


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 18	*	COLES	229	128
FED. ROAD DIST. NO. 7	ILL. TRNS. PROJ. NO. 1	FED. AID PROJECT		

*99-00124-02-PV

The diameter of this part is the same as the diameter of the bar spliced.

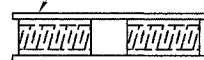


ROLLED THREAD DOWEL BAR



**** ONE PIECE**

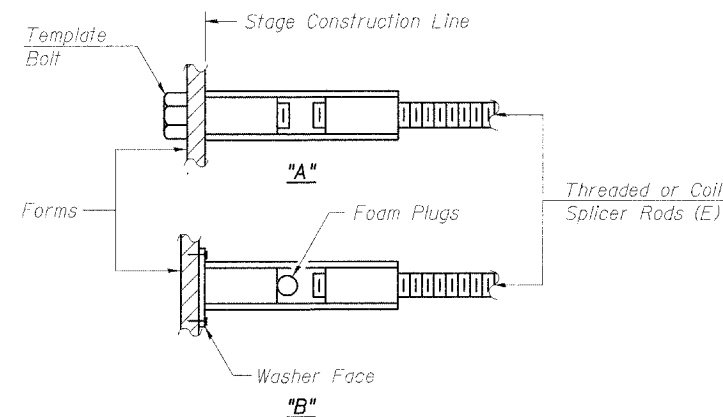
Wire Connector



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.

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:

- ① Minimum Capacity = $1.25 \times f_y \times A_l$
(Tension in kips)
- ② Minimum *Pull-out Strength = $1.25 \times f_{s\text{allow}} \times A_l$
(Tension in kips)

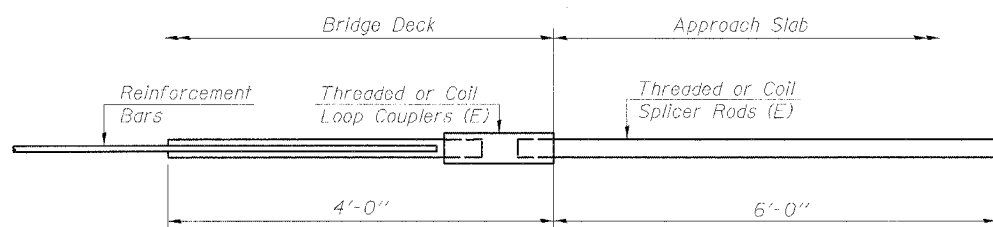
Where f_y = Yield strength of lapped reinforcement bars in ksi.

$f_{s\text{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)

A_l = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



**INTEGRAL ABUTMENT
BAR SPLICER ASSEMBLY DETAIL
FOR #5 BAR**

Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required = 122

Corporate License Number 184-001-084

BAR SPLICER ASSEMBLY DETAILS
 COUNTY HIGHWAY 18 OVER F.A.I. RTE. 57
 SECTION 99-00124-02-PV
 COLES COUNTY
 STATION 249+25.29
 STRUCTURE NUMBER 015-0073

© Copyright Hanson Professional Services Inc. 2005



JRM

97S2028B

DATE:

05/27/03

i:\97-1005\97-02\28\Struct\57 Bridge\bridge.dgn 9/7/2005

LAYOUT	JMM	10/24/03
DRAWN	DAP	10/25/03
REVIEWED	JMM	10/25/03