



Date: June 19, 2017

To: Prospective Bidders

Project Name: Wolverine Community Schools Middle-High School Boiler Replacement Project

JLK Project Number: WCS 1701

Prepared by: Justin Kowatch, PE

Addendum Number: #2 – Clarifications & Changes

ADDENDUM

This Addendum is being issued for the purpose of modifying and/or clarifying the original Bidding Documents and shall take precedence over them.

Each Bidder's proposal shall include the work described herein. All requirements contained in the Contract Documents shall apply to this Addendum. All incidental work necessary to complete the Work shall be included in the Contractor's quotation even though not particularly mentioned.

Parts of the Specifications and Drawings referred to herein supersede previously issued data and form a part of this Addendum.

Supplemental Documents Issued with this Addendum:

Drawing M3 – Revised gas piping.

Drawing M5 – Revised gas piping.

ADDENDUM ITEMS

1. Refer to the attached Pre-Bid Meeting Sign-In sheet.
2. Questions shall be directed to the project Engineer, Justin Kowatch at JLK Engineering (jkowatch@jlkengineering.com). Note that the bid due date is June 29th, 2017 at 3pm. If a bidder would like a question answered in writing please provide the question prior to Friday, June 23rd at 3pm. If any questions require clarification by Addendum the next Addendum will be issued by Tuesday, June 27.
3. The Owner and Engineer are interested in cost saving measures and are open to voluntary alternates that bring cost saving value to the project. Should a bidder have voluntary alternates they wish to provide then please hand write them somewhere on the bid form with brief description and cost of the voluntary alternate items.

PLUMBING ADDENDUM ITEMS

P1. Refer to drawings M3 and M5, both of which are revised and reissued with this addendum. Note the changes to the gas piping work for the new boilers, reuse existing 1-1/4" drops to existing boilers.

MECHANICAL ADDENDUM ITEMS

M1. Refer to specification section 230719-HVAC PIPING INSULATION, which is not reissued with this Addendum. Remove PVC jacketing from the scope of work. Remove section 230719.2.04, and section 230719.3.02.G.

M2. Refer to specification section 230719-HVAC PIPING INSULATION, which is not reissued with this Addendum. Revise Insulation Thickness Schedule 230719.3.03 as follows: Use 1 inch thick fiberglass insulation on pipes up to 4 inch diameter; Use 1-1/2 inch thick fiberglass insulation on pipes over 4 inch diameter.

M3. Refer to specification section 232113 - HVAC PIPING, which is not reissued with this Addendum. Refer to section 232113.2.02.B and note that ASTM B88, Type L (B) will be allowed for HWHS/R piping.

ELECTRICAL ADDENDUM ITEMS

NONE

End of Addendum #2

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Project Name: WCS - Boiler ReplacementJLK Project # WCS1701

Name: Justin Kowatu Company Name: JLK Engineering
Address: 5766 Catawaba
E-Mail: j.kowatu@jlkengineering.com
Work Phone: 989-448-4631 Cell Phone: 989-614-4225

Name: Stephen Seelye Company Name: Wolverine Community Schools
Address: 13131 Brook St. Wolverine MI 49799
E-Mail: sseelye@wolverineschools.org
Work Phone: 231.525.8201 ext. 103 Cell Phone: 231.330.0031

Name: Paul Eckert Company Name: Quality P&M Inc
Address: 3564 Alba Rd Gaylord MI 49735
E-Mail: plumbereckert@yahoo.com
Work Phone: 989-732-5700 Cell Phone: _____

Name: Steve Beardslee Company Name: Beardslee P.H.
Address: 1052 Genmar t. Roscommon
E-Mail: Beardslee.ph@gmail.com
Work Phone: ~~989-275~~ 989-275-5110 Cell Phone: _____

Name: J.P. Heating of Northern Mich Company Name: Mike Carnes
Address: 1830 Dickerson rd Gaylord MI 49735
E-Mail: mcarnes@jpheating.com
Work Phone: 989-732-7571 Cell Phone: 989-390-4135

Name: Ken GOODHUR Company Name: ABE Mech.
Address: 1287 M-37 South T.C. 49685
E-Mail: Ken@ABEMECHANICAL.COM
Work Phone: 231.943.4114 Cell Phone: 231.838.8033

