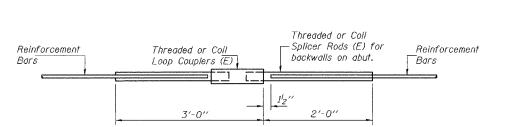


INSTALLATION AND SETTING METHODS

"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.



ROLLED THREAD DOWEL BAR

** ONE PIECE

WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES ** Heavy Hex Nuts conforming to ASTM

A 563, Grade C, D or DH may be used.

-Wire Connector

-The diameter of this part is

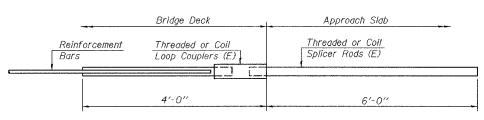
equal or larger than the

diameter of bar spliced.

TYPE I BAR SPLICER ASSEMBLY

Min. Capacity = 23.0 kips - tension	Mio	Canacity	 for #		
Min. Pull-out Strength = 9.2 kips - tens			 	 	

Bar Size	No. Assemblies Required	Location
#5	12	S. Abut. backwall
#5	14	N. Abut. backwall



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

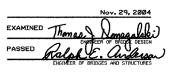
	Bar	Splicer	for	#5	5 bar		
Min.	Capacity	= 23.0	kip.	s -	tensi	on	
Min.	Pull-out	Strengtl	7 =	9.2	kips	-	tension
No.	Required	=					

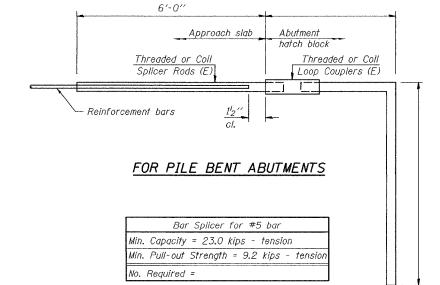
		\neg
DESIGNED	CME	
CHECKED	RLM	
DRAWN	h.t. parsons	
CHECKED	CME ZRI M	

The diameter of this part

of the bar spliced.

is the same as the diameter





SHEET NO. 32 SHEET NO. F.A.I. 80 (50-2) 35 sheets LaSALLE 174 HBR ILLINOIS FED. ALD PROJEC PED. ROAD DEST. NO. 7 Contract No. 86603

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:

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

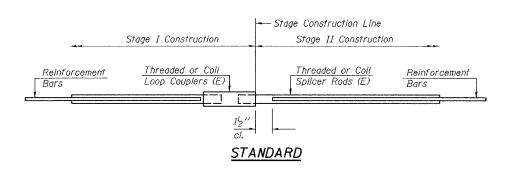
Minimum *Pull-out Strength = 1.25 x fs_{allow} x A_t

(Tension in kips) 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				
S C: 4	6.7. 5.4	Strength Requirements		
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length		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″	<i>45.1</i>	18.0	
#8	4'-6''	58.9	23,6	
#9	5′-9″	75.0	30.0	
#10	7′-3′′	95.0	<i>38.</i> 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 Size	No. Assemblies Required	Location
#5	605	Deck
#5	76	S. Approach slab
#5	76	N. Approach slab
#9	9	Pier cap
#5	12	Pier cap
#8	6	Pier crashwall
#5	10	Pier crashwall
#6	28	S. Abut. stem
#5	18	S. Abut. footing
#7	13	S. Approach bent
#6	24	N. Abut. stem
#5	18	N. Abut. footing
#7	17	N. Approach bent
#5	9	Pier footing

BAR SPLICER ASSEMBLY DETAILS F.A.I. RT. 80 - SEC. (50-2)HBR LaSALLE COUNTY STATION 62+39.22 STRUCTURE NO. 050-0230