

Project Name: UNIVERSITY OF CALIFORNIA, MERCED
HOUSING 4: THE SUMMITS
BID RELEASE 2

Project No.: 906270

ADDENDUM NO. 5
to the
CONTRACT DOCUMENTS
December 2, 2011

- I. Bidder acknowledges that it is Bidder's responsibility to ascertain whether any Addenda have been issued and if so, to obtain copies of such Addenda as stated in the Advertisement for Bids, page 1. Bidder therefore agrees to be bound by all Addenda that have been issued for this Bid.

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents (Bid Release 2) and consists of 2 pages (plus attachment). The following changes, additions, or deletions shall be made to the following documents as indicated, and all other conditions shall remain the same.

II. CLARIFICATIONS

A. PRE-BID QUESTIONS – Questions received from bidders and responses are as follows:

1. Q. Addendum 4 Section 274116: 1.2 B 3, Revised Specifications state: ("OFE" refers to Owner Furnished Equipment. Provide for removal, relocation and testing prior to installation.) Is this new or used equipment and does the OFE equipment require removal from an existing location?
 - A. Section 27 41 16, paragraph 1.2.B.3: **DELETE** "Provide for removal, relocation and testing prior to installation." Assume new OFE.
2. Q. Addendum 4 Section 274116: 1.2 C 6, Revised Specifications state: (Provide one year warranty.) If this is existing out of warranty OFE equipment are we to provide a warranty on the OFE equipment or just the cable and labor installation?
 - A. Provide warranty for cable and labor work.
3. Q. Addendum 4 Section 274116: 1.5, Revised Specifications state: (Owner Furnished Equipment List.) Touch Panel and Master controller do not match between Manufacturer and model numbers. The Manufacturer is listed as AMX and the Model numbers are Crestron model numbers not AMX.
 - A. Manufacturer is AMX model Modero line.

4. Q. Addendum 4 Section 274116: In the revised specifications it looks as though control system programming was removed from the requirements. Is the control system programming existing or being provided by owner. There are required system functional and testing requirements that requires the system to be programmed to accomplish.
- A. Provide functional testing and demonstration of acceptability of cable installation. Campus wide controls are University provided. Local control and touch panel programming should be provided by the contractor utilizing templates and interface schematics provided by the University.

III. BIDDING/CONTRACT DOCUMENTS AND DIVISION 1 SPECIFICATIONS - VOLUME 1 OF 2

1. Specification Section 01 73 23 Supporting From Building Structure: **ADD** this section, attached to this Addendum.

IV. DIVISIONS 2 – 33 SPECIFICATIONS – VOLUME 2 OF 2

1. Specification Section 27 41 16 Integrated Audio-Video Systems: **REVISE** paragraph 1.2.B.3 to read as follows:
3. The term "OFE" refers to Owner Furnished Equipment. ~~Provide for removal, relocation and testing prior to installation.~~ Coordinate the integration of existing components or new components, provided by the Owner into the audiovisual system. Provide required mounting hardware, rack panels, cable, connectors, etc. to ensure proper operation of the OFE systems as specified.

V. DRAWINGS

No modifications made.

UNIVERSITY OF CALIFORNIA, MERCED

By: **ProWest Constructors**
Construction Manager / University's Representative's Consultant



Earl Rush
Vice President Preconstruction

Enclosures:
Section 01 73 23 Supporting From Building Structure

END OF ADDENDUM NO. 5 - BID RELEASE 2

SECTION 01 73 23
SUPPORTING FROM BUILDING STRUCTURE

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This Section provides guidelines and limitations all bracing, anchorage and seismic restraints for supporting all mechanical, electrical, plumbing, audio-visual or architectural items from the building structure.
- B. The Prime Trade Contractor shall design and install all support and bracing systems except as noted. The Prime Trade Contractor shall provide for attachment to portions of the building structure capable of bearing the loads imposed and shall design systems to not over stress the building structure.
- C. The Prime Trade Contractor is not required to design support and bracing for items that the Contract Documents provide specific attachment, support, and bracing.
- D. Seismic bracing is not required for the following items:
 - 1. Gas piping less than 1 inch inside diameter.
 - 2. Piping in boiler and mechanical equipment rooms less than 1.25 inches inside diameter.
 - 3. All other piping less than 2.5 inch inside diameter, unless racked together.
 - 4. All piping and duct suspended by individual hangers 12 inches or less in length.
 - 5. All rectangular air handling ducts less than 6 square feet in cross sectional area.
 - 6. All round air handling ducts less than 28 inches in diameter.
 - 7. All electrical conduits less than 2.5 inches inside diameter, unless racked together.

1.2 QUALITY ASSURANCE

- A. Design and install all support systems to comply with the Seismic Design Category D requirements of the 2007 California Building Code (CBC), Chapter 16 and ASCE 7-05, Chapter 13.
- B. For seismic bracing design use the services of a structural engineer licensed in California.
- C. For seismic bracing for mechanical, electrical and plumbing systems, refer to the Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA), "Guidelines for Seismic Restraints of Mechanical Systems and Plumbing Piping Systems" for guidelines.

1.3 SUBMITTALS

- A. Submit Shop Drawings for all substructures and attachment methods in accordance with Section 01 33 23 Shop Drawings, Product Data and Samples.
- B. Submit proposed alternative methods of attachment for review and approval by the University's Representative prior to deviating from the requirements given below.

- C. For all seismic bracing systems, submit structural calculations and details prepared and signed by the Prime Trade Contractor's licensed engineer that include all resultant forces applied to the building structure. Do not over stress building structure. Calculations will be reviewed for compliance with design criteria, not for arithmetic.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Furnish all substructures and fasteners required to comply with the limitations given below. Use materials as specified in the various Sections and as appropriate to the use.
- B. Channel framing systems: as required to meet Project design.
- C. All exterior materials: hot-dipped galvanized or stainless steel.

PART 3 - EXECUTION

3.1 SEISMIC BRACING

- A. In applying formulae (13.3-1), (13.3-2), (13.3-3) or (13.3-4) from Chapter 13 of ASCE 7-05 the following minimum values, unless otherwise required by ASCE 7-05, shall apply:

$$I_p = 1.0$$

$$S_{DS} = 0.48$$

- B. Design and install seismic bracing so as not to defeat the operation on any required vibration isolation or sound isolation devices.

END OF SECTION 01 73 23