

ADDENDUM NO. 1
TO: PROJECT MANUAL
FOR:

ARKANSAS TECH UNIVERSITY (ATU) | TUCKER COLISEUM
PHASE 1 MECHANICAL ROOM RENOVATION (HW)
BID NO. B025054

18 October 2025

This Addendum forms a part of the Contract Documents and modifies or interprets the Project Manual and Drawings, as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject bidder to disqualification.

A. CLARIFICATIONS

1. The intent of the controls note on M2.0 is to mark for demo *existing equipment* controls serving existing equipment to be demolished. These controls could be via electrical or controls panels. Marking them for demo will allow verification that these are no longer in use and allow for demo in a future phase.
2. M5.1 controls intent is to provide *new equipment* controls as required by the sequence of operations and also to have those integrated into the existing Siemens building control system.
3. The manufacturers for the Existing MCC and Switchboard P (for replacement breaker purposes are:

MCC = Eaton Freedom Series 2100 Motor Control Center

Switchboard P = Eaton Pow-R-Line C Switchboard

B. PROJECT MANUAL

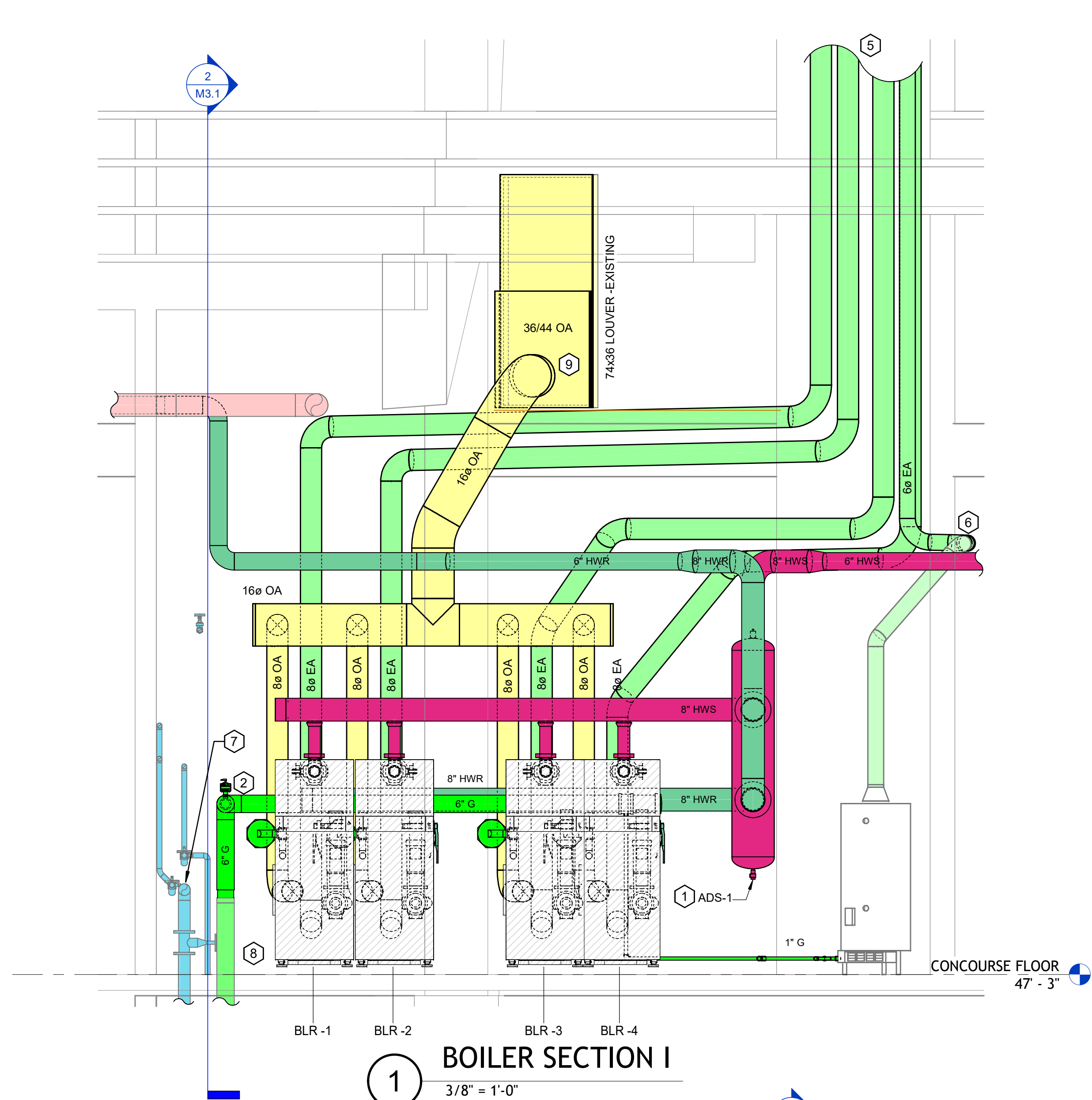
1. Division 00, Section 00100 – INFORMATION FOR BIDDERS: 12 SUBMISSION OF BIDS, Item 12.1: omit the reference to bound bids in the project manual as shown below:

