,	20A SWITCH AT 44" CL AFF, UNO FOR SWITCH ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS: a,b - SWITCHING SCHEME m - MOTOR RATED P - PILOT LIGHT 3 - 3-WAY SWITCH 4 - 4-WAY SWITCH 0 - OCCUPANCY SENSOR V - VACANCY SENSOR
D	WALL DIMMER SWITCH.
\$\$	TWO SWITCHES IN COMMON BOX - FOR MULTILEVEL CONTROL AT 44" CL AFF, UNO
<u>o</u>	LIGHTING CONTROL OCCUPANCY SENSOR - CEILING MOUNTED
©	LIGHTING CONTROL PHOTOCELL
(58)	DAYLIGHT SENSOR
	INTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHT FIXTURE SCHEDULE. REFER ALSO TO LIGHTING CIRCUITING GUIDE.
NL NL	LIGHT FIXTURE, HALF SHADING INDICATES EMERGENCY BACKUP. "NL" INDICATES 24/7 OPERATION (UNSWITCHED).
\\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\\\\\\\\	EXTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHT FIXTURE SCHEDULE. REFER ALSO TO LIGHTING CIRCUITING GUIDE.
	EMERGENCY LIGHTING FIXTURE, WITH BATTERY. REFER TO LIGHT FIXTURE SCHEDUL
\otimes $\downarrow \otimes \downarrow$	EXIT SIGN. WHERE USED, ARROW INDICATES CHEVRON DIRECTION.
\times	CEILING FAN
0 0	LIGHTING FIXTURE AS SCHEDULED; NORMAL POWER BRANCH
• •	LIGHTING FIXTURE AS SCHEDULED; LIFE SAFETY EMERGENCY POWER BRANCH

AFG ACH AL BKR CUKT DWC EC EF EWC FLA FUE GCFI/GFC HPS IG LTG MCB MCC MFR MH MLO MOSB NL NTS PH RCPT REQU SW UH UNO W/	ABOVE FINSHED GRADE ABOVE COUNTER HEIGHT ALUMINUM BREAKER COPPER CIRCUIT DRAWING EMPTY CONDUIT EXHAUST FAN ELECTRIC WATER COOLER FULL LOAD AMPS FUSE FURNISHED WITH EQUIPMENT GENERAL CONTRACTOR GROUND FAULT INTERRUPTER DEVICE HIGH PRESSURE SODIUM ISOLATED GROUND LOCKED ROTOR AMPS LIGHTING(L) MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAIN DISTRIBUTION PANEL MANUFACTURER METAL HALIDE MAIN LUG ONLY MAXIMUM OVERCURRENT CIRCUIT PROTECTION MAIN SWITCHBOARD NIGHT LIGHT NOT IN CONTRACT NOT TO SCALE PHASE PANEL RECEPTACLE REQUIRED ROOFTOP UNIT SURGE PROTECTED DEVICE SWITCH UNDERGROUND UNIT HEATER UNLESS NOTED OTHERWISE WITH
UH UNO	UNIT HEATER UNLESS NOTED OTHERWISE

ABBREVIATIONS

ABOVE FINISHED FLOOR

	LIGHTING CIRCUITING GUIDE										
SYMBOL	DESCRIPTION										
B / X-1 (a)	-LIGHTING TYPE AND CIRCUIT DESIGNATION X: REFER TO PANEL SCHEDULE, PER DRAWING 1: CIRCUIT NUMBER B: LIGHT FIXTURE TYPE, REFER TO LIGHT FIXTURE SCHEDULE										
	-SWITCHING SCHEME OR ZONE										

POWER CIRCUITING GUIDE										
SYMBOL	DESCRIPTION									
XXX → X-1 →	——POWER CIRCUITING DESIGNATION X: REFER TO PANEL SCHEDULE, PER DRAWING 1: CIRCUIT NUMBER									
	——DEVICE, JUNCTION BOX, FLOOR BOX, ETC									
	——EQUIPMENT ABBREVIATION, REFER TO LEGEND AND ABBREVIATION SCHEDULE FOR ADDITIONAL INFORMATION									

ELECTRICAL SPECIFICATIONS

ALL DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT APPLY TO THIS AND ALL SPECIFICATION SECTIONS.

THE INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70), THE 2021 SOUTH CAROLINA BUILDING CODE, AND WITH ALL OTHER APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.

CONTRACTOR IS RESPONSIBLE TO REVIEW AND UNDERSTAND ALL DRAWINGS AND ALL WORK OF ALL TRADES TO ENSURE A COMPLETE AND THOROUGH PROJECT. CONTRACTOR SHALL COOPERATE AND COORDINATE ALL PHASES OF WORK WITH OTHER DISCIPLINES AND GENERAL CONTRACTOR.

CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS, VERIFY LOCATIONS, CONDUIT ROUTINGS, ETC. TO DETERMINE THE EXACT EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT BEFORE SUBMITTING A BID. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE ELECTRICAL CONTRACTOR IS RESPONSIBLE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER BEFORE THE BID

CONTRACTOR IS RESPONSIBLE TO PROVIDE POWER FOR ALL TRADES THROUGHOUT ALL PHASES OF CONSTRUCTION.

PROVIDE ALL MATERIALS, EQUIPMENT, SERVICES, AND LABOR FOR A COMPLETE OPERABLE ELECTRICAL INSTALLATION AS INDICATED ON THE DRAWINGS. ALL MATERIAL SHALL BE NEW AND BEAR THE UNDERWRITERS LABORATORIES, INC. (UL) LABEL WHERE AVAILABLE. INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS NOR MENTIONED IN THE SPECIFICATIONS THAT CAN LEGITIMATELY AND REASONABLY BE INFERRED TO BELONG TO THE WORK DESCRIBED OR BE NECESSARY IN GOOD PRACTICE TO PROVIDE A COMPLETE SYSTEM, SHALL BE FURNISHED AND INSTALLED AS THOUGH ITEMIZED HERE IN EVERY DETAIL.

SUBMIT PRODUCT DATA AND SHOP DRAWINGS FOR ARCHITECT/ENGINEER REVIEW AND APPROVAL FOR THE FOLLOWING ITEMS:

 WIRING DEVICES 2. LIGHTING FIXTURES

AND ORDERLY MANNER.

3. CIRCUIT BREAKERS ADDED TO EXISTING PANELS

ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABEL-LISTED BY A STATE APPROVED THIRD PARTY TESTING AGENCY. ALL WORK SHALL BE EXECUTED IN ACCORDANCE WITH RECOGNIZED STANDARDS OF WORKMANSHIP. ALL WORK SHALL BE INSTALLED IN A NEAT

MULTIPLE ITEMS SUCH AS PANELBOARDS, CIRCUIT BREAKERS, LIGHTING FIXTURES, WIRING DEVICES, RACEWAYS, ETC. SHALL BE FROM THE SAME MANUFACTURER. ALL EQUIPMENT SUPPLIED SHALL BE THE STANDARD EQUIPMENT OF THE MANUFACTURER.

ALL WORK SHALL BE LABELED WITH PERMANENT TYPEWRITTEN OR ENGRAVED LABEL. HANDWRITING IS NOT ACCEPTABLE. COLORS OF ALL LABELS SHALL BE COORDINATED WITH THE OWNER. LABEL WIRING DEVICES, PANELBOARDS, AND OTHER EQUIPMENT PER LABELING DETAILS. LABEL SPARE CONDUITS AND JUNCTION BOXES WITH PANEL/CIRCUIT NUMBER. LABEL JUNCTION BOXES WITH PANEL/CIRCUIT NUMBER. PROVIDE UPDATED TYPEWRITTEN DIRECTORY IN ALL AFFECTED PANELBOARDS INDICATING LOADS SERVED BY EACH

EXISTING CONDITIONS, EQUIPMENT, DEVICES, AND CIRCUITING AS SHOWN IS TAKEN FROM EXISTING FACILITY DOCUMENTATION AND/OR NON-INVASIVE FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS, QUANTITIES. AND EXISTING CIRCUITING.

GROUNDING:

THE CONTRACTOR SHALL FURNISH INSTALL, AND CONNECT A COMPLETE SYSTEM OF GROUNDING FOR ALL EQUIPMENT AND STRUCTURES. A GOOD MECHANICAL AND ELECTRICAL CONNECTION SHALL BE MADE WITH APPROVED GROUNDING CONNECTORS.

