



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

PILE DATA

Type: Steel HP14x73
Nominal Required Bearing: 578 kips
Factored Resistance Available: 320 kips
Est. Length: 35'
No. Production Piles: 51
No. Test Piles: 1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h18(E)	336	#6	31'-9"	—
h19(E)	156	#6	25'-1"	—
n4(E)	130	#9	15'-7"	U
n5(E)	130	#9	17'-7"	U
p11(E)	36	#8	33'-4"	—
p12(E)	6	#4	19'-4"	—
p13(E)	6	#4	22'-1"	—
s7(E)	60	#5	16'-7"	□
s8(E)	40	#4	8'-2"	□
s9(E)	9,800	#4	4'-9"	□
t2(E)	136	#9	17'-2"	—
t3(E)	97	#7	17'-2"	—
u4(E)	78	#6	14'-5"	U
u5(E)	168	#6	16'-5"	U
u6(E)	12	#6	17'-3"	U
v8(E)	260	#9	18'-3"	—
v11(E)	172	#5	4'-1"	—
v17(E)	130	#9	26'-11"	—
v18(E)	130	#9	24'-11"	—
w3(E)	108	#6	36'-1"	—
Cofferdam Excavation	Cu. Yd.	1,257		
Cofferdam (Type 2) (Location-4)	Each	1		
Concrete Structures	Cu. Yd.	720.7		
Seal Coat Concrete	Cu. Yd.	546.7		
Reinforcement Bars, Epoxy Coated	Pound	135,400		
Furnishing Steel Piles HP14x73	Foot	1,785		
Driving Piles	Foot	1,785		
Test Pile Steel HP14x73	Each	1		
Mechanical Splicers	Each	754		

- Notes:
- For details of piles, see sheet 47 of 53.
 - Alternate s9(E) bars end for end as shown in Section B-B on sheet 44 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.



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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 3 DETAILS
STRUCTURE NO. 039-0076 (W.B.)**

SHEET NO. 45 OF 53 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(12-11B-1)	JACKSON	200	157
CONTRACT NO. 78056				
ILLINOIS FED. AID PROJECT				