

ENGINEERING ADDENDUM

Number: ASI-1A

Issue Date: May 25, 2021

Project: Vinita Cultural Development Center

Engineer's Project Number: 221034

Architect: EFG Design & Architecture
15 W 6th Street, Suite 2100
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Architect Project Number: 111-049.20

CC:

Attention: Mark Seibold

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Seal:

Signature: _____

Kory M. Zehr, PE
Phillips+Gomez, Inc.

This Addendum forms part of the Contract Documents, and modifies the original documents dated: May 7, 2021.

MECHANICAL

CHANGES TO DRAWINGS

- EA1.M.1: Refer to Sheet M101, Upper Level HVAC Plan:
- a) **Alternate 8A:** Furnish and install dedicated outside air/dehumidification unit DOAS-1:
 - (i) Greenheck model RV-25-10I-G, 2000 CFM SA, 1135 CFM OA, 865 CFM Recirc Air, Packaged DX cooling, indirect gas heat, outdoor, ground

mounted unit with horizontal duct connections. EER=11, Cooling: Total MBH=127.8, Sensible MBH= 62, 2 inverter scroll compressors, EAT=78.9db/70wb, LAT=50.7db/50.6wb; hot gas reheat coil = 50.3 MBH, LAT=74; Heating: 200 MBH input, 160 MBH output, 16:1 modulation turndown; Supply fan= 2000 CFM, 1.875" TSP, 1" ESP, plenum, direct drive, 1hp; 208-3ph, MCA=45.5A, MOP=60A; Double wall construction, VFD, 2" MERV 8 and 2" MERV 13 filters, disconnect switch, factory controller with LCD control panel and wall mounted sensors.

- (ii) Mount unit on concrete pad or field fabricated structural steel support as required to provide uniform level support for unit in accordance with unit manufacturer's requirements.
 - (iii) Extend 20x16 supply air ductwork from DOAS-1 horizontal discharge from unit to building wall and rise to approximately 12'AFF and turn into building. Provide (2) 24x12 Type B duct mounted supply grilles.
 - (iv) Extend 20x 18 return duct from DOAS-1 horizontal return connection from unit to building wall and penetrate into building at approximately 2' AFF. Provide (1) 24x24 Type F wall mounted return grille.
 - (v) Extend 1" condensate piping from unit connection to a 2'x2'x2' gravel filled dry well.
- b) **Alternate 8B:** Furnish and install desiccant dehumidification unit DHU-1:
- (i) CDI model DC-2250-G-208/3, 2250 CFM SA, 575 CFM reactivation air, Packaged DX, outdoor, ground mounted unit with horizontal duct connections; DH-126 desiccant rotor, silica gel type, process EAT=77.9dbF/965.gr/lb, Process LAT= 117.2dbF/53.3gr/lb; direct fired gas reactivation heat 164 MBH, 12:1 modulation; Supply fan= 2250 CFM, 4.8" TSP, 1.63" ESP, plenum, direct drive, 3hp; Reactivation fan = 575 CFM, 5.5" TSP, 1.5"ESP, radial blade, direct drive, 1.5hp; 208-3ph, FLA=137.A, MCA=21A, MOP=30A; Precool coil box and Post cool coil box, final LAT=68dbF/56.3wbF. with Samsung condensing unit, 208-3ph; Double wall construction, VFD, 2" MERV 8 and filters, disconnect switch, factory controller with LCD control panel and wall mounted sensors and transmitters.;
 - (ii) Mount unit on concrete pad or field fabricated structural steel support as required to provide uniform level support for unit in accordance with unit manufacturer's requirements.
 - (iii) Extend 20x16 supply air ductwork from DOAS-1 horizontal discharge from unit to building wall and rise to approximately 12'AFF and turn into building. Provide (2) 24x12 Type B duct mounted supply grilles.
 - (iv) Extend 20x 18 return duct from DOAS-1 horizontal return connection from unit to building wall and penetrate into building at approximately 2' AFF. Provide (1) 24x24 Type F wall mounted return grille.
 - (v) Extend 1" condensate piping from unit connection to a 2'x2'x2' gravel filled dry well.

- EA1.M.2: Refer to Sheet P101, Lower Level Plumbing Plan:
- a) Women's Restroom 280 and Men's Restroom 281: Change L-2 lavatories to be L-3. Refer to revised plumbing fixture schedule for L-3.
 - b) **Alternate 8A:** Extend 1" gas piping from 3" main up to DOAS-1 located on upper level exterior west side of building.
 - c) **Alternate 8B:** Extend 1" gas piping from 3" main up to DHU-1 located on upper level exterior west side of building.

EA1.M.3: Refer to Sheet P500, Plumbing Fixture Schedule:

- a) Add the following lavatory L-3:

UNIT DESIGNATION		L-3
FIXTURE TYPE		LAVATORY
		UNDERMOUNT
		16-1/8"X19-3/16"
MATERIAL/COLOR		VITREOUS CHINA
		WHITE
ADA COMPLIANT? (YES/NO)		YES
MANUFACTURER		KOHLER
MODEL NUMBER		K-14218
TRIM	VALVE	
	SEAT	
	CARRIER	ZURN
		Z1231
	FAUCET	SLOAN
		EFX-100
	DRAIN	GRID
		STRAINER
MISCELLANEOUS		0.5 GPM AERATOR,
		CHROME PLATED
		HARD WIRED
		SENSOR FAUCET
		EL-451 XFMR
WASTE & VENT	ABOVE GROUND	1 1/2"
	BELOW GROUND	2"
	VENT	1 1/2"
WATER SUPPLY	COLD	1/2"
	HOT	1/2"
	TEMPERED	1/2"
REMARKS		1,2,3

ELECTRICAL

CHANGES TO DRAWINGS

- EA1.E.1: Refer to Sheet E201, Upper Level Power Plan:
- a) **Alternate 8A:** Provide fused disconnect for electrical service to new DOAS-1. Provide one (1) 60A, 3-pole circuit breaker into new MDP. Verify exact

electrical requirements with equipment. Branch circuit shall be 4#6, 1#10GND, 1" C.

- b) **Alternate 8B:** Provide fused disconnect for electrical service to new DHU-1 UNIT. Provide one (1) 30A, 3-pole circuit breaker into new MDP. Verify exact electrical requirements with equipment. Branch circuit shall be 4#10, 1#10GND, 3/4" C.

Provide fused disconnect for electrical service to new DHU-1 CONDENSER. Provide one (1) 30A, 3-pole circuit breaker into new MDP. Verify exact electrical requirements with equipment. Branch circuit shall be 4#10, 1#10GND, 3/4" C.

EA1.E.2: Refer to Sheet E201, Lower Level Power Plan:

- a) Provide new 600A, 208V 3Phase switchboard MDP to replace existing MDP located in basement. Extend all existing branch circuit to new MDP. Provide new circuit breakers as required. Coordinate with utility for new service size and transformer location. MDP feeder shall be two (2) sets 4-350MCM, 1#1GND, 3C. Provide new circuit breakers as needed for new mechanical equipment.

EA1.E.3 Refer to Sheet E005, Electrical Specifications:

Provide a fully function fire alarm system in accordance with NFPA 72. Provide all necessary panels and devices and provide all electrical connections as required by manufacturer.

END OF ENGINEERING ADDENDUM