



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JAMES B. HUNT JR.
GOVERNOR

DAVID MCCOY
SECRETARY

August 22, 2000

MEMORANDUM

TO: Division Operations Engineers
(Attn.: Division Traffic Engineers)
Area Traffic Engineers
Signing Section Personnel

FROM: Ron King, P. E. *RK*
Signing Engineer

THRU: J. M. Lynch, P. E. *JML*
State Traffic Engineer

SUBJECT: Splice Detail for 2-lb. and 3-lb. U-channel Post

Our current Roadway Standard Drawing No. 904.50, sheet 2 of 2, shows the detail for splicing 3-lb U-channel posts for mounting of Types D, E, and F signs. We have obtained approval from the Structure Design Unit to splice 2-lb and 3-lb U-channel posts on single support for a 9 ft² or less sign or on two posts for a 24 ft² or less sign. Attached is a copy of the splice detail.

The Signing Section will continue to use the roadway standard drawing on all TIP and purchase order projects. However, feel free to apply the attached splice detail at your convenience for maintenance operations. If you have any questions, please advise.

Attachment

cc: J. D. Goins, P. E., Attachment
R. L. Hill, P. E., Attachment
(Attn.: D. M. Barbour, P. E.)
T. M. Hopkins, P.E., Attachment
J. F. Permar, P. E., Attachment



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TO: Ron King
State Signing Engineer

FROM: Timothy V. Rountree, P. E.
State Bridge Design Engineer

Timothy V. Rountree KWL

DATE: June 29, 2000

SUBJECT: Splicing of 2# and 3# "U" Channel Post

The Structure Design Unit has reviewed the "ALTERNATE DETAILS FOR SPLICING STEEL U-CHANNEL POST ON SMALL SIGN SUPPORT" and has the following comments.

The detail specifies an increase in the splice length from the 7" splice recommended by Structure Design in 1983 to a 12" to 24" splice. The 7" splice length was actually intended to be a minimum length. Increasing the length will result in a stronger connection so cost or other factors should control that decision.

Structurally, the limiting factor of the alternate detail is the strength of the 2# "U" channel post. The maximum length of this channel above the splice should be 6'-0" for a 9 square foot sign on a single post and 5'-0" for a 24 square foot sign on 2 posts.

If you have any further questions please let us know.

TVR/KWL



ALTERNATE DETAILS FOR SPLICING
STEEL U-CHANNEL POST
ON SMALL SIGN SUPPORT

TO BE USED WITH 9 ft² OF SIGN AREA OR LESS ON SINGLE POST
TO BE USED WITH 24 ft² OF SIGN AREA OR LESS ON TWO POSTS

