NOTE TO CONSULTANTS: Edit with Track Changes turned on, any text in this section that appears in bold and italics then turn off the bold and italics for the final approved version. (Remove this Note).

PART 1 - GENERAL

1.01 Description: Provide and install all metal components necessary for construction of the Pre-Engineered Metal Structure including: Columns, beams, trusses, plates, fasteners, and associated hardware.

1.02 Related Sections:

Section 03 10 00 - Concrete Formwork
Section 03 20 00 - Concrete Reinforcement
Section 03 30 00 - Cast in Place Concrete
Section 03 35 00 - Concrete Finishing

1.03 Quality Assurance:

A. Conform to requirements of the most recent editions of the following Reference Standards or as modified and supplemented hereinafter:

1. International Building Code (IBC)
2. City of Seattle Building Codes and Regulations (SBC)
3. American Institute of Steel Construction (AISC)
4. American Iron and Steel Institute (AISI)
5. American Welding Society (AWS)

B. Steel fabricator shall be experienced in steel fabrication including: cutting, bending, fastening, and finishing.

C. Welders shall be certified by Washington Association of Building Officials (WABO) for structural welding.

1.04 Submittals:

A. Product Data: The Contractor shall submit manufacturer's published literature for specified products and accessories as applicable including manufacturer's specifications, performance calculations, and physical characteristics.

B. Color samples: The Contractor shall submit for selection colors available from manufacturer's standard color line.

C. Shop Drawings: The Contractor shall submit for approval, shop drawings and details of fabrication with dimensions and connections shown.

1.05 Delivery, Storage and Handling: Ship, store, and handle all items so as to protect metal components from damage on site. Store in a safe location, out of pedestrian and vehicular

traffic and protected from weather. Repair or replace any damaged components before installation.

PART 2 - PRODUCTS

2.01 Park/Playground Shelter Structure:

A. Structural Framing: Steel tubing shall conform to ASTM A500, Grade B. Steel tubing shall have end plates welded on all exposed ends. All structural members shall be galvanized and painted or powder coated.

B. Steel Roofing: Shall be 24 gauge steel, galvanized and painted or powder coated standing seam roofing panels.

C. Flashing and all metal trim work shall be factory formed in steel in 26 gauge, or as required, finish and color to match adjacent fascia or roof panels.

D. All welding shall be shop welds, or as shown on approved contract drawings.

2.02 Paint: Kynar 500 Paint system, or approved equal. Color shall be selected by the Engineer after submittal of color samples.

PART 3 - EXECUTION

3.01 Surface Mounting to Concrete Footing:

A. Connect structural steel members to concrete using anchor bolts in accordance with all governing building codes.

B. Coordinate anchor bolt placement with concrete contractor.

3.02 Installation:

A. Structural Steel columns and trusses shall be connected using bolts per manufacturer’s approved shop drawings.

B. Sheet metal roofing shall be connected using gasketed, self-tapping screws, per manufacturer's specifications.

3.03 Finishes:

A. General: Cut and form components to have sharp, clean edges. Mill machine joints to a close fit.

B. Welding: Perform welding by use of an electric arc welding process. In making welded joints and joining components conform to referenced standards (AWS-D1.1). Grind exposed welds flush and smooth.

C. Hot-dipped Galvanizing: Galvanize all steel members and comply with ASTM A123 for zinc coatings applied on products fabricated from rolled or pressed steel shapes, plates, bars, and strips. ASTM A386 for zinc coatings on assembled steel products. Weight of coatings shall be per Table I for class and thickness of material to be coated. Except for bolts and nuts, do galvanizing after fabrication.

D. Painting: All galvanized steel members shall be painted or powder coated after galvanizing. Paint or powder coating finishes shall be factory applied in the manufacturer's facility.

END OF SECTION