

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

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SANTA BARBARA • SANTA CRUZ

OFFICE OF DESIGN & CONSTRUCTION SERVICES and PHYSICAL FACILITIES

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SENT VIA: FAX ON THIS DATE
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HOLDERS OF PLANS AND SPECIFICATIONS:

Ocean Science Education Building – Phase I
Project No. FM090295L/981220
Addendum No. Two

November 30, 2009

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

Bid date is **Thursday, December 3, 2009 at 2:30 P.M.** 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 2
to the
CONSTRUCTION DOCUMENTS

November 30, 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 08758, Skylight Operators, REPLACE in it's entirety with Revised Section 08758, Skylight Operators, Revised per Addendum Two, 3 pages, attached.

END OF ADDENDUM NO. 1

SECTION 08758SKYLIGHT OPERATORSPART 1 - GENERAL

1.01 DESCRIPTION

- A. This Section describes the requirements for furnishing and installing motorized skylight operators on operable skylights.
- B. Related Sections:
 - 1. Metal-framed skylights are specified in Section 08620.
 - 2. Heating, ventilating is specified in Division 15.
 - 3. Electrical is specified in Division 16.

1.02 SUBMITTALS

- A. Product Data: Furnish product data for each type of skylight operator showing manufacturer's standard details and fabrication methods, data on finishing, and accessories, and recommendations for maintenance.
- B. Shop Drawings: Furnish shop drawings for each type of skylight operator showing layout and installation details, including relationship to adjacent work, elevations at 1/4-inch scale, detail sections of typical composite members, anchors and reinforcement, and mounting locations. Reference architectural, mechanical and electrical drawings, schedules and details. Use numbering system to identify each skylight to receive motorized skylight operator.

1.03 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: A minimum of 5-years experience in the manufacture of skylight operators of the types specified.
- B. Installer's Qualifications: Minimum 5-years experience in the installation of skylight operators similar to those required.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver skylight operator components in the manufacturer's original protective packaging.
- B. Store components in a clean, dry location away from uncured masonry or concrete. Cover components with waterproof paper, tarpaulin or polyethylene sheeting in a manner to permit circulation of air.

1.05 WARRANTY

- A. Furnish to University a written guarantee for stainless steel cables and connectors against all defects in materials and workmanship, including against faulty operation and deterioration of metals, metal finishes and other materials beyond normal weathering, for 3 years from date of acceptance. Refer to Section 01740, GUARANTEES, WARRANTIES, BONDS, SERVICE & MAINTENANCE CONTRACTS, for submittal form.

PART 2 - PRODUCTS**2.01 APPROVED MANUFACTURER**

- A. Control Systems (UCS) "Quasar Motor" electric chain actuator, DC operation or equal.

2.02 MATERIALS AND FABRICATION

- A. Electric chain actuator with stainless steel chain and pivots; self-adjusts to close tight. Pivoting brackets prevent the chain from bending.
1. Opening: 15-inches standard opening chain stroke.
 2. Dimensions: 1-1/4-inches high x 1-7/8-inches wide x 26-1/4-inches long.
 3. Force: 66-pounds in push and pull action.
 4. Speed: Approximately 0.6-inch per second.
 5. Control Panel: UCS "CRM3 Control Panel for DC" or equal. Provide one for each group of skylights.
 6. Power Supply: Provide UCS "40894E" or equal power supply for 24 VDC motors, 20-amp. Provide a total of four power supplies.
 7. Refer to mechanical drawings for groupings and wiring.
- B. Skylight operators shall open and close skylights for HVAC control. Operators shall be listed by UL as UL rated.
- C. Operating voltage shall be 24 VDC.
- E. Provide multiple operators on wide skylights if recommended by manufacturer. Provide miscellaneous support brackets and angles for mounting of operators as required.
- G. Electronic components shall be enclosed inside a watertight plastic box.
- H. Provide aluminum brackets is required for installation of skylight operators. Show location of brackets on shop drawings. Finish to match skylight framing.
- I. Conductors and conduits shall be concealed in skylight frame to the greatest extent possible. Where exposed, paint to match finish of curtain wall. Provide escutcheons as required.
- K. Electric Actuators:-Provide UCS "SW5657-2W" or equal momentary contact switch. Provide one switch for each grouping of skylights (total of 4). Refer to mechanical drawings for locations and wiring.
- L. Provide one rain detector, and one wind detector to control all skylight groupings. Rain sensor RS rain Sensor part number 40450K by UCS, or equal, no know equal. Wind Sensor WS Wind detector part No. 37185V by UCS, or equal, no know equal.

PART 3 - EXECUTION**3.01 INSTALLATION**

- A. Install skylight operators in accordance with manufacturer's instructions and UL requirements.

- B. Coordinate routing of conductors in, through and around skylight framing.

3.02 ADJUSTING

- A. Adjust skylight operators to function properly for smooth operation without binding, and to prevent tight fit at contact points and weatherstripping.
- B. Make adjustments as required.

3.03 CLEANING

- A. Clean the completed system, inside and out, promptly after installation, exercising care to avoid damage to coatings.

3.04 PROTECTION

- A. Institute protective measures as required throughout the remainder of the construction period to ensure that skylight operators will be without damage or deterioration, other than normal weathering, at time of acceptance.

END OF SECTION