

Addendum Number Two Total pages - 11

This Addendum is hereby made part of the Contract Documents to the same extent as though it were originally included therein. Refer to "Bid Form" for acknowledgment of Addenda.

All Contractors, Subcontractors and Suppliers are reminded that they shall be familiar with all Addenda items (as well as all parts of the Construction Documents) so as to understand the extent of their work and its interrelation with other trades.

To all bidders for furnishing all labor and materials necessary for the following Contract:

JABARA CAMPUS PACKAGE
NATIONAL CENTER FOR AVIATION TRAINING
 4004 N. WEBB ROAD
 WICHITA, KS 67226

Prepared by:
 Schaefer Johnson Cox Frey and Associates, P.A.

GENERAL:

- ITEM AD2-G01** CONTRACT
 CLARIFICATION: -See attached sheets for explanations/questions regarding the contract.
- ITEM AD2-G02** PROJECT MANUAL, Table of Contents
 DELETE: Delete "Perforated Acoustical Ceiling Panels" (09 510) from the table of contents. The perforated ceiling panels are specified in "Acoustical Unit Ceiling" section 09 510.
- ITEM AD2-G03** PROJECT MANUAL
 CLARIFICATION: All references to alternates are void - there are no alternates.
- ITEM AD2-G04** PROJECT MANUAL, Invitation For Bids, Subcontracting Worksheet
 CLARIFICATION: -See attached subcontracting worksheet (8.5x11)
- ITEM AD2-G05** PROJECT MANUAL, Instructions to Bidders
 CLARIFICATION: Page 1, Lines 35-37:
 The two portions of the project indicate each building, however, provide a lump sum cost for the entire Phase II project because there are really more than just the two buildings, there's the commons and the lecture hall.
 CLARIFICATION: Page 2, Lines 32-34, under Substitutions:
 The language contained in this paragraph will remain as is.
- ITEM AD2-G06** PROJECT MANUAL, Bid Form, BF-3, Agreements, Line 19, f.
 CLARIFICATION: The language contained in the Bid Form relating to the 10% maximum, will remain as is.
- ITEM AD2-G07** PROJECT MANUAL, Earthwork 02 200, Page 8, Line 48.
 REVISION: Change the thickness of the Silty gravel screenings to be 12" instead of 6" at the top of the LVC zone.
- ITEM AD2-G08** PROJECT MANUAL, Landscaping, 02 800-2, Line 48
 DELETE: Under Seed (warm weather) delete the word "sod."

