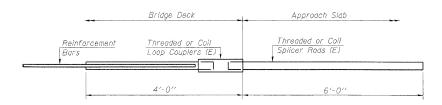


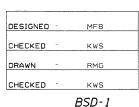
BAR SPLICER ASSEMBLY ALTERNATIVES

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

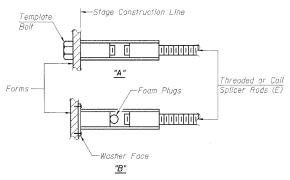


FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar	Splicer	for	#5	bar		
Min.	Capacity	= 23.0	kips	- 1	ensio	n	
Min.	Pull-out	Strength	= 1	2.3	kips	-	tension

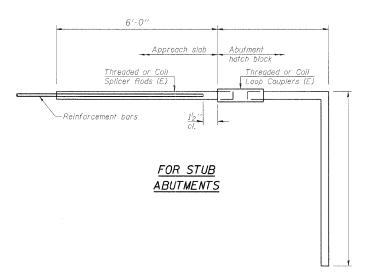


10-1-08



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	- f	ensio	n	
Min.	Pull-out	Strength) = 1	2.3	kips	-	tension

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:

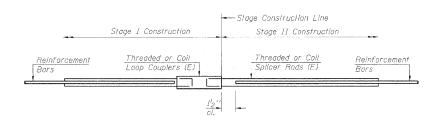
| Minimum Capacity | 1.25 x fy x A_t |
| Minimum *Pull-out Strength | 0.66 x fy x A_t |
| (Tension in kips) |

Where fy = Yield strength of lapped reinforcement bars in ksi.

A_t = Tensile stress area of lapped reinforcement bars.

*		28	dav	concrete	
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BAR SPLICER ASSEMBLIES									
		Strength Requirements							
	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strengt 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
#5	72	Deck
#4	100	Approach Slab
#5	184	Approach Slab
#5	160	Approach Footing

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 022-0138

benesch Engineers · Surveyors · Planners 205 North Michigan Avenue, Suite 2400 Chicago, Illinois 60801 312-565-0450 Job No. 10050

SHEET NO.17	F., R1 290
38 SHEETS	

T NO.17	F.A.I. RTE.	SECTION				COUNTY	TOTAL SHEETS		SHEET NO.
110.17	290 355	22(1, 1-1,	2&3)RS-	7		DUPAGE	54	6	392
HEETS					C	CONTRACT	NO.	60	G51
	FED. ROAD	DIST. NO.	ILLINOIS	FED.	AID	PROJECT			