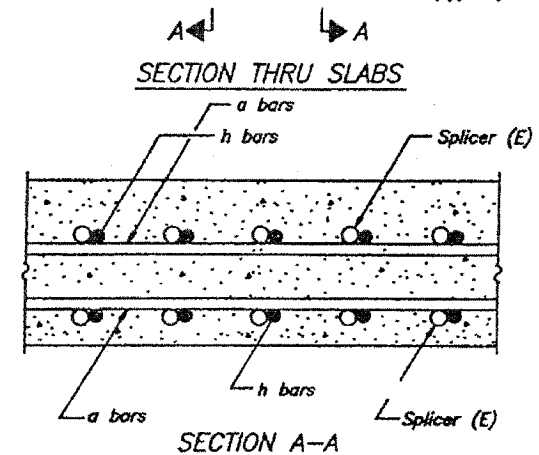
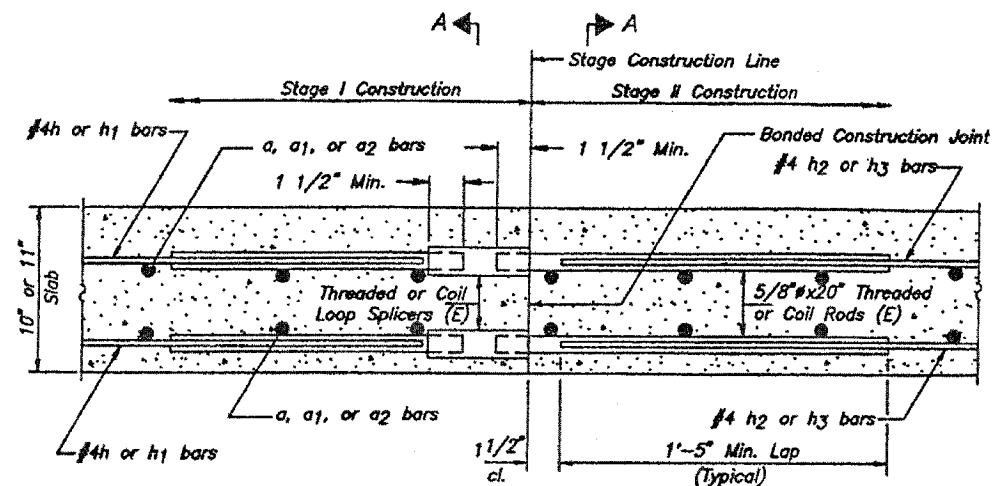


PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 53	*	HANCOCK/McDONOUGH	59	26A
REV. SHEET NO.	DATE	DESIGNED BY	CHECKED BY	DATE
24(PS-3, B-1)				

