



Schenectady County
Purchasing Department

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ADDENDUM

RFB-2022-17
SCCC – ELSTON HALL #4, #6 & CST #38, #39, #40, #41 ROOFS
C2 DESIGN GROUP

ADDENDUM #2

Issued Date: 04/6/2022

The purpose of this addendum is to provide detailed information to all Bidders. This addendum is hereby included in and made part of the Contract Documents, whether or not attached thereto. Receipt of this Addendum must be acknowledged on the bid form.

CONTENTS/RESPONSE TO QUESTIONS/REFERENCE TO ATTACHMENTS

- **00-01-10 Table of Contents: Revisions for project Alternates (Add Alternate #1)**
- **00-04-01 Bid Form: Revision of Contractors Bid form (Add Alternate #1)**
- **01-23-00 Alternates: Add Alternate #1 (CST Roof #38 access ladder)**
- **07-72-47 Specification: ROOF ACCESS LADDERS (Add Alternate #1 referenced scope of work.)**
- **#RFB-2022-17 Pre-bid Walk through (3/29/2022): Attended Contractor list**

Question 1:

Roof #4: Is the new roof insulation tapered 1/4" per foot or is the roof deck structurally sloped?

Response:

Based on test cuts into roof #4 the structural deck below is assumed flat, not sloped and the existing insulation is tapered. The new insulation system can be tapered 1/8" (minimum) to 1/4" per foot.

Reference:

00-07-10 Minority and Women Owned Business Utilization: Projects in excess of \$200,000 subject to Affirmative Action performance targets. (See Specifications.)

*Schenectady County Contact: **Nikita Hardy, MPA Affirmative Action Manager**
620 State Street, 2nd Floor, Schenectady, NY 12305
Phone: 518-388-4233 ext.4171*

Please acknowledge this addendum on your bid form.

END OF ADDENDUM #2



DIVISION 06 – WOOD, PLASTICS AND COMPOSITES

06 10 53 Miscellaneous Rough Carpentry

Division 7 – THERMAL AND MOISTURE PROTECTION

07 01 50.19 Preparation for Re-roofing
 07 01 50.74 Rehabilitation of Single Ply Roofing
 07 52 16.13 SBS Modified Bituminous Membrane Roofing, Cold-Applied
 07 62 00 Sheet Metal Flashing and Trim
 07 71 00 Roof Specialties
 07 72 46 Roof Walkways
 07 72 47 Roof Access Ladders (Add Alternate #1)
 07 92 00 Joint Sealants

LIST of DRAWING SHEETS

General Drawings

G100 Cover Sheet
 G101 General Notes

Architectural Drawings

D100 Roof Demolition Plan – Elston Hall (Roofs 4 and 6)
 D101 Roof Demolition Plan - CST Building (Deduct Alternate #1)
 A100 Elston Hall Roof Plan
 A101 CST Roof Plan (Deduct Alternate #1)
 A600 Roof Details
 A601 Existing Photos

Project Moisture survey Report

Title Page Roof Diagnostic Survey for county of Schenectady: Schenectady Community College
 Sheet A Roof Sections & Moisture Survey
 Sheet B Roof Data Thermograms & Photos

INFORMATION FOR REFERENCE ONLY, NOT FOR CONSTRUCTION or BID

Report Asbestos Survey Report for limited Roof Sampling Roof #38 (PSI 9/30/2021)
 Report Asbestos Survey Report for limited Roof Sampling Roof #4,6,39,40 & 41 (PSI 10/26/2021)

END OF SECTION 00 01 10



Schenectady County Request for Bid
 SCCC - Elston Hall #4, #6 & CST #38, #39, #40, #41 Roofs
 RFB-2022-17
Bid Form: Contractor Bidder Name/Stamp: _____

Addendum #	Date

SCCC - ELSTON HALL #4, #6 & CST #38, #39, #40, #41 ROOFS: GENERAL CONSTRUCTION

\$ _____
 BASE BID TOTAL

(TOTAL WRITTEN AMOUNT)

Deduct Alternate: #1

Provide deduct costs from Base Bid associated to new and restoration work for CST Roofs #38, #39, #40, & #41. Include all Labor and Materials. See contract documents D101 and A101 for scope of work and detailed information.

