

 $8'' u_1(E)$ 5¹2" U₂(E) $\frac{R = 1' - 0'' \, u_1(E)}{R = 9'_2'' \, u_2(E)}$ ui(E, $\overline{u_2(E)}$ 2'-6

BARS $u_1(E) \& u_2(E)$

BILL OF MATERIAL

	(Two Piers)					
'-8" 4 ¹ 2"	Bar	No.	Size	Length	Shape	
	$h_I(E)$	88	#5	16′-2″		
I	h2(E)	16	#5	14′-8″		
/	h3(E)	16	#5	12′-8″		
	ρ ₁ (Ε)	48	#7	16′-2″		
<u>55(E)</u>						
	54(E)	60	#5	9′-7″	3	
	s5 (E)	528	#4	2′-5″		
	u1(E)	16	#6	9'-6"		
	$u_2(E)$	44	#5	8′-5″		
	U2(L) U3(E)	16	#5	7'-6"		
	U3(L)	10	#5	, 0		
	V₄(E)	148	#5	16′-6″		
		110		10 0		
	Structure Excavation			Cu. Yd.	35	
	Concrete Structures			Cu. Yd.	91.2	
	Concrete Encasement			Cu. Yd.	5.6	
	Reinforcement Bars, Epoxy Coated			Pound	8270	
	Furnishing Steel Piles HP 12x63			Foot	777	
	Driving Piles			Foot	777	
	Test Pile Steel HP 12x63			Each	2	
os 24 kips 7t. (Pier 2) 7 (Pier 2)	Underwater Structure Excavation Protection Location 1			Each	1	
)	Underwater Structure Excavation Protection Location 2			Each	1	

cers, see sheet 19 of 24. For details of piles and Concrete Encasement,

see sheet 20 of 24.

may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-O'' above the water line

Length of reinforcement based on mechanical splicer utilizing butt connections. If the Contractor elects to use another connection type, no additional payment shall be made for

PIER DETAILS STRUCTURE NO. 059-0512

EET NO.18	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	608	122B-2	MACOUPIN	53	36		
SHEETS			CONTRACT NO. 72B53				
ILLINOIS FED. AID PROJECT							