

**IOWA DEPARTMENT OF TRANSPORTATION**

To Office Bridges and Structures Date August 1, 2009  
Attention All Employees Ref No. 521.1  
From Dean Bierwagen  
Office Bridges and Structures  
Subject Revision of the English Bridge Standards 4600, 4610, 4620, 4621, 4630, 4632, 4636, 4700, 4703, 4705, 4706, 4719s1, 4730, 4731, 4732, 4733, 4734, 4748s1, 4750, 4752, 4753, 4763, 4764, 4765, 4770s1, 4770s2, 4771, 4772, 4773, 4781, 4782, 4784, & 4790s1. (CADD M0155)

These standards are located in the EnglishBeams.dgn file. Electronic copies are available in the following Office of Bridges and Structures standard directory  
**W:\Highway\BridgeStandardsBridges** and on the Internet:

<http://www.dot.state.ia.us/bridge/standard.htm>

1. The following standards 4600, 4610, 4620, 4630, 4636, 4700, 4719, 4730, 4748, 4750, 4765, 4770s1, 4770s2, and 4790s1 were revised.

The Construction Specification references were updated to 2009 the AASHTO LRFD Specification references were updated to 2007.

2. The following standards 4621, 4632, 4703, 4705, 4706, 4731, 4732, 4733, 4734, 4752, 4753, 4763, 4764, 4771, 4772, and 4773 were revised.

Additional pairs of prestressed strands were added to the following beams:  
C34, C38, D45, BTC40, BTC50, BTC55, BTD50, BTD55, BTD60, BTD65, BTB35, BTB40, BTB90, BTB95, BTE60, BTE65, and BTE70

3. The following standard 4770 was revised.

The release concrete strengths (fci) were updated to 5.0 ksi for the BTE80 through BTE95 and the final concrete strengths (f'c) were updated to 6.0 ksi for the BTE80 through BTE110. Also, the release concrete strength and final concrete strength for the BTE125 was updated to 6.5 ksi and 7.5 ksi.

4. The following standards 4781, 4782, and 4784 were revised.

Pairs of prestressed strands were shifted in the following beams:  
BTE110, BTE115, and BTE125

These revised standards should be used on all new projects. If you have any questions on the issued sheets, please check with Thayne Sorenson or Dean Bierwagen.

DGB/tos/bj