STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





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 commenting to steel forms.
(E) : Indicates epoxy coating.

() (2) Where	Minimum C (Tension ir Minimum * (Tension ir fy = Yield str fs _{allow} = Allowd	ength of lapped reir ible tensile stress in stress area of lappe	x A _t 1.25 x fs _{allow} ; inforcement bars lapped reinfor	: in ksi. cement
			ER ASSEMBLI	ES
		[Strengt	h Reau
	Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity	Min. Pt

be Spliced
#4
#5
#6
#7
#8
#9
#10
#[]



BSD-1 10-22-04

FARNSWORTH GROUP, INC.

CONTRACT NO. 66407

F.A.I. RTE.	SECTION	1	COUNTY	TOTAL SHEETS	SHEET NO.
80	32-3HBR-	-1	GRUNDY	88	31
STA. TO STA.					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

SHEET NO. B4

OF 35 SHEETS

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 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:

strength of lapped reinforcement bars in ksi. wable tensile stress in lapped reinforcement bars in ksi (Service Load) e stress area of lapped reinforcement bars.

BAR SPLICER ASSEMBLIES				
	Strength Requirements			
Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension		
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	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."

REVISIONS NAME DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION		
	BAR SPLICER ASSEMBLY DETAILS		
	F.A.U. 5974 (ASI SECTIO	. 80 (I-80) HLEY ROAD) OVER I-80 DN 32-3HBR-1 HDY COUNTY	
		STRUCTURE NO. 032-0113 DRAWN BY: DJM CHECKED BY: MSW	