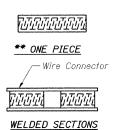
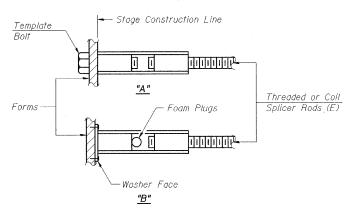


ROLLED THREAD DOWEL BAR



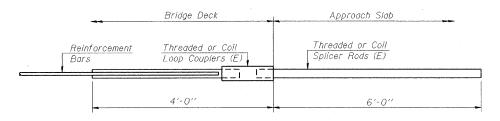
BAR SPLICER ASSEMBLY ALTERNATIVES

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



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.

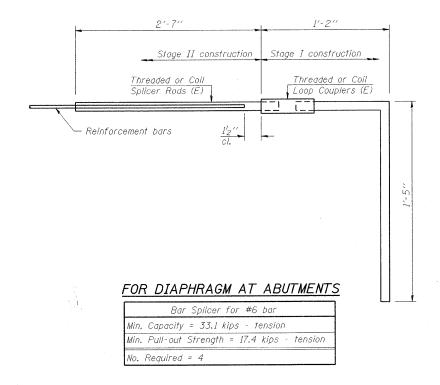


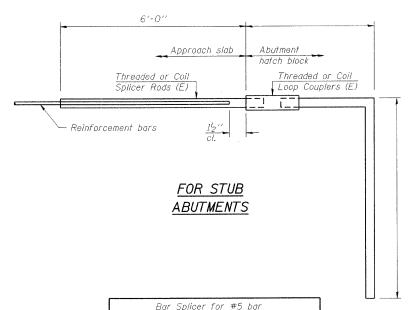
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar	Splicer	for #5	bar	
Min.	Capacity	= 23.0	kips -	tension	
Min.	Pull-out	Strength	= 12.3	kips -	tension

DESIGNED	J.ZUO
CHECKED	J. MUHAMMAD
DRAWN	D.C.PATEL
CHECKED	J.GRAINAWI

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





Min. Capacity = 23.0 kips - tension

o, Required =

Min. Pull-out Strength = 12.3 kips - tension

TOTAL BHEET NO. SHEET NO. 23 345 65 53 25 SHEETS

++ 98-00153-02-BR Contract No. 63077

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.

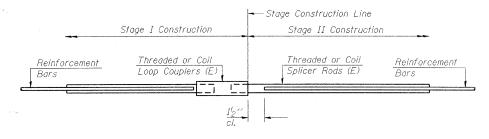
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum Capacity (Tension in kips) = 1.25 x fy x A_t

Minimum *Pull-out Strength = $0.66 \times fy \times A_t$ (Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi. # = 28 day concrete

	BAR SPLIC	CER ASSEMBLI	ES	
	Splicer Rod or Dowel Bar Length	Strength Requirements		
Bar Size to be Spliced		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension	
#4	1'-8''	14.7	7.9	
#5	2'-0"	23.0	12.3	
#6	2'-7''	33.1	17.4	
#7	3'-5''	45.1	23.8	
#8	4'-6''	58.9	31.3	
#9	5′-9′′	75.0	39.6	
#10	7'-3''	95.0	50,3	
#11	9'-0''	117.4	61.8	



STANDARD

Bar Size	No. Assemblies Required	Location
#5	<i>3</i> 65	Deak
#6	12	Diaphragm (at abutments)
#7	14	Abutments
#5	22	Abut (cap)
#5	3	Pier (cap)
#7	7	Pier (cap)
#5	30	Pier (stem)

BAR SPLICER ASSEMBLY DETAILS F.A.P. RT. 345 - SEC. 98-00153-02-BR

> DU PAGE COUNTY STATION 107+17.50 STRUCTURE NO. 022-3011

