STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



projects\rps00005\0370171.dgn 9/25/2006 11:03:42



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.

Bar splicer assemblies sha
125 percent of the yield stre
Splicer rods shall be of m
All reinforcement bars sho
Bar splicer assemblies sho
reinforcement bars.
Other systems of similar d
shall be based on certified t
bar splicer assembly satisfie
Minimum Capa
D Minimum Capa (Tension in ki
👝 Minimum *Pull
(Tension in ki
Where fy = Yield streng
fs _{allow} = Allowable
A _t = Tensile stre
*= 28 day concr
- 20 uay concr

	Bar Size to be Spliced	D				
	#4					
	#5					
	#6					
	#7					
	#8					
	#9					
1	#10					
	#11					

Bar splicer assemblies sh except as noted. The furnis paid for at the contract un



		·······					
			RECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.15
		F.A.I. 37 80	'-1HBR -1	HENRY	133	78	<i>18</i> SHEETS
		FED. RDAD DIST. NO		ILLINDIS FED. AD PR	DJECT-	•	
		Contract #	¥646(02			
eld ars lies imila tifie satis m Co n in m */ m in	shall be of an appr strength of the lapp shall be lapped and shall be epoxy coat- r design may be su d test results from fies the following r pacity kips) = 1.25 x fy	bed reinforceme eld strength, th tied to the spi ed according to bmitted to the a an approved te equirements: x A _t 1.25 x fs _{allow} 2	nt bo reade licer the Engin esting	nrs, d or coiled rods or dow requirements eer for appi laboratory :	full lenç el bars. s for roval. A,	ŋth. oproval	
ile s	ble tensile stress in tress area of lappe ncrete BAR SPLIC		t bar.		si (Serv	ice Loa	1d)
	College Ded as	Strengt	h Re	quirements			
e to ed	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension		Pull-Out Sti kips - tensi			
	1'-8''	14.7		5.9			
	2'-0''	23.0		9.2			
	2'-7''	33.1		13,3			
	3′-5″	45.1		18.0			
	4'-6''	58.9		23.6			
	5′-9″	75.0		30.0			
	7'-3''	95.0		38.0			
	9'-0''	117.4	L	46.8]		
e fu	shall be according rnishing and installa unit price each for	tion of bar spl	icer (RS."	assemblies w			
ne I	Construction	Stage	II C	onstruction		-	
	eaded or Coil o Couplers (E)	Thread Splicer				^r orceme Bars	<u>nt</u>
	1/2 '' cl						

STANDARD

Bar Size	No. Assemblies Required	Location			

BAR SPLICER ASSEMBLY DETAILS F.A.I. RT. 80 SEC. 37-1HBR-1 HENRY COUNTY STATION 461+73.82 STRUCTURE NO. 037-0171