SECTION 13 34 00 – FABRICATED ENGINEERED STRUCTURES

 GENERAL

 SUBMITTALS

 Action Submittals:

 Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.

 Product Data: Manufacturer’s descriptive data and product attributes.

 Samples: [Selection samples.] [Verification samples.]

 Informational Submittals:

 Certificate of Compliance: Certification that installed products meet specified design and performance requirements.

 SYSTEM DESCRIPTION

 Design Requirements:

 Design loads: In accordance with [ASCE 7.] [Building Code.] [\_\_\_\_.]

 Design steel in accordance with AISC Steel Construction Manual.

 Movement: Ambient temperature range of [120] [\_\_] degrees F and a surface temperature range of [160] [\_\_] degrees F.

 System design to be performed by qualified professional engineer licensed in State of [\_\_\_\_].

 QUALITY ASSURANCE

 Installer Qualifications: Approved by structure manufacturer.

 WARRANTIES

 Fabricated Structures: Manufacturer’s 10 year warranty against defects in materials and workmanship.

 Powder Coatings: Manufacturer’s 10 year warranty against peeling or fading in excess of 8 percent of total coated surface.

 Asphalt Shingles: Manufacturer’s 30 year warranty against:

 Water leakage through shingles.

 Shingle discoloration due to algae growth.

 Shingle damage due to winds up to 70 MPH.

1. PRODUCTS

 MANUFACTURERS

 Contract Documents are based on products by Poligon, [www.poligon.com](http://www.poligon.com)

 Substitutions: [Refer to Division 01.] [Not permitted.]

 MATERIALS

 Steel:

 Shapes, bars, and plates: ASTM A36/A36M, ASTM A572/A572M, or ASTM A992.

 Hollow structural sections: ASTM A500/A500M.

 Aluminum Sheet: ASTM B209/B209M.

 Roof Decking: Nominally 2 x 6 inch Southern Yellow Pine, tongue-and-groove, unstained.

\*\*\*\* OR \*\*\*\*

 Roof Decking:

 Type: Nominally 2 x 6 inch Hem-Fir, tongue-and-groove, factory stained.

 Color: [\_\_\_\_.] [To be selected from manufacturer's full color range].

\*\*\*\* OR \*\*\*\*

 Roof Decking:

 Type: Structural insulated panels consisting of expanded polystyrene sandwiched between oriented strand board and grooved Douglas Fir siding.

 Thickness: [\_\_\_\_] inches.

 Minimum R-value: [\_\_\_\_.]

 Roofing:

 Type: Preformed 24 gage steel, [standing seam] [multi-rib] [mega-rib] profile.

* + - 1. Finish: AAMA 2605, fluoropolymer coating containing minimum 70 percent PVDF resins.
			2. Color:
				1. Top surface: [\_\_\_\_.] [To be selected from manufacturer's full color range].
				2. Bottom surface: Off-white.

\*\*\*\* OR \*\*\*\*

 Roofing:

 Type: [Monolithic] [Honeycomb] [Corrugated] polycarbonate.

 Color: [\_\_\_\_.] [To be selected from manufacturer's full color range].

\*\*\*\* OR \*\*\*\*

 Roofing:

 Type: Laser cut aluminum panels.

 Pattern: [\_\_\_\_.] [Custom pattern to be selected.]

 Finish: Manufacturer’s standard powder coat, sprayed and baked.

 Color: [\_\_\_\_.] [To be selected from manufacturer's full color range].

\*\*\*\* OR \*\*\*\*

 Roofing:

 Type: Architectural asphalt shingles.

 Color: [\_\_\_\_.] [To be selected from manufacturer's full color range].

 Trellis Latilla: Steel, finished to match framing.

\*\*\*\* OR \*\*\*\*

 Trellis Latilla: [Ipe.] [Mahogany.] [Cedar.] [Accoya.]

 ACCESSORIES

 Anchors: Series 316 stainless steel.

 FABRICATION

 Fabricate components in accordance with AISC Steel Construction Manual and approved Shop Drawings.

 Welding to conform to AWS D1.1/D1.1M.

 Column Style: [Plain square.] [Windsor.] [Round.] [Wooster.] [Alma.] [Neo classic.] [Westminster.] [Winchester.]

 Electrical Cutouts: Provide cutouts for electrical access at locations indicated.

 Baseplate Covers: Steel, finished to match framing.

 FINISHES

 Steel: Poli-5000 polyester powder coat, [\_\_\_\_] color [to be selected from manufacturer's full color range], [smooth] [textured] finish.

\*\*\*\* OR \*\*\*\*

 Steel: Galvanized.

\*\*\*\* OR \*\*\*\*

 Steel: Poli-5000 polyester powder coat over galvanizing, [\_\_\_\_] color [to be selected from manufacturer's full color range], [smooth] [textured] finish.

 EXECUTION

 INSTALLATION

 Install in accordance with manufacturer's instructions and approved Shop Drawings.

 Installation Tolerances:

 Maximum variation from plane: [1/8] [\_\_] inch in 3 feet or [1/4] [\_\_] inch in any 10 feet, whichever is less.

 Maximum misalignment of members abutting end to end: [1/32] [\_\_] inch.

END OF SECTION