ALL METAL RACEWAYS, INCLUDING CONDUIT, ENCLOSURES, ETC., SHALL BE GROUNDED. ALL CONNECTIONS IN METAL RACEWAYS SHALL BE COMPLETED IN SUCH A MANNER AS TO MAINTAIN A CONTINUOUS PATH TO GROUND THROUGHOUT THE ENTIRE LENGTH OF THE RACEWAY.

PROVIDE A GREEN INSULATED WIRE EQUIPMENT GROUNDING CONDUCTOR FOR

GROUNDING CONDUCTORS SHALL BE COPPER.

CIRCUIT. REFER TO LABELING DETAILS.

MAKE ALL JOINTS AND CONNECTIONS OF THE CONDUIT SYSTEM TIGHT TO MAINTAIN CONTINUITY OF MECHANICAL AND ELECTRICAL GROUND THROUGHOUT ENTIRE SYSTEM.

COORDINATION:

THE ELECTRICAL CONTRACTOR SHALL COORDINATE SEQUENCE OF WORK WITH ALL OTHER TRADES. CONTRACTOR SHALL VERIFY VOLTAGE OF MECHANICAL EQUIPMENT AND FIXTURE DRIVERS / BALLASTS, PRIOR TO COMMENCING ANY WORK.

NOTIFY ENGINEER IMMEDIATELY OF POSSIBLE CONFLICTS WITH STRUCTURE, MECHANICAL, SITE, OR OTHER FEATURES. WHERE JOB CONDITIONS REQUIRE REASONABLE CHANGES IN LOCATIONS AND ARRANGEMENT OF INDICATED EQUIPMENT, CONDUIT, OUTLETS, OR WIRING, CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT COST TO OWNER.

IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY, PRIOR TO ANY INDIVIDUAL CIRCUIT'S INSTALLATION. TO VERIFY THAT THE CIRCUIT WITH DEVICES AS DRAWN IS ADEQUATE FOR THE EQUIPMENT TO BE INSTALLED. IF ANY CONFLICT IN VOLTAGE, PHASE OR LOAD IS ENCOUNTERED WHICH WOULD ALTER THE CIRCUIT SIZE, THIS CONTRACTOR SHALL NOTIFY THE ENGINEER OR OWNER IMMEDIATELY. FAILURE TO DO SO SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT CIRCUIT CHANGE DIRECTLY UPON

CIRCUIT BREAKERS ADDED TO EXISTING PANELS SHALL MATCH EXISTING BREAKERS TYPE, MANUFACTURER AND AIC RATING. UPDATE DIRECTORIES IN EXISTING PANELS TO REFLECT CHANGES BY THIS RENOVATION.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS WITH ALL OTHER TRADES CONCERNED TO ENSURE PROPER INSTALLATION OF ALL SYSTEMS. CONTRACTOR SHALL COORDINATE SIZING OF MATERIALS AND EQUIPMENT SO ALL SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED REQUIREMENTS.

CONSTRUCTION SEQUENCE NOTES:

WARRANTY PERIOD BEGINS FOR THAT AREA.

THE OWNER WILL MAINTAIN AND OPERATE EXISTING FACILITY AT CURRENT LEVEL UP TO AND UNTIL THAT TIME AT WHICH THE CONTRACTOR REQUIRES ACCESS FOR DEMOLITION OR RENOVATION PURPOSES.

COORDINATE ALL CONSTRUCTION WITH ALL OTHER TRADES AS REQUIRED.

THE OWNER WILL PAY ALL NECESSARY UTILITY CHARGES RELATED TO THE OPERATION OF THE EXISTING FACILITY AND THOSE NEWLY-CONSTRUCTED FACILITIES DEEMED OPERATIONAL BY THE ENGINEER. THESE SHALL INCLUDE BUT NOT BE LIMITED TO ANY TEMPORARY ELECTRIC AND TELEPHONE SERVICE REQUIRED.

THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL TEMPORARY FACILITIES REQUIRED TO PERFORM HIS WORK.

THE CONTRACTOR SHALL COORDINATE ALL OPERATIONAL CHANGES WITH THE OWNER AND ENGINEER. THE CONTRACTOR SHALL TEST AND SUCCESSFULLY START-UP ALL NEW AND REUSED EQUIPMENT. WHEN AN AREA IS TURNED OVER TO THE OWNER FOR THEIR OPERATION, THE

DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED AND/OR RELOCATED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED AND/OR REROUTED. THE CONTRACTOR SHALL ASSUME WITHIN THE BASE BID AN ALLOWANCE FOR ADDITIONAL BRANCH CIRCUITS, FIXTURES, DEVICES. AND SYSTEMS WIRING WITHIN WALLS OR OPENINGS BEING REMOVED OR RELOCATED. THAT MAY NEED TO BE REMOVED OR RELOCATED TO ACCOMMODATE NEW CONSTRUCTION.

MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING TO REMAIN ELECTRICAL DEVICES, FIXTURES, ETC. THAT PASS THROUGH RENOVATED SPACES BY PROVIDING ADDITIONAL WIRING TO FEED THROUGH TO THESE REMAINING ITEMS. RE-CIRCUIT ANY REMAINING DEVICES AS REQUIRED TO AVAILABLE CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING. EXISTING SYSTEMS INCLUDE POWER DISTRIBUTION, TELEPHONE/DATA, SECURITY, AND CABLE TV.

COORDINATE DEMOLITION OF EQUIPMENT, DEVICES, ETC. WITH OTHER DISCIPLINES AND OWNER AS APPLICABLE.

FOR DEVICES, FIXTURES, ETC. TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD OR NEAREST JUNCTION POINT FOR CIRCUITS WITH OTHER DEVICES TO REMAIN UNLESS OTHERWISE NOTED.

EXISTING CIRCUITS INDICATED ARE DIAGRAMMATIC ONLY. VERIFY EXACT ROUTING OF EXISTING CONDUIT RUNS AND NUMBERS OF CONDUCTORS AND PROVIDE ADDITIONAL CONDUITS/CONDUCTORS AS NECESSARY TO ACCOMPLISH DESIGN INTENT.

ANY EXISTING ELECTRICAL DEVICES LEFT WITHOUT POWER DUE TO THIS RENOVATION SHALL BE RECONNECTED TO SAME SIZE CIRCUIT(S) AS PRESENTLY SERVED. NO ELECTRICAL DEVICES SHALL BE LEFT WITHOUT POWER.

IF OTHER AREAS OF THE FACILITY ARE SERVED THROUGH THE REMODELED AREA. THEIR CIRCUITS SHALL BE REWORKED AT A TIME COORDINATED WITH THE OWNER TO MINIMIZE ANY AREA BEING WITHOUT POWER. ALL AREAS OF THE FACILITY SHALL MAINTAIN THEIR EXISTING ELECTRICAL SERVICES, REWORKED IF

PATCH AND REPAIR ALL SURFACES CONTAINING DEMOLITION. MATERIALS AND FINISHES SHALL MATCH ADJACENT SURFACES.

IN AREA OF RENOVATIONS, ANY REMAINING (EXISTING) CONDUIT, JUNCTION BOXES, FIXTURES, CABLES, ELECTRICAL DEVICES SHALL BE SUPPORTED PER THE SPECIFICATIONS. AS A RESULT, ALL ELECTRICAL WORK, EXISTING AND NEW IN THE AREA OF RENOVATION SHALL BE SUPPORTED PER THE SPECIFICATIONS OF THIS PROJECT.

CONDUCTORS IN THE RENOVATED AREA SHALL BE NEW. DO NOT REUSE EXISTING WIRING UNLESS NOTED OTHERWISE.

PROVIDE NEW BLANK COVERPLATES ON ANY UNUSED FLUSH MOUNT DEVICE BOXES UPON COMPLETION OF PROJECT.

PROPERLY DISPOSE OF ALL ITEMS BEING REMOVED AS PART OF THIS PROJECT. THE OWNER SHALL HAVE THE RIGHT TO RETAIN ANY ELECTRICAL ITEMS REMOVED FROM THE REMODELED AREA AND NOT INDICATED TO BE REUSED. IF THE OWNER DOES NOT WANT THE ITEMS, CONTRACTOR SHALL REMOVE ITEMS FROM THE SITE. COORDINATE ITEMS TO BE RETAINED WITH OWNER.

