Bar splicer assem 125 percent of the Splicer rods shall All reinforcement Bar splicer assem reinforcement bars. Other systems of shall be based on cu bar splicer assembly Minim

Reinforcement

Bars

 Minimum Capacity (Tension in kips) = 1.25 x fy x A_t
Minimum *Pull-out Strength (Tension in kips)
Where fy = Yield strength of lapped reinforcement bars in ksi. A_t = Tensile strengt of lapped reinforcement bars.
* = 28 day concrete

	BAR SPLICER ASSEMBLIES								
	Splicer Rod or Dowel Bar Length	Strength Requirements							
Bar Size to be Spliced		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension						
#4	1'-8''	14.7	7.9						
#5	2'-2''	23.0	12.3						
#6	2'-7''	33.1	17.4						
#7	3'-5''	45.1	23.8						
#8	4'-6''	58.9	31.3						
#9	5′-9′′	75.0	39.6						
#10	7'-3''	95.0	50.3						
#11	9'-0''	117.4	61.8						



DESIGNED - SC REVISED FILE NAME = USER NAME = cearlockjd STATE OF ILLINOIS c:\pw_work\PWIDOT\CEARLOCKJD\dms87656` 590866-Hyd.dgr DRAWN JP REVISED **BRIDGE DECK SLAB REP** LOT SCALE = 40.0000 ′ / IN. CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** SCALE: NA SHEET NO. 16 OF 17 SHEETS PLOT DATE = 2/6/2009 DATE 12-24-08 REVISED

<u>NOTES</u>

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

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:



<u>STANDARD</u>

Bar Size	No. Assemblies Required	Location				
#5	11	East Abutment				
#5 11		West Abutment				

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 092-0048

PAIR S.N. 092-0048		SECTION				COUNTY	TOTAL SHEETS	SHEET NO.	
		46RS-8&1RS-2&46BDR				VERMILION	75	55	
							CONTRAC	T NO. 9	0866
S STA. TO STA.	FED. RO	OAD DIST.	NO.	ILLINOIS	FED.	AID	PROJECT		