SHEET NO. 5-15 S-16 SHEETS

87351

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 fied 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:

Officer dissensing solutions:

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

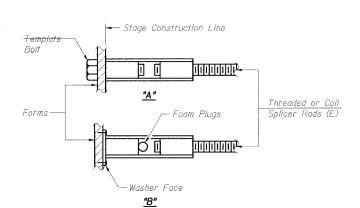
(Tension in kips) = 1.25 x fy x A_t

(Minimum *Pull-out Strength = 0.66 x fy x A_t

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

A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

<u> </u>	BAR SPLIC	ER ASSEMBLI	ES	
	Splicer Rod or Dowel Bar Length	Strength Requirements		
			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	



BAR SPLICER ASSEMBLY ALTERNATIVES

WELDED SECTIONS

ROLLED THREAD DOWEL BAR

** ONE PIECE

— Wire Connector

— The diameter of this part is equal or larger than the

diameter of bar spliced.

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

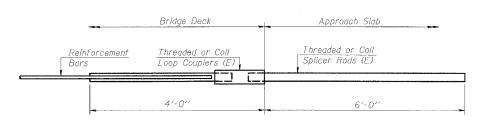
The diameter of this part

of the bar spliced.

is the same as the diameter

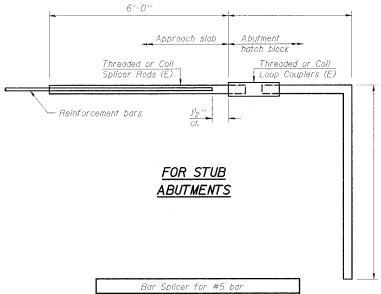
INSTALLATION AND SETTING METHODS

"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.

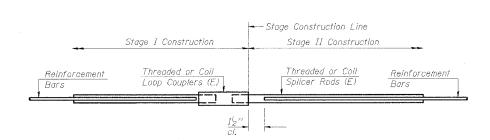


FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

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



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



STANDARD

Bar Size	No. Assemblies Required	Location
#5	374	Deck, Abut.
#6	8	Abut.

DESIGNED KMA CHECKED AEU DRAWN WJH CHECKED RGD LASALLE COUNTY HIGHWAY DEPARTMENT

BAR SPLICER ASSEMBLY DETAILS

LASALLE STREET OVER SOMONAUK CREEK VILLAGE OF SOMONAUK SECTION NO. 05-00627-00-BR STRUCTURE NO. 050-3057

SEC GROUP, INC. Smith Engineering Consultants • SEC Automation • SEC Plannin