\$ _____
 DEDUCT ALTERNATE: #1

(Deduct Alternate: #1 WRITTEN AMOUNT)

Add Alternate: #1

Provide new FRP Roof Access Ladder and Ladder cage for CST Roof #38, located at Stair landing below roof #38 existing access hatch. Include all costs for removal of existing ladder and installation of new. See Specification section 077247 for detailed requirements. The new ladder dimensions are 18" (wide) x approximately 12'+/- (high) with cage starting 7' above stair landing floor level.

\$ _____
 ADD ALTERNATE: #1

(Add Alternate: #1 WRITTEN AMOUNT)



Schenectady County Request for Bid
SCCC - Elston Hall #4, #6 & CST #38, #39, #40, #41 Roofs
RFB-2022-17
Bid Form: Contractor Bidder Name/Stamp: _____

Unit pricing:

Unit price per panel of FRP roof walkway (Yellow) with slip-resistant surface. Provide all rubber feet, panel connectors and other accessories and components required for complete installation of one (4'x8'x 1" thick) panel. See roof walk specification. (\$ per (1) panel) \$ _____

The following documents are attached to and made a part of this bid:

- a) Certified Copy of Resolution of Board of Directors
- b) Non-Collusion Bid Certification
- c) Iranian Divestment Form
- d) Disclosure of Prior Non-Responsibility Determinations
- e) Certification for the Prevention of Sexual Harassment
- f) Subcontractors Listing
- g) Bidder's Qualifications
- h) Apprenticeship Form (if required)
- i) MWBE Documents (if required)
- j) Bid Bond
- k) W-9

ALTERNATES
SECTION 01 23 00

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

Deduct Alternate #1: New and restoration work for CST Roofs #38, #39, #40, & #41.

Provide deduct costs from Base Bid associated to new and restoration work for CST Roofs #38, #39, #40, & #41. Include all Labor and Materials. See contract documents D101 and A101 for scope of work and detailed information.

Add Alternate #1: New FRP Roof Access Ladder and Ladder cage for CST Roof #38, located at Stair landing below roof #38 existing access hatch.

Provide all costs for removal of existing ladder and installation of new. See Specification section 077247 for detailed requirements. The new ladder dimensions are 18" (wide) x approximately 12'+/- (high) with cage starting 7' above stair landing floor level.

END OF SECTION 01 23 00

SECTION 077247 - ROOF ACCESS LADDERS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Fiberglass-reinforced plastic (FRP) ladders.
2. Ladder cages.

1.2 COORDINATION

- A. Coordinate installation of roof access ladders and related components that are anchored to or that receive other work. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

1.3 ACTION SUBMITTALS

A. Product Data: For the following:

1. FRP ladders and ladder cages.

- B. Shop Drawings: Show fabrication and installation details. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items. Provide Shop Drawings for the following:

1. FRP ladders and ladder cages.

- C. Delegated-Design Submittal: For ladder assemblies and ladder attachment anchors, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.4 CLOSEOUT SUBMITTALS

- A. Furnish operation and maintenance data for ladder safety accessories.
- B. Deliver attachment devices to Owner.

1.5 PROJECT / FIELD CONDITIONS

- A. Field Measurements: Verify actual locations of walls, floor slabs, decks, and other construction contiguous with ladder assemblies by field measurements before fabrication.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Engage a qualified professional engineer to design attachment anchors for ladder assemblies.
- B. Structural Performance of FRP Ladders: Ladders shall withstand the effects of loads and stresses within limits and under conditions specified in ANSI A14.3 and OSHA CFR 1910.23.
- C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes acting on exterior ladder assemblies by preventing buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.
 - 1. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

