

**SECTION 00 91 01
ADDENDUM NUMBER 1**

DATE: **JANUARY 18, 2022**

PROJECT: **OEHS/OHS BOILERS AND CHILLERS
1525 HARVEY ROAD, 4250 ROUTE 71
OSWEGO, ILLINOIS 60543**

PROJECT NO: **21-158-1389**

OWNER: **COMMUNITY UNIT SCHOOL DISTRICT 308
71 STONEHILL ROAD
OSWEGO, ILLINOIS 60543**

TO: **PROSPECTIVE BIDDERS / PLAN HOLDERS OF RECORD**

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated January 6, 2022, with amendments and additions noted below. Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Two (2) pages, Specification Sections 00 01 10 and 00 11 13 , and Drawing M410.

CHANGES TO INTRODUCTORY INFORMATION

1.01 DOCUMENT 00 01 10 - TABLE OF CONTENTS

A. Add "Section 00 91 01 - Addendum Number 1" to the listing.

CHANGES TO BIDDING REQUIREMENTS

2.01 DOCUMENT 00 11 13 - ADVERTISEMENT FOR BIDS

A. Under Article BID OPENING:

1. Delete Subparagraph and replace with the following:
"Sealed bids for all Contracts will be received by the Owner until **1:00 p.m. on Tuesday, January 25, 2022** in a sealed envelope addressed with the name of the Bidder, Owner, name and number of Contract, and the date and time of the Bid. Deliver to the Community Unit School District 308, Building and Grounds, Construction and Receiving, 71 Stonehill Road, Oswego, IL 60543, 630-636-3190. Bids will be publicly opened at that time."

CHANGES TO THE DRAWINGS

3.01 DRAWING M410 - OHS MECHANICAL FLOOR PLANS, SCHEDULES AND DETAILS

- A. Keynote 7.539, Add the following sentence to the end of the Keynote:
 - 1. "The roof is currently under warranty. The original installer for the roof is Lite Construction out of Montgomery, Illinois. 630-896-7220."
- B. Replace existing drawing M410 with the addended drawing M410 attached hereto.

END OF DOCUMENT

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END OF SECTION

SECTION 00 11 13
ADVERTISEMENT FOR BIDS

PROJECT: **OEHS/OHS BOILERS AND CHILLERS**
1525 HARVEY ROAD, 4250 ROUTE 71
OSWEGO, ILLINOIS 60543

OWNER: **COMMUNITY UNIT SCHOOL DISTRICT 308**
71 STONEHILL ROAD
OSWEGO, ILLINOIS 60543

ARCHITECT/ **KLUBER ARCHITECTS + ENGINEERS**
ENGINEER: **41 W. BENTON STREET**
AURORA, ILLINOIS 60506

DESCRIPTION OF THE WORK:

The Owner will receive bids for the construction of Boilers and Chillers. The Work will include: OEHS - Replacement of two steam absorption chillers with two new electric centrifugal chillers. Work includes mechanical, temperature controls and electrical work. Alternate No. 1 will be to replace cooling tower fill and perform mechanical service. OHS - Alternate No. 2 Replace two forced draft, gas fired boilers with two high efficiency condensing boilers. Work includes mechanical, temperature controls and electrical work.

The Owner will be applying for a Utility Energy Rebate. Energy Efficiency Measures associated with this project require installing contractor/s to be certified with Illinois Commerce Commission (ICC) as a Certified Energy Efficiency Measures Installer.

BASIS OF BIDS:

Bids will be a single contract, stipulated sum.

TIME OF COMPLETION:

The Work will commence on Monday, March 7, 2022, and be performed such that the Project will be Substantially Complete as indicated in the Document 00 31 13 - Preliminary Schedule.

