April 10, 2009

Enclosed is ADDENDUM NO. 4 to the Construction Documents on the above-captioned project.

Bid date is Friday, April 17, 2009 at 2:30PM to be held at:

CONTRACTING SERVICES
Facilities Management, Bldg. 439,
Door #E, Reception Counter
University of California, Santa Barbara
Santa Barbara, CA 93106-1030.

Late arrivals shall be disqualified. Please allow time for unforeseen traffic delays, securing a parking permit and potential parking problems.

Anna Galanis
Director, Contracting Services
ADDENDUM NUMBER 4

To the

CONSTRUCTION DOCUMENTS

April 10, 2009

GENERAL

The following changes, additions or deletions shall be made to the following document(s) as indicated. All other conditions shall remain the same.

I SPECIFICATIONS

Item No.

1. Section 01500, Construction Facilities and Temporary Controls, PART 1-GENERAL; Add to read in its entirety:

“1.04. CONSTRUCTION FENCING

A. Fencing: Before beginning demolition and site clearing, erect temporary construction fence around entire perimeter of work site per the attached sketch SK-1, and maintain construction fence in good condition until removal is approved by University Representative.”

2. Section 01500, Construction Facilities and Temporary Controls; Add to read in its entirety:

“PART 2- PRODUCTS

2.01 CONSTRUCTION FENCE MATERIALS

A. General: Provide new materials.

B. For fences, safety barriers, noise and vision barriers, where appropriate or required, provide 5/8 inch thick minimum exterior type plywood 6 feet high; or 11 gage galvanized 2 inch open mesh chain link fencing 6 feet high with galvanized steel pipe posts, 1 ½ inch I.D. for line posts and 2 ½ inch I.D. for corner posts.

1. Where plywood fencing is used, paint all exterior surfaces a green color as selected by the University Representative.
2. Where chain link is used, cover fencing with green plastic fabric, color as approved by University Representative. Securely fasten fabric to fencing and maintain in a satisfactory condition as determined solely by the University Representative.

   a. Fabric: 5.2 oz./sq yd and 80% shade.


3. Section 01565, Hazardous Material Procedures, PART 1-GENERAL, Para. 1.01B; Change to read in its entirety:

   “B. Lead-based Paint. There is no known lead-based paint in the specific project area. In the event it is encountered the Contractor shall take whatever necessary steps he/she deem necessary to comply with 29 Code of Federal Regulations, Part 1926.62 and Title 8, Code of California Regulations, Section 1532.1, pertaining to environmental and workers protection, and lead abatement methods and procedures.”

4. Section 02222, Trenching, Backfilling and Compacting for Utilities, PART 1-GENERAL, 1.03 Submittals; Add to read in its entirety:

   “E. If boring is proposed for portions of utility installation, submit proposed methodology for University approval before construction.”

5. Section 13120, Greenhouse, PART 1-GENERAL, 1.01 Work Included, Para. 1.01.B; Change to read in its entirety:

   “B. Base bid shall include complete project, including but not limited to complete outfitting of greenhouse Module #1, except for that work specifically included in Alternates #1 and #2. Alternate #1 generally consists of the outfitting of greenhouse Module #2. Alternate #2 generally consists of the outfitting of greenhouse Module #3. Note in general that all electrical work for all three modules is included in base bid. Refer to drawings for further description of scopes of alternate bids.”

6. Section 13120, Greenhouse, PART 2- PRODUCTS, 2.11 Evaporative Cooling Pad System; Add to read in its entirety:

   “G. Drop Sash Wall: Motorized for automatic opening. Include complete, motorized drop sash wall in Base Bid for Modules 1, 2 and 3.”
7. Section 13800, Greenhouse Environmental Control System, 1.02 Work Included; Add to read in its entirety:

“In order to achieve connection to campus Metasys System, provide ¾” conduit with twisted shielded pair wire from greenhouse environmental control panel to Johnson Controls panel located on east wall in Noble Hall, Room 1269. [Room 1269 is the room just west of the room to which the standby power connection is being run.] Contractor shall provide a dry set of contacts programmed for an alarm condition. University will terminate and program input to Johnson system.

8. Section 13800, Greenhouse Environmental Control System, 2.09 Sequence of Environmental Control Operations, B Cooling, Para. 2.09.B.4; Change first sentence to read in its entirety:

“4. If the temperature rises above the set point, the exterior drop sash wall vents shall open automatically and the exhaust fans started.”

9. Section 16400, Distribution, PART 2-PRODUCTS, 2.02 Distribution Panel Boards, Para. 2.02.1; Delete Subparagraph 2.02.1, (Integral Transient voltage Surge Suppresser TVSS), in its entirety.

II. DRAWINGS

Item No.

1. On all Drawings change project number from FM090158S to FM090158S/981530

2. Title Sheet, ALTERNATE BID SUMMARY, Alternate Bid #1 Module 2 AND Alternate Bid#2 Module 3. Change first bullet to read in its entirety:

“COOLING PADS (COMPLETE, MOTORIZED DROP SASH WALL INCLUDED IN BASE BID)”

3. Title Sheet, ALTERNATE BID SUMMARY, Alternate Bid #1 Module 2 AND Alternate Bid#2 Module 3. Delete eighth bullet point in its entirety

“(19) GROW LIGHTS – ROUGH-IN ONLY”. [Note that rough-in for grow lights, including sockets, is included in Base Bid.]

