1. September 3, 2020
2. REVISION OF SECTION 709

REINFORCING STEEL AND WIRE ROPE

**NOTICE**

This is a standard special provision that revises or modifies CDOT’s *Standard Specifications for Road and Bridge Construction.* It has gone through a formal review and approval process and has been issued by CDOT’s Project Development Branch with formal instructions for its use on CDOT construction projects. It is to be used as written without change. Do not use modified versions of this special provision on CDOT construction projects, and do not use this special provision on CDOT projects in a manner other than that specified in the instructions unless such use is first approved by CDOT’s Standards and Specifications Unit. The instructions for use on CDOT construction projects appear below.

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

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

Use in projects having reinforcing steel and wire rope.

Section 709 of the Standard Specifications is hereby revised for this project as follows:

**709.01 Reinforcing Steel.** Reinforcing steel shall conform to the requirements of the following specifications:

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| Deformed and Plain Billet-Steel Bars for Concrete Reinforcement | ASTM A615 |
| Axle-steel Deformed and Plain Bars for Concrete Reinforcement | ASTM A996 |
| Low-Alloy Steel Deformed Bars for Concrete Reinforcement [to be Welded] | ASTM A706 |
| Fabricated Deformed Steel Bar Mats for Concrete Reinforcement | ASTM A184 |
| Steel Welded Wire Fabric, Plain for Concrete Reinforcement | AASHTO M 55 |
| Steel Welded Wire Fabric, Deformed for Concrete Reinforcement | AASHTO M 221 |
| Epoxy Coated Reinforcing Bars | AASHTO A 775 |
| Zinc-Coated (Galvanized) Steel Bars for Concrete Reinforcement | ASTM A767 |
| Deformed and Plain Stainless Steel Bars for Concrete Reinforcement | ASTM A955 |
| Deformed and Plain, Low-Carbon, Chromium, Steel Bars for Concrete Reinforcement | ASTM A1035 |
| Continuous Hot-Dip Galvanized Steel Bars for Concrete Reinforcement | ASTM A1094 |

Unless otherwise designated, bars conforming to ASTM A615 & ASTM A996 shall be furnished in Grade 60.

In ASTM A 184, bar material conforming to ASTM A616 will not be permitted.

In ASTM A955, bar material shall be furnished in Grade 75 unless otherwise designated.

In ASTM A1035, bar material of Type CL will not be permitted unless designated in the plans or otherwise approved by the Engineer.

**709.02 Wire Rope.** The wire rope shall conform to the requirements of AASHTO M 30 for the specified diameter and strength class.

**709.03 Dowel Bars and Tie Bars.** Tie bars for longitudinal and transverse joints shall conform to AASHTO A 775 and shall be grade 40, epoxy-coated, and deformed. Bar size shall be as designated on Standard Plan M-412-1.

Dowel bars for transverse joints shall conform to AASHTO M 254 for the coating and to ASTM A615, grade 60 for the core material and shall be epoxy-coated, smooth, and lightly greased, precoated with wax or asphalt emulsion, or sprayed with an approved material for their full length. Bar size shall be as designated on the Standard Plan M-412-1.