

## **ADDENDUM #1**

### **Re-bid #10-10**

# **PHOTOVOLTAIC INSTALLATION AND FOUR SCHOOL FACILITIES EAST HAVEN, CT**

Hibbard & Rosa Architects, L.L.C.  
Middletown, Connecticut

The following changes, revisions, and/or additions are hereby made a part of the Contract Documents and shall supersede previously issued documents and shall become a part of the contract documents.

Date: March 3, 2010

#### Information to Bidders:

The Garland Company, through its subsidiary Design Build Solutions, will general contract all related roof work, project oversight and infrared scanning requirements necessary to complete the project and comply with Town of East Haven twenty-five (25) year roof warranty. Please contact the Garland Company representative, Tim Mulcahy at (860) 798-4095 for purposes of bid preparation.

#### Information to Bidders:

The United Illuminating Company (UI”) will require a separate solar PV disconnect to be located on an accessible area outside the building and preferably located near the electrical service entrance of the building. Bidders are encouraged to contact The United Illuminating Company prior to their bid submission to comply with UI’s interconnection requirements and application submittals.

#### Information to Bidders:

Schuco 180 Watt panels currently have limited availability. The Schuco panel alternate is the crystalline PS 04 220 Watt panel. Please contact the Schuco representative, Alex Fox at (860) 305-0835 for purposes of bid preparation. The Town of East Haven and the Architect have specified Schuco crystalline panels, SMA inverters, and the Schuco self-ballasting aluminum racking system. The equipment specifications were based upon a number of critical decision factors. These include; (1) Schuco’s corporate presence in Connecticut including customer service and technical support, and (2) product warranty support and product availability during the warranty period. SMA inverters have been specified based upon product support and integration with Schuco. All Schuco

equipment has been reviewed by roof manufacturer's engineers and pre-approved for installation on new roofs.

No alternate manufacturers will be accepted. Schuco panel wattages may change due to production availability.

#### Information to Bidders:

The Schuco Solar EZ FlatRoof racking system has been specified and preapproved by the roof manufacturer for use. The Town has received permission from the Connecticut Clean Energy Fund to install racking at a 15° racking angle and a 7.5° angle so bidders will have the flexibility to install at either angle. Bidders shall comply with ballast rating requirements as specified in the attached appendices. The East Haven Schools are located in the 110 mile per hour zone and are classified as Exposure B geographic zone. Please note, roof penetrations and anchoring of the racking system will be necessary and must be incorporated into the bidder's installation design to meet wind load requirements and roof weight requirements. Bidders should refer to the Schuco EZ FlatRoof PV Mounting System installation manual for installation, ballast, and operating instructions. Final engineering designs must be approved by the roof manufacturer prior to construction.

#### Information to Bidders:

Bidders must provide a general engineering scope of work to be performed as part of their bid submittal for the installation of roofing components as outlined in Sections 2.3 and 3.2 of the bid specification document as well as the installation of the solar PV system. The general engineering scope should articulate the bidders overall design of the solar PV system, how the bidder will manage the installation of roofing components as necessary to meet roof manufacturer requirements, a general outline of the installation of the solar PV system including; (1) installation of the racking and panels, (2) wiring and string sizing design, (3) location of combiner boxes, (4) location and installation of inverters and connection to building electrical panel(s), and (5) location and design of utility disconnect. Selected bidder will be required to submit final stamped engineering drawings of the installed systems. Drawings must be submitted to the Town Engineer, the architect, Connecticut Clean Energy Fund, The United Illuminating Company, and the Roof Manufacturer.

#### Information to Bidders:

Bidders should prepare their bids to include investments necessary for the schools to receive a fully functional and warranted system as specified in the bid documents. If the school requires additional upgrades or installation of new electrical distribution panel(s) for use as a tie in to the solar PV system then those associated costs should be included in the bid response. Evaluations of bid responses will include the thorough nature and completeness of the bidder's evaluation of each school project design requirements and inclusions. The Town of East Haven understands and recognizes that the schools are in excess of thirty (30) years old and that the electrical distribution equipment may require

additional maintenance, upgrade or expansion in order to comply with the installation and integration of the solar PV system(s). These associated requirements, costs, and work should be incorporated into the bidder's response.

Information to Bidders:

Bidders must contact the roof manufacturer and submit resumes and qualifications of the superintendent or foreman that will be the onsite project coordinator during the installation of the solar panels and racking system being installed on the new roofs. Bidders must also provide evidence that they have an in-house electrician with an E-1 license that will be performing all electrical tie-ins with regard to the solar PV system. Copies of the electrical license must be submitted as part of the bidder's submission package.

Information to Bidders:

Manufacturer's data sheets are attached.

**Specifications:**

Specification Section; Supplemental Instruction to Bidders for AIA Document A701; Delete paragraph 6.1.1 of Article 6 and insert the following:

Paragraph 6.1.1 of Article 6 shall be supplemented by the following statement:

1. All bidders shall list two (2) completed government / institutional accounts meeting the following criteria:
  - Project involves the installation of roof top mounted crystalline panel photovoltaic system in excess of 20.00 KW.
  - Project involves photovoltaic (crystalline panel) installation of 20.00 KW or greater on a roof of a government or institutional facility.

**END OF ADDENDUM #1**