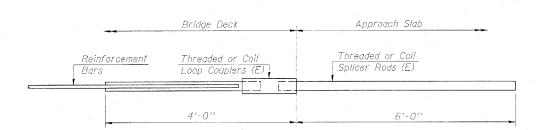


BAR SPLICER ASSEMBLY ALTERNATIVES

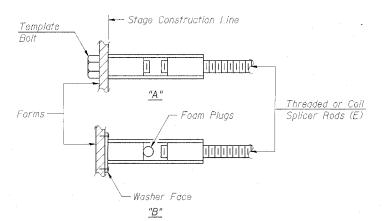
WELDED SECTIONS

** Heavy Hex Nuts conforming to ASTM A 563. Grade C. D or DH may be used.



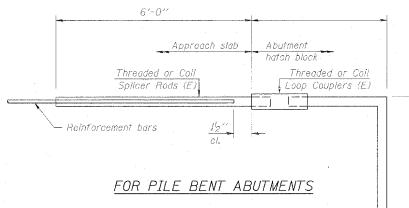
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bai	Splicer	foi	- #5	5 bar		
Min.	Capacity	= 23.0	kip	s -	tensi	on	
Min.	Pull-out	Strength	=	9.2	kips	-	tension
No.	Required	=			-		



INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 9.2 kips - tensio

No. Required =

	ige I Construction	Stage II Constructio	·D
Reinforcement Bars	Threaded or Coil Loop Couplers (E)	Threaded or Coil Splicer Rods (E)	Reinforcement Bars
	112"		A STATE OF THE STATE OF T

STANDARD

Bar Size	No. Assemblies Required	Location
7	41	Top Slab
5	. 77	Walls & Bottom Slab

SHEET NO. 6 F.A.P. (24B)8-1 FAYETTE 22 16 7 SHEETS 322 FED. ROAD DIST. NO. 7

Contract #94778

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 reinforcement bars.

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:

(Tension iii kips) Minimum *Pull-out Strength = 1.25 x fs_{allow} x A_f

(Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksl. 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					
0 0:-		Strength Requirements			
	Splicer Rod or Dowel Bar Length	Min. Capacity kips – tension	Min, Pull-Out Strength kips - tension		
#4	1′-8′′	14.7	5.9		
#5	2'-0''	23.0	9.2		
#6	2'-7''	33.1	13.3		
#7	3′-5″	45.1	18.0		
#8	4'-6''	58.9	23.6		
#9	51.911	75.0	30.0		
#10	7′-3′′	95.0	38.0		
#11	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."

BAR SPLICER ASSEMBLY DETAILS

U.S. ROUTE 51 OVER STEVE CREEK F.A.P. ROUTE 322 - SECTION (24B)B-1 FAYETTE COUNTY STATION 443+66.18 STRUCTURE NO. 026-2018



CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS INDIANAPOLIS, INDIANA EVANSVILLE, INDIANA KENOSHA, WISCONSIN SPRING GREEN. WISCONSIN

REVISIONS NAME DATE	NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.	DRAWING NUMBER
	DESIGNED BY: S.M.M. PROJECT NO: 102286 DRAWN BY: M.E.W. DATE: 4-05	S-6
	CHECKED BY: M.M.	
THE RESERVE OF THE PROPERTY OF	APPROVED BY: S.U.J. ACTIVITY INITIALS	