FOR ALL EXISTING DEVICES INDICATED TO REMAIN, FIELD VERIFY THE EXISTING CIRCUIT, AND PROVIDE NEW LABEL ON DEVICE PLATE WITH CORRECT PANEL/CIRCUIT PER SPECIFICATIONS.

SELF-ADHESIVE LABEL WITH

PANEL & CIRCUIT NUMBER, BLACK TEXT ON CLEAR LABEL (TYP)

B-1

TYPICAL LIGHTING CONTROL

(SWITCH, DIMMER,

<u>FACEPLATE</u>

OCCUPANCY SENSOR)

MAIN ROOM LIGHTS

WARRANTY/COMPLETION OF WORK:

CONTRACTOR SHALL GUARANTEE WORK INSTALLED UNDER THE CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP & MATERIALS, USUAL WEAR EXCEPTED. SHOULD ANY SUCH DEFECTS DEVELOP WITHIN A PERIOD OF ONE YEAR FROM THE PROJECT DATE OF SUBSTANTIAL COMPLETION, THIS CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DEFECTIVE ITEMS & DAMAGE RESULTING FROM FAILURE OF THESE ITEMS, AT NO EXPENSE TO THE OWNER.

PERTINENT CERTIFICATES, WARRANTIES, AND O&M MANUALS SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE, PRIOR TO FINAL BILLING. PROVIDE THREE (3) HARD COPY BOUND VOLUMES AND ONE (1) ELECTRONIC SET IN PDF FORMAT ON USB FLASH DRIVE.

BEFORE FINAL ACCEPTANCE BY THE OWNER WILL BE GRANTED. THE CONTRACTOR SHALL CLEAN ALL DEVICE PLATES, SERVICE FITTINGS AND OTHER ITEMS FURNISHED UNDER THIS CONTRACT. ALL EQUIPMENT AND DEVICES SHALL BE FREE OF CORROSION, DIRT, PAINT, SPLATTER, OR DAMAGE OF ANY KIND. CONTRACTOR SHALL CLEAN, REPAIR, OR REPLACE SAME AS INSTRUCTED BY THE OWNER BEFORE FINAL PAYMENT. EVERY PART OF THE INSTALLATION SHALL BE TESTED, OPERATED, AND LEFT IN PERFECT WORKING ORDER.

AT COMPLETION OF WORK, ELECTRICAL CONTRACTOR SHALL DELIVER TO OWNER (3) SETS OF AS-BUILT DRAWINGS SHOWING LOCATION AND SIZE OF ALL ELECTRICAL WORK.

RACEWAY & WIRING:

CONDUIT RUNS SHOWN ARE SCHEMATIC AND DO NOT INDICATE THE NECESSARY ITTINGS AND JUNCTION BOXES THAT ARE INCLUDED IN THE SCOPE OF THE WORK. ALL <u>CONDUIT ROUTES</u> SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY FINAL ROUTE.

JUNCTION, PULL AND OUTLET BOXES SHALL BE INSTALLED SUCH THAT THE WIRING CONTAINED IN BOX MAY BE RENDERED ACCESSIBLE. WIRING SHALL BE NEATLY ARRANGED AND LACED WITH APPROVED CABLE TIES IN ACCORDANCE WITH INDUSTRY STANDARD PRACTICE.

CONDUCTORS SHALL BE COPPER, 600 VOLTS, THHN-THWN, 75°C INSULATION. #10 AWG AND SMALLER SHALL BE SOLID. #8 AWG AND LARGER SHALL BE STRANDED. MINIMUM SIZE SHALL BE #12 AWG.

MULTI-WIRE BRANCH CIRCUITS (SHARED NEUTRALS) ARE NOT PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE.

WHERE MULTI-WIRE BRANCH CIRCUITS ARE INDICATED OR EXISTING, PROVIDE LISTED HANDLE-TIES FOR ALL CIRCUITS SHARING A NEUTRAL. HANDLE-TIES SHALL BE CONSTRUCTED TO FORCE ALL TIED BREAKERS TO SHUT OFF TOGETHER WHEN THE HANDLE OF ANY ONE BREAKER IS MANUALLY MOVED TO THE OFF POSITION. BUT THE HANDLE-TIE SHALL <u>NOT</u> CAUSE COMMON TRIPPING OF ALL BREAKERS WHEN ONE EXPERIENCES AN OVERCURRENT CONDITION. RELOCATE EXISTING HOMERUNS TO ADJACENT SPACES AS REQUIRED TO COMPLY WITH THIS REQUIREMENT AND RELABEL ALL EXISTING RACEWAY AND DEVICES TO INDICATE NEW CIRCUIT NUMBERS. LABEL EACH NEUTRAL AS TO WHICH CIRCUIT IT IS ASSOCIATED WITH.

VERIFY EXACT CIRCUIT LENGTH AND SIZE OF CONDUCTORS TO PROVIDE ACCEPTABLE VOLTAGE DROP PER NEC. INCREASE CONDUIT SIZE AS REQUIRED TO ACCOMMODATE CONDUCTORS IN COMMON RACEWAY.

MAKE SPLICES AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.

ALL CONDUCTORS SHALL BE IN <u>CONDUIT</u> UNLESS NOTED OTHERWISE. EXPOSED CONDUIT AND WHERE SUBJECT TO PHYSICAL DAMAGE SHALL BE RMC. USE FLEXIBLE METALLIC CONDUIT FOR FINAL CONNECTION TO VIBRATING EQUIPMENT: LIQUIDTIGHT IN WET LOCATIONS. USE SCHEDULE 40 PVC BELOW GRADE; TRANSITION TO RMC AT ELBOW BEFORE TURNING UP ABOVE GRADE. USE EMT WITH COMPRESSION FITTINGS IN INTERIOR LOCATIONS NOT SUBJECT TO PHYSICAL DAMAGE. SET SCREW FITTINGS ARE NOT ALLOWED. MINIMUM CONDUIT SIZE IS 1/2" UNLESS NOTED OTHERWISE.

ALL CONDUIT AND WIRING WITHIN BUILDINGS SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER. ALL DEVICE OUTLET BOXES SHALL BE RECESSED UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER. WHERE APPROVED OR NOTED, SURFACE METAL RACEWAY AND DEVICE BOXES SHALL BE USED IN-LIEU OF CONDUIT AND CONCEALED BOXES AT NO EXTRA COST TO THEOWNER.

USE COLOR CODED ADHESIVE MARKING TAPE FOR RACEWAYS, WIRES AND CABLES. COLOR CODE THE WIRING SYSTEM TO MATCH EXISTING CONDITIONS. IF NO CODING EXISTS ON PROPERTY, CODE WIRING AS FOLLOWS:

480Y/277V PHASE A: BROWN 208Y/120V PHASE A: BLACK PHASE B: ORANGE PHASE B: RED PHASE C: YELLOW PHASE C: BLUE NEUTRAL: GRAY NEUTRAL: WHITE GROUND: GREEN GROUND: GREEN

CONDUIT PENETRATIONS OF ROOF, WALLS, FLOORS, AND CEILINGS SHALL BE SEALED TO PRESERVE THE INTEGRITY OF WATERPROOFING, FIRE RATING, AND SOUNDPROOFING FOR WHICH THE ROOF, WALL, FLOOR, OR CEILING IS DESIGNED. MATERIALS AND METHODS USED SHALL COMPLY WITH STATE AND LOCAL BUILDING AND FIRE CODES. COORDINATE WITH GENERAL CONTRACTOR TO ENSURE THAT SEALING/FIRESTOPPING IS DONE.

EQUIPMENT & DEVICES:

<u>LIGHTING FIXTURES</u> SHALL BE AS SCHEDULED.

CONTRACTOR SHALL PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT LIGHTING FIXTURES IN THE TYPE OF WALL OR OTHER LOCATION AT THE SITE REGARDLESS OF WHAT DRAWINGS SHOW. VERIFY BY REVIEWING EXISTING CONDITIONS PRIOR TO ORDERING FIXTURES.

