PREFABRICATED STEEL STRUCTURES

PART 1 GENERAL

1.01 DESCRIPTION OF WORK

This section includes the observation/video tower(s) to be located on the band/football/_____ practice field. Quantity: _____

1.02 REFERENCE STANDARD

AWS D1.1

OSHA

1.03 SUBMITTALS

Submittal Package: Vendor to supply one copy of the submittal package, which consists of a set of sealed elevation, frame, roof and base drawings (in addition to the drawings and instructions in the base kit).

1.04 OPERATION AND MAINTENANCE

Include data on regular maintenance.

1.05 REGULATORY REQUIREMENTS

Conform to OSHA guidelines 1910.23 & 24

1.06 QUALITY ASSURANCE

A. Vendor shall be a firm engaged in the supply of observation towers to be educational institutions.
B. Manufacturer shall be a firm engaged in the fabrication of steel assemblies in the United States.
C. Vendor and Manufacturer shall each have a minimum of 5 years' experience in A & B, respectively.

1.07 FIELD CONDITIONS

Vendor is not responsible for field measurement and will be provided access to the project site.

1.08 WARRANTY

Submit a standard warranty, stating that observation tower is guaranteed for one year against defects in materials and workmanship. Guarantee does not cover normal wear and tear, improper handling, any misuse, or any defects caused by vandalism or subsequent abuse.

PART 2 PRODUCTS

2.02 MATERIALS Prefabricated Steel Personal Tower:

A. Provide a complete, integrated set of mutually dependent components that form a completely assembled, prefabricated steel personal tower.
B. Provide drawings and instructions, along with all embedded components for a slab to be installed by others on Project site:

    1. Anchor bolt/rebar assembly
    2. Installation jog
    3. Precut rebar for the grid
    4. Form cross-ties with nuts
    5. Rebar tie wire with tie tool

C. Tower shall be capable of withstanding structural and other loads without failure. Project includes structural framing, stair landings, treads, stringers, handrails, platform railings and panels, gate fabric, and hardware.

    1. Main Frame: Structural steel tubing and angle iron
    2. Platforms: Diamond grip-strut treads
    3. Side Railings: Galvanized expanded metal in-fill
    4. Safety Items:
        a. OSHA-compliant caution signage
        b. Safety chain on top level
        c. Limited "limited access" gate with padlock

D. Include all materials and labor to fabricate and install a 24-foot fixed viewing tower with stairs, which is to be bolted onto a concrete pad (poured by others) utilizing a welded embedded assembly provided by the same vendor as the tower.

E. Coatings: Finish exposed metal frame surfaces with minimum of two coats of Rustoleum 9800 series DTM urethane in a ®Pantone or national brand color: _____ for the frame. All other exposed surfaces to be galvanized.

F. Viewing levels: Three (3) two-person levels at 8', 16', & 24' facing the practice field (on gate/door end AND three landings at 12' &20' opposite the field (4' level is blocked by grates). Ignore rear landings if not needed.

G. Capacity: Maximum allowed by local code...not to exceed two per front level.

H. Roof: NONE

I. Overall dimensions: Approximately 5'10" X 9'8.5" X 27'6".

J. Limited Access: Expanded metal grates to enclose up to approximately 12'. Nominal 8' gate one half of narrow end of structure toward the field.

K. Wind ratings: 103 M.P.H. when the specified floating ballast slab is provided. On normal soil, the footprint to obtain this wind rating is 11' X 11' X 18"

2.03 FABRICATION

Prefabrication: No field welding shall be performed.

PART 3 EXECUTION

3.01 DELIVERY

Delivery to job site is to be included. Adequate ingress/egress is to be provided by others.

3.02 INSTALLATION

Vendor to arrange standard crane rental with experienced operator to stand fully-assembled tower onto slab prepared by others.

3.03 GRADE AND SEED

Vendor is not responsible to grade and seed the area.

3.04 CLEAN AND ADJUST

Tower is to be user-ready.