1.03 STRUCTURAL STEEL CONTRACTOR QUALIFICATIONS

A. The term Structural Steel Contractor refers to any or all of the following parties, regardless of their contractual relationships: Structural Steel Fabricator, Structural Steel Detailer, Structural Steel Erector and Contractor's Engineer

B. Qualification Data: Submit qualification data (personnel and firm resumes, and project lists with references) for the Structural Steel Fabricator ("Fabricator"), Structural Steel Detailer ("Detailer"), Contractor's Engineer(s) and Structural Steel Erector ("Erector").

C. The Fabricator shall have 10 years of comparable experience in installations of this type and shall employ labor and supervisory personnel familiar with the type of installation, experienced in fabrication and erection of structural steel for projects of similar size and complexity. At the time of bid the Fabricator shall be AISC certified to the Standard for Steel Building Structures (STD) and must submit proof of these qualifications. The Fabricator's qualifications shall be subject to review by the Design Professionals and Owner.
   1. Fabricators without AISC Certification will be responsible to pay all costs associated for a third party inspector to monitor the work in their shop; this inspector shall be selected and hired by the Owner. The amount for the third party inspector will be deducted from the approved contract amount

D. The Fabricator shall be AISC certified with the Sophisticated Paint Endorsement, and must submit proof of this endorsement.

E. The Detailer shall have 10 years experience preparing detailed steel shop drawings

F. The Contractor's Engineer(s) shall be qualified to perform the type of work required by the project. The Engineer(s) shall be a Licensed Structural Engineer(s) in the State of the project. The Contractor's Engineer(s) shall have 10 years of experience being in responsible charge of work of this nature. The proposed Engineer(s) shall be subject to approval of Design Professionals and Owner.

G. The Erector shall have 10 years of successful experience erecting structural steel for structures of this type and complexity in the region of the project

H Welding: Qualify the welding procedures, shop welders, field welders, welding operators and tackers in accordance with AWS D1.1 and for the following periods of effectiveness of certification
   1 Certification of welding personnel shall be less than six months old at commencement of welding on this project. Certification shall remain in effect for duration of work provided welders are continuously engaged in performing the type of welding for which they are certified, unless welders fail to perform acceptable welding, as determined by the Owner's Testing Agency. Certification and re-certification of welding personnel is subject to verification by the Testing Agency. Re-testing for re-certification will be the Contractor's responsibility.

fabrication and erection documents, including the structural engineer of record's approval of connections, to the Special Inspector. The special inspections engineer of record shall use the approved documents to conduct special inspections during construction

8. Material receiving. The special inspections engineer of record shall conduct special inspections of steel elements, welding material, and high strength bolts upon receipt on the construction site and in accordance with AISC 360-10. High strength bolts and nuts shall be clearly marked with an identifiable manufacturer's mark on both the bolt head and nut. All shipments of high-strength bolts, nuts, and washers, whether from manufacturer, distributor, or reseller, shall include manufacturer's current test reports for chemical composition (ASTM A751) and mechanical properties, including proof load testing (ASTM F606).

9. Steel elements. The special inspections engineer of record shall conduct special inspections of steel elements in accordance with AISC 360-10.

10. Steel erection. Erection shall be in conformance with industry standard practice (AISC 303). Adequate guying and bracing shall be used during the erection process to maintain the stability of the structure. Structural steel, joists, etc. shall not be erected on concrete or masonry footings, piers, walls, etc. less than seven days old, or less than 75 percent strength (concrete f'_c or masonry f'_m), unless the concrete and masonry strength criteria that have been established by the structural engineer of record for carrying such loads are satisfied. The special inspections engineer of record shall conduct special inspections of anchor bolts, bolts, welding, connections, and details. Any observed discrepancies between the approved construction documents and the approved structural steel fabrication and erection documents shall be brought to the immediate attention of the structural engineer of record. All steel elements shall be inspected before they are covered by fire-resistant materials or otherwise concealed.

11. High strength bolts. Installation shall conform to the approved construction documents, Approved structural steel fabrication and erection documents, and the RCSC specification. In the event any bolt, nut, or washer is broken during normal installation (except bolts purposely over-torqued in order to draw the parts together), the special inspections engineer of record shall bring such failures to the immediate attention of the structural engineer of record. The special inspections engineer of record shall observe the on-site proof load testing of any suspect bolt(s) per ASTM and AISC standards. Should the bolts fail load testing, they shall be rejected and the structural engineer of record shall make recommendations in writing for remedial actions. All test results and recommendations shall be reported to the EOR.

12. Welding. All welders and weld special inspectors shall be certified in accordance with AWS D1.1. Weld inspection shall be in conformance with AISC 360-10. Periodic special Inspection rather than continuous special inspection is permitted for the following items:

    a. Single pass fillet welds not exceeding 5/16 inch in size

    b. Floor and roof deck welding

    c. Welded studs when used for structural diaphragm

    d. Welded sheet steel for cold-formed steel framing members such as studs and joists