

#7

#5

#5

#6

8

36

671

16

Pier 2

Pier 2

Deck

Diaphragm

BSD-1

11-1-06

Engineers/Architects/PlannersCon 200 W. Moraroe Street, Suite Chicago, IL. 60606-5015 312/351-6655, PAX 312/35

SHT. S-25 OF S-28

F.A.P. RTE.	SECTION		COUNT	Y	TOTAL	SHEET NO.		
374	3268F-R	-1	COOM	(279	157		
STA. TO STA.								
FED. RO	AD DIST. NO.	ILLINOIS	FED.	AID	PROJECT			

CONTRACT NO. 62387

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 colled 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:

Minimum Capacity (Tension in kips) = 1.25 x fy x A_t

Minimum *Pull-out Strength = 0.66 x fy x A_t (Tension in kips)

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 SPLICER ASSEMBLIES									
		Strength Requirements							
ize to pliced	Splicer Rod or Dowel Bar Length	Min. Capacity kips – tension	Min. Pull-Out Strength kips - tension						
	1'-8''	14.7	7.9						
	2'-0''	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						
2	7'-3''	95.0	50.3						
1	9'-0''	117.4	61.8						

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."

age I Construction	Stage II Construction
Threaded or Coil Loop Couplers (E)	Threaded or Coil Reinforcement Splicer Rods (E) Bars
$\frac{l_2''}{cl}$	
ST	ANDARD

NAME DATE ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 21 ILLINOIS ROUTE 21 MILWAUKEE AVE. OVER DES PLAINES RIVER F.A.P. ROUTE 374 SECTION 3268F-R-1 COOK COUNTY. SN 016-6566	
MILWAUKEE AVE. OVER DES PLAINES RIVER F.A.P. ROUTE 374 SECTION 3268F-R-1	
F.A.P. ROUTE 374 SECTION 3268F-R-1	
COOK COUNTY, SN 016-6566	
BAR SPLICER ASSEMBLY	
DESIGN BY: JAW DRAWN BY: BTO	
33-0661 DATE: 02/05/08 CHECKED BY: JAN CHECKED BY: JAW	