

Approach Slab

6'-0"

Threaded or Coil

Splicer Rods (E)

ROLLED THREAD DOWEL BAR

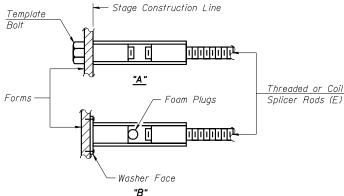
of the bar spliced.

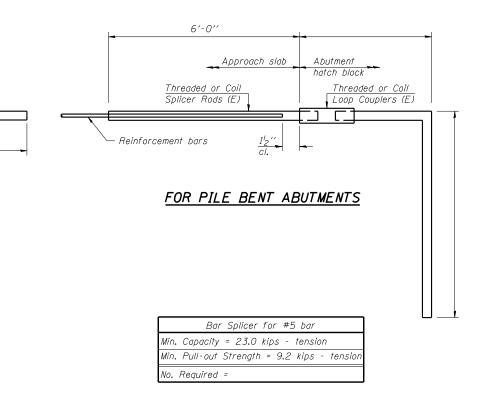


亚亚团 亚亚团 WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

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







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:

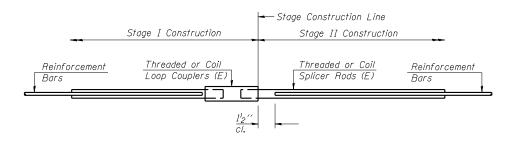
- Minimum Capacity (Tension in kips) = 1.25 x fy x A_t
- Minimum *Pull-out Strength = 1.25 x fs_{allow} x A_t (Tension in kips)

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

fs_{allow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) A₁ = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8''	14.7	5.9
#5	2'-0''	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3′-5′′	45.1	18.0
#8	4'-6''	58.9	2 3. 6
#9	5′-9′′	75.0	30.0
#10	7′-3′′	95.0	38.0
#11	9'-0''	117.4	46.8

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."



STANDARD



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BSD-1

Bridge Deck

4'-0"

Threaded or Coil

Loop Couplers (E)

lo. Required = 76

FOR INTEGRAL OR

SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar

Min. Pull-out Strength = 9.2 kips - tension

Min. Capacity = 23.0 kips - tension

Reinforcement

Bars

