



Division of Finance and Business Operations

Procurement & Strategic Sourcing  
5700 Cass Avenue, suite 4200  
Detroit, Michigan 48202  
(313) 577-3734

September 16, 2021

**Addendum #3 To  
Request for Proposal  
For Beecher House HVAC Improvements: Project 064-340774**

**Dated September 3, 2021**

**Points of Clarifications during the Pre-proposal Meeting September 10, 2021:**

**The Addendum must be acknowledged on your lump sum bid.**

NOTE: You must have attended a pre-bid conference in order to be eligible to bid on a particular project. Receipt of minutes or addenda without being at a pre-bid conference does not qualify your company to bid.

**Question:**

Had the Engineer/Owner checked if the equipment required are available during the required short period specified? It is our experience that some equipment such as the Pumps (P1 thru P4), Boilers (B1 & B2) with the expansion Tank takes long time for submittal, approvals and manufacturing could take long time?

**Answer:**

Current lead time for schedules boilers is 4-6 weeks. Current lead time for scheduled pumps is 14-16week

**Question:**

Drawing MH1.2 and other drawings "Architectural Keyed Notes", note 5 indicates that 1/4" drywall to be installed and painted, while item 15 direct the contractor to install 2'X2' Acoustical Ceiling Grid insulated. Please clarify what is required and where? In order all contractors to bid the same quantities.

**Answer:**

THESE ARE "Key" notes which mean that you must look on the plans for the same number inside a square box which indicates what areas must be treated by the note. Also note that this work should be taken off and executed by a qualified subcontractor for both the drywall and acoustical ceiling work.

**Question:**

Drawing shows plan view of the equipment to be removed from the walls, it will help for estimating purposes if a side view is generated to show the size of the opening that will need to be closed after equipment removal, are all units the same size? This will put all contractors on the same path estimating wise.

**Answer:**

All units are not the same size. Refer to Window Sash Repair notes.

**Question:**

Drawing MD1.1 indicates Window Sash Repairs; can the engineer be more specific on what is required?

**Answer:**

The section labeled Window Sash Repairs is a listing of Key Notes. The notes are specific about what is to be done within the glazed areas in the lower sash of each window so noted. Again, look on plan for same number within square box and do what it says to that window.

**Question:**

Drawing MD1.1 "Demolition Keyed Notes" item 3 "Remove existing Window Air Condition unit, coordinate window repair OR infill with new construction" Can the engineer be more specific and not leave this statement for interpretation?

**Answer:**

Simply refer to Window Sash Repairs and do what is indicated by the numbered note within the square box.

**Question:**

Need the RP-3 panel legend is not on the drawings? So we can see if the CU.-8,9,10 ARE FEED OUT OF THIS PANEL.

**Answer:**

RP-3 is attached to this response.

**Question:**

Why on drawings it said to replace the interior panel guts not the whole panel is there a reason for this?

**Answer:**

Potential cost saving consideration.

**Question:**

Drawing MH 1.1 "Architectural Key Notes" item 2 requests the contractor to include 50 sq-ft of plastering, and item 9 request to include 4 sq-ft. During the walk thru it was noticed that there was a lot of water damage at the basement level, are assuming that no repairs will be required at the basement level?

**Answer:**

Items 2 & 9 are indicated plaster repairs in the northeast first floor room (again look at plan!) No repair of finishes in the basement.

**Question:**

Drawing MH 1.1 "Architectural Key Notes" item 14 states "install Reproduction Wood Panel .... To match the existing door in everything" What is the size of the panel?

**Answer:**

Read the entire note. You are to provide a reproduction wood panel door to match the other historic wood panel doors into the room on the second floor ("panel" door means that there are inset panels between the stiles and rails of the door, and you are to match the design, profile, dimensions and locations of those panels as well as same attributes for the stiles and rails. Again, a qualified wood door manufacturer should be estimating and providing this item.

**Question:**

Drawing M 4.0 "HVAC General Notes" item 7 refer the contractor to the Reflected Ceiling Plans. We could not find those Reflected Ceiling Drawings, please direct us to those drawings.

**Answer:**

No reflected ceiling plans included. Ceiling work is indicated by Arch Key Notes and you must read the note corresponding to the number in the square box within the given space.

**Question:**

Another site visit as hot water piping and refrigerant piping routes are not clear. Also, Architectural work needs defining a bit more.

**Answer:**

No.

**Question:**

Asbestos testing/removal would need to be complete prior to any work-performed by WSU

**Answer:**

The University will take care of any abatement necessary. The awarded contractor is required to stop work and notify the University if any suspected asbestos is found at the job site.

**Question:**

Based on your equipment schedule we learned that lead times are up to 12 weeks. Your consideration to extend substantial completion date to 03-28-2022 or 5 months after signed executed contract

**Answer:**

See Addendum 2

**Question:**

Will WSU be responsible for providing temporary heat during construction?

**Answer:**

No.

