STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



Contract # 74237

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:

(Tension in Kips)

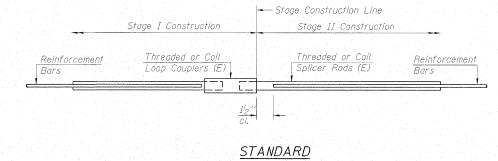
Minimum *Pull-out Strength = 0.66 x fy x A,
(Tension in kips)

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

 A_t = Tensile stress area of lapped reinforcement bars.

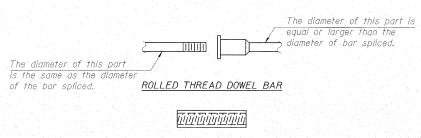
* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES
		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



그런데 그는 전 중에 제가 되는 것 같아. 작곡들이 그 보여			
	Bar Size	No. Assemblies Required	Location
	#5	371	Deck
	#6	16	Abut, Diaph.
	#4	4	Pier Diaph.
	#6	2	Pier Diaph.
	#7	20	Abutments
	#7	10	Pier
	#5	28	Pier

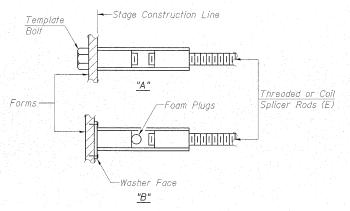
BAR SPLICER ASSEMBLY DETAILS
IL ROUTE 121 OVER MULE CREEK
F.A.P. RTE. 773 - SECTION (108BR-3)B-1
CUMBERLAND COUNTY
STATION 399+34.00
STRUCTURE NO. 018-0062



** ONE PIECE Wire Connector WITHIUM WITHIUM WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

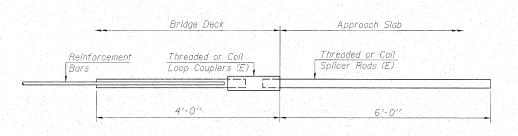
**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

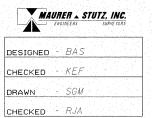
"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.

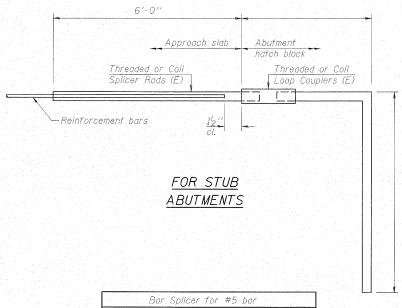


FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 64



BSD-1 11-1-06



Min. Capacity = 23.0 kips - tension

. Required =

Min. Pull-out Strength = 12.3 kips - tension

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