

Roanoke City Public Schools

Patrick Henry High School Stadium – New Field House

Invitation For Bids #3033

Addendum No. 2

Date: October 21, 2020
Architect: Interactive Design Group
To: All Bidders of Record

This addendum forms a part of and modifies the bidding requirements and proposed contract documents for the subject project, dated September 30, 2020. Receipt of this Addendum shall be acknowledged in the space provided on the Bid Form. Failure to do so may subject a bidder to disqualification.

Pre-Bid Conference:

1. A list of attendees at the Pre-Bid Conference is attached.

Bidder Questions:

1. Question: "May we use light gauge steel roof trusses instead of wood trusses?"
Answer: "Yes, light gauge steel trusses are acceptable if installed at a maximum spacing of 24" o.c." See the specification referenced below.

Drawings:

1. Sheets A201 and A-202: *Clarification:* The type A windows shown are hollow metal frames with glass block infill as shown on Detail 4 / A-502 and are not operable.

Specifications:

1. Table of Contents: Add the attached project manual Table of Contents to the Contract Documents
2. Section 05 44 00 – Pre-Engineered Cold-Formed Steel Trusses: Add the attached specification section.
3. Section 07 53 00 – Single-Ply Membrane Roof: At paragraph 2.1, A: Add "e. Mule Hide Products".
4. Section 09 67 23 – Resinous Flooring: At Paragraph 1.6, A, Add "4. Tennant Quartz DB' and "5. Terroxy Resin Systems".
5. Section 10 51 1- - Metal Athletic Lockers: At paragraph 2.1, A: Add "8. Scranton Products" and "9. Lockers MFG".

Attachments:

1. List of attendees at the Pre-Bid Conference
2. Table of Contents
3. Specification section: Section 05 44 00 – Pre-Engineered Cold-Formed Steel Trusses

End of Addendum #2

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SECTION 05 44 00 - PRE-ENGINEERED COLD-FORMED STEEL TRUSSES

PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. Pre-engineered Cold-Formed steel trusses.
- B. Cold-formed steel framing accessories.

1.2 DEFINITIONS

- A. Truss Component Manufacturer: The maker of the components that will be assembled into trusses by the Truss Manufacturer. See MANUFACTURERS for acceptable Truss Component Manufacturer.
- A. Truss Manufacturer: An individual or organization engaged in the manufacturing of trusses. See MANUFACTURERS for acceptable Truss Manufacturers.
- B. Truss Design Drawing: Written, graphic and pictorial depiction of an individual truss.
- C. Truss Design Engineer: Person who is licensed to practice engineering as defined by the legal requirements of the jurisdiction in which the building is to be constructed and who supervises the preparation of the truss design drawings. In this case, the Truss Design Engineer is the Truss Component Manufacturer.
- D. Truss Placement Diagram: Illustration identifying the assumed location of each Truss.

1.3 REFERENCES

- A. ANSI/AISI/ S100-2012: North American Specification for the Design of Cold-Formed Steel Structural Members; American Iron and Steel Institute; 2012 edition.
- B. ANSI/AISI /S200-12: North American Standard for Cold-Formed Steel Framing - General Provisions; 2012 edition.
- C. ANSI/AISI/S202-11: Code of Standard Practice for Cold-Formed Steel Structural Framing; 2011 edition.
- D. ANSI/AISI /S214-12: North American Standard for Cold-Formed Steel Framing - Truss Design; 2012 edition.
- E. ASTM A 370-14 - Standard Test Methods and Definitions for Mechanical Testing of Steel Products; 2014.
- F. ASTM A 500-13 - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2013.
- G. ASTM A 653-15 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2015.

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- H. ASTM A 780-09 (2015) – Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dipped Galvanized Coatings; 2009 and reapproved in 2015.
- I. CFSBCSI - Cold-Formed Steel Building Components Safety Information; Cold-Formed Steel Council (CFSC); 2008 edition with insert for Modifications to Chapters CFSB1, B2, & B3.
- J. CFSEI Technical Note 551e - Design Guide for Permanent Bracing of Cold-Formed Steel Trusses; Cold-Formed Steel Engineers Institute; February 1998.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 (Section 01300 IN MF95).
- B. Product Data: Truss Component Manufacturer's descriptive literature for each item of cold-formed metal framing and each accessory specified in this section.
- C. Truss Design Drawings: Detailed drawings prepared by Truss Manufacturer under the supervision of the Truss Design Engineer that are in accordance with AISI references. These drawings may also include referenced detail drawings germane to the trusses
- D. Truss Placement Diagram: Diagram that identifies the assumed location of each individually designated truss and references the corresponding Truss Design Drawing.
- E. Installation Instructions: Truss Component Manufacturer's printed instructions for handling, storage, and installation of each item of cold-formed metal framing and each accessory specified in this section.

