

IOWA DEPARTMENT OF TRANSPORTATION

To Office Bridges and Structures

Date July 27, 2007

Attention All Employees

Ref No. 521.1

From Gary Novey

Office Bridges and Structures

Subject Method's Memo No. 171 (Revised CADD note E1020/M1020)

The following CADD notes have been updated to take advantage of the Materials IM 451 appendix E for approved suppliers of mechanical splices (to be issued October 2007). The coil tie option has been removed.

E1020: Reinforcing, mechanical splices, stage construction

THE ___ BARS IN THE ABUTMENT BACKWALLS SHALL BE SPLICED AT THE LOCATIONS SHOWN USING MECHANICAL SPLICE ASSEMBLIES. MECHANICAL SPLICE ASSEMBLIES CONSIST OF MECHANICAL SPLICERS AND REINFORCING SPLICE BARS AS REQUIRED TO FACILITATE THE USE OF THE MECHANICAL SPLICER. THE MECHANICAL SPLICE ASSEMBLY USED SHALL MEET THE REQUIREMENTS OF MATERIALS IM 451 APPENDIX E. . REINFORCING SPLICE BARS SHALL BE A MINIMUM OF ___ INCH DIA.

ALL MECHANICAL SPLICE ASSEMBLIES TO BE USED IN SPLICING ___ BARS IN THE ABUTMENT BACKWALLS SHALL BE EPOXY COATED.

THE COST OF ALL SPLICE ASSEMBLIES IS TO BE INCLUDED IN THE PRICE BID FOR "REINFORCING STEEL EPOXY COATED" AND NO SEPARATE PAYMENT WILL BE MADE. THE WEIGHT OF MECHANICAL SPLICE ASSEMBLIES IS NOT INCLUDED IN THE QUANTITY SHOWN FOR "REINFORCING STEEL EPOXY COATED". A TOTAL OF x EPOXY COATED SPLICE ASSEMBLIES WILL BE REQUIRED.

This note is to be used in stage construction of the backwall where space is tight and bars in Stage I construction cannot extend past the construction joint and provide the required lap for Stage II construction. A note similar to this may be used whenever stage construction interferes with Stage I rebar placement (i.e. pier caps, abutment footing, bridge slab adjacent to sheet pile).

M1020: Reinforcing, mechanical splices, stage construction

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If you have any questions please check with me.

GAN:dgb:bj