BID OPENING:

Sealed bids for all Contracts will be received by the Owner until **1:00 p.m. on Tuesday, January 25, 2022** in a sealed envelope addressed with the name of the Bidder, Owner, name and number of Contract, and the date and time of the Bid. Deliver to the Community Unit School District 308, Building and Grounds, Construction and Receiving, 71 Stonehill Road, Oswego, IL 60543, 630-636-3190. Bids will be publicly opened at that time. **[Addendum # 1]**

EXAMINATION AND PROCUREMENT OF DOCUMENTS:

The Bidding Documents will consist of one full set of Drawings and one Project Manual.

The Bidding Documents may be viewed free of charge online at www.kluberplanroom.com. Click on "Public Jobs", then "View Plans" or "View Specs" to browse through the drawings or specifications. No bid deposit is required to obtain the Bidding Documents. Full sets of plans and specifications in PDF format may be downloaded for a one-time charge of \$9.95. Printed copies of plans and specifications may be obtained for the cost of reproduction as indicated at the www.kluberplanroom.com project website.

The Bidding Documents may be examined at the Architect's office:

Aurora Illinois Office: 41 W. Benton Street, Aurora, IL 60506.

BID SECURITY:

A Bid security in the amount of 10 percent of the total Bid is required.

PRE-BID MEETING:

A pre-bid meeting will be held at Community Unit School District 308, Building and Grounds, Construction and Receiving, 71 Stonehill Road, Oswego, IL 60543, 630-636-3190 at 10:00 a.m. on Wednesday, January 12, 2022. Prospective bidders are requested to attend.

RIGHT TO REJECT BIDS:

The Owner reserves the right to reject any and all bids and to waive any errors, omissions or irregularities in the bids or the bidding procedure when, in the opinion of the Owner, such action will serve its best interests. Any bid which is not accompanied by the required bid security or by any other documents or certifications required by the Bidding Documents, and any bid which is in any way incomplete or irregular, is subject to rejection at the sole discretion of the Owner.

GOVERNING LAWS AND REGULATIONS:

Prevailing wage rates will apply and must be included in the Bid amount.

END OF DOCUMENT

KEYNOTES

KEYNOTES ARE NOT ALWAYS REPEATED ACROSS ALL DRAWINGS ON THIS SHEET. AN UN-KEYNOTED ITEM ON THIS SHEET IS THE SAME AS A KEYNOTED ITEM ON THIS SHEET HAVING THE SAME GRAPHIC APPEARANCE.

7.539 ALTERNATE NO. 2: ROOFING ASSEMBLY: FLASH NEW BOILER VENT INTO EXISTING ROOF SURFACE IN ACCORDANCE WITH EXISTING ROOFING MANUFACTURER'S REQUIREMENTS, SO AS NOT TO VOID EXISTING ROOF WARRANTY, AND IN ACCORDANCE WITH NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) 2015 MEMBRANE ROOF SYSTEMS ROOFING MANUAL CONSTRUCTION DETAIL FPM-147. THE ROOF IS CURRENTLY UNDER WARRANTY. THE ORIGINAL INSTALLATION WAS LITE CONSTRUCTION OUT OF MONTGOMERY, ILLINOIS. 630-896-7220.

9.902 ALTERNATE NO. 2: PAINT NEW GAS PIPING YELLOW COLOR MATCHING EXISTING GAS PIPING PAINT COLOR, TYPICAL.

23.100 ALTERNATE NO. 2: REMOVE BOILER ASSOCIATED HOT WATER SUPPLY/RETURN PIPING AND SPECIALTIES.

23.101 ALTERNATE NO. 2: REMOVE BOILER VENTING FROM BOILER AND UP THROUGH ROOF. PROVIDE TEMPORARY CAP ON ROOF OPENING FOR NEW BOILER VENTING.

23.102 ALTERNATE NO. 2: REMOVE IN-LINE PUMPS AND ALL ASSOCIATED SPECIALTIES.

23.103 ALTERNATE NO. 2: REMOVE SECTION OF SECONDARY HOT WATER PIPING TO ALLOW FOR CLEARANCE/INSTALLATION OF NEW BOILER WITHOUT INTERFERING WITH CONNECTION REQUIREMENTS.