1.5 QUALITY ASSURANCE

- A. Provide design of trusses by Truss Component Manufacturer, using design methodologies recommended in AISI references.
 - 1. Determine mechanical properties of load bearing components by testing in accordance with ASTM A 370-14.
 - 2. Provide drawings by a Registered Design Professional licensed in the State in which project is to be constructed.
 - 3. Provide Truss Manufacturer's Truss Design Drawings.
- B. Pre-Installation Meeting: Meet at job site prior to scheduled beginning of installation to review requirements:
 - 1. Attendees: Require attendance by representatives of the following:
 - a. Installer of this section.
 - b. Other entities directly affecting, or affected by, construction activities of this section, including but not limited to, the following:
 - 1. Installer of truss support framing.
 - 2. Installer of mechanical systems.
 - 3. Installer of electrical systems.

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2. Review potential interface conflicts; coordinate layout and support provisions.

1.6 DELIVERY, STORAGE, AND HANDLING OF STEEL TRUSSES

- A. Pack, ship, handle, unload, and lift shop products in accordance with Truss Component Manufacturer's recommendations and in manner necessary to prevent damage or distortion.
- B. Store and protect products in accordance with Truss Component Manufacturer's recommendations and in manner necessary to prevent damage, distortion and moisture buildup.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Standard of Quality Truss Component Manufacturer: TrusSteel Products from Alpine TrusSteel, An ITW Company; 2400 Lake Orange Dr, Ste 150, Orlando, FL 32837. Tel: (888) 565-9181. www.TrusSteel.com.
- B. Alternate Acceptable Truss Manufacturers: Manufacturers meeting the design and quality standards specified herein shall be accepted.
- C. Truss Manufacturers: Truss components shall be fabricated into completed trusses by fabricators that have at least 5 years worth of experience in the design and supply of Cold-Formed Steel Trusses.

2.2 COMPONENTS

- A. Pre-Engineered, Pre-Fabricated Cold-Formed Steel Trusses: TrusSteel truss components by Alpine TrusSteel, An ITW Company, meeting specified requirements.
 1. Truss Type, Span, and Height: As indicated on drawings.
 2. Comply with requirements of current Virginia Construction Code.
 3. Deflection Under All Loads: 1/360th of span, maximum.
 4. Deflection Under Live Loads: 1/480th of span, maximum.
 5. Shop fabricate in accordance with Truss Design Drawings, using jiggling systems to ensure consistent component placement and alignment of components, and to maintain specified tolerances; field fabrication is strictly prohibited unless performed by authorized Truss Manufacturer using Truss Manufacturer's shop assemblers and proper jiggling systems.
 6. Shop fabrication of other cold-formed steel framing components into assemblies prior to erection is permitted; fabricate assemblies in accordance with shop drawings.
 7. Fasten connections within truss assembly with Truss Component Manufacturer's screws only and as shown on the Truss Design Drawings; welding and other fasteners are prohibited.

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8. Fabricate straight, level, and true, without rack, and to the tolerances specified in ANSI/AISI /S214-12:
- B. Truss Chord and Web Components: All truss components to be symmetrical in profile and loading orientation, with rolled or closed edges to minimize the danger of cutting during handling; chord and web components without rolled edges are prohibited.
1. Shapes, Sizes, and Thicknesses: As required to suit design and as indicated on shop drawings.
 2. Chords: Cold-formed from ASTM A 653/A 653M galvanized steel sheet, minimum G60 coating; minimum yield strength of 55,000 psi (380 MPa) for 22, 20, 18 and 16 GA components or 50,000 psi (345 MPa) for 14 GA and 12 GA components; minimum tensile strength of 65,000 psi (448 MPa) for 22, 20, 18, 16, 14, and 12 GA components.
 - a. Nominal 28 mil (22 GA) members:
 1. Minimum bare metal thickness: 0.0284 inch (0.72 mm).
 2. Maximum design thickness: 0.0299 inch (0.76 mm).
 - b. Nominal 33 mil (20 GA) members:
 1. Minimum bare metal thickness: 0.0329 inch (0.84 mm).
 2. Maximum design thickness: 0.0346 inch (0.88 mm).
 - c. Nominal 43 mil (18 GA) members:
 1. Minimum bare metal thickness: 0.0428 inch (1.09 mm).
 2. Maximum design thickness: 0.0451 inch (1.15 mm).
 - d. Nominal 54 mil (16 GA) members:
 1. Minimum bare metal thickness: 0.0538 inch (1.37 mm).
 2. Maximum design thickness: 0.0566 inch (1.44 mm).
 - e. Nominal 68 mil (14 GA) members:
 1. Minimum bare metal thickness: 0.0677 inch (1.72 mm).
 2. Maximum design thickness: 0.0713 inch (1.81 mm).
 - f. Nominal 97 mil (12 GA) members:
 1. Minimum bare metal thickness: 0.0966 inch (2.46 mm).
 2. Maximum design thickness: 0.1017 inch (2.58 mm).
 3. Tube Webs: Cold-formed ASTM A500 steel structural tubing; minimum yield strength of 45,000 psi (310 MPa); minimum tensile strength of 55,000 psi (380 MPa).
 - a. Nominal 33 mil (20 GA) members:
 1. Minimum bare metal thickness: 0.033 inch (0.84 mm).
 2. Maximum design thickness: 0.035 inch (0.89 mm).
 - b. Nominal 47 mil (18 GA) members:

