



**PILE DATA**

Type: Steel HP 14x73  
 Nominal Required Bearing: 578 kips  
 Factored Resistance Available: 320 kips  
 Est. Length: 35 ft  
 No. Production Piles: 45  
 No. Test Piles: 1

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h7(E)	328	#6	27'-9"	—
h8(E)	156	#6	21'-1"	—
n4(E)	114	#9	15'-7"	U
n5(E)	114	#9	17'-7"	U
p4(E)	36	#8	29'-4"	—
p5(E)	6	#4	16'-11"	—
p6(E)	6	#4	18'-10"	—
s7(E)	52	#5	16'-7"	□
s8(E)	34	#4	8'-2"	□
s9(E)	8,384	#4	4'-9"	□
t2(E)	120	#9	17'-2"	—
t3(E)	87	#7	17'-2"	—
u4(E)	78	#6	14'-5"	U
u5(E)	164	#6	16'-5"	U
u6(E)	12	#6	17'-3"	U
v8(E)	228	#9	18'-3"	—
v9(E)	114	#9	26'-0"	—
v10(E)	114	#9	24'-0"	—
v11(E)	156	#5	4'-1"	—
w2(E)	108	#6	32'-1"	—
Cofferdam Excavation		Cu. Yd.	1,118	
Cofferdam (Type 2) (Location-2)		Each	1	
Concrete Structures		Cu. Yd.	623.8	
Seal Coat Concrete		Cu. Yd.	485.9	
Reinforcement Bars, Epoxy Coated		Pound	117,610	
Furnishing Steel Piles HP14x73		Foot	1,575	
Driving Piles		Foot	1,575	
Test Pile Steel HP14x73		Each	1	
Mechanical Splacers		Each	690	

**Notes:**

- For details of piles, see sheet 46 of 53.
- Alternate s9(E) bars end for end as shown in Section B-B on sheet 43 of 53.
- Provide 4 - 3/4" φ x 4" granular or solid flux filled headed studs conforming to Article 1006.32 of the Standard Specifications automatically end welded to piling, each flange, each pile. Cost included with Furnishing Steel Piles HP14x73.
- Bars indicated thus 24 x 2-#6 etc. indicates 24 lines of bars with 2 lengths per line.

**MIN. BAR LAP**  
 #6 bar = 4'-5"

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PIER 3 DETAILS  
 STRUCTURE NO. 039-0075 (E.B.)**

SHEET NO. 44 OF 53 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(12-11B-1)	JACKSON	200	103
CONTRACT NO. 78056				
ILLINOIS FED. AID PROJECT				

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USER NAME =	DESIGNED - JAD	REVISED -
	CHECKED - DGL	REVISED -
PLOT SCALE =	DRAWN - JAD	REVISED -
PLOT DATE =	CHECKED - MAG	REVISED -