



Addendum No.: 5

Date Of Addendum: 7/12/2019

CT DAS | Construction Services | Office of Legal Affairs, Policy, and Procurement

Energy Upgrades  
Greater Bridgeport Community Mental Health Center  
1635 Central Avenue  
Bridgeport, CT  
BI – MH – 111

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Original Bid Due Date / Time: July 10, 2019 1:00 pm

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Revised Bid Due Date / Time: July 24, 2019 1:00 pm

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Previous Addendums: Addendum #4 dated 7/1/2019, Addendum #3 dated 6/25/2019, Addendum #2 dated 6/18/2019, Addendum #1 dated 6/14/2019

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**TO: Prospective Bid Proposers:**

This Addendum forms part of the "Contract Documents" and modifies or clarifies the original "Contract Documents" for this Project dated May 1<sup>st</sup>, 2019. Prospective Bid Proposers **shall** acknowledge receipt of the total number the Addenda issued for this Project on the space provided on Section 00 41 00 Bid Proposal Form.

**Failure to acknowledge receipt of the total number the Addenda issued for this Project on the space provided on Section 00 41 00 Bid Proposal Form shall subject Bid Proposers to disqualification.**

The following clarifications are applicable to drawings and specifications for the project referenced above.

**Item 1:**

Question: Please advise if there are noise work restrictions, specifically when contractors are coring floors or walls?

Response: Noise work shall be restricted to the hours between 7am and 7pm.

**Item 2:**

Question: It was difficult to ascertain the damper dimensions from the walk throughs, for bidding purposes what size dampers should we figure for each / all of the mechanical rooms?

Response: Dampers to be replaced are sized as follows. Verify all measurements in the field (units in inches):

AC Unit	Return Air Damper	Exhaust Air Damper	Outdoor Air Damper
AH-1	50x25	50x20	-
AC-2	50x25	-	18x36
AC-3	30x36	30x36	30x50
AC-4	30x36	30x36	30x50
AC-5	28x12	28x16	30x50
AC-6	26x24	26x24	30x50
AC-7	26x24	26x24	30x50
AC-8	26x24	26x24	30x50
AC-9	26x24	26x24	30x50
AC-10	32x36	36x36	30x50

**Item 3:**

Question: Per the addendum #3, the gas line is re-routed through storage rooms, in lieu of the hallway. Please confirm all of these rooms will be cleaned out by the owner for the contractor to complete the work required?

Response: With the exception of the store room, the rooms that will house the new gas line will be cleaned ahead of gas line installation work. The store room contents will be maneuvered by the agency to allow installation.



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**Item 4:**

Question: Please provide a detail for the ceiling construction for the gas line install?

Response: Ceilings with ceilings are acoustic tile. The room is open clear to deck.

**Item 5:**

Question: When we remove the ceilings, for the gas line install, all ceilings are shown to contain hazardous materials per the report at the end of the specification. When we cross the hallway, are we required to install temp partitions for the abatement work, or will poly suffice?

Response: All hazardous materials impacted by the scope of this project will be removed prior to the start of construction.