Bids shall be submitted at the time and place indicated in the Advertisement or Invitation to Bid. Bids shall be ~~bound in the original project manual and shall~~ be enclosed in an opaque sealed envelope, marked with the Project Title (and, if applicable, the designated position of the Project for which the Bid is submitted) and name, address, and contractor's license number of the Bidder, and accompanied by the Bid security and other required documents. If the Bid is sent through the mail or other delivery system, the sealed envelope shall be enclosed in a separate envelope with the notation "BID ENCLOSED" on the face of it.

C. PROJECT DRAWINGS

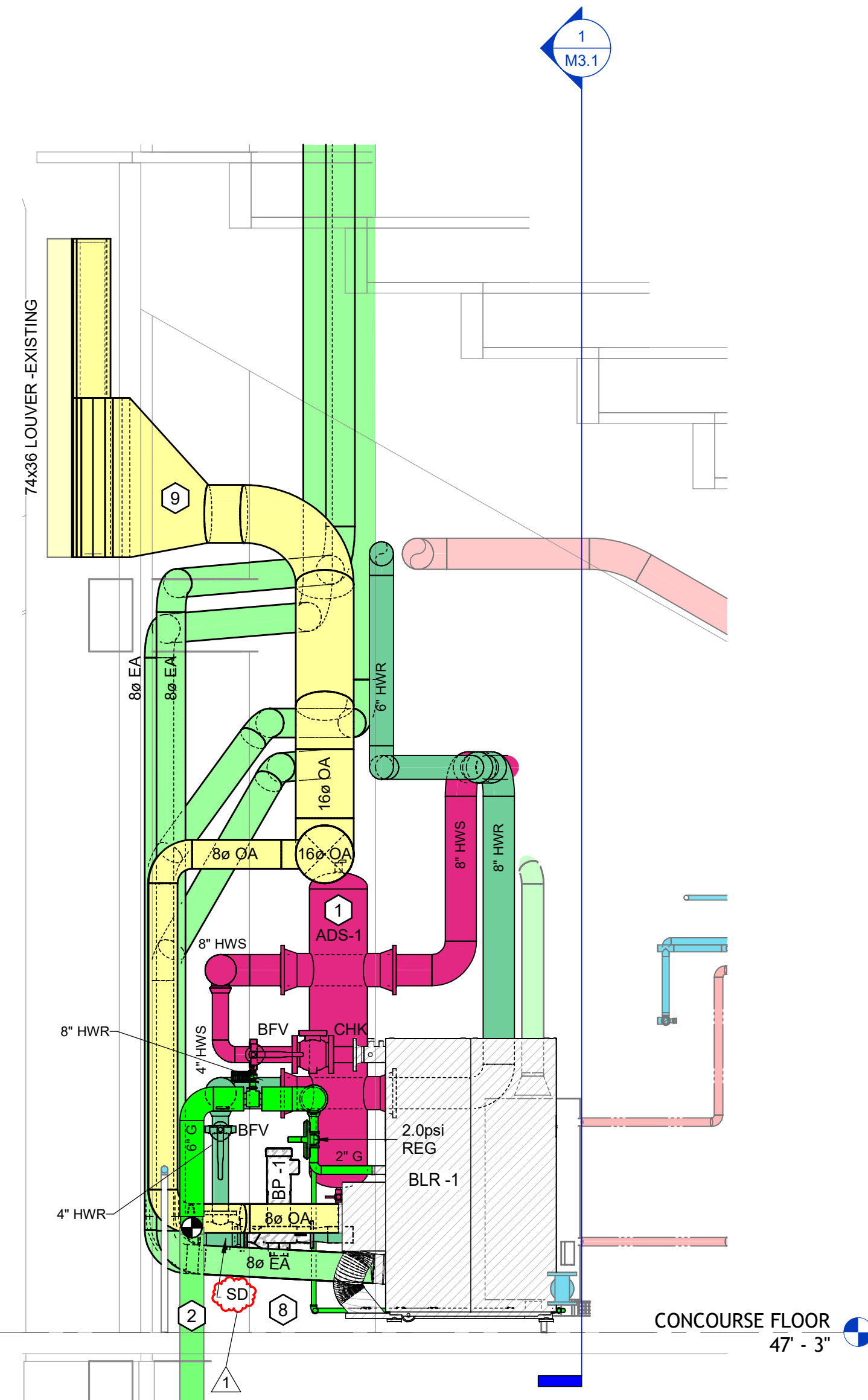
1. Sheet M3.1 – Mech Room HW Renovation Sections: Replace in its entirety with the attached.
2. Sheet M4.1 – Mechanical Schedule HW: Replace in its entirety with the attached.

END OF ADDENDUM NO. 1



1 BOILER SECTION I

3/8" = 1'-0"