- ITEM AD2-G09** PROJECT MANUAL, Cast-In-Place Concrete, 03 300-7, Lines 50-53
CLARIFICATION: It is acceptable to increase the concrete slump to a maximum of 5" in slabs on grade using a water reducing admixture in the concrete.
- ITEM AD2-G10** PROJECT MANUAL, Cut Stone, 04 420-3, Part 2 Products, Stone Anchors
REVISION: Page 3, Line 50 should read: 16 ga. split tail anchor 1 ½" wide at 16" o.c. anchored with 1/4" x 1" TEC screw. #9 galvanized wire rod 8" long to bridge joints at each joint and at each coarse. Place rod at bottom of anchor slot. Fill slot with mortar.
- ITEM AD2-G11** PROJECT MANUAL, Vapor Retarder, 07 260-2, Part 2 Products:
ADDITION: Add "Insulation Solutions/ Viper VaporCheck (10 mil) and Viper VaporCheck II (10 mil) to the list of approved products.
- ITEM AD2-G12** PROJECT MANUAL, Aluminum Composite Panels, 07 420-3, Part 2 Products:
ADDITION: Line 33 under Panel Attachment System Manufacturers add: "Image - Wetseal Rout and Return System by Image Building Products, St. Charles, MO (636-946-5252).
- ITEM AD2-G13** PROJECT MANUAL, High Speed Coiling Doors, 08 330-2, Part 2 Products:
ADDITION: Add "Albany Door Systems, 800-252-2691" as an approved manufacturer for products equal to that specified.
- ITEM AD2-G14** PROJECT MANUAL, Upward Coiling Doors, 08 331-2, Special Features:
ADDITION: Line 29 Add: Doors at interior locations: Provide weatherstripping (sound control), brush type guide seals, and gasketing to reduce rattling.
CLARIFICATION: Vison lights are not needed at interior doors.
- ITEM AD2-G15** PROJECT MANUAL, Hangar Doors, 08 370
REVISION: Page 3, line 3 replace "anodized aluminum batten strips" with "prefinished aluminum batten strips (color to be selected by architect)."
DELETE: Page 3, delete lines 7-9 - Batten Strip Covers.
- ITEM AD2-G16** PROJECT MANUAL, Storefront Systems, 08 920
ADDITION: Page 1, Line 22 add: "Glazing fabricator and installer must have a minimum of 5 years experience."
ADDITION: Page 1, Line 55 add "Manko Window Systems, Inc" to approved manufacturers list.
- ITEM AD2-G17** PROJECT MANUAL, Acoustical Unit Ceilings, 09 510-3,4, Acoustical Units:
REVISION: Page 3, Line 20 should read "Radar ClimaPlus - U.S. Gypsum"
CLARIFICATION: Page 3, Line 40 should read "Perforated Metal Panels" scheduled "A4"
CLARIFICATION: Page 4, Line 1 should read "Perforated Metal Panels" scheduled "P"
- ITEM AD2-G18** PROJECT MANUAL, Carpet Tile, 09 681-1, Installers
ADDITION: Add " Interior Surface Enterprises, LLC" to the approved installers list.
- ITEM AD2-G19** PROJECT MANUAL, Special Floor Finish, 09 702
DELETE: Delete specification section 09 702. Not used.
- ITEM AD2-G20** PROJECT MANUAL, Vapor Retarder, 09 900, Part 2 Products:
ADDITION: Add "Diamond Vogel Paints" as an approved manufacturer for products equal to that specified.
- ITEM AD2-G21** PROJECT MANUAL, Markerboard & Tackboard, 10 100:
CLARIFICATION: All marker boards (MB) shall be 8'-0" in length unless otherwise noted.
CLARIFICATION: All tack boards (TB) shall be 4'-0" in length unless otherwise noted.