**Item 6:**

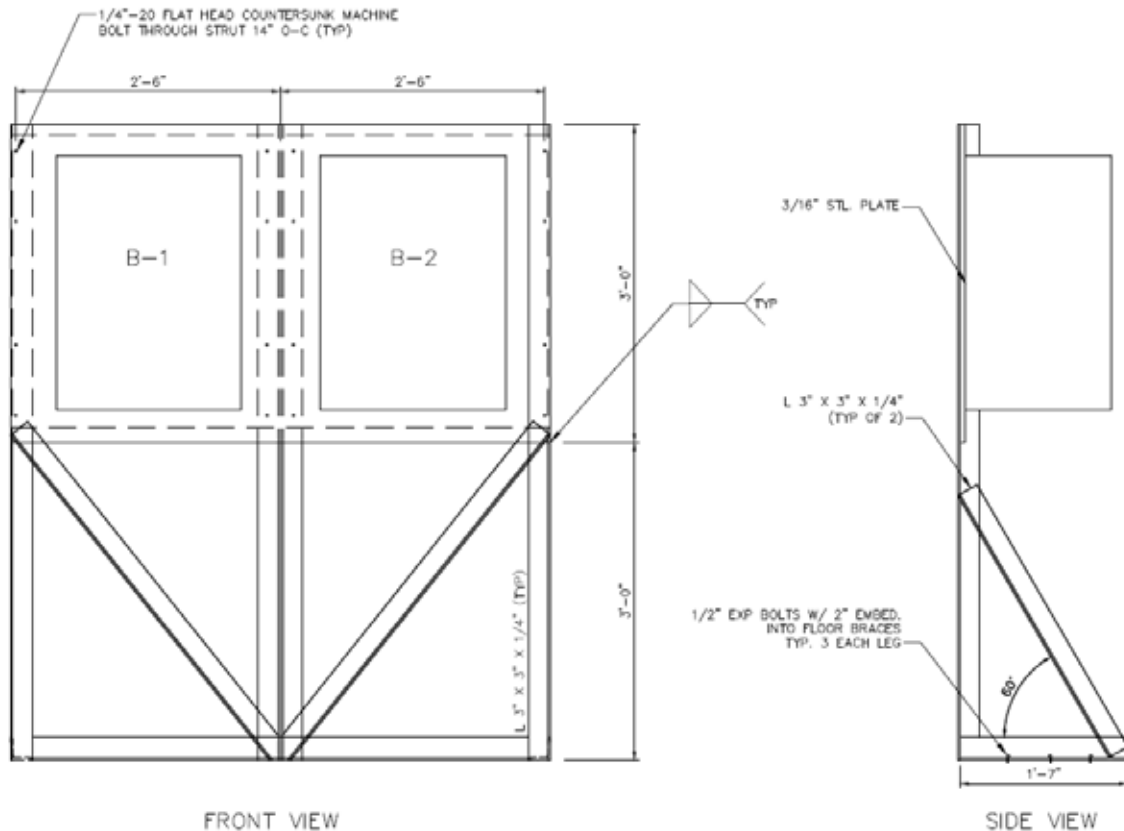
Question: Division 235216 calls for service maintenance for 1 year. Please advise if the intent of this is simply a single monthly visit, or if additional visits are required?

Response: Please provide one annual cleaning service appointment and one preventative maintenance appointment to tune each boiler during the heating season.

**Item 7:**

Question: Regarding the metal frame for the ground floor boiler support, can we utilize Unistrut in lieu of welding an angle iron frame together?

Response: No. Unistrut is not suitable for this design. The supports should be modified as below.





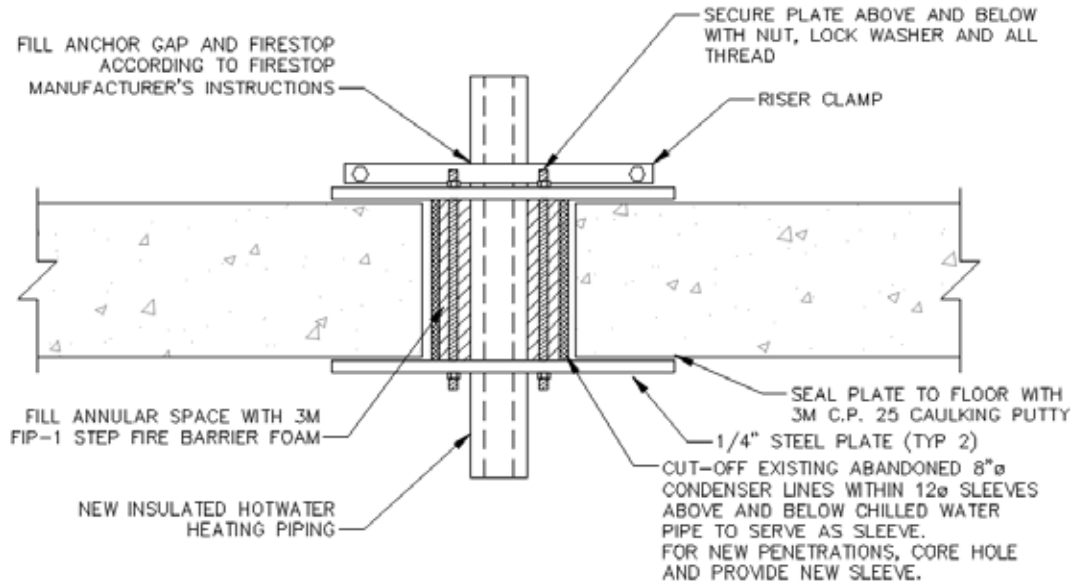
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**Item 8:**

Question: Please provide a detail for the firestopping penetrations, specifically the abandoned 12" steam and condensate line to the new 4" or less hot water supply and return lines?