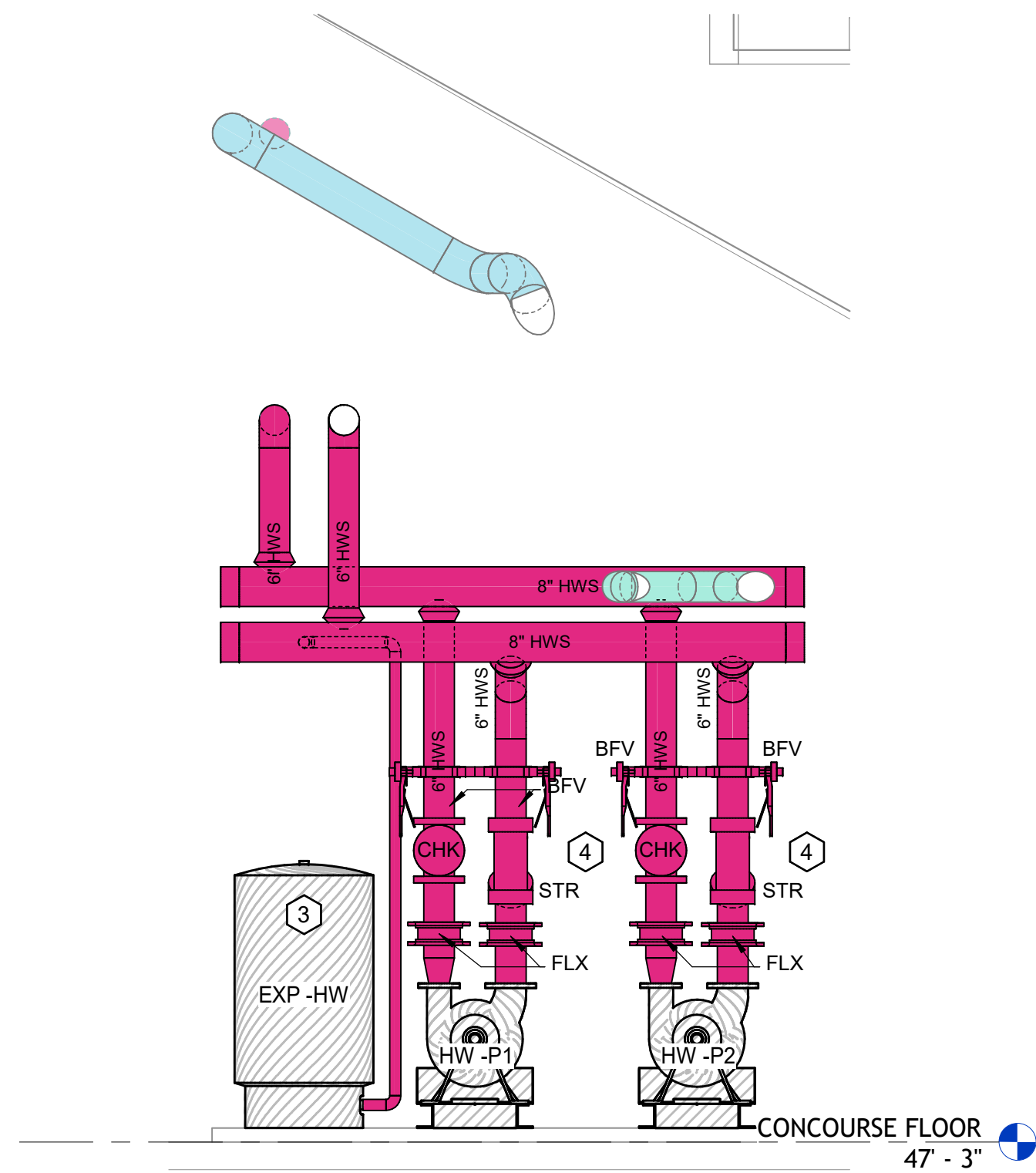


2 BOILER SECTION II

3/8" = 1'-0"