- ITEM AD2-G22** PROJECT MANUAL, Toilet & Bath Accessories, 10 800-2
 CLARIFICATION: Line 1, replace "#4" with "#11"
 CLARIFICATION: Line 32, replace "#11" with "#12".
 CLARIFICATION: Drawing Sheets A22.1 - A22.17, Provide a Mop Rack next to all mop sinks shown on plans. -Ref. Spec. 10 800-2.
- ITEM AD2-G23** PROJECT MANUAL, Loading Dock Equipment, 11 160-1, Part 2 Products
 ADDITION: Add Advanced Lifts INC, St. Charles, IL to the approved manufacturers list.
- ITEM AD2-G24** PROJECT MANUAL, Rolling Shades, 12 494-3, Part 2 Products
 ADDITION: Add "Nysan/Hunter Douglas, 403-204-8675 to the approved manufacturers list.
- ITEM AD2-G25** PROJECT MANUAL, Fixed Table System, 12 775
 CLARIFICATION: Page 1, Line 10: Replace "seating" with "tables".
 CLARIFICATION: Page 1, Line 17: Replace entire line with "Freestanding mobile tables with "T" shaped table bases on castors. Tables to include power and data module."
 ADDITION: Page 3, Line 10: Add the following information to the "MATERIALS" section:
- Free-Standing Mobile Tables:** Tables shall be 20"D x 72"W x 29"H with all materials and finishes matching fixed tables as specified. Barron Table Base or equal shall consist of 1/34" round tubular steel feet, legs, plugs, and stringer connectors. Tubing shall be 14-gauge, 1008 steel. Table tops shall be constructed to specifications of fixed tables. Modesty panels shall match those specified at fixed tables. Modesty panel attachment shall closely match the front edge positioning of the fixed tables to provide a consistent design aesthetic. Each table shall include one Power-Up module or equal factory installed in table surface, located in the center of the table approximately 4 1/2" from the front edge of the surface. Each unit shall be a UL listed relocatable power tap and meet all specifications outlined in the Power and Data Module Section of the fixed table systems with the exception of cord length. Modules at free-standing tables shall include a 9 foot, 3-conductor cord rated 120Vac, 15A. Horizontal and vertical wire management shall be provided at each table to house both the power cord and data wiring. The horizontal wire management channel of rigid PVC is mounted under the table surface and utilizes a metal divider to separate power and communications / data cables. Vertical wire management is provided at each leg by a vertical, dual channel wire manager constructed of rigid PVC. Castors shall be heavy duty, high impact, and twin wheel swiveling; 2 locking, 2 free wheeling. Table leg height shall be adjusted to include the castors within the specified finished table height.
- ITEM AD2-G26** DRAWING SHEET C25.0, Storm inlet drains
 CLARIFICATION: The small storm inlet drains in the courtyard that are shown as existing are incorrect. They are new per the notes on sheet C22.2.
- ITEM AD2-G27** DRAWING SHEET C21.0, Keyed note
 CLARIFICATION: Keyed note 25 should read, "Existing building pad prepared in site work package. Remove 4" topsoil. Rework grades as indicated on C24.0 including necessary re-compaction of building pad.
 DELETE: Delete keyed note 27.
- ITEM AD2-G28** DRAWING SHEET C22.0, Keyed note
 DELETE: Delete keyed note 2.14 that is shown at the far east temporary construction fence.
 CLARIFICATION: There is not a permanent chainlink fence along Webb Road.
 CLARIFICATION: Keyed note 2.49 should read, "Install concrete paving (Heavy Duty - 8" thick concrete) - Ref. B9/A62.1.

- ITEM AD2-G29** DRAWING SHEET, C24.0
REVISION: Revisions to grades and the cutting down of the existing storm water inlet in the south parking lot.
 -See attached partial sheet C24.0 (8.5x11)
- ITEM AD2-G30** DRAWING SHEET A22.16, Partition Type
DELETE: Delete partition type "K1" near grid intersection SN,39 - Ref. wall section F2/A43.9 for wall construction.
- ITEM AD2-G31** DRAWING SHEET A22.5, Wall section reference
CLARIFICATION: Wall section reference F4/A43.4 near grid intersection MJ,13.25 should read F3/A43.4.
- ITEM AD2-G32** DRAWING SHEET A68.DS1, Hollow Metal Door Type "H8"
REVISION: Frame H8 should be shown with vertical mullions between each door.
 -See attached partial revised sheet A68.DS1 (8.5x11)
- ITEM AD2-G33** DRAWING SHEET A68.DS2, Door Schedule
CLARIFICATION: Door M145C is listed twice. Door M145C listed directly below door M149B should read M149C.
 -See attached partial revised sheet A68.DS2 (8.5x11)
CLARIFICATION: Door M101 is labeled as a wood door with narrow lite in a hollow metal frame. It should read as an aluminum full glass door in an aluminum frame. - Ref. M17/A68.WS3
 -See attached partial revised sheet A68.DS2 (8.5x11)
ADDITION: Add doors: M200C, M200D, M200E, M202C, M202D, M202E, C102 and C103 to the door schedule.
 -See attached partial revised sheet A68.DS2 (8.5x11)
ADDITION: Label coiling door at counter in room C108 on floor plan as door C108C. Add door C108C to door schedule.
 -See attached partial revised sheet A68.DS2 (8.5x11)
CLARIFICATION: All doors labeled STL, except door C104B, are intended to be a storm refuge door.
 -See attached spec. - Storm Refuge Doors 08 120 (8.5x11)
 Coordinate new hardware Set #27 with existing hardware sets on doors labeled STL.
 -See attached spec. - Finish Hardware,08 710, Set #27 (8.5x11)
CLARIFICATION: Door S133B is labeled as a hollow metal door. It should read as a fire shutter (FS).
- ITEM AD2-G34** DRAWING SHEET A50.6, Elevation B
CLARIFICATION: The door into the lecture hall is shown with a separate frame from the clerestory frame. This is incorrect. The door frame is shown correctly on door type A17 - sheet A68.DS1 as well as window type C7/A68.WS5.
- ITEM AD2-G35** DRAWING SHEET A22.4, Freezer - RM 143B
CLARIFICATION: Quarry tile should be shown in the floor finish box instead of the wall finish box.
- ITEM AD2-G36** DRAWING SHEET A69.1
CLARIFICATION: Wall types U1 and U2 should be noted as an 8" C.M.U. instead of 12" C.M.U.
- ITEM AD2-G37** DRAWING SHEET A22.8 - Concrete Floor
CLARIFICATION: The slab on grade in the hangar shall slope to the center trench drain at approximately 1/16" per foot. The top of the trench drain is at elevation 99-9.

