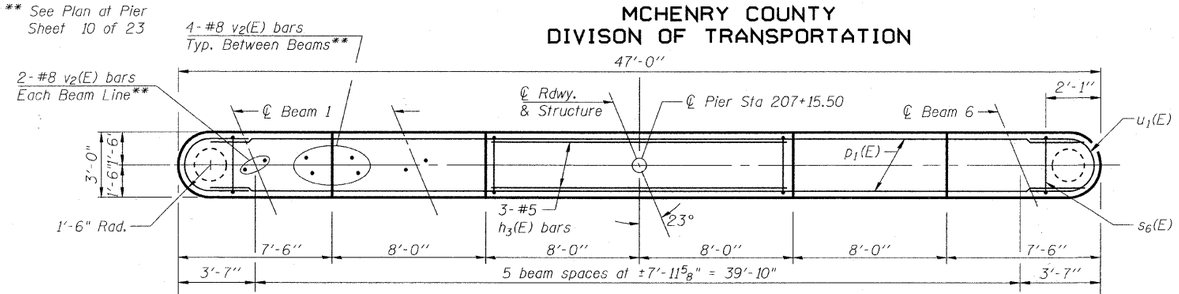
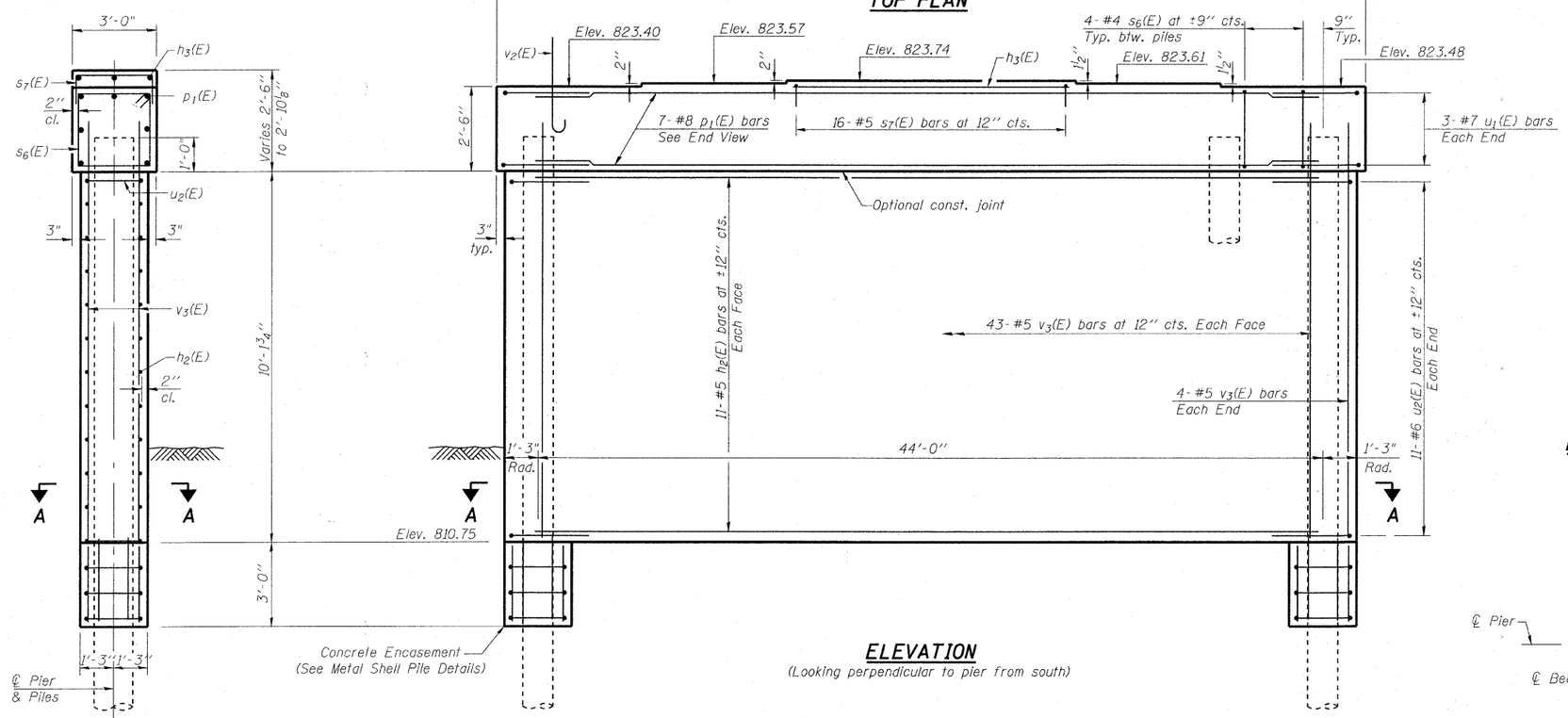
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 20 of 23.
If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

