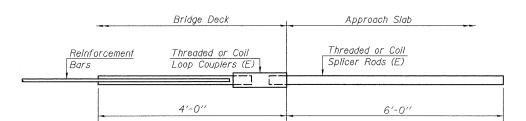


BAR SPLICER ASSEMBLY ALTERNATIVES

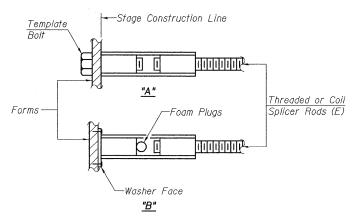
WELDED SECTIONS

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



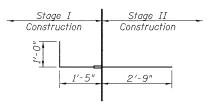
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 140



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.



#6 BAR SPLICER (E) FOR DIAPHRAGMS

SPECIAL SPLICER DETAIL

Bar No. Assemblies Size Required		Location		
#6	24	Diaphragms (Pier)		
#6	8	Diaphragms (Abutments)		

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.

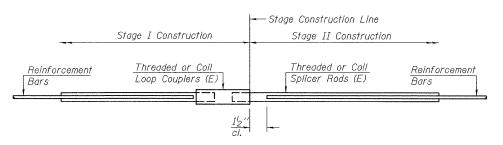
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

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) = $1.25 \times fy \times A_t$
- (Tension אין און אויא) Minimum *Pull-out Strength = 0.66 x fy x A, (Tension in kips)

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			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension		
#4	1'-8''	14.7	7.9		
#5	2'-2''	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
ı	#6	6	Pier
	#6	8	Diaphragms (Pier)
	#6	16	Diaphragms (Abutments)
ı	#5	504	Deck

rjn group)
Excellence through Ownership	0
200 West Front Street Wheaton, IL 60187	

BAR SPLICER ASSEMBLY DETAILS IL RTE. 56 OVER BLACKBERRY CREEK STATION 202+10.00 STRUCTURE NO. 045-0026 (E.B.) STRUCTURE NO. 045-0027 (W.B.)

SHEET NO.16	F.A RT
17 SHEETS	

DESIGNED: WJV

CHECKED: BLB DATE: 04/02/09

F.A.P RTE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
573	61B-BR-1			KANE	37	28
				CONTRACT	NO. 6	2817
FED.	ROAD DIST. NO. 7	ILLINOIS FE	D. AI	PROJECT		