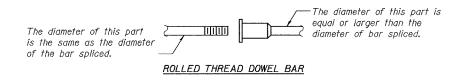
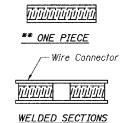


INSTALLATION AND SETTING METHODS

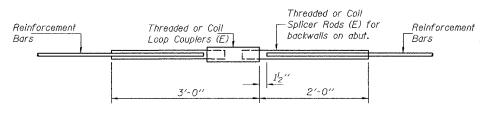
"A" : Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.





BAR SPLICER ASSEMBLY ALTERNATIVES

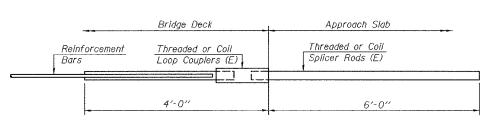
** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



TYPE I BAR SPLICER ASSEMBLY

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

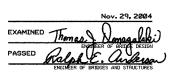
Bar Size	No. Assemblies Required	Location
#5	12	S. Abut. backwall
#5	14	N. Abut. backwall

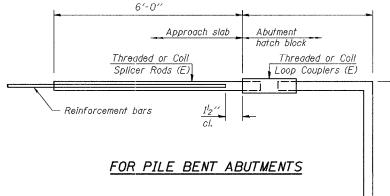


FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

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

DESIGNED	CME
CHECKED	RLM
DRAWN	h.t. parsons
CHECKED	CME/RLM





No. Required =

	Bar Splicer for #5 bar		
'n.	Capacity = 23.0 kips - tension		
· ·	Pull-out Strength = 9.2 kins - tension		

SHEET NO. 32 SHEET NO. TOTAL (50-2) F.A.I. 80 LaSALLE 35 SHEETS 174 HBR ILLINOIS FED. AID

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) = $1.25 \times fy \times A_t$

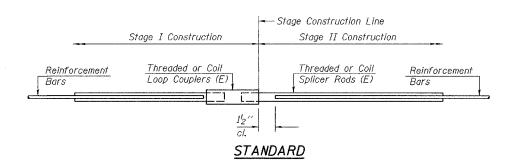
Minimum *Pull-out Strength = 1.25 x fs_{allow} x A_t

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		
Bar Size to be Spliced	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	5′-9″	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 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