STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



Approach Slab	Stage I Construction Stag	e II Cons
Threaded or Coil Splicer Rods (E)		aded or (er Rods
6'-0''	$\frac{l_2' \cdot \prime}{Cl}$	
	STANDARD	

Bar Size	No. Assemblies Required	Location
#5	366	Superstruct
#6	16	Superstruct
#6	40	Substructu
#7	44	Substructu

	Bridge Deck	Approach Slab
Reinford Bars	cement Threaded or Coil Loop Couplers (E)	Threaded or Coil Splicer Rods (E)
-	4'-0''	6'-0''

FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar	- Spi	licer	foi	- #5	bar		
Min.	Capacity	= 2	3.0	kip	s - 1	^t ensic	n	
Min.	Pull-out	Stre	ngth	=	12.3	kips	-	tension
No.	Required	= 7,	2					

BENTON & ASSOCIATES, INC.

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NRF	
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	11 - 1 - 06
	NRF

ROUTE NO.	SECTION	COUNTY		TDTAL SHEETS	SHEET NO.	SHEET NO. /	9
FAP 322	24BR-1	FAYETTE		57	39	22 SHEETS	
PED. PORD DIST, ND. 7 ILLINDIS FED. AD		FED. AID PR	DJECT-				

Contract # 94770

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:

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 Dowel Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension				
1'-8''	14.7	7.9				
2'-0''	23.0	12.3				
2'-7''	33.1	17.4				
3'-5''	45.1	23.8				
4'-6''	58.9	31.3				
5'-9''	75.0	39.6				
7'-3''	95.0	50.3				
9'-0''	117.4	61.8				

- Stage Construction Line instruction

#10 #11

> Coil (E) Reinforcement Bars



BAR SPLICER DETAILS US 51 / RICHLAND CREEK F.A.P. RT. 322 FAYETTE COUNTY SN. 026-0104