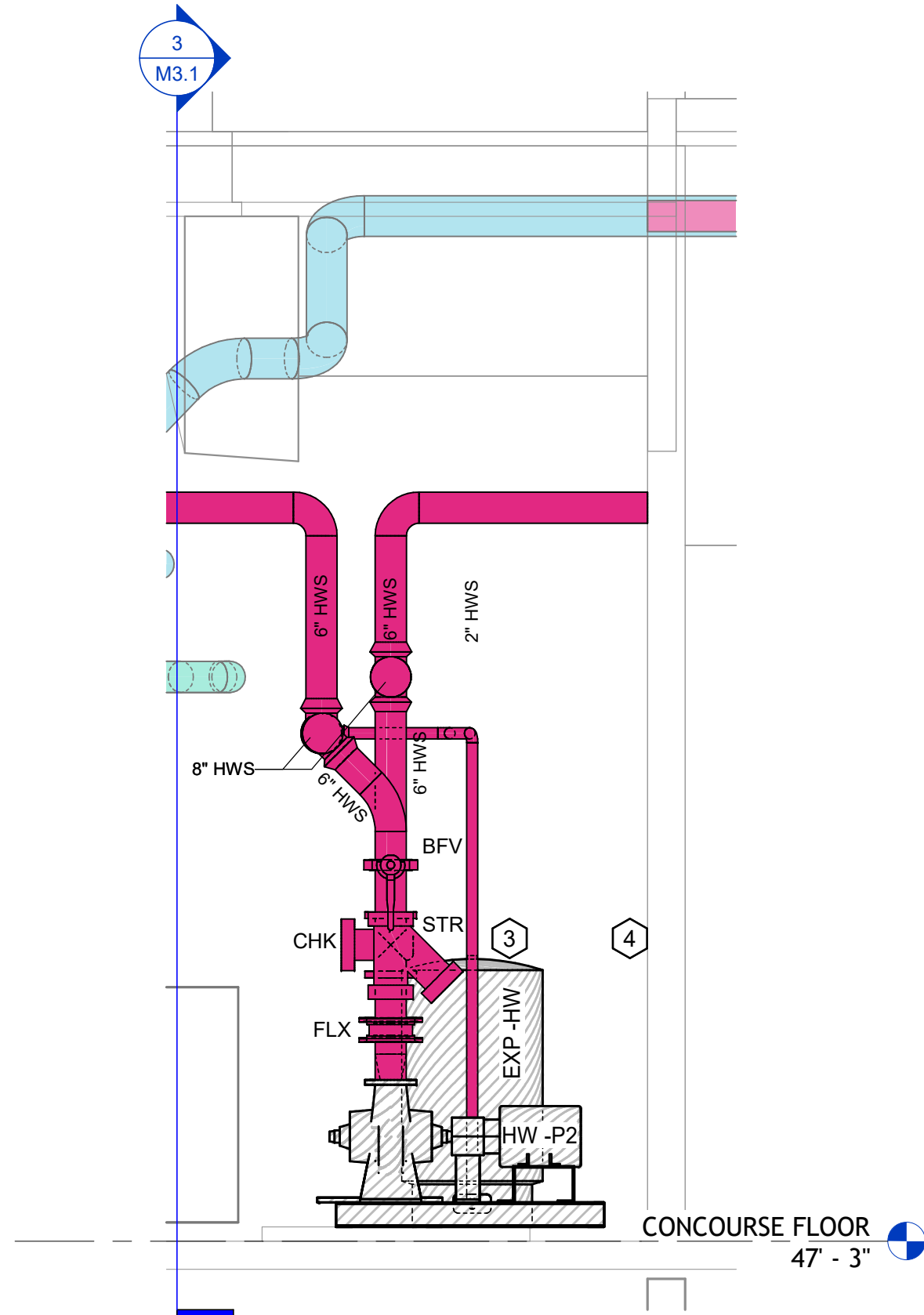
KEYED NOTES:

1. PROVIDE COMBINATION **AIR DIRT SEPARATOR LOW LOSS HEADER, ADS**, EQUAL TO SPIROTERM QUAD VDX800FAM (FLANGED, MAGNETIC) ASME WITH BLOWDOWN VALVE AND MAGNETS. SEE DETAIL FOR ADDITIONAL INSTALLATION REQUIREMENTS.
2. GAS ENTRANCE AND DISTRIBUTION PIPING BY PLUMBING CONTRACTOR.
3. PROVIDE **EXPANSION TANK, EXP-HW**, EQUAL TO WESSELS NLA-500, BLADDER TANK WITH 132 GAL ACCEPTANCE RATED TO 125 PSI WORKING PRESSURE.
4. PROVIDE WALL-MOUNTED, HEAVY-DUTY RATED SYSTEM **PUMP VFD** EQUAL TO SQUARE D, YASKAWA, ABB, DANFOSS OR ENGINEER APPROVED. VFD SHALL BE PROVIDED WITH BYPASS AND DISCONNECT. TYPICAL OF 2.
5. PROVIDE SS BOILER FLUE TERMINATION PER MANUFACTURER'S RECOMMENDATION AND TERMINATE WITHIN 6" OF TOP OF MASONRY CHIMNEY. PROVIDE SUPPORT AT TOP OF CHIMNEY. TYPICAL OF 4.
6. EXTEND WATER HEATER FLUE THROUGH AND UP CHIMNEY. PROVIDE TERMINATION PER MANUFACTURER'S RECOMMENDATION AND TERMINATE WITHIN 6" OF TOP OF MASONRY CHIMNEY. PROVIDE SUPPORT AT TOP OF CHIMNEY.
7. CONNECT TO BLDG DCW RISER. DOMESTIC WATER ENTRANCE AND PIPING (BY PLUMBING CONTRACTOR). CONNECT BOILER MAKEUP WATER PIPING (BY MECHANICAL CONTRACTOR) DOWNSTREAM OF BUILDING BACKFLOW PREVENTER.
8. PROVIDE **CONDENSATE NEUTRALIZER** FROM BOILER MANUFACTURER.. NEUTRALIZERS SHALL BE RATED FOR 2,000 MBH HEATING CAPACITY, MINIMUM, WITH TRANSLUCENT CONSTRUCTION TO VERIFY NEUTRALIZING MEDIA LEVELS. NEUTRALIZERS SHALL BE INSTALLED IN HORIZONTAL ORIENTATION, WITH PIPE UNIONS ON BOTH SIDES OF NEUTRALIZER FOR MAINTENANCE. DISCHARGE CONDENSATE TO NEAREST FLOOR DRAIN. TYPICAL AT EACH BOILER CONDENSATE DISCHARGE.
9. DUCT BOILER COMBUSTION AIR AS SHOWN TO EXISTING LOUVER. PROVIDE DUCT PLENUM ON LOWER HALF OF LOUVER AND PROVIDE BLANKOFF PLATE FOR UPPER HALF OF LOUVER, SEALING AROUND EDGES.



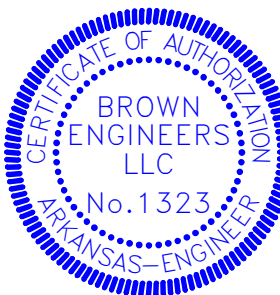
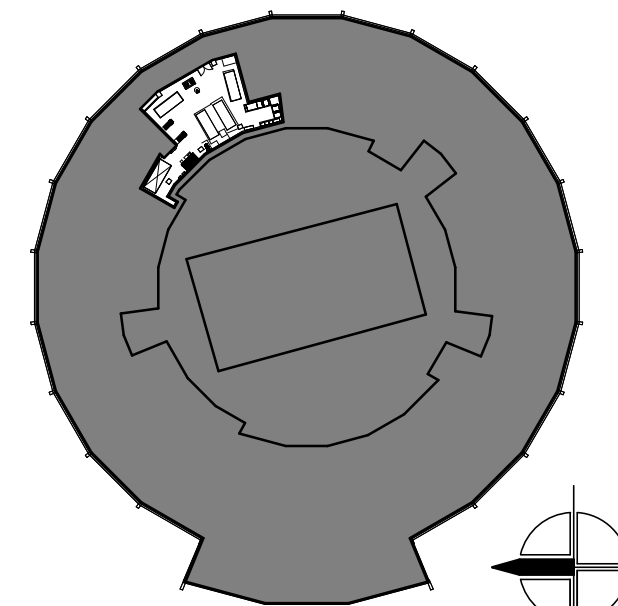
3 HOT WATER PUMP SECTION I

3/8" = 1'-0"



4 HOT WATER PUMP SECTION II

3/8" = 1'-0"



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ROOM RENOVATION
ARKANSAS TECH UNIVERSITY
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ATU-002-T01

REV #	DESCRIPTION	DATE
1	ADD 001	10-18-25

ISSUE DATE: 06/23/25

1"