**Question:**

For copper piping applications are Pro-press fittings and connections in lieu of brazing/sweat connections acceptable to the Owner/AE?

**Answer:**

Yes, Pro-press is acceptable.

**Question:**

In the basement mechanical room on sheet M4.0 the HHWS/R piping is shown as 2-1/2" but on sheets MP1.1 Basement HVAC Piping Plan detail and MP7.0 Heating Hot Water Piping Diagram the piping is shown as 2". Which is correct? Per the schedule on M6.0, 2.5" and greater must be carbon steel pipe whereas 2" and less is copper. Unless the AE deems necessary I would suggest maintaining copper for this small amount of pipe.

**Answer:**

Pipe size is 2".

**Question:**

For the RS/RL refrigeration lines, are pre-charged "line-sets" acceptable to the owner in lieu of hard copper sweat/brazing as called for in the specs?

**Answer:**

Line-sets are acceptable. Follow sizing guide in condensing unit installation manual, and provide additional support for a clean/straight installation.

**Question:**

Does the existing sampling station in basement mechanical room get reconnected to new HHW system or is it abandoned in place?

**Answer:**

Sampling station is abandoned in place.

**Question:**

Reading the specifications pages, it says that acceptable pipe/duct material and thicknesses would be scheduled on the drawings. M6.0 does not have a duct insulation schedule. Especially with the ductwork in the attic, a schedule for the ductwork is necessary. Please advise or provide a duct insulation schedule.

**Answer:**

See attached duct application schedules.

**Question:**

There are no specifications for the shown Air/Dirt Separator or Chem Feeder shown on M7.0. Please advise or provide specifications for these items.

**Answer:**

Air/Dirt Separator to be equivalent to Bell&Gossett CRS-2F. Chemical Treatment to be by one of the following manufacturers:

AmSolv/Division of Amrep, inc.

GE Water Technologies

Nalco Company

H-O-H Water Technologies, Inc.

**Question:**

Note on Sheet M7.0 indicates that isolation valves are required IF triple-duty valves are installed. Are triple-duty valves required? If so, please advise or provide a specification for the triple-duty valve.

**Answer:**

Triple duty valves are not required, but available as an option. Should the contractor choose to utilize a triple duty valve, a separate isolation valve should also be provided.

**Question:**

We are assuming that a new building control panel will be required for the updated BMS system due to any existing BMS equipment and/or control panels may not be compatible with the new system proposed for this project. Please confirm or clarify the extent of integrations with the BMS/Building Control Panels.

**Answer:**

The existing building control panel is currently integrated in the WSU Siemens campus wide building management system. The intention is to reuse the panel if possible. Coordinate all system integration requirements with WSU specifications.

A copy of this Addendum will be posted to the Purchasing web site at

<http://go.wayne.edu/bids>.

All questions concerning this project must be emailed to: **Valerie Kreher**, Procurement & Strategic Sourcing. Email: [rfpteam2@wayne.edu](mailto:rfpteam2@wayne.edu), and copy **Kimberly Toby-Tomaszewski**, Senior Buyer, at [katt@wayne.edu](mailto:katt@wayne.edu).

Bids are due **by electronic submission on** no later than 2:00 p.m., **September 27, 2021**. The link for bid submission will be posted with the bid details at <http://go.wayne.edu/bids> beginning **September 3, 2021**.

Thank you,

**Valerie Kreher,**  
**Senior Buyer**

DUCT SYSTEM APPLICATION SCHEDULE															
	DUCT MATERIAL														
AIR SYSTEMS	G90 GALV. SHEET METAL	FIBERGLASS	G90 GALV. SHEET METAL WITH 1-INCH LINING	DOUBLE-WALL LINED G90 GALV. SHEET METAL (SOLID INNER WALL)	DOUBLE-WALL LINED G90 GALV. SHEET METAL (PERF. INNER WALL)	GALVANNEALED SHEET METAL	ALUMINUM	TYPE 304 STAINLESS STEEL	TYPE 316 STAINLESS STEEL	CARBON STEEL (16 GAUGE)	FABRIC	DESIGN PRESSURE CLASS (INCHES WG)	SEAL CLASS	MAX. ALLOWABLE LEAKAGE RATE (PERCENT)	KEYED NOTES
	SUPPLY AIR WITHOUT TERMINAL UNITS	X	X									+2	A	5	
	RETURN AIR WITHOUT TERMINAL UNITS	X										-2	A	5	
	OUTSIDE AIR AND MIXED AIR DUCT	X										-6	A	5	

GENERAL NOTES

- 'X' INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.