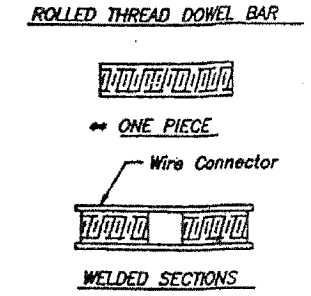
SHEET NO. 21  
OF  
3 SHEETS

**FOR INFORMATION ONLY**

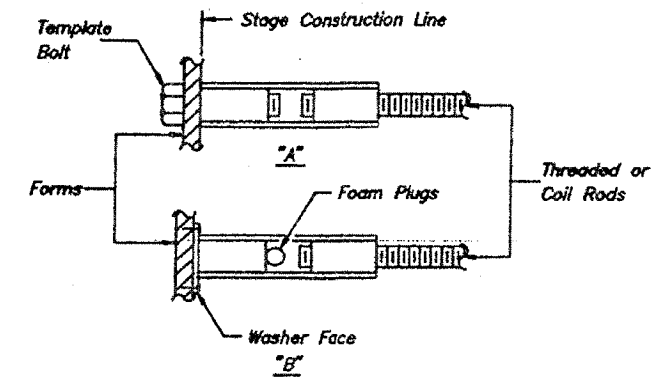


**SPLICER DETAILS**  
(No. Required 24)  
Cost incidental to Reinforcement Bars

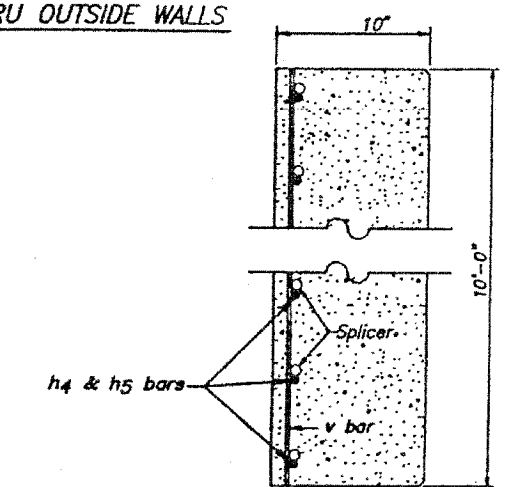
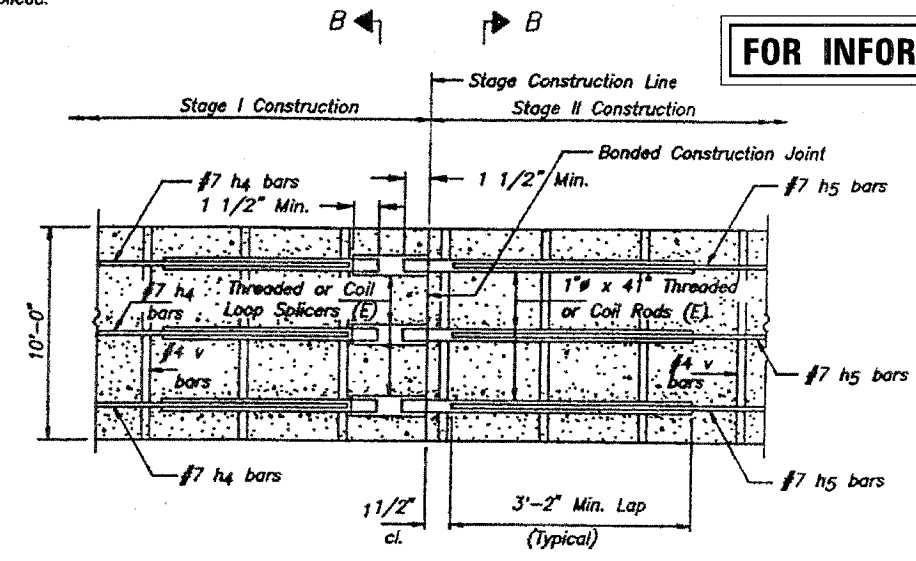
The diameter of this part of Splicer is the same as the diameter of the bar spliced.



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



**INSTALLATION AND SETTING METHODS**  
"A": Set splicer by means of a template bolt.  
"B": Set splicer by nailing to wood forms or cementing to steel forms.  
(E) : Indicates epoxy coating.



**SECTION B-B**

**SPLICER DETAILS**  
(No. Required 20)  
Cost incidental to Reinforcement Bars

**NOTES**

Steel Splicer (Coupler) assembly shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.  
Steel Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length and have effective tensile stress area equal to or greater than that of the lapped reinforcement bars.  
All reinforcement bars shall be lapped and tied to the splicer rods.  
Splicer (coupler) assembly in the slab shall be epoxy coated in accordance with 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 splicer (coupler) assembly satisfies the following requirements:

- Minimum Capacity (Tension in kips) =  $1.25 \times f_y \times A_t$
- Minimum Pull-out Strength (Tension in kips) =  $1.25 \times f_{s,allow} \times A_t$

Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $f_{s,allow}$  = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)  
 $A_t$  = Tensile stress area of lapped reinforcement bars.  
\* = 28 day concrete

Typical Splicer (Coupler) Assembly Sizes:

In Slabs	#4 bar lap with 5/8" Splicer (Coupler) x 1'-8" Splicer Rods	Minimum Capacity = 14.7 kips-tension Minimum Pull-out Strength = 5.9 kips-tension
In Walls	#7 bar lap with 1" splicer (Coupler) x 3'-5" Splicer Rods	Minimum Capacity = 45.1 kips-tension Minimum Pull-out Strength = 18.0 kips-tension

REV. NO.	DRWING	CHKD.	APPRD.	DESCRIPTION	DATE
	RLW	MLW			2/90
<p>F.A. RTE. 53 SECTION 24 B-1 HANCOCK/McDONOUGH COUNTIES BAR SPLICER (COUPLER) DETAILS STRUCTURE NUMBER 034-2007 STA. 691+08.7</p>					