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1. Minimum bare metal thickness: 0.047 inch (1.19 mm).
 2. Maximum design thickness: 0.049 inch (1.24 mm).
 - c. Nominal 63 mil (16 GA) members:
 1. Minimum bare metal thickness: 0.063 inch (1.6 mm).
 2. Maximum design thickness: 0.065 inch (1.65 mm).
 4. Rolled formed Webs: Cold-formed from ASTM A 653/A 653M galvanized steel sheet, minimum G60 coating; minimum yield strength of 40,000 psi (276 MPa) for 20 and 18 GA components or 50,000 psi (345 MPa) for 16 GA components; minimum tensile strength of 55,000 psi (379 MPa) for 20 and 18 GA components or 65,000 psi (448 MPa) for 16 GA components.
 - a. Nominal 33 mil (20 GA) members:
 1. Minimum bare metal thickness: 0.0329 inch (0.84 mm).
 2. Maximum design thickness: 0.0346 inch (0.88 mm).
 - b. Nominal 43 mil (18 GA) members:
 1. Minimum bare metal thickness: 0.0428 inch (1.09 mm).
 2. Maximum design thickness: 0.0451 inch (1.15 mm).
 - c. Nominal 54 mil (16 GA) members:
 1. Minimum bare metal thickness: 0.0538 inch (1.37 mm).
 2. Maximum design thickness: 0.0566 inch (1.44 mm).
- C. Fasteners Used in Fabricating Trusses: Fasteners as recommended by Truss Component Manufacturer, bearing stamp of Truss Component Manufacturer for ready identification.

2.3 DESIGN CRITERIA

- A. Design Criteria are as follows:
1. Roof Live (snow) Load: 30 PSF (plus drift)
 2. Live Load – Bottom chord: 0 PSF
 3. Dead Load – Top chord: 10 PSF plus
 4. Dead Load Bottom Chord: 10 PSF
 5. Dead Load Trusses & Bracing: Per Manufacturer
 6. Wind Load: per 2015 Virginia Construction Code
 7. Basic Wind Speed: 115 MPH (Vs3) Ultimate
 8. Exposure Category: B
 9. Importance Factor: 1.0

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that bearing surfaces and substrates are ready to receive steel trusses.

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- B. Verify that truss bearing surfaces are within the following tolerances:
 - 1. Variation from Level or Specified Plane: Maximum 1/8 inch in 10 feet.
 - 2. Variation from Specified Position: Maximum 1/4 inch.
- C. Verify that rough-in utilities and chases that will penetrate plane of trusses are in correct locations and do not interfere with truss, bracing, or bridging placement.
- D. Inspect conditions under which installation is to be performed and submit written notification if such conditions are unacceptable to installer.
 - 1. Notify Architect/Building Designer within 24 hours of inspection.
 - 2. Beginning construction activities of this section before unacceptable conditions have been corrected is prohibited.
 - 3. Beginning construction activities of this section indicates installer's acceptance of conditions.