Response: See sketch below. Existing abandoned pipes currently run floor to ceiling.



**Item 9:**

Question: Is the roofing bonded? If so, who holds the warranty?

Response: The roof is no longer under warranty. Contractor warranty will apply to all new roof penetrations. In addition, a 5 year vent warranty will apply. New specification Section 23 51 00 shall apply (see attached).

Specification Section 017830 shall be modified as below:

In Section 01 78 30, Paragraph 1.3.G, add the following:

40.	23	51 00	<b>Breachings, Chimneys and Stacks:</b>
			5 year product and installation, including weathertightness.

**Item 10:**

Question: Please provide information regarding the roof construction (i.e. EPDM roofing, mill thickness, insulation thickness)?

Response: The roof is a rubber roof with stones over ¾ of the surface. Assume 2" foam under 1/8" thick rubber. Conditions to be confirmed by contractor.

**Item 11:**

Question: Please confirm regular working hours?

Response: Per Article 37 of Section 007213, "No person shall be employed to work or be permitted to work more than eight (8) hours in any Day or more than forty (40) hours in any week for any Work provided in the Contract, in accordance with Connecticut General Statute Section 31-57. The operation of such limitation of hours of work may be suspended during an emergency, upon the approval of the Commissioner, in accordance with Connecticut General Statute Section 31-57."



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**Item 12:**

Question: Regarding the hot water supply and return piping, can propress fittings be utilized in lieu of soldered joints?

Response: Viega MegaPress XL and ProPress are allowed.

**Item 13:**

Question: Please confirm that we will have access to space within the building for storage of materials / equipment?  
Or will a storage container outside the building be required?

Response: The contractor will need to bring a storage container. The agency will provide an area for the container on site.

**Item 14:**

The time for bid questions is now closed and no more questions will be answered.

All questions must be **emailed** (not verbal or by phone) to the consulting Architect/Engineer (Jennifer Thurber, Email: [jthurber@fando.com](mailto:jthurber@fando.com)) with copies sent to the DAS/CS Project Manager (Daniel Wagoner, Email: [Daniel.Wagoner@ct.gov](mailto:Daniel.Wagoner@ct.gov)).

End of Addendum 5

Mellanee Walton, Associate Fiscal Administrative Officer  
State of Connecticut  
Department of Administrative Services, Construction Services  
Office of Legal Affairs, Policy, and Procurement  
450 Columbus Boulevard, Suite 1302  
Hartford, CT 06103

**PART 1 - GENERAL**

**1.1 SECTION INCLUDES**

- A. Type B double wall gas vents.

**1.2 RELATED REQUIREMENTS**

- A. Section 07 84 00 - Firestopping.
- B. Section 23 05 13 - Common Motor Requirements for HVAC Equipment: Induced draft fan motor.
- C. Section 23 07 16 - HVAC Equipment Insulation.

**1.3 REFERENCE STANDARDS**

- A. ANSI Z21.66 - American National Standard for Automatic Damper Devices for Use with Gas-Fired Appliances; 2015.
- B. ASME B16.5 - Pipe Flanges and Flanged Fittings NPS 1/2 Through NPS 24 Metric/Inch Standard; 2017.
- C. ASME B31.9 - Building Services Piping; 2017.
- D. ASTM A53/A53M - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless; 2018.
- E. NFPA 54 - National Fuel Gas Code; 2018.
- F. NFPA 82 - Standard on Incinerators and Waste and Linen Handling Systems and Equipment; 2014.
- G. NFPA 211 - Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances; 2016.
- H. SMACNA (DCS) - HVAC Duct Construction Standards Metal and Flexible; 2005 (Revised 2009).
- I. UL 441 - Standard for Gas Vents; Current Edition, Including All Revisions.

