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January 31, 2020

PAULDING EXEMPTED VILLAGE SCHOOLS
Football Field Pressbox
Softball Field and Dugouts
Softball Field Observation Platform
Paulding, Ohio B8-4584 / B9-4650

ADDENDUM NO. 2

This Addendum becomes a part of the Contract Documents and modifies them only to the extent herein set forth. Each bidder is responsible for distribution of information conveyed by this Addendum to its subbidders and suppliers.

Attachments: Section 13 3416
Bid Question Log #1

ITEM NO. 1: Section 13 3416 – Grandstands and Bleachers

Add attached Section. Refer to Sheet C-102 (Softball Field and Dugouts) for locations.

ITEM NO. 2: Section 31 2000 – Earth Moving

Add paragraph 3.03.J: Boring: Maintain edge of boring pit minimum 5 feet from back of curb, or edge of pavement at locations without curb. Bore hole diameter 2 inches larger than conduit diameter.

1. Where boring work crosses existing utilities, expose existing utility to the installation depth of the boring at the crossing location. Where boring work parallels existing utilities, expose existing utility to the installation depth of the boring at the beginning and end of the boring.

ITEM NO. 3: Section 32 9200 – Lawns and Grass

Paragraph 2.01.D.1: Other suppliers may be used without a substitution request if the mix is submitted for approval prior to ordering.

ITEM NO. 4: Sheet C-102 – Site Layout Plan (Softball Field and Dugouts)

Revise Keynote 11 to read: Concrete Pavement, see details 7/C-102 and 8/C-102.

ITEM NO. 5: <u>Sheet C-103 – Site Grading and Utility Plan (Softball Field and Dugouts)</u>

Conduit size to relocated scoreboard shall be 1 inch.

ITEM NO. 6: <u>Sheet E-101 – Electrical Plans (Softball Field Observation Platform)</u>

New Panel P1 Schedule: Conduit and wire to scoreboard (circuits 1, 3) shall be 50G; field verify with existing scoreboard.

END OF ADDENDUM

SECTION 13 3416 – GRANDSTANDS AND BLEACHERS

PART 1 GENERAL

1.01 SUMMARY:

A. Section Includes: Pre-engineered bleachers.

B. Related Sections:
   1. Section 03 3000 – Cast-in-Place Concrete.

1.02 SYSTEM DESCRIPTION:

A. Structural Design Requirements:

1. Design system to support dead loads including accessories, and a uniformly distributed live load of minimum 120 psf of gross horizontal projection. Deflection shall not exceed the following criteria:
   a. Structural Framing: 1/240 of span.
   b. Decking, Platforms, Stairs, and Ramps: 1/360 of span.
2. Design seat boards for a live load of minimum 160 lb/ft.
3. Design foot boards for a live load of minimum 140 lb/ft.
4. Design seats to withstand a sway force of 24 lb/ft parallel to the seats and 10 lb/ft perpendicular to the seats, not simultaneously applied.
5. Design structure to withstand wind load and seismic load in accordance with applicable building code, minimum 30 psf wind load on projected surface.
6. Design railings, posts and sockets to withstand the following forces applied separately:
   a. Design handrails to resist a concentrated load of 200 lbs applied in any direction at any point, and a uniform load of 50 lb/ft applied in any direction, without damage or permanent set.
   b. Design guards to resist a concentrated load of 200 lbs applied in any direction at any point along the top railing member, and a uniform load of 50 lb/ft applied horizontally at the required guardrail height with simultaneous uniform load of 100 lb/ft applied vertically downward at the top of the guardrail, without damage or permanent set.
7. Design metal member sizes and connections in accordance with AISC, AISI and Aluminum Association (AA) design criteria.
8. Design structure for assembly and replacement of component parts using common hand tools. Welded frames and support structure do not meet this requirement.
9. Design foundations to withstand loads imposed by the structure, based on Structural Design Criteria indicated on Drawings.

B. Performance Requirements:

1. Walking Surface Slip Resistance: ASTM F1679; minimum 0.80 coefficient of friction in all directions of travel under wet conditions, after 225,000 simulated pedestrian impacts.

1.03 SUBMITTALS: In accordance with Section 01 3300.

A. Shop Drawings: Submit the number of sets required for plan approval. Indicate dimensions including riser height and row depth, anchorages, walkways, deck configuration, accessibility provisions, railings, framing member sizes, and accessories.
   1. Provide shop drawings in Autocad format.
   2. Provide exit calculations in accordance with applicable building code. Indicate seating layout and capacity, aisle dimensions, travel distances, and location and dimensions of area of refuge.
   3. Indicate magnitude and locations of concentrated loads and total loads applied to supporting structure.
   4. Indicate foundation and footing dimensions, reinforcing, and anchor bolt layout.
   5. Indicate structural bracing locations and dimensions. Limit bracing to alternate bays where possible.

B. Samples: Minimum 12 inch section of seat board and footboard; one handrail support post end cap. Submit color samples for selection.

1.04 QUALITY ASSURANCE:

A. Manufacturer Qualifications: Company specializing in the work of this Section, with minimum 10 years experience.

   1. Submit on request at least 5 reference projects at which work similar in both scope and design has been successfully completed by the Contractor and Subcontractors within the last 5 years. Reference information shall include the following items:
      a. Client company name and address.
      b. Contact name, title and telephone number.
      c. Installation start-up, completion and acceptance dates.
      d. Brief description of project.

   2. Prior to award of contract, the Owner and Architect may, with full cooperation of the Contractor, visit client installations to observe completed installations and consult with references. Visits shall be arranged by the Contractor. However, the Contractor may not be present during discussions with references.

