

## IOWA DEPARTMENT OF TRANSPORTATION

To Office Bridges and Structures Date June 1, 2012  
Attention All Employees Ref No. 521.1  
From Gary Novey  
Office Bridges and Structures  
Subject Revision of the English Miscellaneous Bridge Standard.  
(CADD M0280)

Electronic copies are available in the following Office of Bridges and Structures standard directory **W:\Highway\Bridge\Standards\Bridges** and on the Internet:

<http://www.iowadot.gov/bridge/standard.htm>

The revised standard is located on the Bridge Web site.

Standard 1066 has been revised to change the information in the MISCELLANEOUS DATA TABLE for ALLOWABLE FIELD HAUNCH information to fractional inches and decimals of feet. NOTE and NOTE1 were also changed to add the wording of INCHES and DECIMALS OF FEET to reinforce this change when referring to the allowable field haunch information. The example of the SLAB HAUNCH LOCATIONS detail was replaced with a note to see the Top of Slab Elevations layout instead of duplicating an additional layout for these locations.

The following information shown in the MISCELLANEOUS DATA TABLE should be shown in inches and inches (decimals of feet) to the nearest thousandth with the zero or appropriate feet ahead of the decimal. Example is 2 ½" (0.167) for the maximum and minimum allowable field haunches.

- ANTICIPATED DEFLECTION DUE TO SLAB (IN.)
- CROSS SLOPE ADJUSTMENTS (IN.)
- ALLOWABLE FIELD HAUNCH MAXIMUM (IN. & FT.)
- ALLOWABLE FIELD HAUNCH MINIMUM (IN. & FT.)

The following notes should be changed to reflect this change. Changes shown for clarity in **BOLD**, **RED**, and *italic* do not reflect the plan notes appearance.

NOTE 1:

TO CALCULATE FIELD HAUNCH NEEDED AT EACH LOCATION, SURVEY THE BEAM TOPS CONSISTENT WITH THE SPACINGS SHOWN ON THE "**TOP OF SLAB ELEVATIONS**" LAYOUT. SUBTRACT THE SURVEYED BEAM SHOT

Attachment

FROM THE "BEAM LINE HAUNCH ELEVATION". THIS VALUE WILL BE THE HAUNCH NEEDED (SEE "FIELD HAUNCH" IN HAUNCH DETAIL). THE "BEAM LINE HAUNCH ELEVATION" INCLUDES ADJUSTMENTS FOR SLAB THICKNESSES AND ANTICIPATED DEFLECTIONS. NO ADDITIONAL CALCULATIONS ARE REQUIRED. IF THE FIELD HAUNCH EXCEEDS THE MAXIMUMS AND MINIMUMS, **SHOWN IN INCHES AND DECIMALS FEET** IN THE MISCELLANEOUS DATA TABLE, ADJUSTMENTS TO THE GRADE OR ADDITIONAL HAUNCH REINFORCEMENT WILL BE REQUIRED.

NOTE:

BRIDGE SEAT ELEVATIONS ARE SET BASED ON THEORETICAL CAMBER AND BEAM DEFLECTIONS. THESE BRIDGE SEATS WILL PROVIDE A THEORETICAL BEAM HAUNCH WITHIN DESIGN PARAMETERS. FIELD HAUNCHES ARE DETERMINED USING SURVEYED TOP OF BEAM ELEVATIONS AND "BEAM LINE HAUNCH ELEVATION" DATA. ALLOWABLE MAXIMUM AND MINIMUM "FIELD HAUNCH" VALUES, **SHOWN IN INCHES AND DECIMALS FEET**, ARE GIVEN IN THE "MISCELLANEOUS DATA" TABLE. "CROSS SLOPE ADJUSTMENT" VALUES WILL AID THE CONTRACTOR IN DETERMINING ACTUAL FORMED HAUNCH DIMENSIONS AT THE EDGES OF THE TOP FLANGE.

For any questions, please check with Stuart Nielsen or Thayne Sorenson.

GAN/ssn