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: The diameter of this part is equal or larger than the Splicer assembly satisfies the following requirements: $\begin{array}{c} \hline \\ Minimum Capacity \\ (Tension in kips) = 1.25 x fy x A_t \\ \hline \\ Minimum *Pull-out Strength \\ (Tension in kips) = 0.66 x fy x A_t \\ \hline \\ Where fy = Yield strength of lapped reinforcement bars in ksi. \\ = Taopile attack are of lapped reinforcement bars in ksi. \\ \hline \\ \end{array}$ diameter of bar spliced. Template Bolt The diameter of this part is the same as the diameter of the bar spliced. ROLLED THREAD DOWEL BAR mmm $A_{\rm f}$ = 28 day concrete <u>"A "</u> Threaded or Coll Splicer Rods (E) Forms--Foam Plugs ** ONE PIECE -Wire Connector Bar Size БQ ननननन be Splice <u>1999999</u> #4 -Washer Face #5 WELDED SECTIONS <u>"B"</u> #6 #7 BAR SPLICER ASSEMBLY ALTERNATIVES INSTALLATION AND SETTING METHODS #8 "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. **Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used. #9 #10 #11 Stage <u>STANDARD</u> SDH REVISED DESIGNED -VIRGINIA AVEN REVISED BAR SPLICER ASSEMBLY DETAILS JWK DRAWN TOWN OF NORMAL SECTION REVISED CHECKED -MSW MCL SHEET NO. C22 OF 23 SHEETS STA. SCALE: TO STA.

FARNSWORTH GROUP, INC.

07/22/2009

DATE

REVISED

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

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

	- Stage Construction Line	
e I Construction	Stage II Construction	
Threaded or Coil Loop Couplers (E)	Threaded or Coll Reinforce Splicer Rods (E) Bars	ment
	//	

Bai Siz	 Assemblies Required	Location	
#5	132	Top Slab	

				1°	TOTAL	SHEET
NUE OVER SUGAR CREEK	F.A.U.	SECTION		COUNTY	SHEETS	NO.
04-00226-00-BR	6366	04-00226-00-BR		MCLEAN	52	43
EAN COUNTY		S.N. 057-7834		CONTRACT	NO. 9	91416
	FED. RC	AD DIST. NO. ILLIN	OIS FED. A	ID PROJECT		