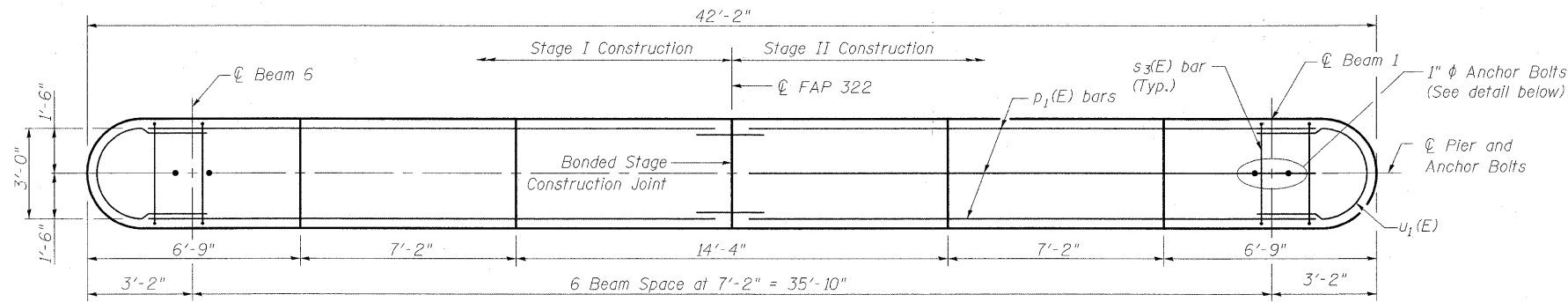


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

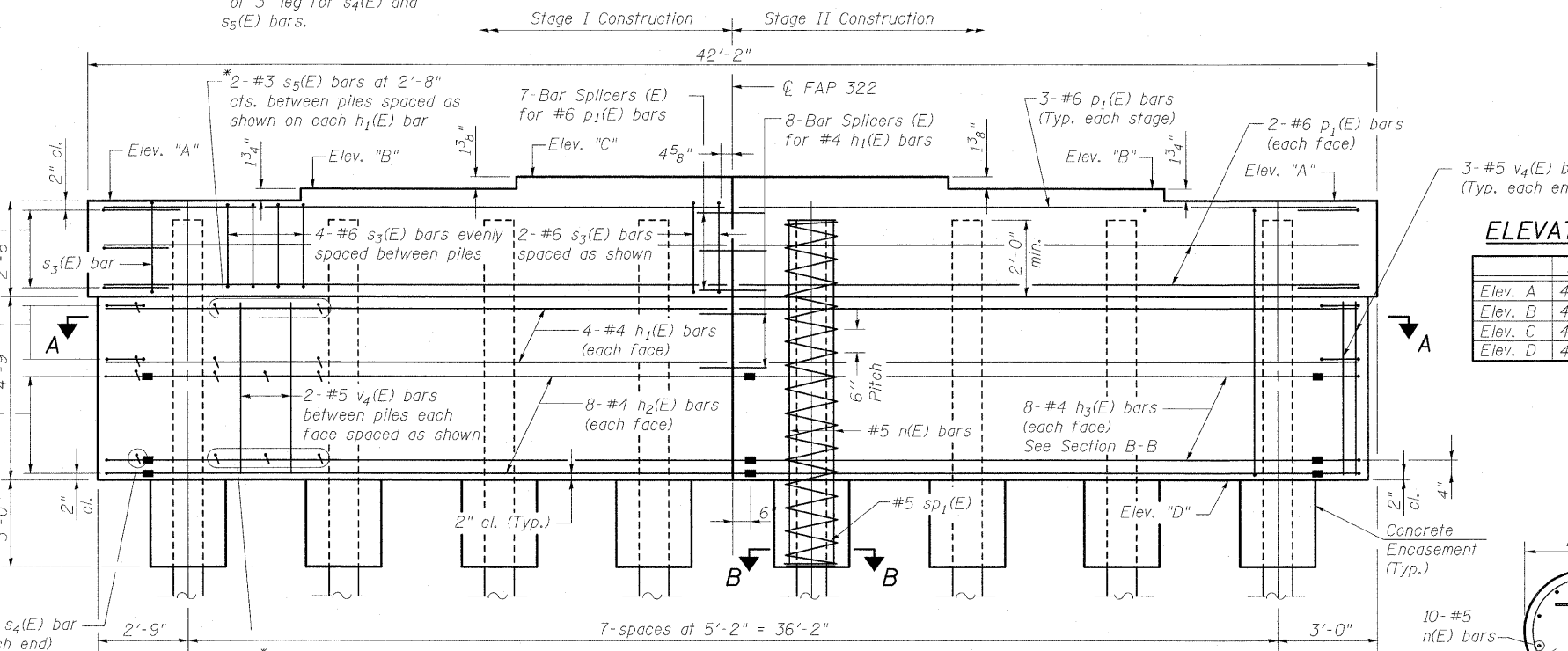
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 20 of 23.
If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article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

