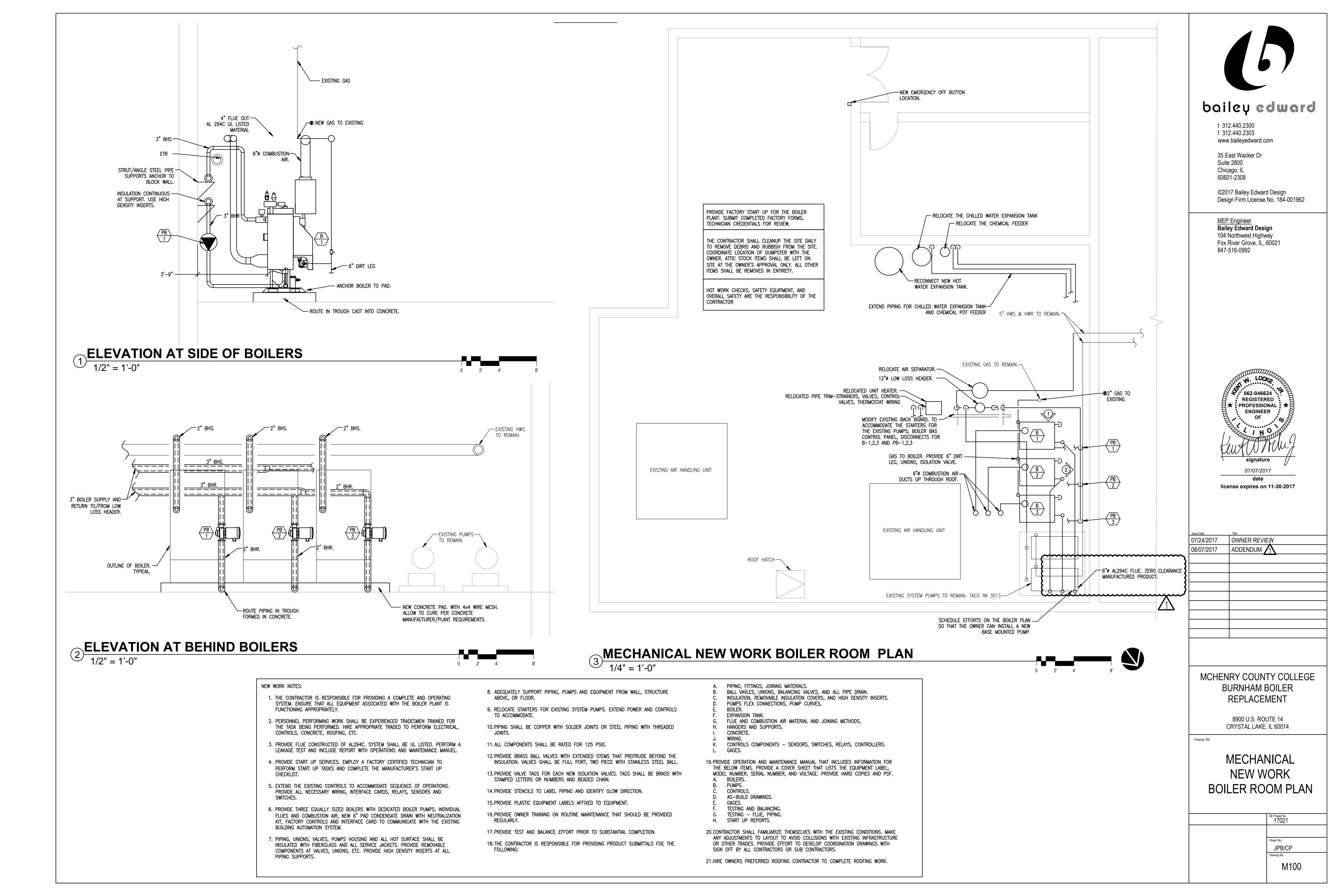
#### Addendum #1 to IFB #081662017 Burnham Boiler Replacement McHenry County College