4. Sheet C1.1, SITE TOPOGRAPHIC MAP, At northeasterly corner of existing Lath House (Bldg 540). Add note to read,

“Protect existing water riser in place.”

5. Sheet A2.1, FLOOR PLAN, Module 2 Alternate #1 AND Module 3 Alternate #2. Change first bullet to read in its entirety:
“COOLING PADS (COMPLETE, MOTORIZED DROP SASH WALL INCLUDED IN BASE BID)”

6. **Sheet A2.1, FLOOR PLAN, Module 2 Alternate #1 AND Module 3 Alternate #2. Delete**
   eighth bullet point in its entirety:
   
   “(19) GROW LIGHTS – ROUGH-IN ONLY”. [Note that rough-in for grow lights, including sockets, is included in Base Bid.]

7. **Sheet A3.1, EXTERIOR ELEVATIONS AND SECTIONS, #1 SECTION. Change**
   note pointing to gro-light to read in its entirety:
   
   “GROW-LIGHT ROUGH IN MOUNTED TO UNISTRUT SPANNING BETWEEN TRUSSES. INCLUDE ALL REQ’D UNISTRUT IN BASE BID.”

8. **Sheet MP0.1, MECHANICAL SYMBOLS AND ABBREVIATIONS, Plumbing Fixture Schedule. Change**
   EW-1 make and model to read in its entirety:
   
   “Bradley Model S19-430EFW”

9. **Sheet E0.1, ELECTRICAL SYMBOLS. Replace** in its entirety with attached drawing E0.1, dated 04/10/2009.

10. **Sheet E1.0, SITE PLAN ELECTRICAL. Replace** in its entirety with attached drawing E1.0 dated 04/10/2009

11. **Sheet E1.0, SITE PLAN ELECTRICAL. (This note is in addition to the drawing revisions reflected in the revised Drawing E1.0, dated 04/10/2009.) Add** the following note in its entirety:

    "At Contractor's Option, University will allow an alternate route for the new conduit/conductor run from the MSA in Noble Hall to the new emergency panel EP. Starting from the MSA in Noble Hall, once conduit has exited Noble Hall, it may proceed west, above grade, on the surface of the concrete wall north of Noble Hall, parallel to other existing conduits. Then the conduit may continue north on the exterior wall surface of Pharmacology Building 569 clear to the NE corner of Building 569. Then route underground from there to emergency panel EP at east end of Headhouse. All above grade conduit shall be rigid metal and not EMT (even if existing conduits are EMT). Submit exact details of this alternate routing for final University approval."

12. **Sheet E2.1, TYPICAL FLOOR PLAN PHOTOMETRIC AND ELECTRICAL FLOOR PLAN. Replace** in its entirety with attached drawing E2.1 dated 04/10/2009.
III. CLARIFICATIONS

Item No.
1. Sheet C1.2, GRADING & DRAINAGE PLAN. Clarification: The existing electrical conduit that passes diagonally through the footprint of the new greenhouse is a 2” conduit that ranges in depth from 22” to 33” below existing grade. This electrical line shall remain in place and in service throughout the duration of construction. Modify excavation, scarification, backfill and compaction methods in immediate proximity of conduit as required to protect conduit. If and where conduit intrudes into profile of new footings, refer to drawing Detail 1/S.

SKETCHES
SK-1 LIMITS OF CONSTRUCTION FENCING, Dated 04/09/2009, attached.

END OF ADDENDUM NO. 4
1 TYPICAL FLOOR PLAN - PHOTOMETRIC

2 TYPICAL FLOOR PLAN - ELECTRICAL

GENERAL SHEET NOTES

A. ELECTRICAL AND LOW-VOLTAGE INSTALLATION FOR LIGHTING AND COMMUNICATIONS IN THE SANTA BARBARA RESEARCH GREENHOUSE IS TO BE PERFORMED BY AT THE CONSTRUCTION CONTRACTOR.

B. GREENHOUSES SHALL BE PROVIDED WITH LOCATION.

SHEET KEYNOTES

1. ROUTE 2" CONDUIT TO WALL MOUNTED SITE BOX, 1" CONDUIT FROM WALL MOUNTED SITE BOX TO EACH TELEPHONE OUTLET BOXES.

2. DO NOT INSTALL THIS OUTLET FOR ADDITIVE.

3. E2.1

4. DRAWING NO. 544-10

5. UNIVERSITY OF CALIFORNIA SANTA BARBARA

6. RESEARCH GREENHOUSE

7. SANTA BARBARA, CA

8. CONS. PROJECT NUMBER: R000011130

9. INTERFACES ENGINEERING

10. 2902 Colorado St.

11. Santa Barbara, CA 93105

12. Tel: (805) 962-5496

13. Fax: (805) 962-5497

14. Website: www.interfaceengineering.com

15. E2.1