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: The work includes supply, fabrication, and installation of a complete wood framed, metal skinned roof system over chain link fence backstop described elsewhere.

1.02 References: City of Seattle Standard Specifications and Plans for Road, Bridge, and Municipal Construction (most recent edition).

1.03 Related Sections:

Section 32 31 1.33 - Chain Link Backstops & Gates
Section 06 10 00 - Rough Carpentry
Section 06 10 00 - Rough Carpentry - Natural Select Supplement
Section 09 91 13 - Exterior Painting

(For additional information to possibly add to this specification section refer to SPR Design Standards website at www.cityofseattle.gov/parks/projects/standards)

Section 06 00 00.01 - Wood Use in Parks (Design Standard)
Section 07 00 00.01 - Roofing (New or Re-roofing) (Design Standard)

1.04 Quality Assurance:

A. Submittals: Submit the following documentation for approval prior to commencing the work of this Section.

1. Submit shop drawings for metal roof fabrication for approval.
2. Submit manufacturer's product data for pressure treated wood members, including information regarding treatment type and MSDS sheets.
3. Submit manufacturer's product data for sheet steel roofing skin.
4. Submit manufacturer's data for all galvanized connectors and hardware.

C. Inspections: The Contractor shall notify the Engineer to inspect the work at the following critical junctures. The work shall not proceed until these inspections have been made and approvals have been granted. In addition, the Engineer may inspect the work at any time during the execution of the work of this Section.

1. Header / Ledger Installation
2. Framing Completion
3. Roof Sheathing
4. Priming
5. Painting
6. Roofing

PART 2 - PRODUCTS

2.01 Wood Members: All structural wood members used in the construction of dugout roof systems that are exposed to the weather, shall be Hem-Fir, ACQ or CBA pressure treated, #2 or better, or approved equal. All other wood members shall be untreated Hem-Fir, #2 or better, or approved equal. Some wood members shall be painted or stained as shown on the drawings or as directed by the Engineer.

2.02 Plywood Sheathing: Plywood roof sheathing shall be 5/8" minimum, CDX or better, as approved.

2.03 Hardware and Connectors: All hardware and connectors shall be hot dipped galvanized. Connections shall be made using approved, pre-manufactured connectors, Simpson, or approved equal.

2.04 Sheet Metal Roofing: Shall be a 26 gauge (or better), pre-finished, standing seam metal roofing material with matching flashing components to provide a completely finished, weather tight roofing system. The standing seam roofing shall be 12" seam spacing, maximum 1-1/2" seam height, and 1/2" constant width. An optional roofing system shall be 26 gauge (or better), hot-dipped galvanized (and factory painted), corrugated metal roofing system. The corrugated roofing shall be 7/8"x 2-2/3", or approved equal. The paint finish of any metal roofing system shall be "KYNAR 500", or approved equal, minimum 20 year coating system, with substrate, per manufacturer's specifications. The roofing color shall be as determined by the Engineer.

PART 3 - EXECUTION

3.01 General: Perform the work using the best industry standards for rough carpentry and sheet metal fabrication. Verify the accurate installation of the steel tubing support posts installed under Section 32 31 13.23 - Chain Link Backstops & Gates.

3.02 Framing:

A. Set headers and ledgers at the exact grades indicated on the drawings using connection details provided.

B. Report to the Engineer any discrepancy with the placement of steel support posts.

C. Cut all wood roofing joists at the required angle, including any accessory cuts that may be necessary to ensure a snug fit to adjoining wood members and/or connecting hardware.

D. Attach approved galvanized joist hangers using galvanized nails or screws.

E. Install Simpson 5/8” hot-dipped galvanized plywood clips (or equal) between each joist section (at least one per section), to create a smooth surface for attaching roofing sheathing.

3.03 Roofing Sheathing: Roofing sheathing shall be installed in a running-bond. The pattern is as indicated on the drawings. Align all edges true to square and provide connection at a minimum 12” spacing for standing seam system.

3.04 Primer and Paint:

A. Insure that the following conditions are present, prior to applying primer:

1. No loose sawdust, dust, dirt, grease, split edges or incompletely attached connectors.
2. Wood moisture content is 15% or less.

B. Apply Primer in one heavy, even layer. Allow a minimum of 24 hours for drying. Primer shall be applied using a commercial spraying system or pre-painted off site. Prime all wood surfaces that will remain visible or exposed, once roofing system is installed, including the underside of the roofing sheathing and joists, or as shown on the drawings or as directed by the Engineer.

C. Apply approved paint with a commercial paint spraying application system or pre-paint areas that will remain visible or exposed following the installation of the roofing system. All areas shall receive a minimum of two coats, or as directed by the Engineer. Paint color shall be light gray or as directed by the Engineer.

3.05 Metal Roofing Systems: Install metal roofing system, including the skin and all flashing necessary to ensure a weather tight covering, using the best industry standards for metal roofing system construction.

END SECTION