**NOTICE**

This Standard Special Provision (SSP) revises or modifies CDOT’s Standard Specifications for Road and Bridge Construction. These are the official instructions for its use on CDOT construction projects, and the Construction Engineering Services Branch has reviewed, approved, and issued it. Use as written without change. Do not use modified versions of this SSP on CDOT construction projects. Do not use this special provision on CDOT projects in a manner other than specified in the instructions without approval by CDOT’s Standards and Specifications Unit. The instructions for use appear below.

Other agencies using the Standard Specifications for Road and Bridge Construction to administer construction projects may use this special provision appropriately and at their own risk.

**Instructions for use on CDOT construction projects:**

All projects with 518, Waterstops and Expansion Joints.

**Revise Section 518 of the Standard Specifications as follows:**

**Revise subsection 518.04, paragraph 2, beginning with “Structural steel sections shall . . .”, as follows:**

The device shall consist of a continuous premolded elastomeric expansion joint seal, anchors and steel extrusions as shown on the plans, required by the manufacturer, or specified herein for attaching the elastomeric expansion joint seal to the steel armor. The expansion device shall have a rated movement of 0 to 4 inches including rotations.

**Revise subsection 518.04, paragraph 4, beginning with “Structural steel sections shall . . .”, as follows:**

Structural steel sections shall conform to the specifications of AASHTO M 270 (ASTM A709 Grade 36). Fabrication of structural steel shall conform to the requirements of Section 509. All welding on elastomeric expansion devices shall conform to AWS D1.1. The material designations for all steel components shall be shown on the Contractor's working drawings.

**Revise subsection 518.05, (b), paragraph 1 after the table, beginning with “Structural steel shall . . .”, and add 3rd paragraph, as follows:**

* + 1. The following components shall meet the listed requirements:

|  |  |
| --- | --- |
| Structural Steel (except center beams, edge beams and support bars) | AASHTO M 270 (ASTM A709) Grade 36 |
| Center Beams, Edge Beams and Support Bars | AASHTO M 270 (ASTM A709) Grade 50  or  AASHTO M 270 (ASTM A709) Grade 50W |
| Headed Studs | ASTM A108 |
| Premolded Seals, Lubricant Adhesive, and Sliding Surfaces | Conforming to manufacturer's current literature |
| Stainless Steel Bearing Surfaces | Subsection 705.06 |

The steel fabricator for modular expansion devices shall be certified under the AISC Quality Certification for Simple Steel Bridges category, as a minimum.

All structural steel elements of the bridge expansion device, including cover plates, shall be galvanized after fabrication in accordance with Section 509, whether or not they are in contact with the elastomeric seals.

All welding on modular expansion devices shall conform to AWS D1.1.