TOTAL SHEET NO. AGUITE NO. SEC COUNTY FAU * LASALLE 168 FED. ROAD DIST. NO. 3 BLENOIS PROJECT

* 01-00590-00-BR (County)

CONTRACT NO. 87293

SHEET NO. 25

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
- (Tension iii kipo) Minimum *Pull-out Strength = 1.25 x fs_{allow} x A_t

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

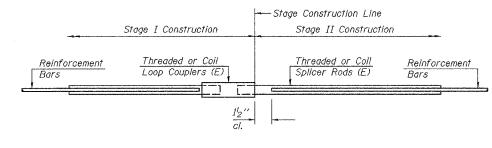
fs_{allow}= Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)

 A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES
Bar Size to be Spliced	1 '	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	23.6
#9	5′-9″	75.0	30.0
#10	7′-3′′	95.0	38.0
#11	9'-0''	117.4	46.8

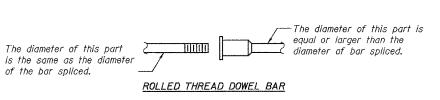
Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



STANDARD

BAR SPLICER ASSEMBLY DETAILS FAU ROUTE 6145 OVER BNSF RAILROAD SECTION 01-00590-00-BR (COUNTY) LASALLE COUNTY STATION 21+75.75 STR. NO. 050-8023

> HUTCHISON ENGINEERING, INC. JACKSONVILLE & JOLIET, ILLINOIS Date: 3 /10 /2006

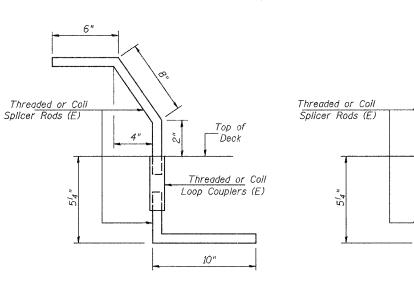


** ONE PIECE -- Wire Connector

BAR SPLICER ASSEMBLY ALTERNATIVES

WELDED SECTIONS

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



BAR SPLICER ASSEMBLY (A) (416 required in parapet)

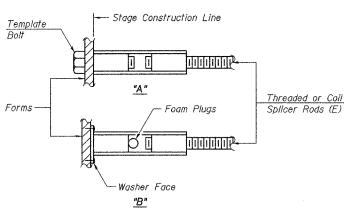


Top of

Deck

Threaded or Coil

Loop Couplers (E)



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.

DESIGNED	JOH
CHECKED	BRT
DRAWN	тс
CHECKED	JOH

