

ROUTE NO.	SECTION		COL	JNTY	TOTAL SHEETS	SHEET NO.
С.Н. З	07-0018 -00-BF		WHIT	ESIDE	32	25
		ILLINOIS				

Sheet 20 of 22 Contract No.85465

NOTES

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 tied 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 (Tension in kips) = $1.25 \times fy \times A_t$

(Tension In кира) Minimum *Pull-out Strength ... = 0.66 x fy x A_t (Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi. A_1 = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

> BAR SPLICER ASSEMBLIES Strength Requirements Splicer Rod or Min. Capacity Min. Pull-Out Strength be Spliced Dowel Bar Length kips - tension kips - tension 7.9 1'-8' 14.7 2'-2" 12.3 23.0 2'-7" 33.1 17.4 3'-5'' 45.1 23.8 4'-6" 58.9 31.3 5'-9" 75.0 39.6 71-31 95.0 50.3 117.4 61.8 9'-0''

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Bar Size	No. Assemblies Required	Location	
#5	72	Abuts.	

BAR SPLICER ASSEMBLY DETAILS SECTION 07-00188-00-BR COUNTY HIGHWAY 3 WHITESIDE COUNTY STA. 48+02.50

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JOB NO.: 47515 FILE: SPLICER.DGN DATE: 08/17/09