- ITEM AD2-G38** DRAWING SHEETS A63.1, Interior and exterior equipment pads
ADDITION: Add attached interior equipment pad detail C5 to sheet A62.1
-See attached partial revised sheet A63.1 (8.5x11)
ADDITION: Add attached exterior equipment pad detail C3 to sheet A62.1
-See attached partial revised sheet A63.1 (8.5x11)
- ITEM AD2-G39** DRAWING SHEETS A21.1, A22.1, A22.2, A22.4, A22.5, A22.7, A22.8, A22.9, A22.16
ADDITION: Add 3/4" fire retardant plywood (4" above finish floor 8'-0" tall to all walls unless otherwise noted) to the following rooms: M110, M124, M159, S110, S121 (add to 1 long wall only), S153, S223 (add to 1 long wall only), C104A.
- ITEM AD2-G40** DRAWING SHEETS A22.1 - A22.17, Base Schedule
CLARIFICATION: -See attached revised base schedule (8.5x11)
- ITEM AD2-G41** DRAWING SHEETS A22.1 - A22.17, Keyed Notes
CLARIFICATION: Keyed note 11.3 should read, "Overhead Projector - Ref. Electrical for Rough in - Projector By Owner".
CLARIFICATION: Keyed note 11.4 should read, "Swing Hoist - By Owner, Ref. Struct. for support footing."
- ITEM AD2-G42** DRAWING SHEETS A22.1 - A22.17, Server Room floor finish
REVISION: All Server Rooms shall have Vinyl tile instead of sealed concrete.
- ITEM AD2-G43** DRAWING SHEETS A22.6 - Lecture Hall, carpet
CLARIFICATION: In the Lecture Hall all floors and risers above elevation 100-0 shall have carpet, including underneath the tables, etc.
- ITEM AD2-G44** DRAWING SHEET A51.1, Restroom Accessories Schedule
CLARIFICATION: Paper Towel Dispensers item #4 replace "-Ref. Spec." with "By Owner"
- ITEM AD2-G45** DRAWING SHEET A67.1, Detail F9
CLARIFICATION: The detail notes 2" insulated metal panel system (horizontal) -ref. spec. It should read as 2" metal panel system (vertical) - Ref. spec.
- ITEM AD2-G46** DRAWING SHEET A50.1, Lecture Hall, handrails
CLARIFICATION: All handrails in the Lecture Hall shall be stainless steel.
- ITEM AD2-G47** DRAWING SHEETS A22.7 and A22.16 - Restroom Floor/Tile Transitions
CLARIFICATION: Restrooms S118/S118A and S220/S221
-See attached partial sheets A22.7 and A22.16 (8.5x11)
- ITEM AD2-G48** DRAWING SHEET A22.3, Expansion joint covers
ADDITION: Add note 5.11 at walls and floor in corridor M108 near grid intersection MR,8.
ADDITION: Add note 5.11 at floor near west wall in room M134.
All interior expansion joints shall have an expansion joint cover.
-Ref. spec section 05 500-4.
- ITEM AD2-G49** DRAWING SHEET A22.9, Dock scissor lift
CLARIFICATION: Outside door S147C keyed note 11.9 should read as 11.10.
CLARIFICATION: The drain in the scissor lift pit shall be tied into storm water catch basin shown on sheet C22.3 approximately 10' east of the scissor lift.
- ITEM AD2-G50** DRAWING SHEET A66.2, Millwork at Fume Hood in room M134B
ADDITION: Add millwork elevation W to sheet A66.2.
-See attached partial sheet A66.2