Project Name: WCS-Boiler ReplacementJLK Project # WCS 1701

Name: Tim Coen Company Name: John E. Green Co
Address: 601 Porter St. Petoskey MI 49770
E-Mail: TimCoen@JohnEGreen.com
Work Phone: 231-348-2875 Cell Phone: 231-280-6515

Name: ED Crawford Company Name: ERC Insulation
Address: _____
E-Mail: _____
Work Phone: 231 238 8535 Cell Phone: _____

Name: AL Towne Company Name: BAIRD'S P+H
Address: 2111 E. Mitchell RD
E-Mail: ATowne@BAIRDS-PH.COM
Work Phone: 231-753-2110 Cell Phone: 231-838-0035

Name: MARK KATZ Company Name: RIEMER
Address: _____
E-Mail: M KATZ RIEMER PLUMBING + HEATING
Work Phone: 989 792-8738 Cell Phone: _____

Name: Roger Dunstan Company Name: HAGGARDS
Address: _____
E-Mail: r-dunstan@yahoo.com
Work Phone: (231) 547-4046 Cell Phone: (989) 858-6806

Name: Joe A. Hart Company Name: Wolverine Schools
Address: PO Box 219 Wolverine MI 49799
E-Mail: _____
Work Phone: 231-525-8201 Cell Phone: _____



JLK ENGINEERING

Date: 6/13/2017

Project Name: WCS-Boiler Replacement JLK Project # WCS 1701

Name: Brian Carman Company Name: Michigan Meen North
Address: bscarman67@gmail.com
E-Mail: _____
Work Phone: 231-274-0090 Cell Phone: 231-590-5257

Name: _____ Company Name: _____
Address: _____
E-Mail: _____
Work Phone: _____ Cell Phone: _____

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E-Mail: _____
Work Phone: _____ Cell Phone: _____

Name: _____ Company Name: _____
Address: _____
E-Mail: _____
Work Phone: _____ Cell Phone: _____

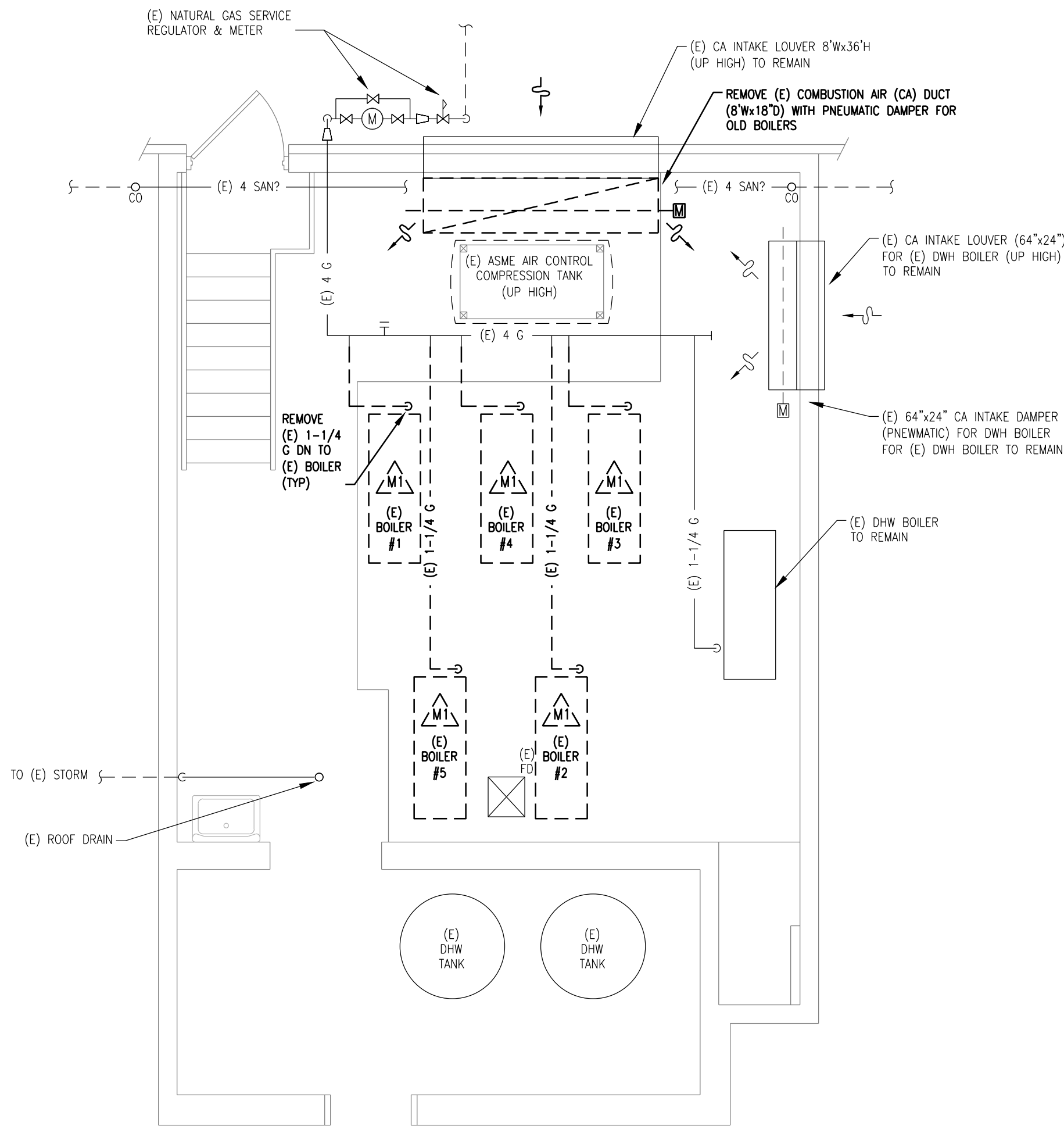
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Address: _____
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DATE	ISSUED FOR	DATE	ISSUED FOR	JOB NO.	SHEET
6/9/2017	BIDDING & PLAN REVIEW	6/19/2017	ADDENDUM #2	WCS 1701-01	M3