DUCT SYSTEM INSULATION APPLICATION SCHEDULE											
	INSULATION MATERIAL & THICKNESS (INCHES)							FIELD APPLIED JACKET MATERIAL		KEYED NOTES	
	FIBERGLASS BLANKET 0.75 LB/CU FT	FIBERGLASS BLANKET 1.5 LB/CU FT	FIBERGLASS BOARD 2.25 LB/CU FT	FIBERGLASS BOARD 6.0 LB/CU FT	FLEXIBLE ELASTOMERIC	ASTM E2336 2-HOUR FIRE RATED BLANKET	2-HOUR FIRE RATED BLANKET	ALUMINIUM	SELF-ADHESIVE (FOR OUTDOOR APPLICATIONS)		
DUCT SYSTEMS LOCATED INDOORS											
SUPPLY AIR, EXCEPT AS NOTED BELOW		1									
RETURN AIR, EXCEPT AS NOTED BELOW		1									
RETURN AIR IN UNVENTED ATTICS ABOVE INSULATED CEILINGS		1									
OUTSIDE AIR AND MIXED AIR, EXCEPT AS NOTED BELOW		1									

PLENUMS, DUCTS, AND DUCT ACCESSORIES NOT REQUIRING INSULATION:

- FIBROUS-GLASS DUCTS
- FACTORY-INSULATED FLEXIBLE DUCTS
- FACTORY-INSULATED PLENUMS AND CASINGS
- FLEXIBLE CONNECTORS
- VIBRATION-CONTROL DEVICES
- FACTORY-INSULATED ACCESS PANELS AND DOORS

GENERAL NOTES

- 'X' OR THICKNESS IN INCHES INDICATE ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
- REFER TO METAL DUCT SECTION OF SPECIFICATIONS FOR DUCT LINING AND DOUBLE-WALL INSULATED DUCT.
- REFER TO HVAC CASINGS SECTION OF SPECIFICATIONS FOR DOUBLE-WALL INSULATED PLENUMS.

Panel Designation: **(E)RP-3**

Panel Location: THIRD FLOOR

Fed From: MAIN

Feeder Size: EXISTING TO REMAIN

Main: MLO

Bussing: 225A

Ground Bus: STANDARD

Mounting: SURFACE

P-P Voltage: 208

P-N Voltage: 120

Phase: 3

Wire: 4

ITE LOAD CENTER

Neutral: 100%

Min SC Interrupting Rating: 10kA

Remarks	Light Load	Recept Load	Cont Load	nonC Load	OC Prot	CKT	Ø A	Ø B	Ø C	CKT	OC Prot	nonC Load	Cont Load	Recept Load	Light Load	Remarks
EXISTING LOAD				1000	20	1	X			2	20	1000				EXISTING LOAD
EXISTING LOAD				1000	20	3		X		4	20	1000				EXISTING LOAD
EXISTING LOAD				1000	20	5			X	6	20	1000				EXISTING LOAD
EXISTING LOAD				1000	20	7	X			8	20	1000				EXISTING LOAD
EXISTING LOAD				1000	20	9		X		10	20	1000				EXISTING LOAD
EXISTING LOAD				1000	20	11			X	12	20	1000				EXISTING LOAD
EXISTING LOAD				1000	20	13	X			14	20	1000				EXISTING LOAD
EXISTING LOAD				1000	20	15		X		16	20	1000				EXISTING LOAD
EXISTING LOAD				1000	20	17			X	18	20	1000				EXISTING LOAD
EXISTING LOAD				1000	20	19	X			20	20					OUTDOOR OUTLET
EXISTING LOAD				1000	20	21		X		22	--					SPACE
CU-8				1768	20	23			X	24	--					SPACE
				1768		25	X			26	--					SPACE
CU-9				2433	40	27		X		28	--					SPACE
				2434		29			X	30	--					SPACE
CU-10				2517	40	31	X			32	--					SPACE
				2517		33		X		34	20					EXISTING LOAD
AC-4					20	35			X	36	--					SPACE
AC-8					20	37	X			38	--					SPACE
AC-9					20	39		X		40	--					SPACE
AC-10					20	41			X	42	--					SPACE

	Connected Load				Demand Factor		Demand Load			
Load Description	ØA	ØB	ØC	Total			ØA	ØB	ØC	Total
Lighting or Continuous Load (Volt-Amps)	0	0	0	0	1.00		0	0	0	0
180VA Receptacle Load (Volt-Amps)	0	0	0	0	1.00 (First 10kVA)		0	0	0	0
	Amount over 10kVA				0.50 (> 10kVA)		0	0	0	0
Continuous Load (Volt-Amps)	0	0	0	0	1.00		0	0	0	0
Non-Continuous Load (Volt-Amps)	11285	11950	10202	33437	1.00		11285	11950	10202	33437
Total Load (kVA)	11.29	11.95	10.20	33.44	125% of Light/Cont and Recept (<10kVA) load plus other load		11.29	11.95	10.20	33.44
Total Ampacity (Amps)	94.0	99.5	85.0	92.8			94.0	99.5	85.0	92.8
Minimum Feeder Sizing (Amps)	94.0	99.5	85.0	92.8	<---- per NEC Article 215.2 ---->		94.0	99.5	85.0	92.8

Receptacle Demand Factor per Article 220.44 of the National Electrical Code.