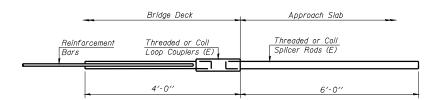
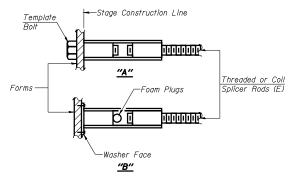


**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



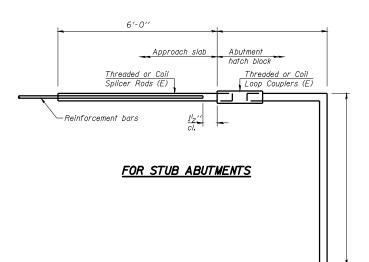
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity = 23.0 kips - tension	
Min. Pull-out Strength = 12.3 kips - tension	1
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 = 12.3 kips - tension
No. Required =

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

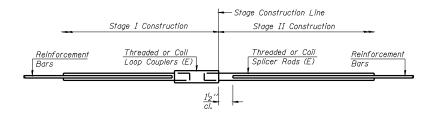
(Tension in kips)

Where fy = Yield strength of lapped reinforcement bars.

A₁ = 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				
#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			



<u>STANDARD</u>

Bar Size	No. Assemblies Required	Location			
#5	50	Top Slab			
#5	50	Bottom Slab			
#7	33	Walls			

BAR SPLICER ASSEMBLY DETAILS
IL. ROUTE 125 OVER
TRIBUTARY TO LOST CREEK
F.A.P. ROUTE 67 - SECTION (6X-1)B-2
CASS COUNTY
STA. 136+64.40
S.N. 009-2506



Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907

SHEET NO. 6 OF 9 SHEETS

F.A.P. RTE.	SECTION				COUNTY	TOTAL SHEETS		SHEE NO.	
67	(6X-1_B-2				CASS	71		40	
						CONTRACT	NO.	72	875
FED. RO	DAD DIST.	NO.	ILLINOIS	FED.	AIC	PROJECT			