- ITEM AD2-G51** General - Hydraulic trench in Manufacturing building.
CLARIFICATION: Waterproofing is not required in the hydraulic trench
- ITEM AD2-G52** General - Masonry door pockets
CLARIFICATION: Masonry walls shall extend to deck at all classroom pockets.
-Ref. Partition schedule, sheet A69.1
- ITEM AD2-G53** General - Cement board
CLARIFICATION: Cement board shall be 5/8" thick.
- ITEM AD2-G54** General - Window Shades
CLARIFICATION: The electric shades in the Lecture Hall are the only shades in the contract. Other shades for classrooms, etc. will be purchases by the owner.
- ITEM AD2-G55** General - Fire Sprinkler
CLARIFICATION: All buildings will have a fire sprinkler system.
- ITEM AD2-G56** General - Wood doors
CLARIFICATION: All wood doors shall be painted.
- ITEM AD2-G57** General - Construction schedule for the Gateway building
ADDITION: -See attached construction schedule
- ITEM AD2-G58** DRAWING SHEET A64.1, Detail A7 and C7
REVISION: Revise details to show quirk miter corners at cut stone similar to corner shown on detail A3. Quirk miters typical at all outside corners of stone.

STRUCTURAL:

- ITEM AD2-S01** DRAWING SHEET S23.4 - Near Grid 20.5 and MT
REVISION: Revise the referenced framing elevation mark 6-S33.5 to read 6-S33.3.
- ITEM AD2-S02** DRAWING SHEET S22.6 - Near Grid 27.75 and SS
REVISION: Revise the foundation wall mark TF31 to read W31.
- ITEM AD2-S03** DRAWING SHEET S22.7 - Near Grids 28 to 27 and SE to SJ
REVISION: Revise the mechanical screen wall foundation wall mark W7 to read TF7.
- ITEM AD2-S04** DRAWING SHEET S24.8 - Roof framing over the Hanger, S132
CLARIFICATION: Each of the four rows of bolted diagonal cross-bridging between each joist spacing shall also attach to the top and bottom chord of Truss J, Detail 10-S34.3. Provide a bolted joist bridging connection plate on each side of the truss top and bottom chord. Coordinate the exact location and details of the bridging connection plates with the joist shop drawings.

MECHANICAL:

ITEM AD2-M01

ADDITION:

SPECIFICATION

The following manufacturers have been approved in the sections indicated, provided their product satisfies ALL requirements of the specifications and contract drawings:

<u>Section/PG</u>	<u>Product</u>	<u>Manufacturer</u>
13 966	Clean Agent Fire Extinguishing Systems	Fenwal
15 122	Meters and Gages	FNW
15 465	Compressed Air Equipment	Atlas Copco
15 555	Diffusers, Registers, and Grilles	Air Concepts
15 853	Power Ventilators	Twin City Fan
15 885	Exhaust Hoods	Econ Air

ITEM AD2-M02

CLARIFICATION:

SPECIFICATION – Section 13 916 Fire-Suppression Sprinklers

All buildings, 1, 2, 3, and 4 as shown on the code plans are to be sprinklered.