ONE INCH AT FULL SIZE. IF NOT
ONE INCH SCALE ACCORDINGLY

MECH ROOM HW
RENOVATION
SECTIONS

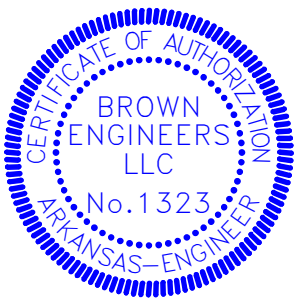
M3.1

HVAC -- BOILER SCHEDULE								
DESIGNATION		Manufacturer	Model	Description	INPUT BTUH (EACH BOILER)	OUTPUT BTUH (EACH BOILER)	ELECTRICAL REQUIREMENTS	
Type Mark	Mark						VOLTAGE	PHASE
BLR	1	Viessmann	Vitocrossal 200 C12 2000	Commercial Condensing Boiler With Filtered Combustion Air Intake	2,000,000 Btu/h	1,940,000 Btu/h	120 V	1
BLR	2	Viessmann	Vitocrossal 200 C12 2000	Commercial Condensing Boiler With Filtered Combustion Air Intake	2,000,000 Btu/h	1,940,000 Btu/h	120 V	1
BLR	3	Viessmann	Vitocrossal 200 C12 2000	Commercial Condensing Boiler With Filtered Combustion Air Intake	2,000,000 Btu/h	1,940,000 Btu/h	120 V	1
BLR	4	Viessmann	Vitocrossal 200 C12 2000	Commercial Condensing Boiler With Filtered Combustion Air Intake	2,000,000 Btu/h	1,940,000 Btu/h	120 V	1
BOILER SCHEDULE NOTES:								
1. PROVIDE FOUR (4) GAS-FIRED CONDENSING BOILERS, WITH MAX OF THREE (3) IN OPERATION AT PEAK LOAD FOR N+1 REDUNDANCY.								
2. BOILERS SHALL BE UTILIZED IN A PRIMARY / SECONDARY HEATING WATER SYSTEM.								
3. HEATING WATER SUPPLY AND RETURN DESIGN TEMPERATURE SHALL BE AT 185/168°F.								
4. VISSMANN HEATING CURVE SLOPE SHALL BE SET TO 1.8 SUCH THAT THE SUPPLY TEMPERATURE WILL INCREASE TO 194F WHEN THE OUTDOOR AIR TEMPERATURE IS 4F.								
5. THE BOILER AND HEATING HOT WATER PUMP SEQUENCES OF OPERATION SHALL ALTERNATE THE LEAD PUMPS AND LEAD BOILER SO THAT ALL EQUIPMENT WILL HAVE SIMILAR RUN TIMES.								
6. PROVIDE BOILER RATED AND TESTED FOR 80 PSI MAX.								
7. PROVIDE EACH BOILER WITH MANUFACTURER RECOMMENDED POLYPROPYLENE FLUE EXHAUST VENT TERMINATION.								
8. BOILERS SHALL BE PROVIDED WITH THE FOLLOWING:								
• GAS FIRED, CONDENSING FIRE TUBE BOILER								
• DUAL BURNERS								
• TITANIUM STABILIZED SERIES 441 STAINLESS STEEL HEAT EXCHANGER								
• 97% THERMAL EFFICIENCY								
• 98.5% COMBUSTION EFFICIENCY								
• 20:1 TURNDOWN								
• O2 TRIM								
• DIGITAL TOUCHSCREEN								
• OUTDOOR RESET								
• ADJUSTABLE AUTO-RESET HIGH LIMIT								
• FIXED MANUAL RESET HIGH LIMIT								
• LP AND HP GAS SWITCHES								
• CONDENSATE NEUTRALIZATION TANK								
• WALL MOUNTED BUILDING MANAGEMENT SYSTEM BACNET MSTP GATEWAY								
• THE CONDENSATION RATE CONTROLLED BY OPTIMUM COMBUSTION, SHALL BE ABLE TO MEET A CO2 VALUE OF 10% THROUGH THE ENTIRE FIRING RANGE.								
• 4" OF MINERAL WOOL NYLON BACKED INSULATION ON HEATEXCHANGERS								
• BOILERS SHALL BE EQUIPPED WITH 3 RETRACTABLE ON-BOARD CASTERS FOR EASY TRANSPORT AND POSITIONING.								
• HIGH MASS BOILERS WITH 99 GALLON WATER CONTENT								
• BOILER SHALL NOT REQUIRE A FLOW SWITCH								
• CERTIFIED FOR 8" POLYPROPYLENE FLUE								
• 258.8 SQUARE FEET HEAT EXCHANGER SURFACE AREA								