KEYED MECHANICAL & PLUMBING DEMOLITION NOTES:

- (M) REMOVE (E) BOILERS AND PREPARE EXISTING PIPING, UTILITIES, VENTING, ETC. FOR NEW BOILERS.



PLUMBING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

GENERAL PLUMBING DEMOLITION NOTES:

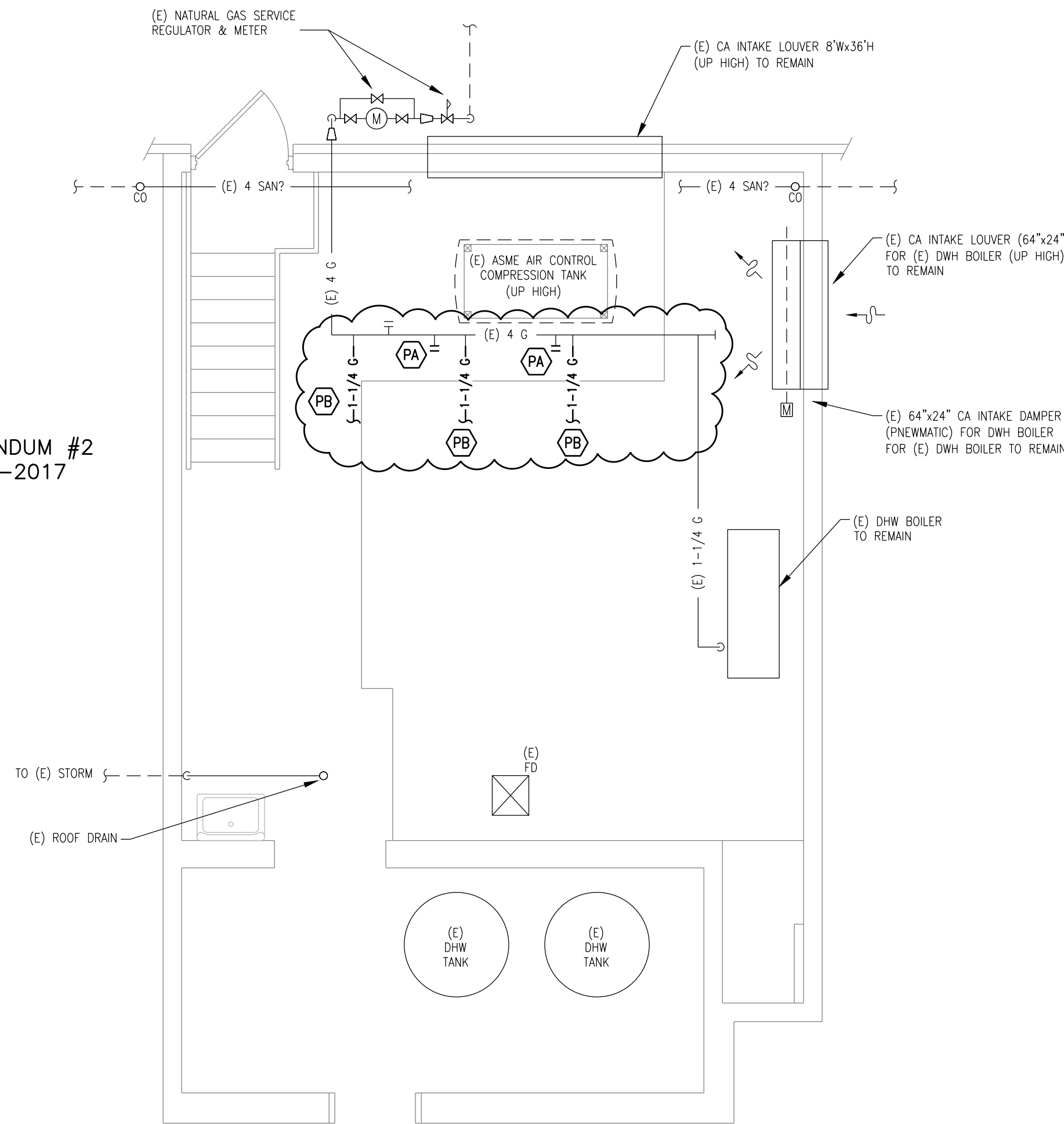
- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE EXTENT OF DEMOLITION WORK SHALL BE AS REQUIRED BY THE NEW WORK.
- THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING SYSTEMS/EQUIPMENT PRIOR TO ISSUING HIS BID. (I.E. ALL EXISTING PIPE SIZES AND ROUTINGS/LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR).
- ALL PLUMBING ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE WITH ALL RELATED ITEMS INCLUDING, BUT NOT LIMITED TO, HANGERS, SUPPORTS, CONTROLS, ETC. REMOVED ITEMS SHALL BE LEGALLY DISPOSED OF OFF SITE. CAP ALL OPEN ENDED PIPING AND DUCTWORK.
- ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED, BY THE OWNER OR OWNER'S REPRESENTATIVE, AT LEAST (7) DAYS IN ADVANCE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING OPERATION.