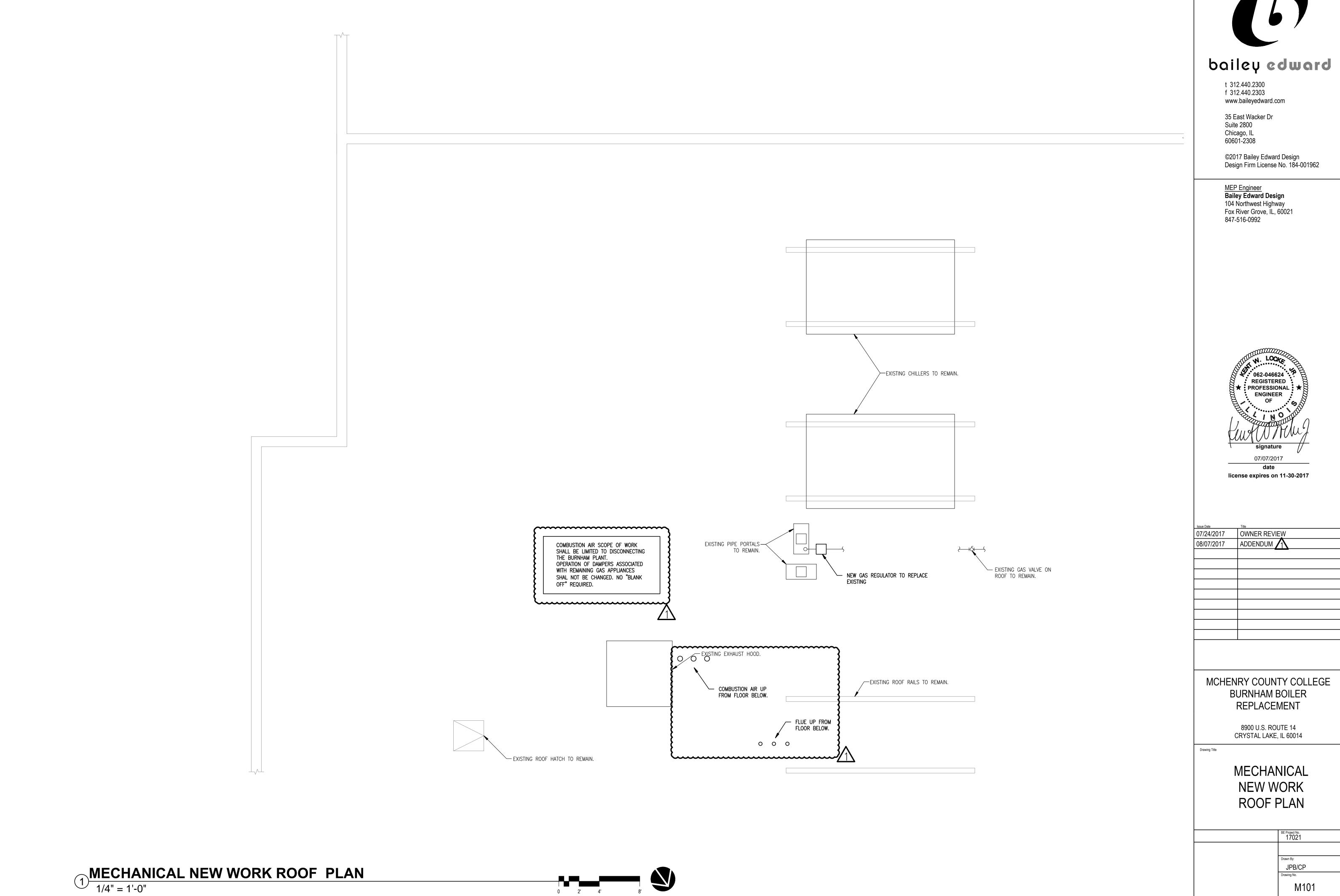
This Addendum is in response to the inquiries from potential bidders. This Addendum constitutes changes to the specifications as sent out in the original IFB and other pertinent information shared with all vendors. All changes and information listed on this Addendum should be considered as the official modifications to the specifications and should be included in your proposal with these in mind.

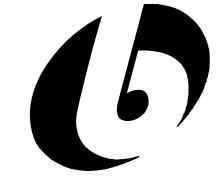
Please acknowledge your receipt of this addendum by attaching a signed copy of the addendum with your proposal response.