**1.4 DEFINITIONS**

- A. Breeching: Vent connector.
- B. Chimney: Primarily vertical shaft enclosing at least one vent for conducting flue gases outdoors.

- C. Vent: That portion of a venting system designed to convey flue gases directly outdoors from a vent connector or from an appliance when a vent connector is not used.
- D. Vent Connector: That part of a venting system that conducts the flue gases from the flue collar of an appliance to a chimney or vent, and may include a draft control device.

### **1.5 DESIGN REQUIREMENTS**

- A. Factory built vents and chimneys used for venting natural draft appliances to comply with NFPA 211 and be UL listed and labeled.

### **1.6 SUBMITTALS**

- A. Product Data: Provide data indicating factory built chimneys, including dimensional details of components and flue caps, dimensions and weights, electrical characteristics and connection requirements.
- B. Manufacturer's Instructions: Include installation instructions, and indicate assembly, support details, and connection requirements.
- C. Designer's Qualification Statement.
- D. Manufacturer's Qualification Statement.
- E. Installer's Qualification Statement.

### **1.7 WARRANTY**

- A. Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components provided for this project that fail in materials or workmanship within specified warranty period.
- B. Warranty Period: 5 years from date of Substantial Completion.

## **PART 2 - PRODUCTS**

### **2.1 MANUFACTURERS**

- A. AMPCO by Hart & Cooley, Inc; Model VSI: [www.ampcostacks.com/#sle](http://www.ampcostacks.com/#sle).
- B. DuraVent; DuraStack Pro (DIS2): [www.duravent.com/#sle](http://www.duravent.com/#sle).
- C. Metal-Fab, Inc: [www.mtlfab.com/#sle](http://www.mtlfab.com/#sle).
- D. Selkirk Corporation; Model PS: [www.selkirkcommercial.com/#sle](http://www.selkirkcommercial.com/#sle).
- E. Z-Flex U.S. Inc: [www.z-flex.com/#sle](http://www.z-flex.com/#sle).

**2.2 BREECHINGS, CHIMNEYS, AND STACKS - GENERAL REQUIREMENTS**

- A. Regulatory Requirements:
  - 1. Comply with applicable codes for installation of natural gas burning appliances and equipment.
  - 2. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories Inc. as suitable for the purpose specified and indicated.

**2.3 TYPE B DOUBLE WALL GAS VENTS**

- A. Fabrication: Inner pipe of sheet aluminum, and outer pipe of galvanized sheet steel, tested in compliance with UL 441.
- B. Electrically Actuated Vent Dampers: Same size as draft hood collar, constructed of stainless steel or galvanized steel, with corrosion-resistant components, in compliance with ANSI Z21.66.

**PART 3 - EXECUTION**

**3.1 INSTALLATION**

- A. Install in accordance with manufacturer's instructions.
- B. Install breechings with minimum of joints. Align accurately at connections, with internal surfaces smooth.
- C. Support breechings from building structure, rigidly with suitable ties, braces, hangers and anchors to hold to shape and prevent buckling. Support vertical breechings, chimneys, and stacks at 12 foot (4 m) spacing, to adjacent structural surfaces, or at floor penetrations. Refer to SMACNA (DCS) for equivalent duct support configuration and size.
- D. Pitch breechings with positive slope up from fuel-fired equipment to chimney or stack.
- E. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section 07 84 13.
- F. Insulate breechings in accordance with Section 23 07 16.
- G. For Type B double wall gas vents, maintain UL listed minimum clearances from combustibles. Assemble pipe and accessories as required for complete installation.
- H. Install vent dampers, locating close to draft hood collar, and secured to breeching.
- I. Assemble and install stack sections in accordance with NFPA 82, industry practices, and in compliance with UL listing. Join sections with acid-resistant joint cement. Connect base section to foundation using anchor lugs.
- J. Level and plumb chimney and stacks.
- K. Clean breechings, chimneys, and stacks during installation, removing dust and debris.

- L. At appliances, provide slip joints permitting removal of appliances without removal or dismantling of breechings, breeching insulation, chimneys, or stacks.

**SECTION 23 51 00**