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## QUALIFICATION OF STEEL FABRICATION SHOPS & PLANTS

### **GENERAL**

In addition to the requirements set forth in the Standard Specifications, all steel fabrication shops and plants, shall be on an approved list prior to letting for work covered by Iowa Department of Transportation, English or Metric, Standard Specifications for Highway and Bridge Construction.

Approved fabrication shops and plants shall be on the following basis:

1. Approved Quality Control Plan/procedures
2. Qualified quality control personnel
3. Applicable certifications
4. Shop approval (welding equipment, machinery, etc.)
5. AISE approval (if applicable)

### **GROUPS OF FABRICATION**

All steel fabrication can be divided into two groups:

1. Steel structures with main members per Section 2408.01.
2. Other steel items are as follows:
  - a. Bridge Components and Miscellaneous Items. This includes bearing assemblies, sole plates, expansion joint devices, pile and appurtenances, drainage system components, guardrail connections, metal railing, chain link enclosures, wire fence components, conduit systems, and tread plates.
  - b. Traffic Signal Components
  - c. Sign Support Components
  - d. Lighting Structure Components
  - e. Pre-engineered Pedestrian Bridges

For all the items in group 2, welding procedures and requirements shall conform to the ANSI/AWS D1.1 structural welding code, except that filler metal and welder qualification requirements shall be in accordance with the current Standard Specifications.

### **APPROVAL & QUALIFICATION**

The basis of approval and qualification of a shop or plant will be based on its quality control program, equipment, welding procedures, certified welders, capability and resources to fabricate the items listed to the appropriate specification requirements.