ALL <u>WIRING DEVICES</u> SHALL BE SPECIFICATION GRADE, WITH STAINLESS STEEL COVERPLATE AND MATCHING SCREWS, BY LEVITON, HUBBELL, PASS & SEYMOUR, OR COOPER. VERIFY DEVICE COLOR/FINISH AT SUBMITTAL REVIEW.

WEATHERPROOF COVERS FOR WIRING DEVICES SHALL BE WHILE-IN-USE TYPE. COVERS FOR BUILDING OR WALL-MOUNTED DEVICES SHALL BE CAST ALUMINUM, RED-DOT CODEKEEPER OR EQUAL BY TAYMAC, COOPER, OR HUBBELL. NON-METALLIC COVERS ARE NOT ACCEPTABLE.

> FOR MULTIPLE LIGHTING CONTROLS IN SAME ROOM, PROVIDE LABEL INDICATING LIGHTS

PROVIDE LABEL FOR ALL WIRING DEVICES,

INCLUDING BUT NOT LIMITED TO:

 WALL OCCUPANCY SENSORS FAN SPEED CONTROLS

 MANUAL MOTOR STARTERS REMOTE CONTROL SWITCHES

SERVED BY THIS CONTROL

 RECEPTACLES LIGHT SWITCHES

WALL DIMMERS

CONTROL DEVICES

DEVITA & ASSOCIATES, No. C00415





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DEVITA Project No. 23501-04

PROJECT INFORMATION:

WATER HEATING SYSTEM UPGRADES

778 JUSTICE BLVD

ISSUE DATE: 06/25/2024

NO. DATE

REVISIONS

DESCRIPTION

B. LABEL MATERIAL: STANDARD WALL PLATES: EMBOSSED ADHESIVE TAPE, WITH 1/4-INCH BLACK-

C. PROVIDE DURABLE WIRE MARKERS OR TAGS INSIDE DEVICE BOX OR OUTLET BOX.

FILLED LETTERS ON CLEAR BACKGROUND.

D. FOR MULTIPLE LIGHTING CONTROLS IN SAME ROOM, ALSO PROVIDE LABEL INDICATING LIGHTS

EMERGENCY STOP BUTTONS (SHUNT-TRIP CIRCUIT)

SERVED BY EACH CONTROL. E. FOR MANUAL MOTOR STARTERS AND SWITCHES USED TO CONTROL MOTORS OR EQUIPMENT OTHER THAN LIGHTS, ALSO PROVIDE LABEL

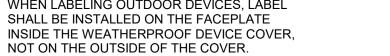
INDICATING EQUIPMENT SERVED BY THE CONTROL.

WHEN LABELING OUTDOOR DEVICES, LABEL SHALL BE INSTALLED ON THE FACEPLATE INSIDE THE WEATHERPROOF DEVICE COVER,



TYPICAL RECEPTACLE FACEPLATE

A-1



DRAWING NO.

DRAWING NAME

E0.

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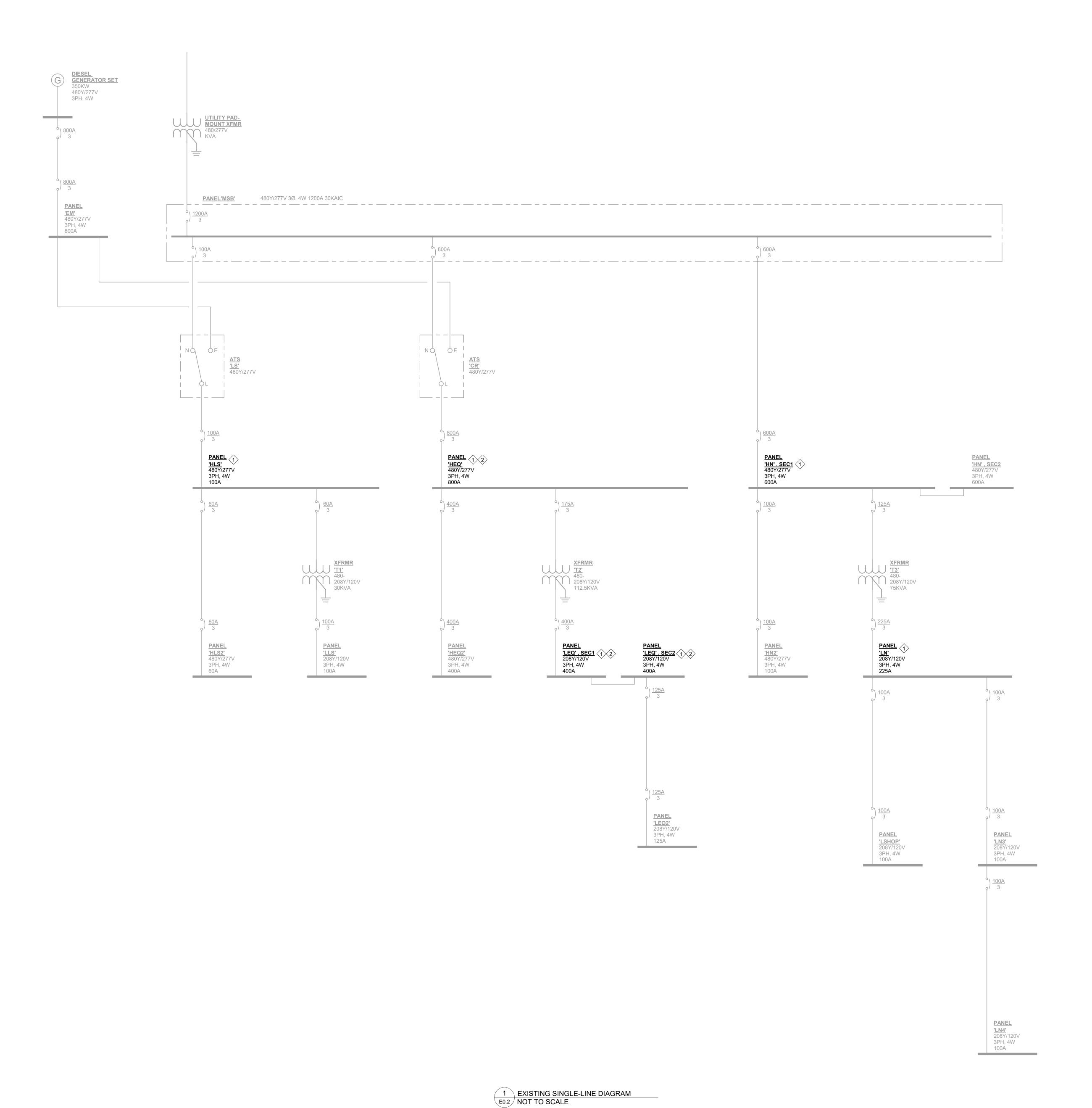
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ELECTRICAL LEGEND

AND SPECIFICATIONS

Drawn By: RHV Checked By: SLE



GENERAL NOTES:

A. ALL EQUIPMENT IS EXISTING TO REMAIN UNO.

KEY NOTES: (#)

- 1. CIRCUITS IN THIS EXISTING PANEL SHALL BE MODIFIED AS DESCRIBED IN THESE DRAWINGS. REFER TO PLANS AND PANEL SCHEDULES.
- 2. PROVIDE UPDATED TYPEWRITTEN PANEL DIRECTORY IN THIS PANEL TO REFLECT CONDITIONS UPON COMPLETION OF THE PROJECT. TRACE OUT AND VERIFY ALL AFFECTED EXISTING CIRCUITS. FOR REMOVED ITEMS OR CIRCUITS THAT ARE NO LONGER USED, LABEL CIRCUIT AS 'SPARE' AND TURN BREAKER OFF. DIRECTORY SHALL INDICATE PANEL NAME/DESIGNATION AS WELL AS PROPER IDENTIFICATION OF ALL EXISTING CIRCUITS.





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DEVITA Project No. 23501-04

PROJECT INFORMATION:

YORK COUNTY PRISON WATER HEATING SYSTEM UPGRADES

778 JUSTICE BLVD YORK, SC 29745

ISSUE DATE: 06/25/2024

REVISIONS

NO. DATE DESCRIPTION

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DRAWING NAME

ELECTRICAL SINGLE-LINE DIAGRAM

DRAWING NO.