- WHERE DEMOLITION OF EXISTING SERVICES ARE REQUIRED TO ACCOMMODATE THE PROJECT PHASING/SCHEDULING, AND SERVICES ARE TO BE INTERRUPTED IN AREAS THAT ARE REMAINING OCCUPIED, THE CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES AND/OR CONNECTIONS TO THE OCCUPIED AREAS TO MAINTAIN ITS PRESENT OPERATION. IF SYSTEM SHUT DOWNS ARE REQUIRED, THE CONTRACTOR SHALL SCHEDULE WORK TO BE PERFORMED AT UNOCCUPIED HOURS.
- ALL ITEMS TO BE REMOVED AND/OR RELOCATED SHALL BE REMOVED AND/OR RELOCATED TOGETHER WITH ALL RELATED ITEMS AS REQUIRED BY THE NEW WORK TO BE PERFORMED.
- CONTRACTOR SHALL COORDINATE ALL REMOVAL AND/OR RELOCATION WITH THE EXTENT OF THE NEW WORK AND WITH ALL OTHER TRADES INVOLVED.
- UNLESS NOTED OTHERWISE, EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, CORING, PATCHING ASSOCIATED WITH THEIR WORK. CUTTING, CORING, PATCHING WORK SHALL BE PERFORMED BY A QUALIFIED SUB-CONTRACTOR AND MATCH EXISTING OR NEW FINISHES.

KEYED MECHANICAL & PLUMBING CONSTRUCTION NOTES:

- (MA) NEW BOILERS - SEE PIPING DIAGRAM, DETAILS, AND SCHEDULES. COORDINATE EXACT LOCATION OF NEW BOILERS WITH EXISTING CONDITIONS FOR PROPER CLEARANCES NEEDED, DRAINAGE OF NEW CONDENSATE FROM BOILERS TO EXISTING FLOOR SINK/DRAIN, ETC.
- (MB) NEW PIPING TO/FROM NEW BOILERS - SEE PIPING DIAGRAM FOR DETAILS.
- (MC) REMOVE EXISTING EXISTING HEATING BOILERS VENTING AND CAP OFF AIR-TIGHT AT EXISTING DOMESTIC HOT WATER HEATING BOILER VENTING AS REQUIRED FOR EXISTING WATER HEATING BOILER TO REMAIN IN SERVICE AS-IS.
- (MD) REVISE EXISTING HEATING BOILERS AND EXISTING DOMESTIC HOT WATER BOILER COMBUSTION AIR INTAKE CONTROLS AS REQUIRED FOR EXISTING DOMESTIC HOT WATER HEATING BOILER TO REMAIN IN SERVICE AS-IS.
- (ME) CAP OFF EXISTING/OLD HEATING BOILERS COMBUSTION AIR (CA) INTAKE LOUVER

- (PA) CAP OFF EXISTING/OLD NATURAL GAS DROPS TO OLD/REMOVED BOILERS, TYPICAL 2X.
- (PB) PROVIDE NEW 1-1/4" NATURAL GAS PIPING DROPS TO NEW BOILERS. REDUCE TO 1" NEAR BOILER AND INSTALL DIRT LEG, ISO. VALVE, AND UNION NEAR THE BOILER. REFER TO BOILER PIPING DIAGRAM.

ADDENDUM #2
6-19-2017



PLUMBING NEW WORK PLAN

SCALE: 1/4" = 1'-0"

GENERAL PLUMBING NOTES:

- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL SCOPE OF WORK. CONTRACTOR SHALL PROVIDE PLUMBING SYSTEMS AND RELATED EQUIPMENT COMPLETE AND INCLUDE ALL NECESSARY OFFSETS, FITTINGS, AND OTHER COMPONENTS REQUIRED DUE TO INTERFERENCES, SPACE CONSTRAINTS, ETC.
- PLUMBING SYSTEMS SHALL BE INSTALLED PER MICHIGAN PLUMBING CODE, INTERNATIONAL FUEL GAS CODE, MICHIGAN MECHANICAL CODE, AND APPLICABLE BUILDING CODES (I.E. MICHIGAN BUILDING CODES, NFPA CODES, ETC.).
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES. CONTRACTOR SHALL VERIFY ALL MECHANICAL AND ELECTRICAL CLEARANCES PRIOR TO FABRICATION OF ANY NEW WORK. PIPING SHALL NOT BE LOCATED DIRECTLY OVER ELECTRICAL EQUIPMENT AND PANELS, OR INTERFERE WITH ELECTRICAL/MECHANICAL EQUIPMENT CLEARANCE SPACES.
- ALL FIXTURES / EQUIPMENT SHALL BE PROVIDED WITH ISOLATION VALVES. ALL VALVES SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS.

MECHANICAL ALTERNATE BID ITEMS:

ALTERNATE ADD #M1:
STATE THE COST OF MATERIALS & LABOR REQUIRED FOR ADDING REPLACEMENT OF THE EXISTING AIR SEPERATOR (A/S) TO THE SCOPE OF THE PROJECT.