MCHENRY COUNTY
DIVISON OF TRANSPORTATION

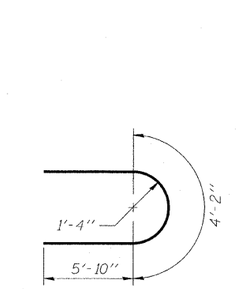


TOP PLAN

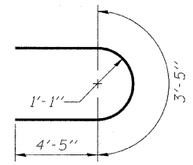


ELEVATION
(Looking perpendicular to pier from south)

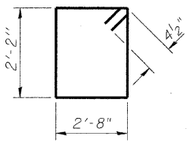
END VIEW



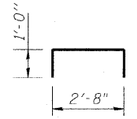
BAR u_1(E)



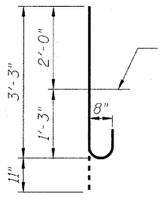
BAR u_2(E)



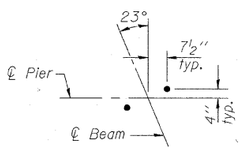
BAR s_6(E)



BAR s_7(E)



BAR v_2(E)



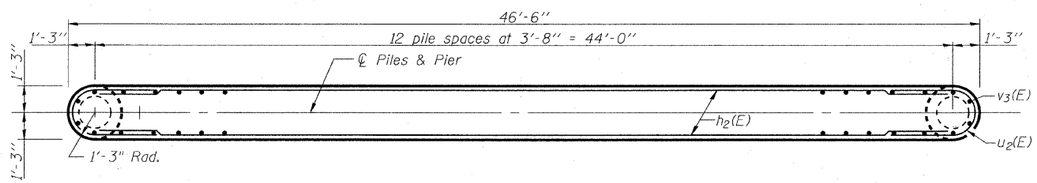
BAR v_2(E) LAYOUT

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_2(E)	22	#5	44'-0"	——
h_3(E)	3	#5	15'-8"	——
p_1(E)	7	#8	44'-0"	——
s_6(E)	48	#4	10'-5"	□
s_7(E)	16	#5	4'-8"	⊓
u_1(E)	6	#7	15'-10"	⊃
u_2(E)	22	#6	12'-3"	⊃
v_2(E)	32	#8	4'-2"	⊃
v_3(E)	94	#5	11'-3"	——
Structure Excavation		Cu. Yd.	52	
Concrete Structures		Cu. Yd.	57.1	
Reinforcement Bars, Epoxy Coated		Pound	4360	
Furnishing Metal Shell Piles 14" x 0.312"		Foot	793	
Driving Piles		Foot	793	
Underwater Structure Excavation Protection, Location 1		Each	1	
Concrete Encasement		Cu. Yd.	7.1	
Pile Shoes		Each	13	

PILE DATA

Type: 14" ϕ Metal Shell w/ 0.312" walls with Pile Shoes
Nominal Required Bearing: 384 Kips
Factored Resistance Available: 192 Kips
Est. Length: 61'
No. Production Piles: 13
No. Test Piles: 0



SECTION A-A

DESIGNED	BLB
CHECKED	AS
DRAWN	BCD
CHECKED	BLB

PIER
STRUCTURE NO. 056-3178

SHEET NO. 19	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23 SHEETS	0034	06-00320-02-BR	MCHENRY	65	44
			CONTRACT NO. 63536		
	JOB NO. C-191-140-11	ILLINOIS	FED. AID PROJECT	BRS-0034(107)	

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