3.2 INSTALLATION

- A. Install trusses in accordance with Truss Component Manufacturer's instructions and Truss Manufacturer's Truss Design Drawings and Truss Placement Diagram. Use correct fasteners as previously described.
- B. Place components at spacings indicated on the Truss Design Drawings.
- C. Install all erection (temporary installation) bracing and permanent bracing and bridging before application of any loads; follow recommendations of the CFSBCSI - Cold-Formed Steel Building Components Safety Information.
- D. Install erection bracing - follow recommendations of the CFSBCSI - Cold-Formed Steel Building Components Safety Information.
 - 1. Provide bracing that holds trusses straight and plumb and in safe condition until decking and permanent truss bracing has been fastened to form a structurally sound framing system.
 - 2. All sub-contractors shall employ proper construction procedures to insure adequate distribution of temporary construction loads so that the carrying capacity of any single truss or group of trusses is not exceeded.
- E. Install permanent bracing and bridging as shown in the Architect/Building Designer's drawings and notes and in the locations shown on the Truss Manufacturer's Truss Design Drawings.
- F. Removal, cutting, or alteration of any truss chord, web or bracing member in the field is prohibited, unless approved in advance in writing by the Architect/Building Designer and the Truss Design Engineer.
- G. Repair or replace damaged chords, webs, and complete trusses as directed and approved in writing in advance by the Architect/Building Designer and the Truss Component Manufacturer.

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3.3 FIELD QUALITY CONTROL

A. Owner will provide inspection service to inspect field connections.

3.4 REPAIRS AND PROTECTION

A. Galvanizing repairs: Prepare and repair damaged galvanized coatings on fabricated and installed cold-formed steel trusses with galvanized repair paint according to ASTM A 780 and manufacturer's written instructions.

B. Provide final protection and maintain conditions in a manner acceptable to the manufacturer and installer, that ensure the cold-formed steel trusses are without damage or deterioration at the time of substantial completion.

END OF SECTION



Interactive
Design Group
301 6th Street
Roanoke, VA
24011
TEL: 540.342.

PRE-BID SIGN IN SHEET

Project Name: PH Fieldhouse

Project Number: 19059
Roanoke City Public Schools
IFB # 3033

Date: 10/20/2020

	Name	Company	E-mail Address	Phone Number
1	TROT J. SMITH	AVIS	smitht@avisconstruction.com	798-8653
2	Tracy Russell	Boxley	tracy.russell@boxley.com	520-7440
3	JACK BULLS	AVIS	BULLSJ@AVISCONSTRUCTION.COM	982-3588
4	JAMES FIFE	HALL'S CONST CORP	JFIFE@HCC-VA.COM	392-9216
5	JEFF AUSTIN	F&S BUILDING INNOVATIONS, INC	JEFF@FSBUILDINGINC.COM	598-9160
6	JOSH BEISLEY	BUILDING SPECIALISTS INC	JBEISLEY@BSIVA.COM	540 9828200
7	RUSTY BROWN	THOR CONSTRUCTION LLC	estimating@thorconstruction.com	740 580 4058
8	Jody Galyeon	Hayco Construction	jgalyeon@hayco-construction.com	336-444-4448
9	Josh Smart	MB Contractors, Inc	jsmart@mbcontractors.com	540-315-0367
10	Kelly Alderman	KNA CONSTRUCTION	KALDERMAN@KNACONSTRUCTION.COM	536-470 4813
11	Eric Reese	Dawn H Elliott	ereese@dher.com	540-521-4488



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PRE-BID SIGN IN SHEET

Project Name: PH Fieldhouse

Project Number: 19059
Roanoke City Public Schools
IFB # 3033

Date: 10/20/2020

	Name	Company	E-mail Address	Phone Number
1	Carson Whit	CWA	Carson@CWA.com	540-342-3400
2	Benny Tomlinson	GHASS & Associates	Benny Tomlinson at G-A construction.com	434-546-1804
3	Ben Price	R.L. Price Construction	bidroom @ Rlprice.com ben @ Rlprice.com	540-375-3200
4	Chris Ransom	Kreider Mech	chris.rm@kmechinc.com	540 343 7612 EXT 105
5	Buzz Wilmoth	J.G. CORAM COMPANY, INC.	Buzz@JGCORAM.COM	236-789-6251
6	David Ahrens	CPPI	David.ahrens@CPPI.com	434 534 1957
7	KEITH PAYNE	LIONBERGER CONSTRUCTION	kpayne@LIONBERGER.COM	540-541-8705
8	Britney Chitwood	G & H Contracting	Bchitwood@ghcontracting.com	387-5059
9	CHESTER SMITH	PHHS	CRSMITH@RCPS.INFO	540 553 6131
10	Bobby Crumpton	Glass & Associates Const.	bobby@G-A construction.com	434-546-1813
11				



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PRE-BID SIGN IN SHEET

Project Name: PH Fieldhouse

Project Number: 19059
Roanoke City Public Schools
IFB # 3033

Date: 10/20/2020

	Name	Company	E-mail Address	Phone Number
1	Bradley Pruitt	Davis H. Elliot	bpruitt@DHEC.com	540-991-2114
2				
3				
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PROJECT MANUAL

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September 30, 2020

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