HVAC -- HEATING WATER PUMP SCHEDULE											
DESIGNATION		MANUFACTURER	MODEL	MOTOR HORSEPOWER	FLOW	TOTAL HEAD	MOTOR RPM	VOLTAGE	PHASE	POWER	REMARKS
BP	1										
BP	1	Bell & Gossett	3x3x7C	1	129 GPM	15.0 fH2O	1800	480 V	3	1.75 kVA	BOILER CIRCULATION PUMP
BP	2	Bell & Gossett	3x3x7C	1	129 GPM	15.0 fH2O	1800	480 V	3	1.75 kVA	BOILER CIRCULATION PUMP
BP	3	Bell & Gossett	3x3x7C	1	129 GPM	15.0 fH2O	1800	480 V	3	1.75 kVA	BOILER CIRCULATION PUMP
BP	4	Bell & Gossett	3x3x7C	1	129 GPM	15.0 fH2O	1800	480 V	3	1.75 kVA	BOILER CIRCULATION PUMP
HW	P1	Bell & Gossett	VSC-4x6x10.5B	15	570 GPM	60.0 fH2O	1800	480 V	3	17.55 kVA	BUILDING HW PUMP
HW	P2	Bell & Gossett	VSC-4x6x10.5B	15	570 GPM	60.0 fH2O	1800	480 V	3	17.55 kVA	BUILDING HW PUMP
PUMP SCHEDULE NOTES:											
1. PROVIDE HW PUMP SUCTION DIFFUSER TO MATCH PUMP INLET SIZE. REFER TO PUMP CONTROLS AND DETAIL.											
2. PROVIDE BP SUCTION DIFFUSER EQUAL TO BELL AND GOSSETT MODEL ED-3X, 4" SYSTEM SIZE, 3" PUMP SIZE OR EQUAL.											
3. PROVIDE BOILER CIRCULATOR PUMPS, BP, AS STAINLESS STEEL.											
4. THE BOILER AND HEATING HOT WATER PUMP SEQUENCES OF OPERATION SHALL ALTERNATE THE LEAD PUMPS AND LEAD BOILER SO THAT ALL EQUIPMENT WILL HAVE SIMILAR RUN TIMES.											
5. THE PRIMARY BOILER PUMPS (BP) SHALL BE DEDICATED TO EACH BOILER WITH THE SECONDARY HEATING WATER PUMPS (HWP) HEADERED FOR REDUNDANCY.											
6. PROVIDE NEW PUMPS WITH BRONZE FITTED FEATURE											
7. PROVIDE BUILDING HW PUMPS WITH WALL-MOUNTED VFDs. REFER TO M3.1.											
8. NOTE THAT MOTORS SHALL BE BELL AND GOSSETT OR APPROVED EQUAL WITH NEMA PREMIUM EFFICIENCY MOTOR											

NOTE:

REFER TO PLANS AND DETAILS FOR ADDITIONAL HEATING WATER SYSTEM EQUIPMENT, CONTROLS, AND ACCESSORIES.

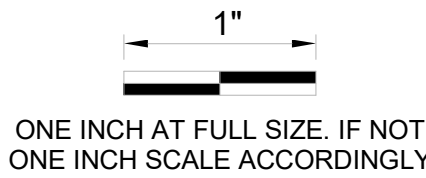


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1	ADD 001	10-18-25

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MECHANICAL
SCHEDULES - HW