

ADDENDUM NO. 2

PROJECT NAME: Othmer Hall Machine Shop Renovation
UNL PROJECT NUMBER: 10151
BID INVITATION NUMBER: 2410-14-7200

CONSULTANT: Alley Poyner Macchietto Architecture
ADDRESS: 1516 Cuming Street, Omaha, NE 68102

DATE OF ISSUANCE: 7-10-2014
DATE OF BID OPENING: 7-17-2014

The bid documents dated, **June 24, 2014**, for the above referenced project are amended by this addendum.

NOTICE: This Addendum is issued to all interested prospective bidders as an amendment to the project manual or other parts of the bidding (contract) documents for the above named project. Reference to this Addendum must be included in the Bid proposal. The information contained herein shall be fully incorporated into the contract documents as though originally included therein.

PRE-BID ATTENDEES:

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Gene Benes	Benes Htg & AC	marybenes@beneshvac.com	(402) 783-2046

PRIOR APPROVAL - MECHANICAL:

1. The following manufacturers have received prior approval for bidding purposes subject to shop drawing review:
 - A. Air Outlets and Inlets Price Industries
 - B. Variable Air Volume Terminal Units Price Industries, Nailor
 - C. Spiral Seam Ductwork La Pine Metal Products
 - D. Balancing and Auto Flow Control Valves Pro Hydronic Specialties
 - E. Wash Fountain Willoughby
 - F. HVAC Pumps Patterson
 - G. Exhaust Fans Twin City Fan Co.
 - H. Louvers Air Balance

PRIOR APPROVAL - MECHANICAL:

1. There are 27 floor pipe penetrations and 12 floor drains to be capped.

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MODIFICATIONS TO THE DRAWINGS:

1. Sheet M2.0 Mechanical Plan

A. Sheet note #8 shall read: Contractor shall install humidity piping to just below metal catwalk. Install full sized trap and extend humidity piping at a 1/8" per foot slope to Wash Fountain as shown.

2. Sheet M3.0 HVAC Plan

A. Sheet note #9 shall read: Motorized dampers for outdoor air ductwork and return air ductwork shall be set to provide a minimum of 1800 CFM of outdoor air during occupied mode. Dampers are provided by UNL BSM but installed by this contractor. Final control work by UNL BSM. Actuators provided and installed by UNL BSM. Outdoor air ductwork is also sized to allow 5,000 CFM for economizer mode. During economizer mode, outdoor air motorized damper shall open to 100% or balanced setting (5,000 CFM) and return air motorized damper shall be in closed position. During economizer mode, EF-1 shall energize. See note #21 on this sheet for relief/exhaust settings.

B. Sheet note #13 shall read: Not Used.

C. Sheet note #22 shall read: Static pressure sensor shall be installed on fan side of economizer relief takeoff. Install per manufacturers recommendations. Sensor furnished and installed by UNL BSM.

D. AHU-10 VFD's are located on the South wall, East of the Eye Wash station. See attachment M3.0-1.

E. General: Return air ductwork from AHU-10 shall have flat continuous ductwork on bottom to allow moisture to drain as noted. Provide eccentric fittings as required.

3. Sheet M5.0 Mechanical Schedules and Details

A. See Attachment M5.0-1 for revisions to Variable Air Volume Box Schedule and Exhaust Fan Schedule.

MODIFICATIONS TO THE SPECIFICATIONS:

1. Section 23 3100 – HVAC Ducts and Casings

A. Section 3.3.A.2: Return ductwork allowed to be 304 Stainless Steel, as well as Aluminum.

END OF ADDENDUM NO. 2

VARIABLE AIR VOLUME BOX SCHEDULE								
UNIT NO.	COOLING CFM		REHEAT COIL			S.P. (MAX.)	MODEL NUMBER (TITUS DESV)	ROOM
	MIN.	MAX.	GPM	MBH	ROWS			
VAV-80-1	550	1000	2	21.7	2	.46	9	MACHINE SHOP 80 – CLASSROOM
VAV-80-2	580	3000	6	65	2	.61	16	MACHINE SHOP 80 – LATHES
VAV-80-3	580	3000	6	65	2	.61	16	MACHINE SHOP 80 – MILLS
VAV-81	450	2000	3.0	43.7	2	.43	14	FLUID DYNAMICS LAB 81