Received and acknowledged by:	
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- 1. Is there a Mandatory pre bid walk thru for the above mentioned job? No
- 2. Will a bid bond be required? No
- 3. Page 8, instructions to bidders, makes reference to providing a bid for Snow Plowing and Removal Services. References to "Snow Plowing" should be "Burnham Boiler".
- 4. I'm wanting to follow up on the project mentioned and was wondering if there were any union requirements. Must pay prevailing wages as listed in the bid documents.
- 5. Is there an estimated project value available? No
- 6. I am requesting additional information to 5.0 Bid Specifications for the replacement of the three Burnham boilers in Building B.
  - a. What replacement brand of boiler is required, what model, and what size? Print set shows schedules that list brands, sizes, and requirements on page 10. KN600 is base bid as noted on revised plan.
  - b. Are the new boilers to utilize combustion air directly into each boiler? Yes.
  - c. Who is the Trane contact for the BAS system that is installed? Pat Heneberry at Trane: 630-930-2551
  - d. Who is the current chemical water treatment company/contractor? HOH Water Technology out of Palatine, Alex is our tech.
  - e. Are the existing combustion air opening(s) to be "blanked-off" to accommodate the new "high efficiency" boilers? No, because we still need combustion air for other boilers in the area. (See item f below.) Now noted on revised plan.
  - f. Are there any other gas fired appliances in the same room as the boilers that will utilize the combustion air? If so, what are the BTU input of each appliance? No. The new boilers are to each have a dedicated combustion air intake from the roof for each new boiler. See item #6 on page 7 of the print set. Noted on revised plan. (There are 4 other boilers in the room, but they are a different system entirely and utilize combustion air from existing combustion air dampers.)
  - g. Is insulation on the new piping required? Yes, per item #7 on page 7 of the print set.
  - h. It is indicated by the 8<sup>th</sup> bulleted item that flow reports shall be submitted prior to acceptance of the project? Who's responsibility will it be to pay for and submit these reports prior to an acceptance of the project? It should be included in the job since it is listed on the engineer's prints. Item #1 on page 6 of the print set shows the flow and water quality testing the contractor shall perform prior to demolition, along with providing a detailed report. It is part of the contractor's scope of work. It should be arranged by the contractor, so it should be included in the contractor's pricing. Flow reports of the completed work will also be the responsibility of the contractor. Also now noted on revision pages attached.







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1ssue Date	Title OMMED DEVIEW
07/24/2017	OWNER REVIEW
08/07/2017	ADDENDUM 1

## MCHENRY COUNTY COLLEGE **BURNHAM BOILER** REPLACEMENT

MECHANICAL **NEW WORK ROOF PLAN** 

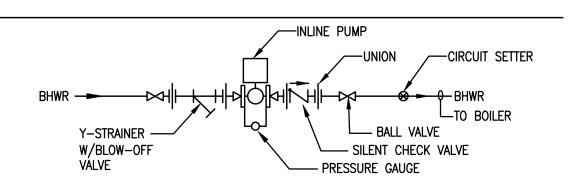
BE Project No. 17021 JPB/CP

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		GAS FIRED HOT WATER BOILER SCHEDULE $\stackrel{\mathbb{B}}{\longleftrightarrow}$																
Ī	TAG NO.	LOCATION/ SERVICE	BOILER TYPE	INCOMIN GAS	PIPE SIZE	GAS	NATURAL GAS	IBR OUTPUT	MIN OUTPUT	FLOW RATE	E.W.T.	L.W.T.	TEMP RISE	MAX. WATER	MAX. WORKING			REMARKS: - ADVANCED THERMAL HYDRONICS
	NO.	SERVICE	1111 6	PRESS. INCH. W.G.	GAS CONN. IN.	VALVE TRAIN	INPUT (MBH)	(MBH)	(MBH)	(GPM)	'	'	∆⊺ *F	PRESS. DROP FEET	PRESS.	MAIN POWER FEED	FLA	IS BASIS OF DESIGN  LOCHINVAR CAMUS ARE EQUAL
	1	MECH ROOM/ REHEAT	WATER	6"	1"	DUNGS	600	480	160	40	155.5	180	24.5	1.25	14	120V	5.2	KN600
	2	MECH ROOM/ REHEAT	WATER	6"	1"	DUNGS	600	480	160	40	155.5	180	24.5	1.25	14	120V	5.2	KN600
	3	MECH ROOM/ REHEAT	WATER	6"	1"	DUNGS	600	480	160	40	155.5	180	24.5	1.25	14	120V	5.2	KN600

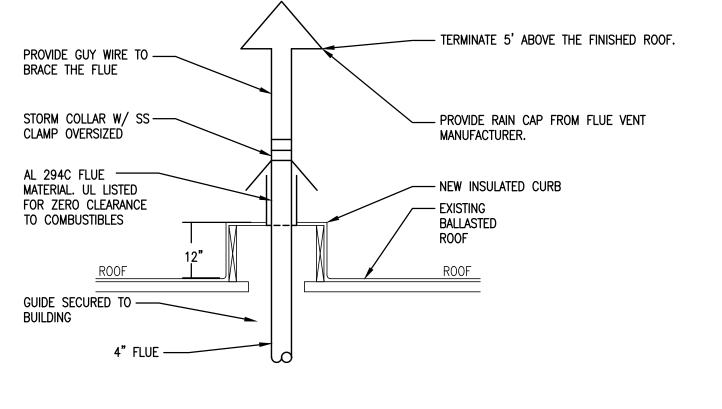
NEW SEALED COMBUSTION CAST IRON BOILERS SUITABLE FOR OPERATION WITH RETURN WATER TEMPERATURE BELOW 120°F. BOILER CONTROL - START.STOP, FIRING RATE, ETC SHALL BE FACTORY PROVIDED. FRONT END CONTROL SHALL ENABLE/DISABLE HEATING, OVERRIDE, DISCHARGE SETPOINT. BOILER SHALL BE CAPABLE OF 5:1 TURNDOWN RATIO. ALTERNATIVE CAMUS OR LOCHINVAR BOILERS SHALL HAVE HEAT EXCHANGERS CONSTRUCTED ENTIRELY OF STAINLESS STEEL.