E0.2

Drawn By: RHV Checked By: SLE

	P	ane	: LEQ SE	EC. 1									Remarks:					
			EXISTING			Voltage: 120/208 Wye						Min SCCR: 10K						
						Phases: 3						SURF	ACE					
						Wir	es: 4				Rating:							
						Enclosu	DE 1			Rating:		Type: MCB						
						LIICIOSU	11 C. 111	_		rane	raung.	100 /	Type. Web					
BRKF	KR Notes Circuit Description		СКТ	A	(VA)	В	(VA)	C (VA)		СКТ	Circuit Description	Notes	ı	BRKR				
20 A	1	Е	SERVER		1	1500	1440	0				2	OUTLET RM A113, A112	E	1	20 A		
20 A	1	E	OUTLET RM A10)6	3			1080	1000			4	ELEC RM FAN	E	1	20 A		
20 A	1	Е	SERVER		5					1500	1080	6	OUTLET RM A143	Е	1	20 A		
20 A	1	Е	OUTLET RM A11	11	7	1080	1080	0				8	OUTLET RM A141	Е	1	20 A		
20 A	1	Е	OUTLET RM A14	l 1	9			1080	1080			10	OUTLET RM A141	Е	1	20 A		
20 A	1	Е	OUTLET RM A14	6, A160, A175	11					1440	444	12	GWH-16 THRU GWH-18 SYSTEM	R	1	20 A		
20 A	1	R	TMV-1, TMV-2		13	52	540					14	ELEC RM OUTLET	Е	1	20 A		
20 A	1	E	EXT GFCI OUTL	ET GEN.	15			360	0			16	SPARE	Е	1	20 A		
20 A	1	Е	IDU-1		17					200	3000	18	IDI I O		2	40.4		
30 A	1	Е	ODU-1		19	1500	3000	0				20	IDU-2	E	2	40 A		
20 A	1	E	FAN-10		21			700	1300			22	ODIL 3		2	20.4		
20 A	1	E	FAN-11		23					700	1300	24	ODU-2	E	2	20 A		
20 A	1	R	GWH-1 THRU G	WH-6 SYSTEM	25	900	500					26	FAN-19	E	1	20 A		
20 A	1	R	GWH-7 THRU G	WH-12 SYSTE	M 27			900	2100			28	STEAMER	Е	2	30 A		
20 A	1	R	GWH-13 THRU C	GWH-15 SYSTE	EM 29					444	2100	30	STEAMER		_	30 A		
20 A	1	E	DRYER		31	500	1500	0				32	WASHER	Е	2	20 A		
20 A	1	E	DRYER		33			500	1500			34	WASHER	L		20 A		
20 A	2	E	ICE MACHINE		35					800	1500	36	WASHER	E	2	20 A		
20 A			ICE WACHINE		37	800	1500	0				38	WAGIER		_	20 A		
40 A	2	E	COFFEE URN		39			3700	600			40	REFRIGERATOR	E	1	20 A		
40 A					41					3700	500	42	STEAM MACHINE DENTAL	E	1	20 A		
			PANELBOARD L				92 VA		00 VA		08 VA							
	FEED THRU LOAD TOTAL LOAD						40 VA 32 VA		40 VA 40 VA		02 VA 10 VA							
			TOTAL LOAD			302	32 VA	290	+U VA	320	IU VA							
			Lighting	HVAC	Motors	Recept	tacle F	Refria	Kitchen	Misc			PANEL TOTALS):				
Connec	ted	Load	2000 VA	13648 VA	680 VA	35766				4658								
Demand	l Fa	ctor	125.00%	100.00%	100.00%	NEC				100.0	00%		Total Conn. Load: 98682 VA					
Demand	l Lo	ad	2500 VA	13648 VA	680 VA	22883 \	VA			4658	8 VA		Total Est. Demand: 86299 VA					
													Total Conn. Current: 274 A					
													Total Est. Demand Current: 240 A					

I	Pa	anel	: HEQ										<u>Remarks</u>	<u>):</u>			
			EXISTING	}		Volta	ge: 480/	277 Wye		Mir	SCCR:	30K					
							es: 3	•		М	ACE						
							es: 4				Rating:						
							ıre: TYP	⊏ 1			Rating:		Type: MCB				
						LIICIOSC	ile. TIF			Failei	Nauriy.	000 A	Type. MOD				
BRKR		Notes	otes Circuit Description			A	(VA)	В	(VA)	C (VA)	СКТ	Circuit Description	\n	Notes		BRKR
	1	E	SPACE	Description	CKT 1							2	SPACE SPACE	711	E	1	
	1	E	SPACE		3							4	SPACE		<u>_</u>	1	
	1	E	SPACE		5							6	SPACE		E	1	
	1	E	SPACE		7							8	SPACE		 E	1	
	1	E	SPACE		9							10	SPACE		 E	1	
	1	E	SPACE		11							12	SPACE		 E	1	
	1	E	SPACE		13							14	SPACE		 E	1	
	1	E	SPACE		15							16	SPACE		 E	1	
	1	E	SPACE		17							18	SPACE		E	1	
	1	E	SPACE		19							20	SPACE		E	1	
	1	E	SPACE		21							22	SPACE		E	1	
	1	E	SPACE		23							24	SPACE		E	1	
					25	2000						26	SPACE		E	1	
20 A	3 E GRINDER PUMP		27			2000				28	SPACE		E	1			
					29					2000		30	SPACE		E	1	
20 A	1	R	UH-1 (WATER H	EATER ROOM)	31	2000	10000					32					
20 A	1	Е	FPB 9.13	<u>, </u>	33			2500	10000			34	DISH WASHER BOOSTER		E	3	50 A
20 A	1	Е	EMERGENCY LI	GHTS	35					2000	10000	36	1				
20 A	1	Е	EMERGENCY LI	GHTS	37	2800	2200					38					
20 A	1	Е	WALL HEAT SPE	RINKLER	39			2000	2200			40	DISPOSAL		E	3	20 A
					41					5500	2200	42					
30 A	3	Ε	SEF #8		43	5500	7800					44					
					45			5500	7800			46	DISHWASHER		E	3	40 A
					47					80200	7800	48					
400 A	3	Е	PANEL 'HEQ2'		49	80400	26500					50					
					51			73900	26500			52	A/C #8		Е	3	125 A
	1	Е	SPACE OCCUPI	ED BY 'HEQ2' B	KR 53						26500	54					
			SPACE OCCUPI		55		26500					56					
	3	E	BREAKER	EN DI IVIAIN	57				26500			58	A/C #9		Е	3	125 A
					59						26500	60					
					61	0	36232					62	PANEL 'LEQ SEC. 1' & 'LEQ	SEC 311/14			
800 A	00 A 3 E MA		MAIN BREAKER		63			0	29840			64	XFMR 'T2'	SEC. 2 VIA	E	3	175 A
	6			65					0	32610	66						
						2019	32 VA	1887	'40 VA	1953	10 VA						
			Lighting	HVAC	Motors	Reconf	acle R	ofria	Kitchen	Misc			DANE	L TOTALS:			
Connect	ed	Load	6800 VA	179148 VA	680 VA	75666 Y		ziriy	AILCHEIL		88 VA		PAINE	L IUIALS.			
Demand			125.00%	100.00%	100.00%	NEC				100.0			Total Conn. Load:	585982 VA			
			8500 VA	179148 VA	680 VA	42833	VA				88 VA		Total Est. Demand:				
Demand					<u>.</u>				+								
Jeiliana													Total Conn. Current:	705 A			

	LI	GHTING	FIXTU	RE SC	CHEDULE		
FIXTURE MARK	FIXTURE DESCRIPTION	LAMP TYPE AND LUMENS	VOLTAGE	FIXTURE WATTS	MOUNTING METHOD AND HEIGHT	ACCEPTABLE MANUFACTURERS	REMARKS
UT	4' LED STRIP FIXTURE, BAKED WHITE STEEL HOUSING, DIFFUSE SNAP-ON LENS	LED 4000°K 5000 LUMENS	MVOLT	41	CHAIN HUNG AT 10'-0" AFF	MANUF: LITHONIA LIGHTING PART # ZL1D L48 5000LM FST MVOLT 40K 80CRI HC36 M12 OR EQUAL BY METALUX OR COLUMBIA OR HE WILLIAMS	
	S SHALL BE CONFIRMED BY ARCHITECT OR OWNER PRIOR TO	O ORDERING.					