23.104 ALTERNATE NO. 2: REMOVE TEMPERATURE CONTROL COMPONENTS AND ALL ASSOCIATED WIRING THAT IS NOT TO BE REUSED.

23.200 ALTERNATE NO. 2: PROVIDE NEW BOILER AND ALL ASSOCIATED SPECIALTIES.

23.201 ALTERNATE NO. 2: PROVIDE NEW IN-LINE, SENSORLESS, SPLIT COUPLED PUMP HAVING MOTOR MOUNTED VFD. MOUNT PUMP IN VERTICAL HWR PIPE. BALANCE PUMP VFD SETTING TO MAINTAIN SCHEDULED GPM. DO NOT USE TRIPLE DUTY VALVE FOR BALANCING.

23.202 ALTERNATE NO. 2: COORDINATE AND WORK WITH EARTHWISE ENVIRONMENTAL, CHRIS KOEPEL; 630-774-0419, (OWNERS WATER TREATMENT COMPANY) FOR INSTRUCTIONS ON WHICH PIPE TAPS ARE TO BE REMOVED/REMAIN AND WHERE TO LOCATE NEW TAPS (IF REQUIRED) FOR CHEMICAL TREATMENT OF CHILLED WATER AND CONDENSER WATER SYSTEMS, PIPING CLEANING CHEMICALS AND WATER TREATMENT.

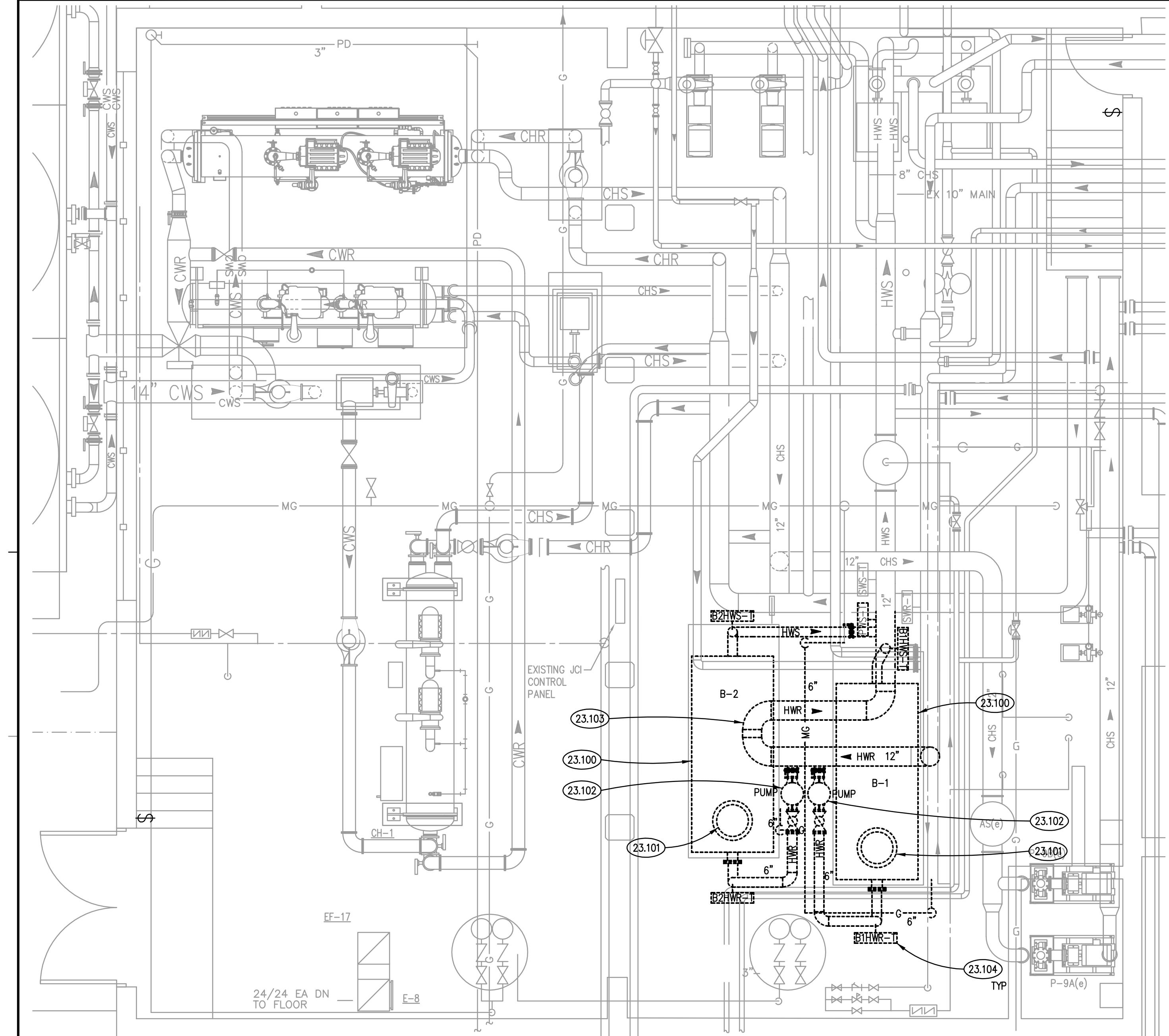
23.203 ALTERNATE NO. 2: PROVIDE MODIFICATIONS TO JCI METASYS BUILDING AUTOMATION SYSTEM. MODIFICATIONS INCLUDE, BUT ARE NOT LIMITED TO: ADDITION OF SENSORS AND ACTUATORS, POINTS AND GRAPHICS, PROVIDE ALL ALGORITHMS AND PROGRAMMING FOR NEW EQUIPMENT TO MEET THE SEQUENCE OF OPERATIONS, SERVING TEMPERATURE CONTRACTORS ARE APPLIED CONTROLS, INC. OR JOHNSON CONTROLS, INC. ALL EQUIPMENT TAGS AND SYSTEM GRAPHICS FOR HEATING WATER SYSTEM SHALL HAVE MATCHING TAGS. MODIFY AS REQUIRED. COORDINATE WITH OWNER.