	3									PUM	P SCHEE	DULE				
		TAG SERVICE/ CAP PUMP TOTAL W			WORKING	LIQUID	PUMP		МС	OTOR		VIBRATION ISOLATION	REMARKS	 ⟨S		
cs	S <b>{</b>	NO.	LOCATION		TYPE	HEAD W.C.	PRESS	TEMP.			V/PH/C	HP	RPM	TYPE		
L	Ź			GPM		FT	MAX. PSIG.	<b>•</b> F	ВНР	RPM						
	<b>\</b>	EX1	_	480	BASE MOUNT	155	175	250	24	1750	480/3	25	1750	INERTIA	TACO 3013	1
	3	EX2	-	480	BASE MOUNT	155	175	250	24	1750	480/3	25	1750	INERTIA	TACO 3013	1
	)	B1	-	40	INLINE	15	125	250	0.24	1750	120/1	0.5	1750	INERTIA	B&G E90 1.25AAB	2
	\ <b>\</b>	B2	-	40	INLINE	15	125	250	0.24	1750	120/1	0.5	1750	INERTIA	B&G E90 1.25AAB	2
	3	В3	_	40	INLINE	15	125	250	0.24	1750	120/1	0.5	1750	INERTIA	B&G E90 1.25AAB	2
	<b>(</b>		·								·				·	

- (1) EXISTING BASE MOUNTED PUMP ON INERTIA BASE.
- (2) NEW BOILER PUMPS. OPERATION SHALL BE MANAGED BY MANUFACTURERS BOILER CONTROL.



### INLINE MOUNTED PUMP INSTALLATION NO SCALE



# ROOF PENETRATION DETAIL

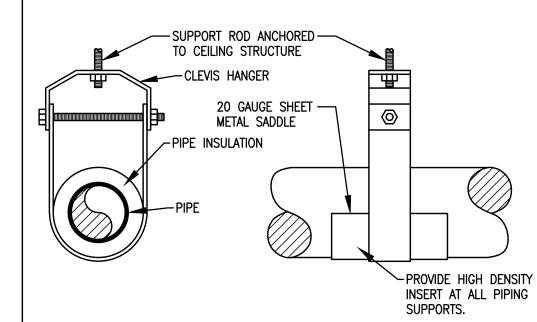
NO SCALE PVC FITTING COVER SECURED BY TACK FASTENING, BANDING OR TAPING THE ENDS TO ADJACENT PIPE INSULATION. -INSULATION FACTORY PRECUT, TUCKED INTO THROAT OF FITTING AND EDGES ADJACENT TO PIPE INSULATION TUCKED IN.

## PIPE ELBOW INSULATION DETAIL

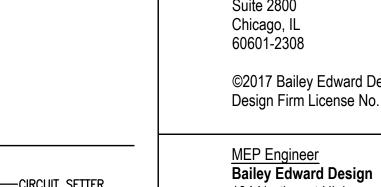
1. TEE AND VALVE INSULATION & COVERS SIMILAR, USING INSULATION FACTORY PRECUT TO SHAPE. PROVIDE TURNS OF FIBERGLASS YARN AS REQUIRED FOR TEE OR VALVE INSULATION INSERTS TO PRVENT VOIDS OR HOT SPOTS.

2. FOR MECHANICAL GROOVE TYPE PIPE AND FITTINGS, INSULATE TO THICKNESS SPECIFIED AND APPLY PVC PREFORMED COVERS IN MANNER DESCRIBED FOR ELBOWS.

3. SIMILARLY, PROVIDE INSULATION AND PVC COVERS FOR REDUCERS, P-TRAPS, Y-BRANCHES, LINE FLANGES, BUTTERFLY VALVES, GATE VALVES, BALL VALVES, CHECK VALVES, CONTROL VALVES, STRAINERS, BALANCING COCKS, AND BALANCING DEVICES.



TYPICAL PIPE HANGER DETAIL





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OWNER REVIEW 07/24/2017 ADDENDUM 1 08/07/2017

MCHENRY COUNTY COLLEGE **BURNHAM BOILER** REPLACEMENT

> 8900 U.S. ROUTE 14 CRYSTAL LAKE, IL 60014

MECHANICAL SCHEDULES AND PIPING DIAGRAM

> BE Project No. 17021 JPB/CP