Building #4, (rooms M168, M169, and M170) is to be a dry single interlock sprinkler system due to the spaces being unheated.

The spray booth and mixing room are to be considered hazardous spaces as per NFPA.

The interior of the freezer in room M143 is not required to be sprinklered.

The hydraulic pump room, M134A, is to be sprinklered and considered as ordinary hazard, group 1.

ITEM AD2-M03

ADDITION:

SPECIFICATION – Section 13 966 Clean Agent Fire Extinguishing Systems

FM-200 fire suppression agent shall be considered an equal to ECARO-25 system specified. All specified requirements for the ECARO system still apply to the FM-200 system.

ITEM AD2-M04

REVISION:

SPECIFICATION – Section 15 083 Pipe Insulation

On the chilled water piping increase the thickness of insulation on 6" and larger piping to 2", piping under 6" to have 1-1/2" insulation.

ITEM AD2-M05

ADDITION:

SPECIFICATION – Sections 15 181, 15 411, and 15 481

Hydronic piping, domestic water distribution piping, and compressed air piping 2" and smaller, Viega Propress copper piping and fittings are acceptable.

ITEM AD2-M06

ADDITION:

SPECIFICATION – Section 15 214 Argon Piping

See attached specification section for argon piping.

ITEM AD2-M07

CLARIFICATION:

SPECIFICATION – Sections 15 212, 15 213, and 15 214

Certification of specified inspections for vacuum piping, oxygen piping, and argon piping can be performed and documented by the M.C.. 'Med Gas' certification is not required.

ITEM AD2-M08

ADDITION:

SPECIFICATION – Section 15 820 Duct Accessories
DUCT SILENCERS:

General: Factory-fabricated and -tested, round or rectangular silencer with performance characteristics and physical requirements as indicated.

Fire Performance: Adhesives, sealers, packing materials, and accessory materials shall have fire ratings not exceeding 25 for flame spread and 50 for smoke developed when tested according to ASTM E 84.

Rectangular Units: Fabricate casings with a minimum of 0.034-inch- (0.85-mm) thick, solid sheet metal for outer casing and 0.022-inch- (0.55-mm) thick, perforated sheet metal for inner casing.

Round Units: Casings with sheet metal thicknesses for diameters listed below:

- A. Up to 24 Inches (600 mm): 0.034 inch (0.85 mm).
- B. 26 through 40 Inches (660 through 1000 mm): 0.040 inch (1.0 mm).
- C. 42 through 52 Inches (1060 through 1300 mm): 0.052 inch (1.3 mm).
- D. 54 through 60 Inches (1370 through 1500 mm): 0.064 inch (1.62 mm).
- E. Casings fabricated of spiral lock-seam duct may be one size thinner than that indicated.
- F. Interior Partitions and Baffles: At least 0.034 inch (0.85 mm) and designed for minimum aerodynamic losses.

Sheet Metal Perforations: 1/8-inch (3-mm) diameter for inner casing and baffle sheet metal.

Fibrous Acoustic-Fill Material: Inert and vermin-proof fibrous material, packed under not less than 5 percent compression.

Fabricate silencers to form rigid units that will not pulsate, vibrate, rattle, or otherwise react to system pressure variations.

- A. Do not use nuts, bolts, and sheet metal screws for unit assemblies.
- B. Lock form and seal or continuously weld joints.
- C. Suspended Units: Factory-installed suspension hooks or lugs attached to frame in quantities and spaced to prevent deflection or distortion.
- D. Reinforcement: Cross or trapeze angles for rigid suspension.

