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EAYSUT MNM 12/20/07 DRAWN DAP 01/12/07 REVIEWED JJT 01/15/07

ROUTE NO.	SECTION	EFFINGHAM		GHEETS	SHEET NO.	SHEET NO. 2
-	*			95	58	23 SHEETS
FED. ROAD 518T. NO. 7		ILLING:5	FED. ALD PROJECT-			1

<u>NOTES</u> Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars. Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and fied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements: Minimum Capacity = 1.25 x fy x A_1 (Tension in kips) = 1.25 x fy x A_1 Minimum *Pull-out Strength = 0.66 x fy x A_1 Where fy = Yield strength of lapped reinforcement bars in ksi. A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete BAR SPLICER ASSEMBLIES Strength Requirements Splicer Rod or Min, Capacity Min, Pull-Out Strengt be Spliced Dowel Bar Length kips - tension kips - tension 1'-8'' *i4.7* 7.9 12.3 2'-0' 23.0 17.4 2'-7" 33.1 3'-5" 45.1 23.8 4'-6'' 58.9 31.3 75.0 5'-9' 39.6 7'-3" 95.0 50.3 117.4 61.8 9'-0" Stage I Construction Stage II Construction Threaded or Coll Splicer Rods (E) Threaded or Coll Reinforcement Loop Couplers (E) Bars $\frac{l'2''}{cl}$ STANDARD Bar No. Assemblies Location Size Required BAR SPLICER ASSEMBLY DETAILS OUTER BELT WEST OVER TRIBUTARY TO LITTLE WABASH RIVER LOCAL ROAD SEC. 03-00098-00-BR EFFINGHAM COUNTY STATION 415+66.00 STRUCTURE NO. 025-6009 C Copyright Hanson Professional Services Inc. 2007 0552071 HANSON 03/29/07