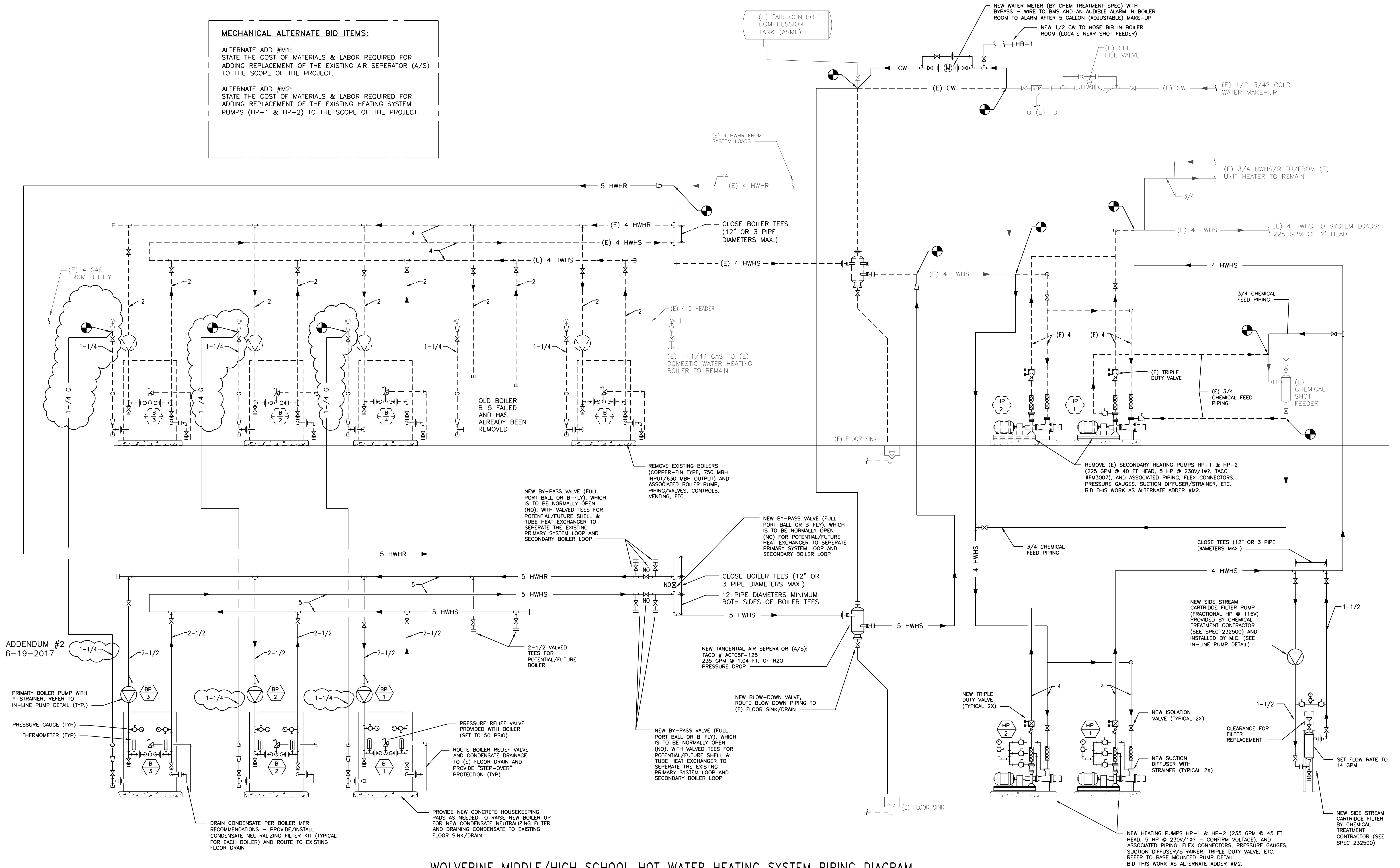
ALTERNATE ADD #M2:
STATE THE COST OF MATERIALS & LABOR REQUIRED FOR ADDING REPLACEMENT OF THE EXISTING HEATING SYSTEM PUMPS (HP-1 & HP-2) TO THE SCOPE OF THE PROJECT.

6/19/2017 - FOR ADDENDUM #2

MECHANICAL ALTERNATE BID ITEMS:

ALTERNATE ADD #M1:
STATE THE COST OF MATERIALS & LABOR REQUIRED FOR
ADDING REPLACEMENT OF THE EXISTING AIR SEPERATOR (A/S)
TO THE SCOPE OF THE PROJECT.

ALTERNATE ADD #M2:
STATE THE COST OF MATERIALS & LABOR REQUIRED FOR
ADDING REPLACEMENT OF THE EXISTING HEATING SYSTEM
PUMPS (HP-1 & HP-2) TO THE SCOPE OF THE PROJECT.



WOLVERINE MIDDLE/HIGH SCHOOL HOT WATER HEATING SYSTEM PIPING DIAGRAM

GENERAL NOTES:

1. ALL BRANCH PIPING CONNECTIONS TO MAINS SHALL BE FROM SIDE OR BOTTOM OF PIPE.
2. ALL PIPING (BOTH NEW PIPING & ANY EXISTING PIPING THAT IS MISSING INSULATION) SHALL BE INSULATED WITH NEW INSULATION (AND PVC JACKETING UP TO 10' AFF) PER SPEC.
3. EXISTING HYDRONIC HEATING SYSTEM VOLUME IS UN-KNOWN. ASSUME 6,000 GALLON SYSTEM CAPACITY FOR BIDDING PURPOSES. PROVIDE UNIT COST (\$/GALLON) FOR ADDITIONAL CHEMICAL TREATMENT CHEMICALS FOR PRICING IF ACTUAL VOLUME IS GREATER THAN 6,000 GALLONS.

6/19/2017 - FOR ADDENDUM #2