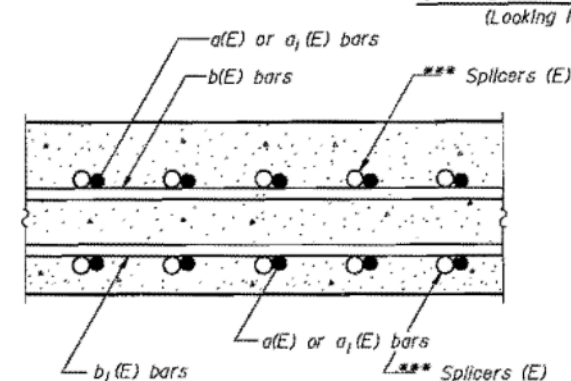


*** Cast incidental to Reinforcement Bars (Epoxy Coated).



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.

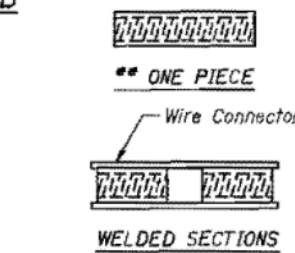
Steel Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length and have effective tensile stress area equal or greater than that of the lapped reinforcement bars.

Splicer rods shall extend minimum 1/2 inches into the couplers.

All reinforcement bars shall be lapped and tied to the splicer rods.

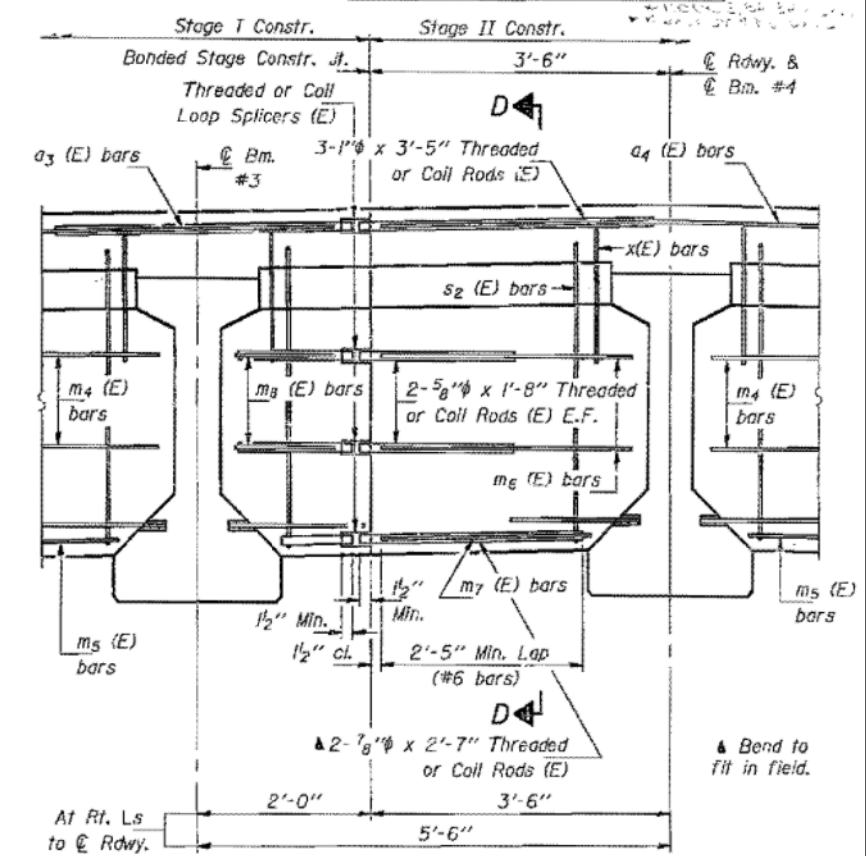
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed splicer (coupler) assembly satisfies the following requirements:

- Minimum Capacity (Tension in kips) = 1.25 x f_y x A_f
 - Minimum *Pull-out Strength = 1.25 x f_{s allow} x A_f (Tension in kips)
- 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_f = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete
- Typical Splicer (Coupler) Assembly Sizes:
- | | |
|---|---|
| #4 bar lap with 5/8" Splicer (Coupler) x 1'-8" Splicer Rods | Minimum Capacity = 14.7 kips-tension |
| #5 bar lap with 3/4" Splicer (Coupler) x 2'-0" Splicer Rods | Minimum Pull-out Strength = 5.9 kips-tension |
| #6 bar lap with 7/8" Splicer (Coupler) x 2'-7" Splicer Rods | Minimum Capacity = 23.0 kips-tension |
| #7 bar lap with 1" Splicer (Coupler) x 3'-5" Splicer Rods | Minimum Pull-out Strength = 9.2 kips-tension |
| #4 bar lap with 5/8" Splicer (Coupler) x 1'-8" Splicer Rods | Minimum Capacity = 33.1 kips-tension |
| #5 bar lap with 3/4" Splicer (Coupler) x 2'-0" Splicer Rods | Minimum Pull-out Strength = 13.3 kips-tension |
| #6 bar lap with 7/8" Splicer (Coupler) x 2'-7" Splicer Rods | Minimum Capacity = 45.1 kips-tension |
| #7 bar lap with 1" Splicer (Coupler) x 3'-5" Splicer Rods | Minimum Pull-out Strength = 18.0 kips-tension |