23.204 ALTERNATE NO. 2: PROVIDE BOILER VENTING UP THROUGH EXISTING ROOF OPEN AND TERMINATED WITH VELOCITY CONE IN ACCORDANCE WITH BOILER MANUFACTURER RECOMMENDATIONS. PATCH ROOF PENETRATION WEATHER-TIGHT.

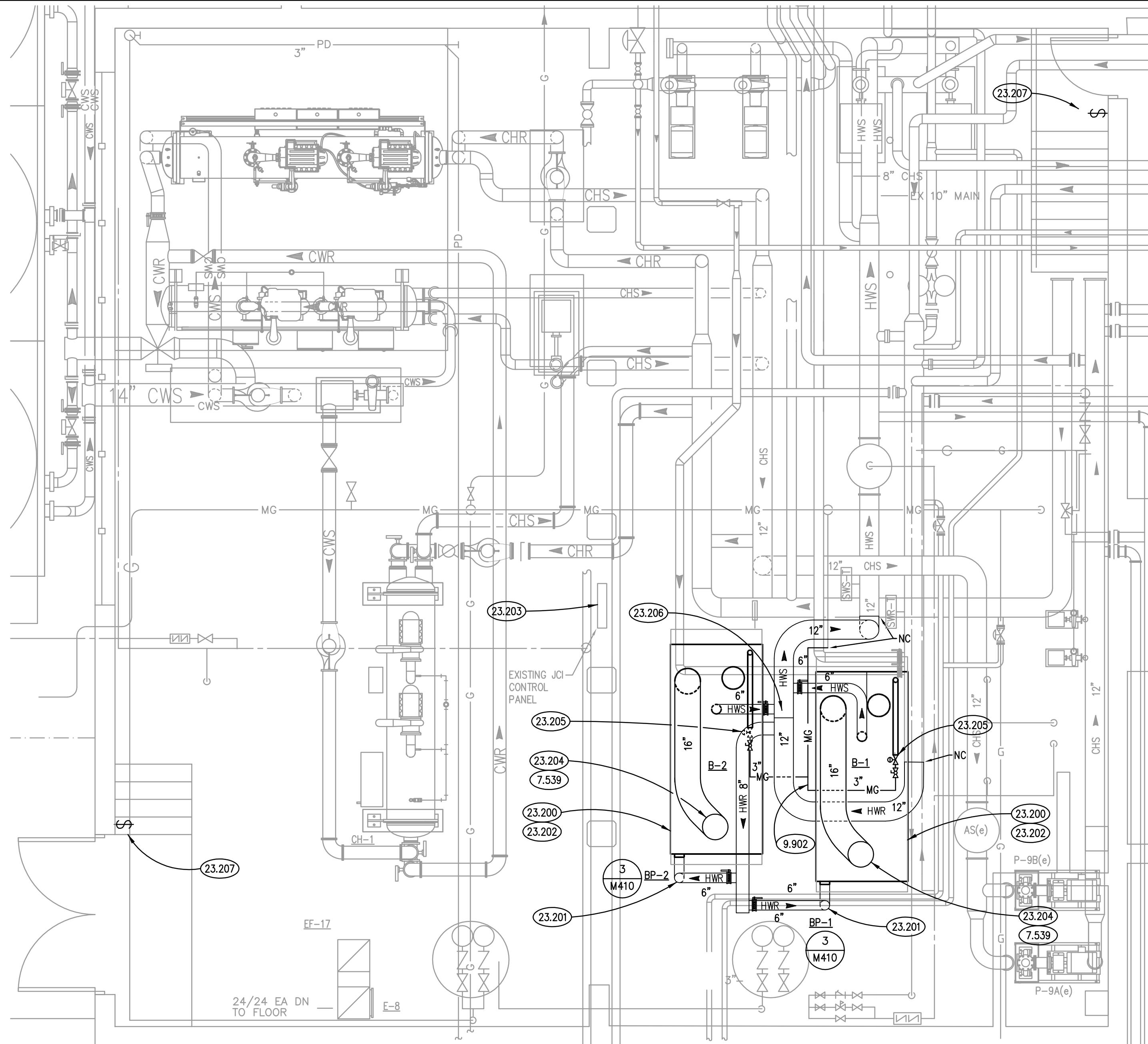
23.205 ALTERNATE NO. 2: PROVIDE SHUT-OFF VALVE AND PRESSURE REGULATOR FOR MEDIUM PRESSURE GAS TO BOILER. PROVIDE PRESSURE REGULATOR AND INSTALLATION IN ACCORDANCE WITH BOILER MANUFACTURER REQUIREMENT.