VARIABLE AIR VOLUME BOX SCHEDULE

1. MINIMUM GPM THROUGH BOX SHALL BE .5 UNLESS OTHERWISE SHOWN.
2. VAV BOXES SHALL HAVE FIBER FREE LINER.
3. VAV BOXES ARE DESIGNED BASED ON A 55°F E.A.T. AND 160°F E.W.T. WITH 30% PROPOLYNE GLYCOL
4. MAXIMUM WATER PRESSURE DROP THROUGH COIL SHALL BE 5' OF HEAD.
5. S.P. MAXIMUM LISTED IS THAT ACROSS BOTH BOX AND COIL AT MAXIMUM CFM. GREATER STATIC PRESSURE DROPS WILL NOT BE ACCEPTED.
6. REHEAT COIL SHALL BE INSTALLED AT DISCHARGE END OF VAV BOX.
7. PROVIDE MULTIPLE POINT FLOW SENSOR AT INLET.
8. MAXIMUM AIR PRESSURE DROP THROUGH COIL SHALL BE .5" W.G.

EXHAUST FAN SCHEDULE

MARK	AREA SERVED	TYPE	AIR FLOW (CFM)	TOTAL S.P. (IN. W.C.)	MOTOR DATA				COOK FAN #
					MAX. RPM	DBA	HP	VOLT/ PHASE	
EF-1	MACHINE SHOP	IN-LINE	4,000	3.5	1725	77	5	480 / 3	165QMX-HP

EXHAUST FAN SCHEDULE NOTES:

1. EXHAUST FAN SHALL HAVE BACKDRAFT DAMPER AND DISCONNECT SWITCH. HANG FAN WITH VIBRATION ISOLATORS.
2. EXHAUST FAN SHALL BE BELT DRIVE BUT WITH ADJUSTABLE SHEAVES.
3. FAN RPM (2165) EXCEEDS 1800 RPM STANDARD, BUT HAS BEEN SELECTED WITH EXCEPTION AS OUTLINED IN UNL GUIDELINES.

**OTHMER HALL MACHINE
SHOP RENOVATION**
MECHANICAL SCHEDULES AND SYMBOLS

SCALE: 1/8" = 1'-0"

MJB



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ETI Project No: (2013-096)

ADD #2

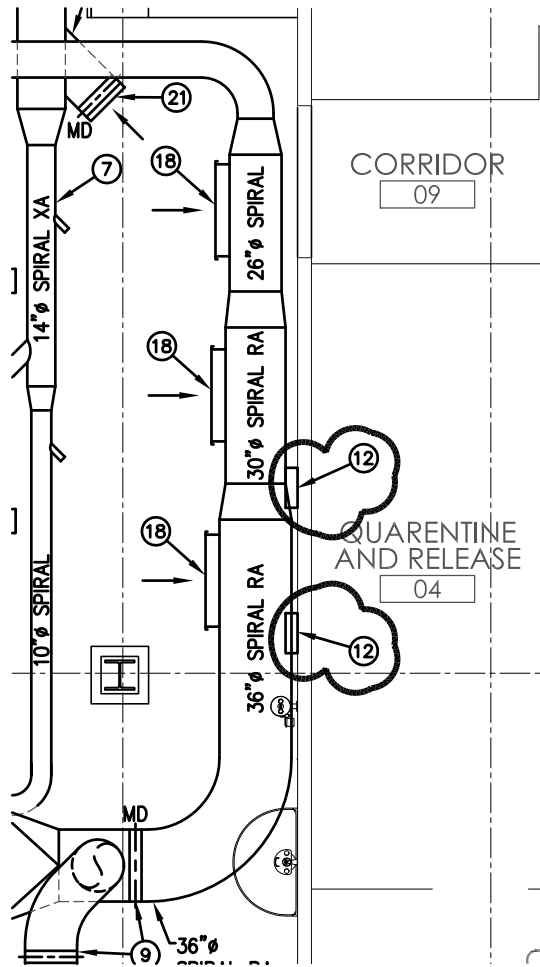
SHEET

M5.0

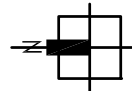
ATTACHMENT NO.

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07/09/2014



<h1>J4</h1>	<h2>HVAC PLAN</h2>
M3.0	SCALE: 1/8" = 1'-0"



**OTHMER HALL MACHINE
SHOP RENOVATION
HVAC PLAN**

SCALE: 1/8" = 1'-0"

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SHEET
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