

**IOWA DEPARTMENT OF TRANSPORTATION**

To Office Bridges and Structures Date February 1, 2008  
Attention All Employees Ref No. 521.1  
From Gary Novey  
Office Bridges and Structures  
Subject Release of new superstructure and integral abutment standards for use with the prestressed bulb tee beams, 2078BTB-2091BTE, 4380-BTB-4 thru 4385-BTE-6, 4500-BTB thru 4513-BTE, and 4514-BTB thru 4521-BTE.  
(CADD M0054)

These standards shall be used with the new wing standard sheet and were developed with the new rectangular abutment wing. See CADD M0095 released February 1, 2008 for additional information on the new wing standard details.

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>

The following standards have been released for use

1. 2078-BTB to 2084-BTB

These integral abutment standards are for BTB beams without wing extensions.

2. 2085-BTCD to 2091-BTE

These integral abutment standards are broken down into BTC and BTD with the 5 ft wing extension and BTE with the 7 ft wing extension.

3. 4380-BTB-4 to 4380-BTE-5

The cross section details are for 30'-0 roadways for each beam type along with additional beam lines for some of the longer spans that require reduced beam spacing. The last number of the standard is the number of beam lines (4380-BTE-5 has 5 beam lines in the cross section).

4. 4383-BTB-5 to 4383-BTE-6

The cross section details are for 40'-0 non-symmetrical roadways for each beam type along with additional beam lines for some of the longer spans that require reduced beam spacing. The last number of the standard is the number of beam lines (4383-BTE-6 has 6 beam lines in the cross section).

CADD M0054 (Release of new superstructure and integral abutment standards for use with the prestressed bulb tee beams)

5. 4384-BTB-6 to 4384-BTE-6

The cross section details are for 44'-0" roadways for each beam type along with additional beam lines for some of the longer spans that require reduced beam spacing. The last number of the standard is the number of beam lines (4384-BTE-6 has 6 beam lines in the cross section).

6. 4385-BTB-5 to 4385-BTE-6

The cross section details are for 40'-0" symmetrical roadways for each beam type along with additional beam lines for some of the longer spans that require reduced beam spacing. The last number of the standard is the number of beam lines (4385-BTE-6 has 6 beam lines in the cross section).

7. 4500-BTB to 4506-BTB Part Plan and Longitudinal Section.

The standards details for part plan and longitudinal section are for BTB details without the wing extension.

8. 4507-BTCD to 4513-BTCD and 4507-BTE to 4513-BTE Part Plan and Longitudinal Section.

The details for part plan and longitudinal section are broken down into BTC and BTD with a 5 ft wing extension and BTE with a 7 ft wing extension.

9. 4514-BTB to 4517-BTB Bar List and Super. Details

The bar list and super details for integral abutment are for BTB details without the wing extension.

10. 4518-BTCD to 4521-BTCD and 4518-BTE to 4521-BTE Bar List and Super Details

The bar list and super details for integral abutment are broken down into BTC and BTD with a 5 ft wing extension and BTE with a 7 ft wing extension.

These standards should be used on any new bulb tee beam bridge project. If you have any questions on the new standard sheets, please check with Thayne Sorenson or Dean Bierwagen.

GAN/dgb/bj