B. Design system under direct supervision of a Professional Engineer experienced in design of this work and licensed at the place where the Project is located.

C. Installer Qualifications: Approved by manufacturer, with minimum 3 installations of similar scope within the last 2 years.

1.05 REGULATORY REQUIREMENTS:

A. Comply with ADA for wheelchair spaces, companion seats, and accessible routes.

B. Comply with applicable building code for aisle and row dimensions, egress widths, treads and risers, handrails and guards, footboards, structural loads, and related requirements.

C. Comply with requirements of ICC 300 and NFPA 102.

1.06 WARRANTY: In accordance with Section 01 7700.

A. Provide 5 year warranty for structural components, and 3 year finish warranty.

1.07 MAINTENANCE SERVICE:

A. Six months after Substantial Completion, provide inspection and maintenance service by factory service personnel.

PART 2 PRODUCTS

2.01 MATERIALS:

A. Aluminum Tubing: ASTM B210, Alloy 6063, Temper T6.

B. Aluminum Extrusions: ASTM B221.

C. Structural Steel: ASTM A992 and ASTM A500, Grade B; hot dip galvanized to ASTM A123, Grade 65, 1.50 oz/sq ft.

D. Touch-Up Primer for Galvanized Surfaces: SSPC 20.

2.02 BLEACHERS:

A. Manufacturers: In accordance with Section 01 6000.
   1. Granite Industries.
   2. Dant Clayton Corporation.
   3. E&D Specialty Stands, Inc.
   4. GT Grandstands.
   5. National Recreation Systems, Inc.
   6. Outdoor Aluminum, Inc.
   7. Schultz Industries, Inc.; Sturdisteel.
   8. Southern Bleacher Company, Inc.

B. Dimensions:
   1. Group 1: Behind home plate; 4 rows, 26 foot length; elevated 48 inches above grade, with one aisle, stair (east side), and accessible ramp (west side).
   2. Group 2: Third base line; 4 rows, 30 foot length (two 15 foot sections).
   3. Group 3: First base line; 4 rows, 21 foot length.
   4. Row Spacing: 24 inches.
   5. Rise per Row: 8 inches.

C. Structural Framing: Galvanized steel.

D. Understructure: Aluminum extrusions with mill finish.
   1. Vertical Members and Handrail Supports: Aluminum tubing.
   2. Horizontal Braces, Footrest Supports, Cross Braces, and Diagonals: Aluminum channels.

E. Seat Boards: Aluminum extrusions with fluted surface and clear anodized finish; minimum 9½ inch width; aluminum supports bolted to structure. Seat board cantilever dimension beyond supports shall not exceed 9 inches.

F. Foot Boards: Aluminum extrusions with slip resistant fluted surface and mill finish; interlocking attachment.
   1. Provide longest practicable lengths, with end joints sized to accommodate expansion. Where joints are located in traffic areas, provide beveled cover plates.
   2. Slope horizontal surfaces to front of structure for water runoff.

G. Stairs: Self supporting, with closed risers and treads with slip resistant surface.
   1. Aisle and egress stairs shall have a ½ inch overhang and contrasting nosing.
   2. Intermediate aisle steps shall not infringe on required egress width.

H. Aisles: Closed risers and treads with slip resistant surface and contrasting nosing.
   1. Aisle Handrails: Anodized aluminum pipe with intermediate rail.

I. Ramps and Landings: Extruded aluminum channel framing and columns with mill finish; extruded aluminum treads with slip resistant fluted surface and mill finish, perpendicular to direction of traffic; interlocking attachment.

J. Guards: Aluminum posts and rails with anodized finish; interlocking design with bolted connections; aluminum channel top rail sized to fully cover railing support posts; 42 inch height.
   1. Handrails: Aluminum pipe, 1½ inch to 2 inch diameter, with clear anodized finish; inset from guards with 1½ to 2½ inch clearance between handrail and guard supports.
   2. Pickets: Vertical aluminum bars.

K. Hardware:
   1. Fasteners: Hot dipped galvanized bolts, minimum 3/8 inch diameter.
   2. End Caps: Cast aluminum; friction fit to ends of seat boards, foot boards, and handrails.
   3. Identify rows with permanently attached numbers. Verify numbering with Owner.

PART 3 EXECUTION

3.01 EXAMINATION:

A. Field verify dimensions and installation conditions prior to system fabrication.

B. Confirm that foundations and bearing elevations are within required tolerances.

3.02 INSTALLATION:

A. Erect and install components in accordance with manufacturer's instructions and shop drawings, and to comply with warranty requirements; rigid, plumb, and level.

B. Do not field cut, drill, or alter structural members without written approval from manufacturer's structural engineer.

3.03 FIELD QUALITY CONTROL:

A. Manufacturer's representative shall visit site to inspect installation and instruct Owner's personnel in operating and maintenance requirements.

B. Testing firm will perform high strength bolt inspection in accordance with Section 01 4520.

3.04 CLEANING: In accordance with Section 01 7700.

A. Do not use acid solutions, steel wool, or harsh abrasives.

END OF SECTION

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BID QUESTION LOG #1

The following questions and answers are distributed for supplemental information and clarification, and are not part of the Contract Documents. Questions answered by Addendum items are not necessarily repeated in this document.

Q1. What size is the conduit for the underground bore that goes under the football field?

A. Refer to Single Line Diagram and Conduit and Wire Schedule on Sheet E-1 for conduit sizes.

Q2. Is the $875,000.00 engineers estimate for both projects? Or is there a separate engineers estimate for each project that is available?

A. The estimate of construction cost in Section 01 1000 – 1.03.A is the total estimate for all portions of the project listed in paragraph 1.02.A.

END OF BID QUESTION LOG #1