

**KANSAS DEPARTMENT OF TRANSPORTATION  
SPECIAL PROVISION TO THE  
STANDARD SPECIFICATIONS, EDITION 2015**

Delete SECTION 1607 and replace with the following:

**SECTION 1607**

**STRUCTURAL STEEL**

**1607.1 DESCRIPTION**

This specification governs the structural steel shapes, plates, bars, and bearing pins utilized for construction purposes.

**1607.2 REQUIREMENTS**

**a. General.** Dimensions, standard ASTM/AISC shapes, and specific fabrication requirements are as specified in the Contract Documents. Property requirements for the base steel are governed by the classification, designation, or grade of steel specified in the Contract Documents and in accordance with **subsection 1607.2b**.

**b. Structural Steel.**

(1) Provide steel that complies with AASHTO M 270 or ASTM A 709. Miscellaneous structural items may utilize ASTM A 36 or A 500; etc., but material changes to the Contract Documents require the approval of the State Bridge Office or the Bureau of Construction and Materials, Structural Materials Engineer. When any grade of steel from AASHTO M 270 or ASTM A 709 followed by the letter "T" (Tension, Non-Fracture Critical) or "F" (Fracture Critical) and a temperature zone number (2 or 3) is specified in the Contract Documents, the corresponding Charpy V-notch (CVN) impact testing requirements are mandatory, regardless whether or not the steel is subject to tensile stress or utilized in a fracture critical application.

(2) Steel component edges that are produced by methods, such as mechanical shearing, that induce significant residual stress fields are to be stress relieved by machining not less than 1/4 inch of material from the edge if the component is over 5/8 inch in thickness and subject to a calculated stress field. Fabrication procedures that produce low radius edge intersections are to have these stress concentration effects reduced by a fillet at the intersection of not less than 1-inch radius in accordance with the requirements and procedures of AASHTO/AWS D1.5. Discontinuities such as seams, rolling laps, tears, gas porosity etc. observed in steel components and weldments are subject to the detection methods, acceptability criteria, repair methods and procedures, and other requirements of AASHTO/AWS D1.5. Unless specified otherwise, steel components and fabrications are subject to AASHTO/AWS D1.5 for the quality of the final product. In addition, all structural steel components are subject to the quality requirements of ASTM A 6 throughout the fabrication process.

(3) Produce bearing pins from steel that complies with ASTM A 108, SAE 1018, or **subsection 1607.2b.(1)** unless specified otherwise in the Contract Documents.

**c. Content Removed.**

**1607.3 TEST METHODS**

Conduct all tests required by the applicable AASHTO, ASTM, AISC, AWS, or other component or material specifications of **subsection 1607.2b**.

**1607.4 PREQUALIFICATION**

Not applicable.

**1607.5 BASIS OF ACCEPTANCE**

**a. Structural Steel.** Submit for approval a Type A certification (certified mill test report), as specified in **DIVISION 2600**, that governs the analysis of all bar steel heats delivered to the project.

**b.** The final disposition of steel components provided through this specification will be completed at the final destination as the result of inspection by field personnel for the quality of workmanship, the delivery condition, compliance with dimensional requirements and receipt. Certain fabricated structural components may also require inspection during the production process at the fabrication facility.

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