23.206 ALTERNATE NO. 2: PROVIDE HWR AND HWS CONNECTIONS TO SECONDARY LOOP NO FURTHER THAN 36" APART.

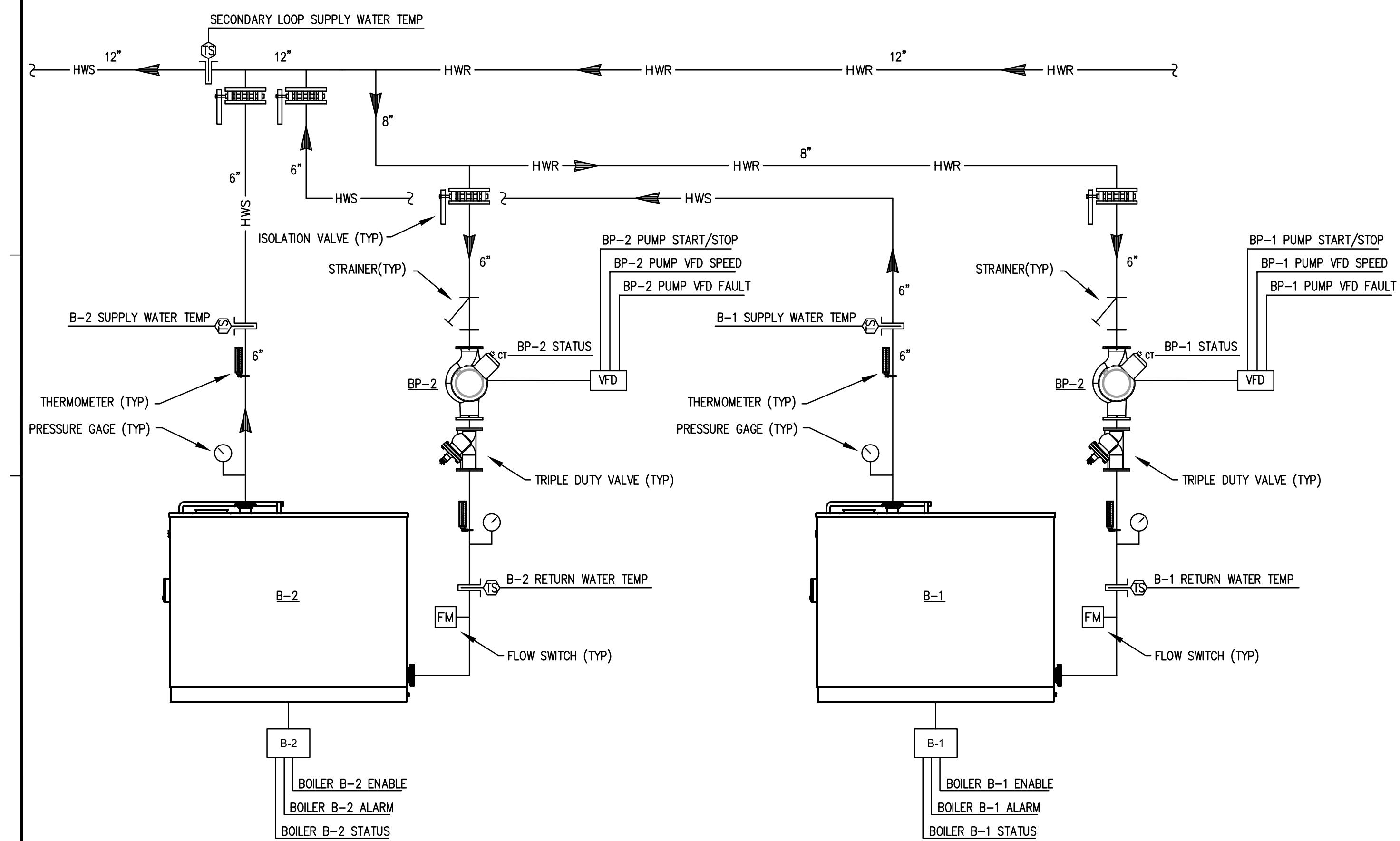
23.207 ALTERNATE NO. 2: PROVIDE CONNECTION BETWEEN BOILERS AND SHUT OFF SWITCHES AT MECHANICAL ROOM ENTRANCES.



MECHANICAL ROOM DEMOLITION PLAN
SCALE: 1/4" = 1'- 0"



MECHANICAL ROOM NEW WORK PLAN
SCALE: 1/4" = 1'- 0"



