

ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.	SHEET	NO.	<i>1</i> 6
FAS 1732	*	масс	DUPIN	22	19	17 sh	EETS	
FED. ROAD DIST. NO. 7		TLLENOIS	FEC. ALD PR	DJECT-	L			
*01 000	01 00	00						

*01-00081-00-BR

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:

(lension in hips) Minimum *Pull-out Strength = 1.25 x fs_{allow} x A_t

Where fy = Yield strength of lapped reinforcement bars in ksi.

fs_{allow}= Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

BAR SPLICER ASSEMBLIES					
		Strength Requirements			
	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension		
	1'-8''	14.7	5.9		
	2'-0''	23.0	9.2		
	2'-7''	33.1	13.3		
	3′-5″	45.1	18.0		
	4'-6''	58.9	23.6		
	5′-9″	75.0	30.0		
	7'-3''	95.0	38.0		
	9'-0''	117.4	46.8		

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

1 Construction	Stage II Construction
readed or Coil op Couplers (E) <u>I2''</u> cl.	Threaded or Coll Reinforcement Splicer Rods (E) Bars

STANDARD

		ILLINOIS DEPARTMENT OF TRANSPOR	RTATION
ies	Location	BHEET TITLE BAR SPLICER ASSEMBLY DETAI	LS
	Deck	EAS DOUTE 1732 (COUNTY DOUTE 11)	PROJECT NO. 04081
	Diaphragms	SECTION 01-00081-00-BR	SCALE
	W. Abut.	MACOUPIN COUNTY STATION 167+61.06	07/07/06 DRAWN BY TFG
	E. Abut.	STRUCTURE NUMBER 059-3331	CHECKED BY MCB
	Pier	COOMBE-BLOXDORF P.C.	DRAWING NO.
		Engineers / Land Surveyors Springfield, Illinois	16
		Design Firm License No. 184-002703	OF 17 SHTS