2.2 FASTENERS

- A. General: Unless otherwise indicated, provide Type 316 stainless steel fasteners for exterior use. Select fasteners for type, grade, and class required.
 - 1. Provide stainless steel fasteners for fastening ladders and ladder cages.
- B. Stainless Steel Bolts and Nuts: Regular hexagon-head annealed stainless steel bolts, ASTM F593/F593M; with hex nuts, ASTM F594/F594M; ; and, where indicated, flat washers; Alloy Group 2 (A2).
- C. Anchors, General: Capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing in accordance with ASTM E488/E488M, conducted by a qualified independent testing agency.
- D. Post-Installed Anchors: Torque-controlled expansion anchors or chemical anchors.
 - 1. Material for Exterior Locations and Where Stainless Steel Is Indicated: Alloy Group 2 (A2) stainless steel bolts, ASTM F593/F738M, and nuts, ASTM F594/F836M.

2.3 FABRICATION, GENERAL

- A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.
- B. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.

2.4 FRP LADDERS

A. General:

1. Fabricate ladders to comply with ANSI A14.3 and OSHA CFR 1910.23. Assemble with stainless steel fasteners.
2. Color: Yellow for primary FRP components. Manufacturer's standard for hardware and accessories.

B. FRP Ladders:

1. Basis of Design Product: Subject to requirements, provide Fibergrate Composite Structures Inc., Dynarail.
2. Space siderails 18 inches (457 mm) apart.
3. Siderails: Continuous, pultruded FRP 1-3/4 inch (45 mm) square tubes, 0.25 inch (6 mm).
4. Rungs: Pultruded FRP 1-1/4 inch (32 mm) diameter, with continuously fluted non-slip surface.
5. Fit rungs in centerline of siderails. Fasten rungs to siderails with stainless steel fasteners and chemically bond.

2.5 LADDER CAGES

A. General:

1. Fabricate ladder cages to comply with ANSI A14.3. Assemble with stainless steel fasteners.
2. Provide primary hoops at tops and bottoms of cages and spaced not more than 20 feet (6 m) o.c. Provide secondary intermediate hoops spaced not more than 48 inches (1200 mm) o.c. between primary hoops.
3. Fasten assembled safety cage to ladder rails and adjacent construction with stainless steel fasteners.

B. FRP Ladder Cages:

1. Hoops: 3 by 1/4-inch (76 by 6-mm) molded flat shapes.
2. Vertical Bars: 1-1/2 by 5/8-inch (38 by 16-mm) pultruded I-beam shapes.

2.6 LADDER SAFETY ACCESSORIES

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Fitting, and Placement: Perform fitting required for installing FRP fabrications. Set FRP fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.
- B. Fastening to In-Place Construction: Provide anchorage devices and fasteners where FRP fabrications are required to be fastened to in-place construction. Provide threaded fasteners for use with concrete and masonry inserts, toggle bolts, through bolts, lag screws, wood screws, and other connectors.
- C. Install ladder safety accessories in conformance with manufacturer's instructions and to assure safe operation of safety components in accordance with governing regulations and authorities having jurisdiction.
 - 1. Verify operation of installed safety devices.
 - 2. Upon request of the Owner, arrange for a qualified person, authorized by the manufacturer, to provide demonstration and instruction to the Owner for the proper use, operation and maintenance of safety devices.

END OF SECTION 077247

Contractor Sign in Sheet

Bid #RFB-2022-17

SCCC- ELSTON HALL #4, #6 & CST #38, #39, #40, #41 ROOFS
78 WASHINGTON AVE, SCHENECTADY, NY 12305

Pre-Bid Walk through

March 29, 2022 - 11:30 AM

Name	Business	Phone #	Email
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Daves Taylor	Midstate Industries Ltd.	518-374-1461	Info@midstatehhd.com
John [Signature]	Tremco	518-269-7260	John@tremco.com
PETER HAMILTON	TREMO	516-391-9952	phamilton@tremcoinc.com
Kristian Hoffman	Greenwood Ind	518 747 4141	KristianH@greenwood-industries.com
BOB FARRELL	TITAN ROOFING	518-235-1707	bfarrell@titanroofing.com
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