BOILER TEMPERATURE CONTROL SCHEMATIC
SCALE: NTS

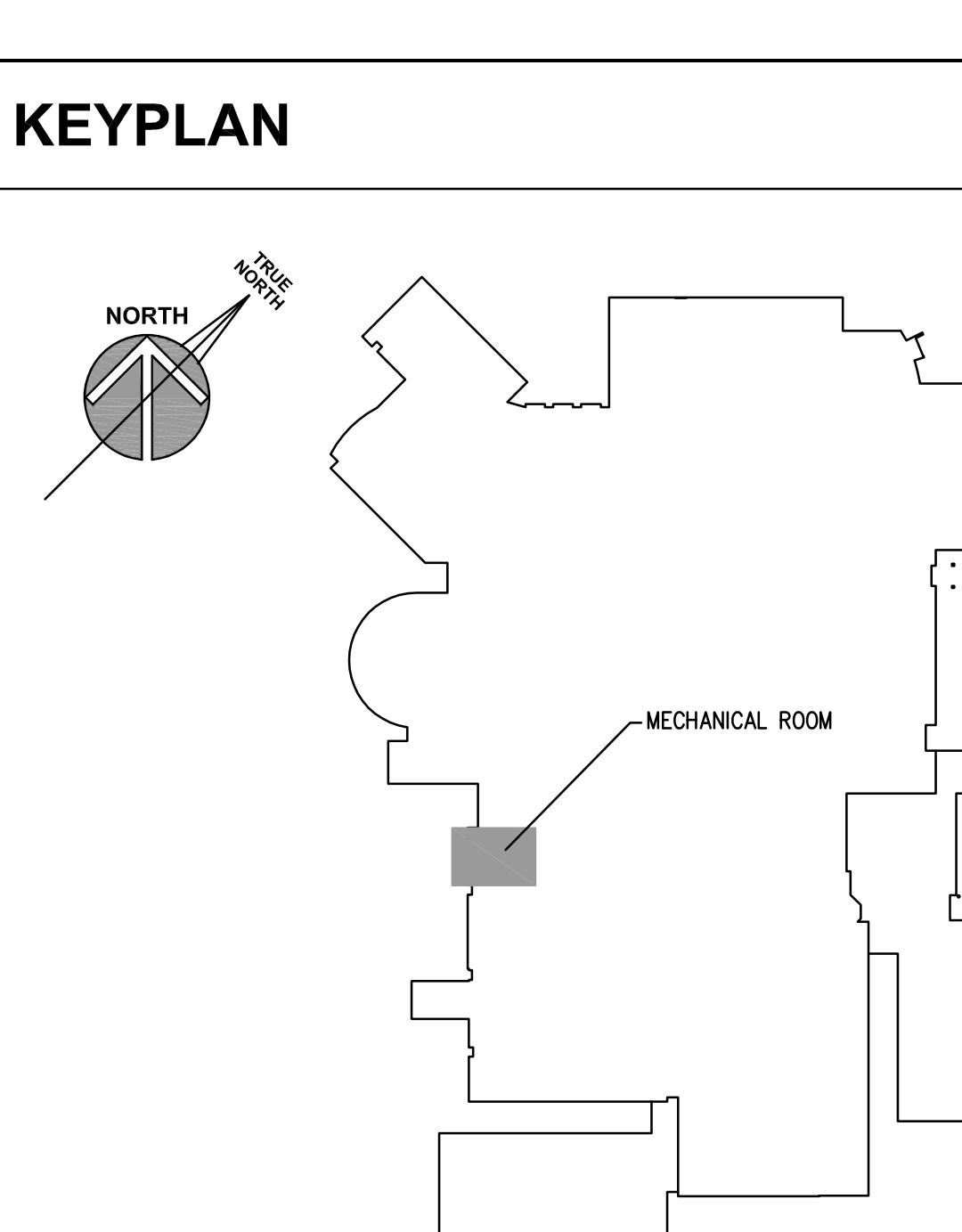
HOT WATER HEATING BOILER SCHEDULE												
MARK	LOCATION	TYPE	BOILER POWER (HP)	FLUID MEDIUM			FUEL	RELIEF VALVE SETTING (PSIG)	ELECTRICAL (V/PH/Hz)	MINIMUM EFFICIENCY	MODEL	NOTES
				FLUID	EWT / LWT (°F)	WATER FLOW (GPM)						
B-1	MECH ROOM	FIRE TUBE	210	WATER	120/148	500	4.6	8000	7040	35	50	460/3/60 94.4 CFCLC 8000 1
B-1	MECH ROOM	FIRE TUBE	210	WATER	120/148	500	4.6	8000	7040	35	50	460/3/60 94.4 CFCLC 8000 1