- B. LED DRIVERS SHALL CONFORM TO IEEE P1789 STANDARDS. ALTERNATIVELY, MANUFACTURERS MUST DEMONSTRATE CONFORMANCE WITH PRODUCT LITERATURE AND TESTING WHICH DEMONSTRATES THIS PERFORMANCE. SYSTEMS THAT DO NOT MEET IEEE P1789 WILL NOT BE CONSIDRED.
- C. LED DRIVERS SHALL BE MULTI-VOLT. IF MULTI-VOLT DRIVERS ARE NOT AVAILABLE, THEN REQUIRED VOLTAGE SHALL BE VERIFIED WITH ENGINEER PRIOR TO ORDERING.
- D. ENSURE THAT LIGHTING CONTROL DEVICES ARE COMPATIBLE WITH FIXTURES AND LAMPS.
- E. PROVIDE ALL REQUIRED HARDWARE FOR PENDANT MOUNTED FIXTURES. VERIFY TYPE REQUIRED WITH ARCHITECT.
- F. PROVIDE MOUNTING KITS AND/OR ACCESSORIES REQUIRED FOR INSTALLING FIXTURES IN VARIOUS CEILING TYPES. VERIFY CEILING TYPES WITH ARCHITECTURAL DRAWINGS.

P	ar	nel	: LEQ SEC. 2									Remarks:				
			EXISTING		Voltag	je: 120	0/208 Wye		Min SCCR: 10K							
					Phase			М	ounting:	SURFA	ACE					
					Wire	es: 4			Feeder	Rating:	400 A					
					Enclosu		PE 1			Rating:		Type: MLO				
														\neg		
BRKR	N	otes	Circuit Description	СКТ	Α ('	VA)	В	(VA)	C (VA)	СКТ	Circuit Description	Not	es	E	BRKR
20 A 1		E	UNLABELED LOAD	43	4400	500					44	LOOP DET.	E		1	20 A
50 A 0		_		45			0	1040			46	OUTLET RM A122	E		1	20 A
50 A 2		E	UNLABELED LOAD	47					0	1000	48	TV OUTLET	E		1	20 A
20 A 1		Е	TV OUTLET	49	1000	1040)				50	KIT. WALL DOUBLE OUTLET	E		1	20 A
20 A 1		Е	CAMERA POWER	51			200	720			52	KIT. FLOOR OUTLET	E		1	20 A
20 A 1		R	RCP-2, RCP-3	53					422	1040	54	KIT. OUTLET	E		1	20 A
20 A 1		E	TRAP PRIMERS	55	100	720					56	FLOOR OUTLET A148	E		1	20 A
20 A 1		R	TRAP PRIMERS	57			100	1500			58	X-RAY DENTAL	E		1	20 A
20 A 1		Е	PHONE QUAD OUTLET	59					720	1700	60	COMPRESSOR DENTAL	E		1	20 A
20 A 1		Е	DENTAL CHAIR OUTLET	61	720	170)				62	VACUUM DENTAL	E		1	20 A
20 A 1		Е	OUTLET RM A148	63			1080	1440			64	OUTLET RM A129, A133, A136	E		1	20 A
20 A 1		Е	KIT. FLOOR OUTLET	65					1080	1040	66	OUTLET RM A141	E		1	20 A
20 A 1		E	KIT. FLOOR OUTLET	67	1080	1040)				68	OUTLET RM A177	E		1	20 A
20 A 1		E	WATER HEATER OUTLET	69			1080	1040			70	OUTLET RM A121	E		1	20 A
20 A 1		E	SHOP HVAC CONTROLS	71					200	1000	72	TV OUTLET	E		1	20 A
20 A 1		Е	UNLABELED LOAD	73	1000	670					74					
20 A 1		E	BOOKING LIGHTS	75			1000	4400			76	PANEL 'LEQ2'	E		3	125 A
20 A 1		E	BOOKING LIGHTS	77					1000	4700	78					
20 A 2		N	RCP-1	79 81	340		340				80 82	SPACE OCCUPIED BY PANEL	'LEQ2' E		3	
1		E	SPACE	83			0.0				84	BREAKER				
					2034	0 VA	1394	40 VA	13902 VA							
				I			1		-		1					
			Lighting HVAC	Motors	Recepta		Refrig	Kitchen	Misc			PANEL TO	OTALS:			
onnected			2000 VA 422 VA	680 VA	17880 V	Ά			2720							
emand Factor			125.00% 100.00%	100.00%	NEC			100.0	00%		Total Conn. Load: 481	182 VA				

27200 VA

Total Est. Demand: 44742 VA

Total Conn. Current: 134 A

Total Est. Demand Current: 124 A

2500 VA 422 VA 680 VA 13940 VA

Demand Load

EXISTING PANEL GENERAL NOTES:

- 1. EXISTING CIRCUIT DATA SHOWN IS TAKEN FROM EXISTING FACILITY DOCUMENTATION AND/OR FIELD OBSERVATION. FIELD
- VERIFY ALL CIRCUITS. 2. VERIFY CIRCUITS ON EXISTING PANELS. ADJUST CIRCUITING AS REQUIRED TO MEET DESIGN INTENT OF DRAWINGS. TURN SPARE BREAKERS OFF.
- 3. PROVIDE NEW TYPEWRITTEN PANEL DIRECTORY TO REFLECT NEW CONDITIONS UPON COMPLETION OF WORK DESCRIBED IN
- THESE DRAWINGS. 4. REUSE EXISTING CIRCUIT BREAKERS WHERE POSSIBLE. PROVIDE NEW BREAKERS AS REQUIRED; TYPE, VOLTAGE RATING, AND AIC
- RATING TO MATCH EXISTING. 5. PANEL SCHEDULES REFLECT STATUS AFTER PROPOSED WORK IS COMPLETE, UNLESS NOTED OTHERWISE.

PANEL SCHEDULE NOTES:

- A AFCI BREAKER
- G GFI CIRCUIT BREAKER
- IG ISOLATED GROUND CIRCUIT
- ROUTE CIRCUIT HOMERUN VIA CONTACTOR INDICATED
- PROVIDE PAD-LOCK ATTACHMENT FOR MAINTENANCE LOCK-OUT OF CIRCUIT BREAKER
- LO PROVIDE LOCK-ON DEVICE FOR CIRCUIT BREAKER
- P PRE-WIRED INTERNAL CIRCUIT BY SWITCHGEAR MANUFACTURER
- ST SHUNT TRIP CIRCUIT BREAKER
- SUB SUB-FEED CIRCUIT BREAKER
- E EXISTING BREAKER AND CIRCUIT IN EXISTING PANEL TO REMAIN
- NEW BREAKER. REMOVE EXISTING BREAKER IN SPACE AND TURN OVER TO OWNER IF ONE IS PRESENT.
- R REUSE EXISTING BREAKER FOR NEW CIRCUIT LOAD AND/OR DESCRIPTION INDICATED





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DEVITA Project No. 23501-04

PROJECT INFORMATION:

YORK COUNTY PRISON WATER HEATING SYSTEM UPGRADES

778 JUSTICE BLVD YORK, SC 29745

ISSUE DATE: 06/25/2024 **REVISIONS**

DESCRIPTION

NO. DATE

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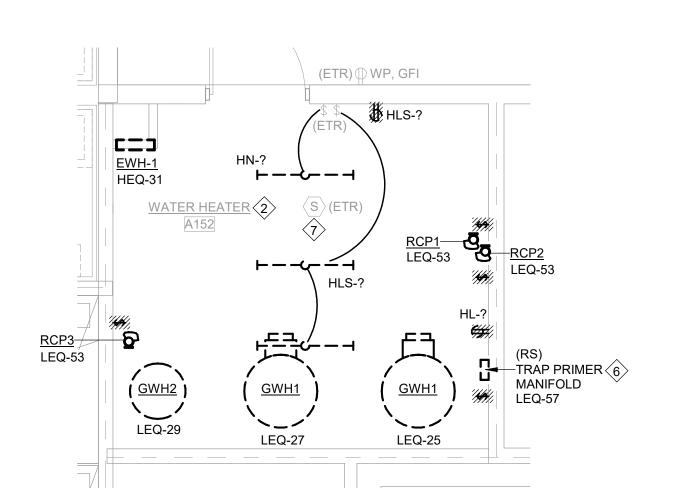
DRAWING NAME

