



SHEET NO. 36 333 44 SHEETS

** SECTION 2006-032 BY CONTRACT NO. 60B86

NOTES

- 1. 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.
- 2. Splicer rods shall be a minimum of 60 ksi yield strength, threaded or coiled full length.
- 3. All reinforcement bars shall be lapped and fied to the splicer rods or dowel bars.
- 4. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
- 5. 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 = 1.25 x fy x A_t (Tension in kips) = 1.25 x fy x A_t Minimum *Pull-out Strength = 1.21
 - (Tension in kips)

= 1.25 x fs_{allow} x A_f

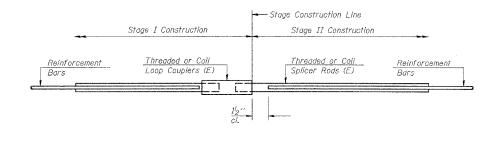
Where fy = Yield strength of lapped reinforcement bars in ksi.

fs_{allow}= Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
			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	23.6
#9	5′-9′′	75.0	30.0
#10	7′-3″	95.0	38.0
#11	9'-0"	117.4	46.8

6. 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."



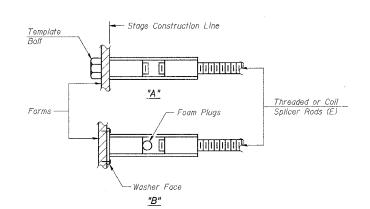
DD PARSONS BRINCKERHOFF

STANDARD

Bar Size	No. Assemblies Required	Location
#5	926	SB Bridge Deck
#6	36	Abutments
#5	72	Pier 1
#5	72	Pier 2

BAR SPLICER DETAILS I-55 OVER EJ&E R.R. FAI ROUTE 55-SEC. 2006-032 BY WILL COUNTY STA. 609+29.37

STRUCTURE NO. 099-0018 (NB) STRUCTURE NO. 099-0019 (SB)



BAR SPLICER ASSEMBLY ALTERNATIVES

WELDED SECTIONS

ROLLED THREAD DOWEL BAR

** ONE PIECE

- Wire Connector

-The diameter of this part is

equal or larger than the

diameter of bar spliced.

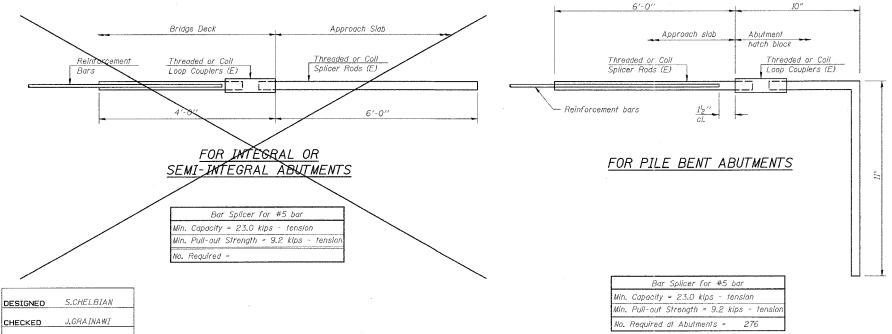
** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.

The diameter of this part

is the same as the diameter of the bar spliced.

INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt. "B": Set bar splicer assembly by nalling to wood forms or cementing to steel forms. (E) : Indicates epoxy coating.



Date: 6/30/2006