

Size	Required	Location
15	585	Deck
15	91	S. Abut
20	4	S. Abut
15	82	N. Abut
20	4	N. Abut
15	34	Pier
20	35	Pier
30	18	Pier



BAR SPLICER ASSEMBLY ALTERNATIVES ** Heavy Hex Nuts conforming to ASTM

A 563M, 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.

JDG
JDG
MJB
JDG
4-30-97

ROUTE NO.	SECTION	COLINTY		SHEET'S	SHEET NO.	SHEET
F. A. L. 88/14	2626.19	COOK		1207	574	35 she
11_14013 FED. AID PROJECT- C-42-618-51						
			CONTR	ACT No.	62114	

ND. S-30 HEETS

<u>NOTES</u>

- 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 400 MPa 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:
 - - $\frac{(1 \text{ ension } u)}{\text{Minimum *Pull-out Strength}} = 1.25 \times 10^3 \text{ x fs allow x A}_{t}$
 - Where fy = Yield strength of lapped reinforcement bars in MPa.
 - fs_{allow}= Allowable tensile stress in lapped reinforcement bars in MPa (Service Load) A_t = Tensile stress area of lapped reinforcement bars (mm²). * = 28 day concrete

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BAR SPLICER ASSEMBLIES						
Bar Size to be Spliced		Strength Requirements				
	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kN - tension			
#15	640 mm	100	40			
#20	790 mm	150	60			
#25	1.320 m	250	100			
#30	1.850 m	350	140			

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." All dimensions are in millimeters (mm) except as noted.