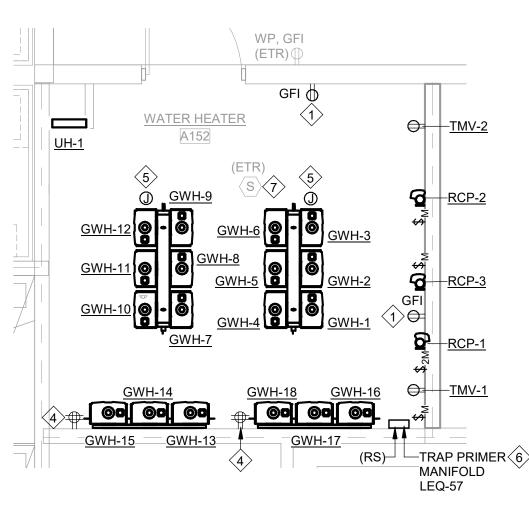
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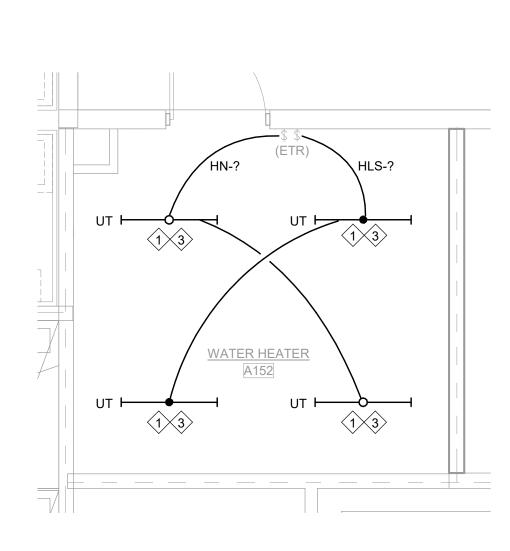
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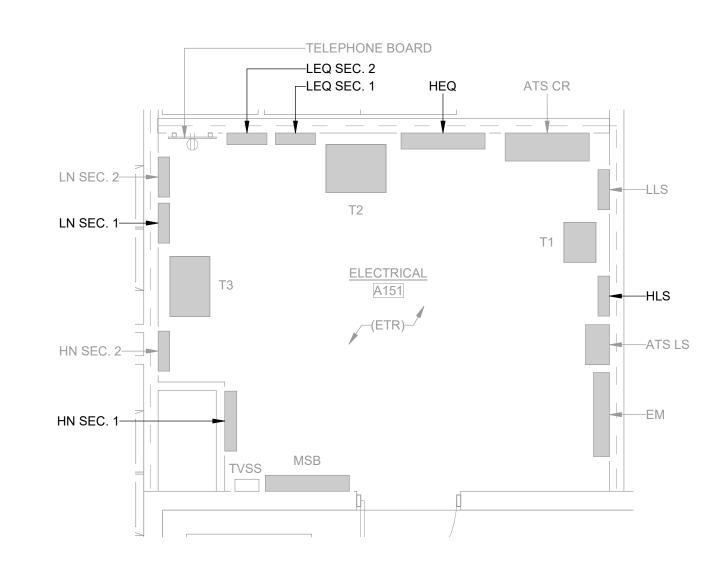
Drawn By: RHV Checked By: SLE

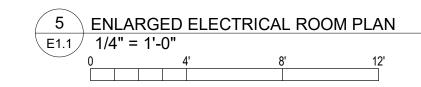
	MECHANICAL EQUIPMENT SCHEDULE													
TAC	VOLTAGE	DUACE	LOAD		D	CONDUCTORS &	DISCONNECT	CIRCUIT		DEMARKS				
TAG	VOLIAGE	PHASE	kW	HP FLA		CONDUIT	DISCONNECT	PANEL NO		REMARKS				
GWH-1 THROUGH GWH-6 RACK SYSTEM	120	1			7.5	2#12, 1#12G; 3/4"C	CORD AND PLUG	LEQ SEC. 1	25	SEE PLAN NOTE 5 ON SHEET E1.1 FOR MORE INFORMATION.				
GWH-7 THROUGH GWH-12 RACK SYSTEM	120	1			7.5	2#12, 1#12G; 3/4"C	CORD AND PLUG	LEQ SEC. 1	27	SEE PLAN NOTE 5 ON SHEET E1.1 FOR MORE INFORMATION.				
GWH-13 THROUGH GWH-15 RACK SYSTEM	120	1			3.7	2#12, 1#12G; 3/4"C	CORD AND PLUG	LEQ SEC. 1	29	SEE PLAN NOTE 4 ON SHEET E1.1 FOR MORE INFORMATION.				
GWH-16 THROUGH GWH-18 RACK SYSTEM	120	1			3.7	2#12, 1#12G; 3/4"C	CORD AND PLUG	LEQ SEC. 1	12	SEE PLAN NOTE 4 ON SHEET E1.1 FOR MORE INFORMATION.				
RCP-1	208	1			3.3	2#12, 1#12G; 3/4"C	MOTOR RATED SWITCH	LEQ SEC. 2	79,81	COORDINATE POWER TO PUMP AQUASTAT. REFER TO DETAIL 6 ON SHEET P0.2 FOR MORE INFORMATION.				
RCP-2	120	1			1.76	2#12, 1#12G; 3/4"C	MOTOR RATED SWITCH	LEQ SEC. 2	53	COORDINATE POWER TO PUMP AQUASTAT. REFER TO DETAIL 6 ON SHEET P0.2 FOR MORE INFORMATION.				
RCP-3	120	1			1.76	2#12, 1#12G; 3/4"C	MOTOR RATED SWITCH	LEQ SEC. 2	53	COORDINATE POWER TO PUMP AQUASTAT. REFER TO DETAIL 6 ON SHEET P0.2 FOR MORE INFORMATION.				
TMV-1	120	1				2#12, 1#12G; 3/4"C	CORD AND PLUG	LEQ SEC. 1	13					
TMV-2	120	1				2#12, 1#12G; 3/4"C	CORD AND PLUG	LEQ SEC. 1	13					
UH-1	277	1	2			2#12, 1#12G; 3/4"C	FURNISHED WITH EQUIPMENT	HEQ	31					

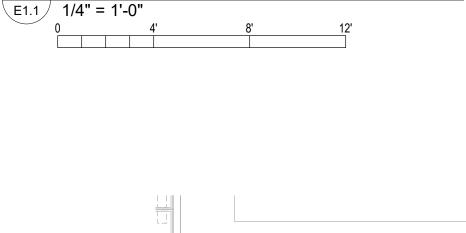




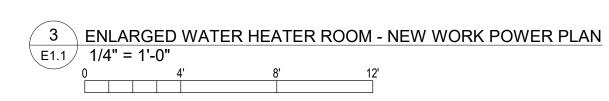




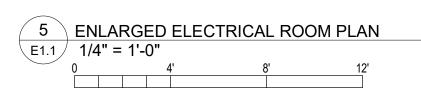




ENLARGED WATER HEATER ROOM - DEMO PLAN







GENERAL DEMOLITION NOTES:

