

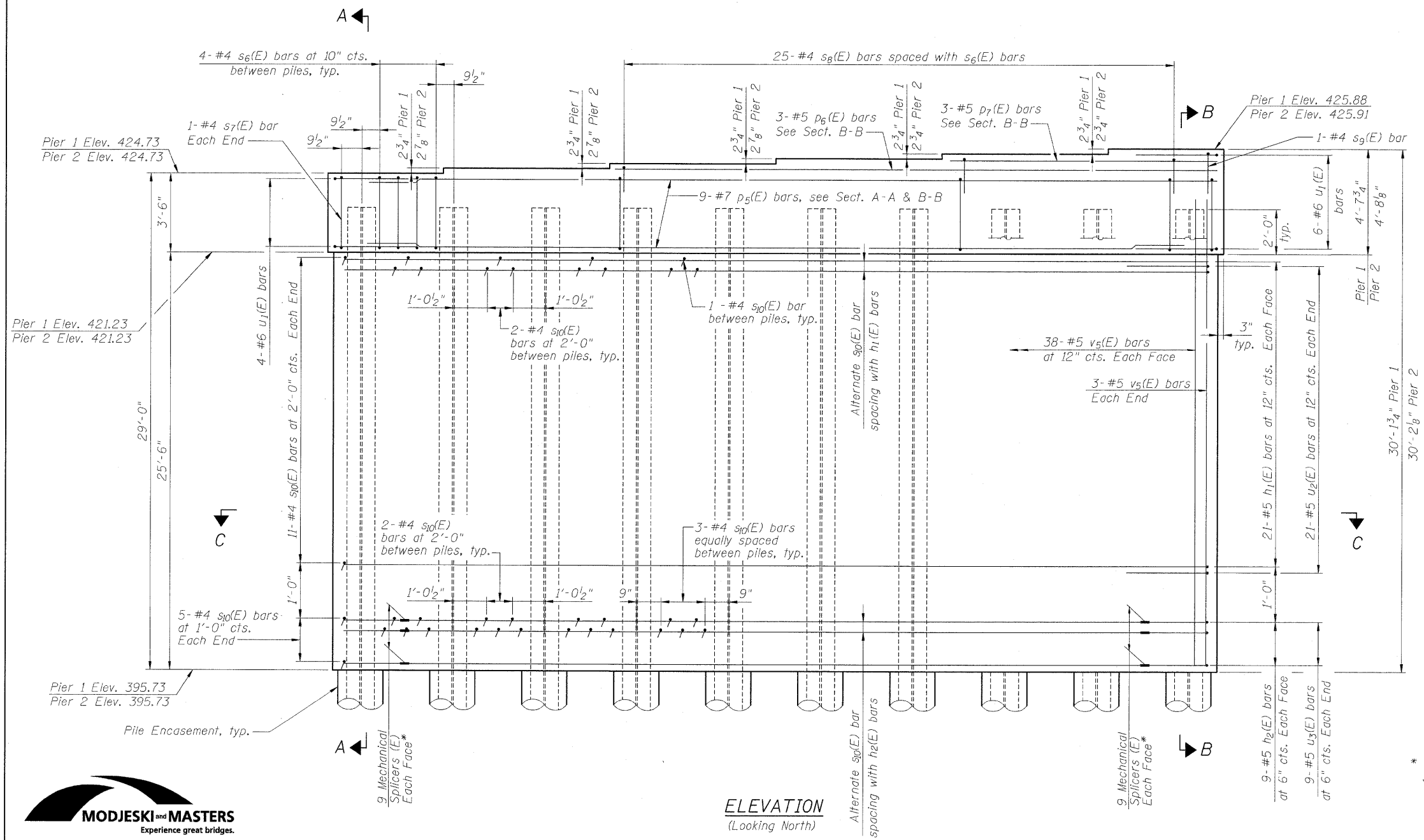
TOP PLAN

**PIER 1 PILE DATA**  
 Type: Steel HP14x117 w/Pile Shoes  
 Nominal Required Bearing: 929 Kips  
 Factored Resistance Available: 407 Kips  
 Est. Length: 42 ft  
 No. Production Piles: 9  
 No. Test Piles: 1

**PIER 2 PILE DATA**  
 Type: Steel HP14x117 w/Pile Shoes  
 Nominal Required Bearing: 929 Kips  
 Factored Resistance Available: 407 Kips  
 Est. Length: 43 ft  
 No. Production Piles: 9  
 No. Test Piles: 1

**BILL OF MATERIAL**  
**TOTAL FOR PIER 1 AND PIER 2**

Bar	No.	Size	Length	Shape
h1(E)	84	#5	37'-0"	—
h2(E)	36	#5	31'-9"	—
p5(E)	18	#7	37'-0"	—
p6(E)	6	#5	25'-8"	—
p7(E)	6	#5	10'-11"	—
s6(E)	72	#4	12'-5"	□
s7(E)	4	#4	11'-9"	□
s8(E)	50	#4	7'-0"	□
s9(E)	2	#4	6'-8"	□
s10(E)	1018	#4	2'-11"	□
u1(E)	20	#6	10'-3"	U
u2(E)	84	#5	10'-2"	U
u3(E)	36	#5	8'-6"	U
v5(E)	164	#5	27'-6"	—
Structure Excavation			Cu. Yd.	376
Cofferdam Excavation			Cu. Yd.	76
Cofferdam (Location - 1)			Each	1
Concrete Structures			Cu. Yd.	219.9
Concrete Encasement			Cu. Yd.	11.0
Reinforcement Bars, Epoxy Coated			Pound	15,110
Furnishing Steel Piles HP14x117			Foot	765
Driving Piles			Foot	765
Test Pile Steel HP14x117			Each	2
Pile Shoes			Each	20



ELEVATION  
 (Looking North)

Notes:  
 Space reinforcement in cap to miss anchor bolts.  
 Pour steps monolithically with cap.  
 For sections thru the pier, see sheet 26 of 32.  
 For details of piles, see sheet 28 of 32.  
 For details of mechanical splicers, see sheet 29 of 32.

\* The Contractor has the option to use a mechanical splice or shop welded splice per AWS D1.4.



FILE NAME =	USER NAME =	DESIGNED - MJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER DETAILS STRUCTURE NO. 039-0073	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED - RLM	REVISED -			1908	(13B)1-2	JACKSON	71	64	
		DRAWN - AEC	REVISED -			CONTRACT NO. 98898					
		CHECKED - RLM	REVISED -			ILLINOIS FED. AID PROJECT					