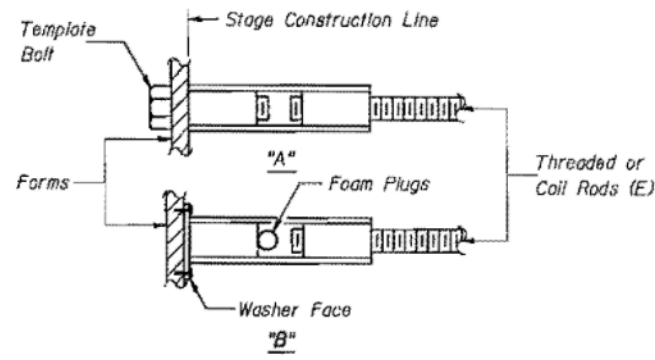


SPLICER ALTERNATIVES

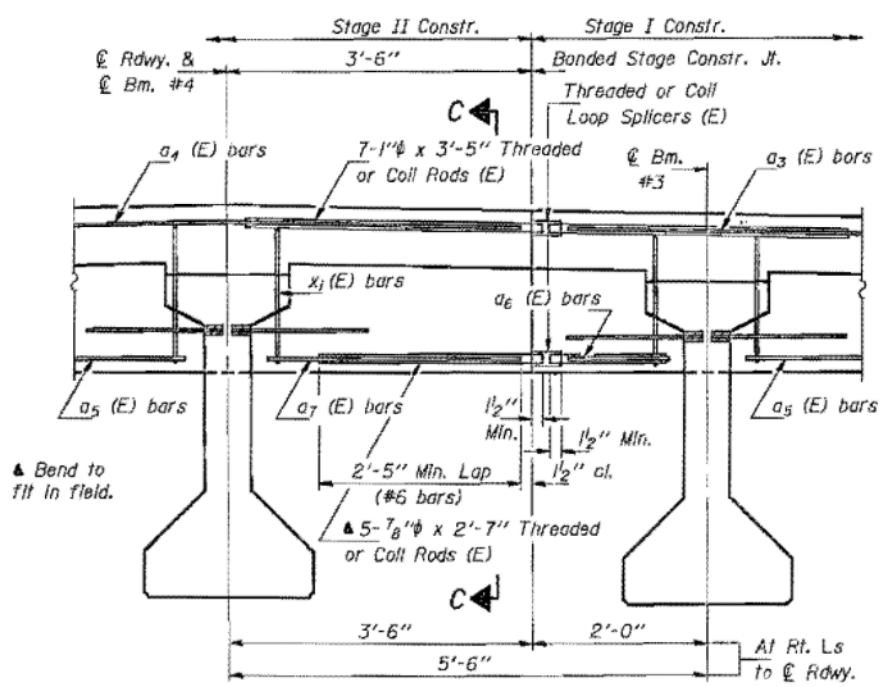
** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



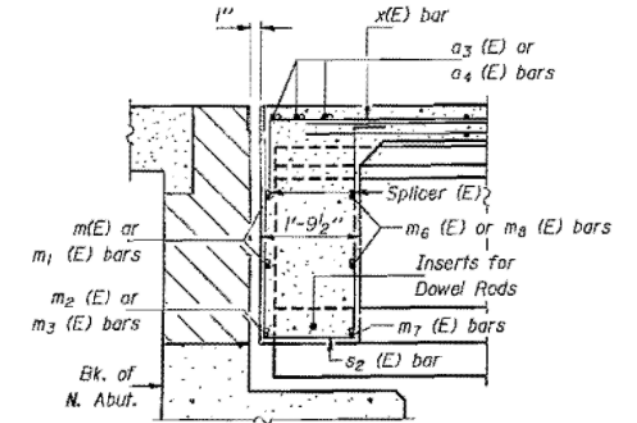
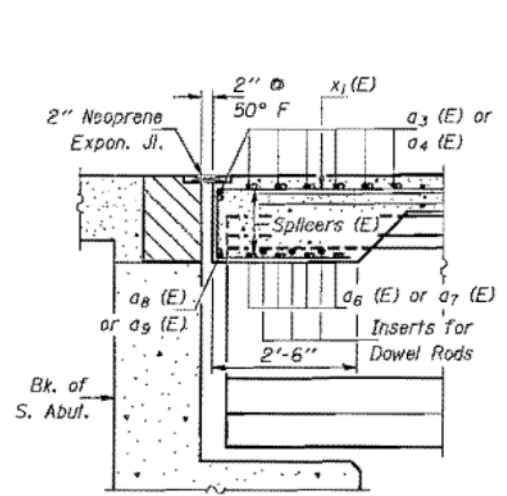
4-#4 Bar Splicers
2-#6 Bar Splicers
3-#7 Bar Splicers



DESIGNED	YASMIN ESTIMATI	EXAMINED	May 22 1987
CHECKED	VICTOR VELTZ	PASSED	James J. Kasper
DRAWN	John F. Scheller Jr.	APPROVED	James J. Kasper
CHECKED	...		



5-#6 Bar Splicers
7-#7 Bar Splicers



BAR SPLICER (COUPLER) DETAILS AT STAGE CONSTRUCTION

F.A. RT. 100 SECTION 110BR-1

GRUNDY COUNTY

STATION 203+54.75

FOR INFORMATION ONLY