- A. FOR ALL EXISTING FIXTURES, DEVICES, ETC. INDICATED TO REMAIN, FIELD VERIFY THE EXISTING CIRCUIT, AND PROVIDE NEW LABEL ON DEVICE PLATE WITH CORRECT PANEL/CIRCUIT PER SPECIFICATIONS.
- B. FOR DEVICES, FIXTURES, ETC. TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD, UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING TO FEED THROUGH TO THESE REMAINING ITEMS. RE-CIRCUIT ANY REMAINING DEVICES AS REQUIRED TO AVAILABLE PANELBOARD SPACE. RELOCATE ANY CIRCUITS THAT REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL
- C. ITEMS TO BE REMOVED ARE INDICATED BY DASHED LINETYPE AND/OR HATCHING.
- D. FIELD VERIFY ALL CIRCUITS.
- E. IN THE AREA OF RENOVATION ANY EXISTING FIRE ALARM SMOKE DETECTORS SHOWN TO REMAIN SHALL BE TEMPORARILY REPLACED WITH THERMAL DETECTORS. ALL SPACES WHERE EXISTING SMOKE DETECTORS ARE TO BE REMOVED SHALL BE PROVIDED WITH TEMPORARY THERMAL DETECTORS. NUMBER AND SPACING OF TEMPORARY DETECTORS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL AREAS OF RENOVATION SHALL BE TEMPORARILY COVERED BY FIRE ALARM THERMAL DETECTORS.
- F. REROUTING OF EXISTING CONDUCTORS MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR AROUND NEW WORK. FOR DEVICES SHOWN, PROVIDE WORK AS DENOTED BELOW:
- (ETR) DENOTES EXISTING DEVICES, FIXTURES, EQUIPMENT, ETC. ARE EXISTING TO REMAIN. THEY AND THEIR ASSOCIATED CIRCUITING, CABLING, AND RACEWAYS SHALL
- (RS) REMOVE AND SALVAGE EXISTING DEVICES, FIXTURES, EQUIPMENT, ETC. FOR REINSTALLATION IN RENOVATED AREA. ALL ASSOCIATED CIRCUITING, CABLING, AND RACEWAYS SHALL BE REMOVED BACK TO CONVENIENT LOCATION TO ACCOMMODATE DEMOLITION AND EXTENSION TO NEW LOCATIONS.

GENERAL NOTES:

- A. LABEL ALL WIRING DEVICES WITH PANEL/CIRCUIT SERVING DEVICE. REFER TO LABELING DETAIL ON SHEET E0.1.
- B. COORDINATE EXACT CIRCUIT REQUIREMENTS WITH ACTUAL EQUIPMENT NAMEPLATE PRIOR TO WORK.

PLAN NOTES: (#>

- 1. REPLACE EXISTING DEVICE OR FIXTURE WITH NEW PER NOTE THE EXISTING CIRCUIT ON THE AS-BUILT DRAWINGS.
- 2. EXISTING CIRCUITS INDICATED ARE FOR REFERENCE ONLY. FIELD VERIFY ALL AFFECTED CIRCUITS.
- 3. COORDINATE LIGHT FIXTURE MOUNTING LOCATIONS AND HEIGHTS WITH THE INSTALLATION OF THE PIPING IN THE SPACE.
- PROVIDE NEMA 5-20R QUAD RECEPTACLE FOR WALL MOUNTED GAS WATER HEATER RACK SYSTEM CONNECTION.
- 5. WATER HEATER PACKAGE IS FURNISHED WITH FACTORY MOUNTED ELECTRICAL ASSEMBLY WITH (3) NEMA 5-20R DUPLEX RECEPTACLES FOR CONNECTION OF ALL WATER HEATERS ON THE SKID. PROVIDE POWER TO SINGLE-POINT CONNECTION PER MANUFACTURER'S INSTRUCTIONS.
- 6. EXISTING TRAP PRIMER TO BE RELOCATED. EXTEND EXISTING CIRCUIT TO NEW LOCATION AND RECONNECT.
- 7. ENSURE EXISTING SMOKE DETECTOR IS NOT OBSCURED BY FINAL PIPING OR EQUIPMENT INSTALLATION. RELOCATE AS REQUIRED TO PROVIDE PROPER CLEARANCE.





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DEVITA Project No. 23501-04

PROJECT INFORMATION:

YORK COUNTY PRISON WATER HEATING SYSTEM UPGRADES

778 JUSTICE BLVD YORK, SC 29745

ISSUE DATE: 06/25/2024 **REVISIONS** NO. DATE DESCRIPTION

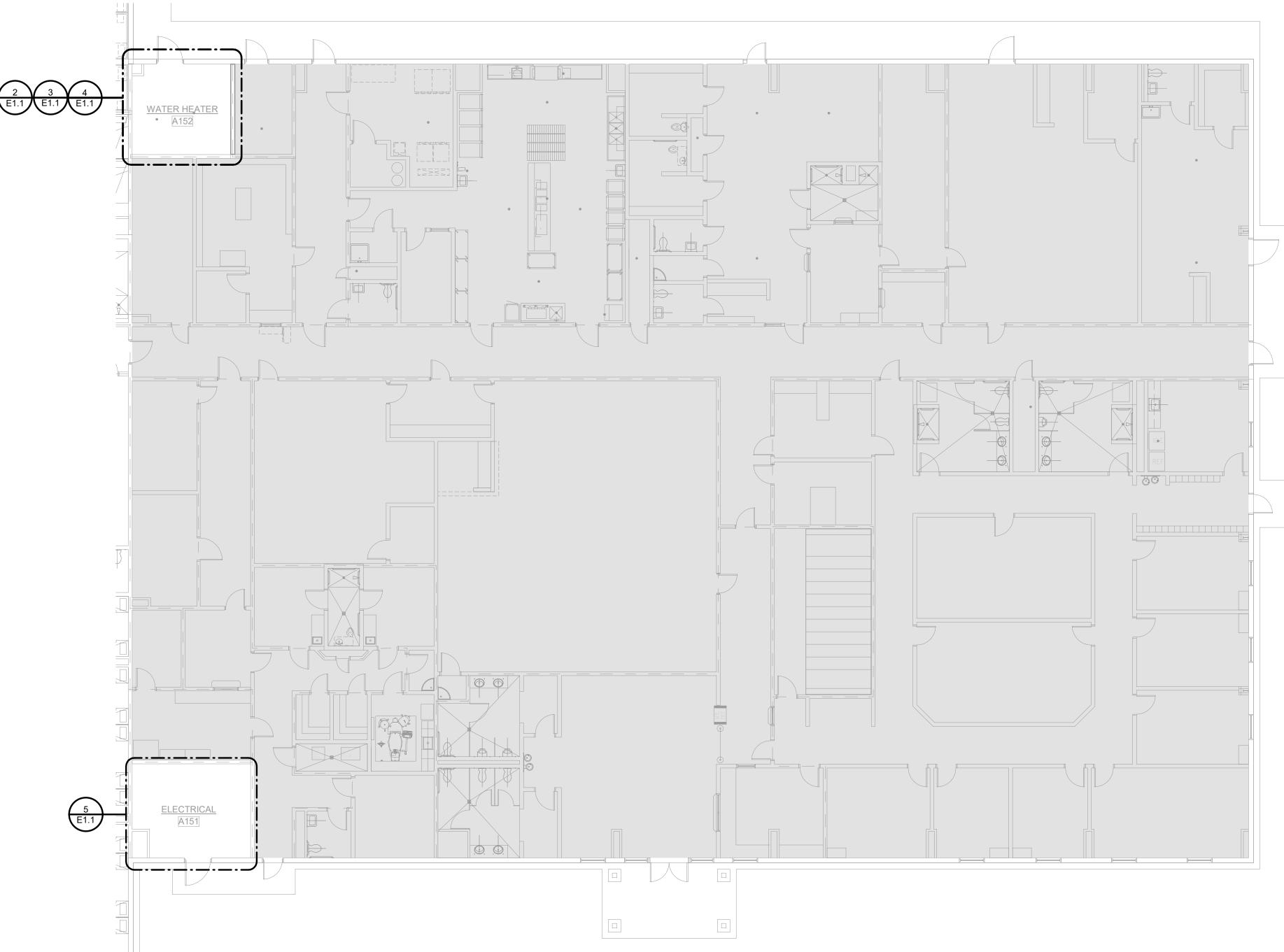
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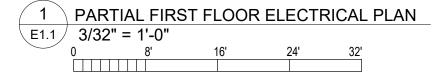
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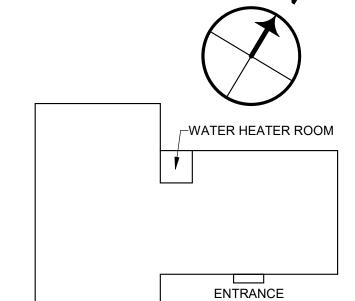
ELECTRICAL FLOOR PLAN

DRAWING NO.

Drawn By: RHV Checked By: SLE







KEY PLAN