PUMP SCHEDULE							
MARK	WATER FLOW RATE (GPM)	HEAD (FT)	TYPE	MOTOR POWER (HP)	ELECTRICAL SPEED (V/PH/Hz)	MOTOR SPEED (RPM)	SERVICE
BP-1	500	20	VERT INLINE	5	460/3/60	1115	BOILER 1 4300 0608-005 1, 2
BP-2	500	20	VERT INLINE	5	460/3/60	1115	BOILER 2 4300 0608-005 1, 2

NOTES
1. MODEL BASED ON CLEAVER BROOKS.
2. SENSORLESS VARIABLE SPEED CONTROL.

BOILERS SEQUENCE OF OPERATIONS												
THE BOILERS SHALL BE ENABLED BY THE BAS CONTROL PANEL WHEN THE SYSTEM SWITCHES TO HEATING MODE. ALL SET POINTS SHALL BE ADJUSTABLE.												
THE BOILER CONTROLLER SHALL CONTROL THE OPERATION OF THE TWO BOILERS. THE LEAD BOILER SHALL BE ENABLED WHEN THE OUTSIDE AIR TEMPERATURE IS 60 DEGREES F (ADJ.). THE BOILER AND ASSOCIATED PUMP SHALL BE ENERGIZED. THE BOILER CONTROL PANEL WILL EQUALIZE THE RUN TIME OF THE TWO BOILERS AUTOMATICALLY AT SET INTERVALS.												
THE LEAD BOILER SHALL MODULATE ITS FIRING RATE TO MAINTAIN THE PRIMARY LOOP HEATING WATER TEMPERATURE SET POINT. LOOP SUPPLY WATER TEMPERATURE SHALL BE CONNECTED DIRECTLY TO BOILER CONTROL PANEL. IF THE LEAD BOILER IS NOT ABLE TO MAINTAIN SET POINT THE LAG BOILER SHALL BE ENERGIZED.												
THE SECONDARY LOOP HEATING WATER TEMPERATURE SHALL BE RESET BASED ON OUTDOOR AIR TEMPERATURE. THE WATER TEMPERATURE SHALL BE 160 DEGREES F WHEN THE OUTDOOR AIR TEMPERATURE IS -4 DEGREES F. THE WATER TEMPERATURE SHALL BE 80 DEGREES F WHEN THE OUTDOOR AIR TEMPERATURE IS 60 DEGREES F. TEMPERATURE RESET CURVES AND SET POINTS SHALL BE ADJUSTABLE.												
AN ALARM SHALL BE GENERATED IF THERE IS A BOILER ALARM OR A LOW WATER LEVEL ALARM. BOILERS SHALL BE SHUTDOWN UPON A REFRIGERANT DETECTION ALARM.												
BOILER PUMP (BP-1, BP-2)												
THE BOILER PUMPS SHALL BE ENABLED WHEN THE ASSOCIATED BOILER IS ENABLED. IF THE PUMP FAILS, THE LAG BOILER AND ASSOCIATED PUMP SHALL BE ENERGIZED.												
AN ALARM SHALL BE GENERATED UPON A PUMP FAULT STATUS.												
NOTES 1. SUPPORT PUMP IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS 2. VERTICAL SPLIT COUPLED PUMP SHALL BE ABLE TO BE INSTALLED IN HORIZONTAL POSITION.												

VERTICAL IN-LINE PUMP DETAIL												
SCALE: NTS												



ISSUED	01/06/22	BID DOCUMENT ONE
JOB NO.	21-158-1389	DRAWN DDW
CHECKED		DDW
APPROVED		DDW
SHEET TITLE	OHS MECHANICAL FLOOR PLANS, SCHEDULES AND DETAILS	
SHEET NUMBER	M410	