Source Quality Control: Perform the following factory tests:

- A. Acoustic Performance: Test according to ASTM E 477, with airflow in both directions through silencer.
- B. Record acoustic ratings, including dynamic insertion loss and self-noise power levels, for both forward flow (air and noise in same direction) and reverse flow (air and noise in opposite directions) with an airflow of at least 2000-fpm (10-m/s) face velocity.
- C. Leak Test: Test units for airtightness at 200 percent of associated fan static pressure or 6-inch wg (1500-Pa) static pressure, whichever is greater.

Acceptable Manufacturer's:

- A. IAC.
- B. Vibro-Acoustics.
- C. Ruskin.

- ITEM AD2-M09** SPECIFICATION – Section 15 863 Dust Collectors
ADDITION: Manufacturer to provide explosion vents on all dust collectors.
- ITEM AD2-M10** PLAN SHEETS M2.1 and M2.7 – Manufacturing and Service Buildings HVAC
ADDITION: Per Plan Notes, Vентаire is considered an equal for the flex arm air extractors.
- ITEM AD2-M11** PLAN SHEETS M2.6 – Floor Plan 'F' Commons HVAC
REVISION: In room C100, along the west wall south of the entry doors change the diffuser call-out to Type L, 48x10, 487 cfm each. Delete the call-out for the 16'x4" and the 12'x6".
- ITEM AD2-M12** PLAN SHEET M3.17 – Floor Plan 'A' Manufacturing Building Plumbing
ADDITION: In room M131 add an acetylene piping loop to serve all the welding booths. Loop to be similar to the Oxygen and Argon piping loops. See attached sheet, M5.
- ITEM AD2-M13** PLAN SHEET M3.17 – Floor Plan 'A' Manufacturing Building Plumbing
ADDITION: In room M130 add two 2" sanitary waste risers up to the penthouse level for drains next to each vacuum pump. See attached sheet, M7.
- ITEM AD2-M14** PLAN SHEET M3.17 – Floor Plan 'A' Manufacturing Building Plumbing
ADDITION: Add RPZ backflow preventor in make-up water to glycol feed tank, chilled water system, and heating water system. ¾" Water meter to be provided. See attached sheet, M9.
- ITEM AD2-M15** PLAN SHEET M3.23 – Floor Plan 'G' Service Building Plumbing
ADDITION: In room S125 add an acetylene piping loop to serve all the welding booths. Loop to be similar to the Oxygen and Argon piping loops. See attached sheet, M4.
- ITEM AD2-M16** PLAN SHEET M3.25 – Floor Plan 'J' Service Building Plumbing
ADDITION: Add RPZ backflow preventor in make-up water to glycol feed tank, chilled water system, and heating water system. ¾" Water meter to be provided. See attached sheet, M6.
- ITEM AD2-M17** PLAN SHEET M3.26 – Floor Plan 'K' Manufacturing Building Plumbing
ADDITION: In room M230 provide drains next to each vacuum pump. Provide vents through roof and trap primers to each drain. See attached sheet, M8.
- ITEM AD2-M18** PLAN SHEET M6.1 – Mechanical Details
REVISION: On the Pipe Stand Detail change the minimum clear height requirement from 12'-0" to 9'-0".
- ITEM AD2-M19** PLAN SHEET M6.5 – Mechanical Details
ADDITION: Acetylene drops are to be the same as the Argon and Oxygen drops as shown per the detail.
- ITEM AD2-M20** PLAN SHEET M6.6 – Mechanical Details
CLARIFICATION: On the details change the title of the "Grinding Table" to "Downdraft Table". The downdraft table is Owner provided and the M.C. is to field fabricate the enclosure under the table.
- Change the title of the "Welding Table" to "Grinding Table," table and associated ductwork is to be fabricated and provided by the M.C..

ITEM AD2-M21 PLAN SHEET M6.7 – Mechanical Details
REVISION: The backflow preventors shown on the chilled water and heating water schematics for make-up water are to be reduced pressure backflow preventors (RPZ). Change the size to 1”.

ITEM AD2-M22 PLAN SHEET M6.8 – Mechanical Schedules
REVISION: See attached sheet for Fluid Cooler Schedule.

ITEM AD2-M23 PLAN SHEET M6.10 – Mechanical Schedules
REVISION: See attached sheet for Humidifier Schedule.

ELECTRICAL:

ITEM AD2-E01 PLAN SHEET E11.3
CLARIFICATION: Panel 'LHDB' is scheduled on sheet E32.6 which indicates size.

ITEM AD2-E02 PLAN SHEET E11.1 - Riser Diagram
REVISION: Panel 'M201LP' should read M201P.

ITEM AD2-E03 PLAN SHEET E11.2 - Riser Diagram
REVISION: Panel 'M169P' should read M107P.

ITEM AD2-E04 SPECIFICATION
CLARIFICATION:

- a. A/C cable is not allowed on project unless used as a manufactured whip supplied with lighting fixtures.
- b. Contractor is providing all phone and data cables including (2) optic fibers between each equipment room (4 strands).
- c. All data racks and patch panels will be provided by owner's data equipment installers.
- d. Cables for phone/ data to be plenum rated.
- e. Phone/data cables by Mohawk / Burtek with approved connectors will be approved.
- f. Metering for all main switches shall be equal to SQ "D" 820 Series.
- g. Conduits for security at classroom doors are empty rough-in conduit, no cable required at this time.
- h. Other gear manufacturers having systems similar to SQ "D" Powerlink for lighting control will be approved by the engineer.
- i. Disconnect switches on bus duct and disconnect switch located at equipment 3 phase, 4 wire shall be 208 volt rated disconnect switches.
- j. Plan notes 1 and 2 on power drawings indicate to provide 100 amp receptacle or 60 amp receptacle on connections to equipment. These connections are subject to change based on equipment supplied by owner. Price a NEMA 100 amp 4 wire Pin and Sleeve receptacle for 100 amp locations and a NEMA 60 amp 4 wire Pin and

Sleeve receptacle for 60 amp locations. These outlets shall not be purchased until all equipment items are identified prior to final connections.

k. Access control equipment will be sized to handle all doors where indicated, however not all doors will be connected at this time. Some doors will require only rough-in conduits. Conduits will be installed to above accessible ceilings and cable routed to cable tray. In areas where there is no ceiling – cables to be in conduit to cable trays.

ITEM AD2-E05**CLARIFICATION:****FIXTURE SUBMITTALS PACKAGE BY COOPER PRODUCTS**

For this project the only accepted fixtures submitted were "M" "L". All other fixtures were reviewed for compliance to specified products and found not to be acceptable due to similarity to specified product, type of material with which it is constructed, orientation of lamp within fixture or light output.

ITEM AD2-E06**CLARIFICATION:****SPECIFICATIONS**

Generators by Generac with single generator and meeting all of the specifications will be accepted.

ITEM AD2-E07**ADD:****SPECIFICATIONS, 16 490, Static Uninterruptible Power Supply System**

Add the attached Specification 16 490.

ITEM AD2-E08**REPLACE or ADD:****ELECTRICAL DRAWINGS,**

Replace or Add the following attached electrical drawing sheets: E10.0, E11.0, E11.1, E11.1a, E11.2, E11.3, E11.4, E21.1a, E22.2a, E22.3a, E22.3b, E22.4a, E22.5a, E22.6, E22.7a, E22.9a, E22.9b, E22.12a, E22.14a, E22.15a, E22.16a, E22.16b, E31.1, E32.1, E32.2, E32.3, E32.4, E32.5, E32.6, E32.7, E32.8, E32.9, E32.12, E32.14a, E32.15, E32.16, E41.1a, E42.12a, E42.14a, E52.6a, E52.7a, E52.7b, E52.8a, E52.12a, E52.14a, E62.2a, E62.6a, E62.9a, E62.12a and E62.14a.

END OF ADDENDUM #2