PILE DATA

Type: HP 14x73 with Pile Shoes
Nominal Required Bearing: 578 k
Factored Resistance Available: 289 k
Est. Length: 74'-3"
No. Production Piles: 16
No. Test Piles: None

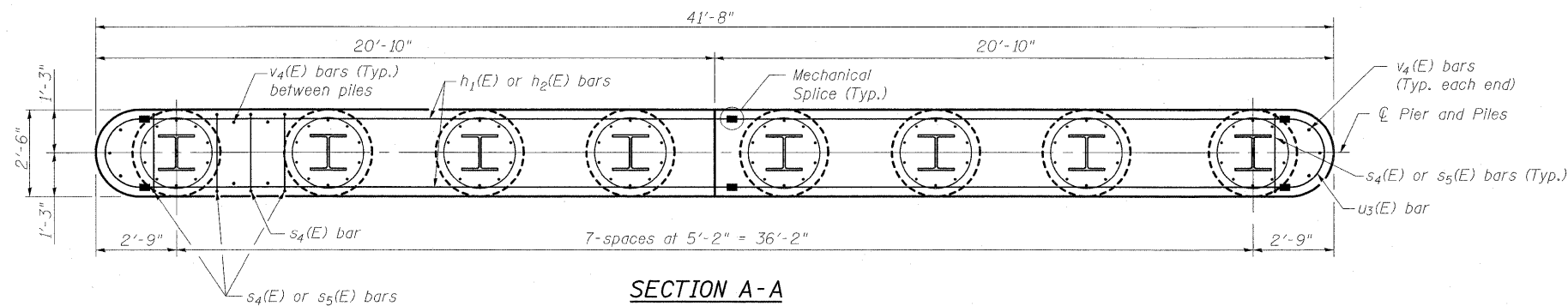


TOP PLAN

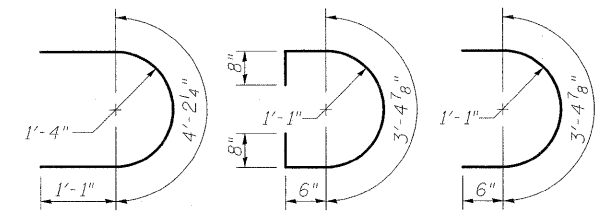


ELEVATION
(Looking North)

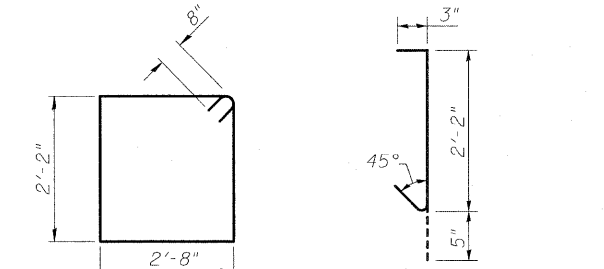
Note: Top of Pile Elev. = 477.61 (Pier 1)
477.65 (Pier 2)



SECTION A-A



BAR u₁(E) BAR u₂(E) BAR u₃(E)



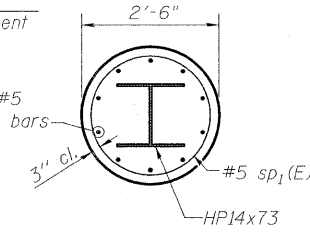
BAR s₃(E) BAR s₄(E) & s₅(E)

ELEVATION DATA

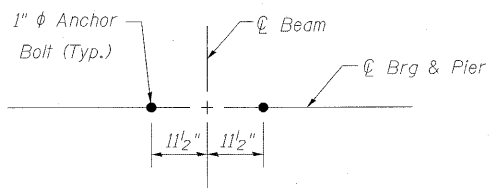
	Pier 1	Pier 2
Elev. A	478.11	478.15
Elev. B	478.26	478.30
Elev. C	478.37	478.41
Elev. D	470.86	470.90

BILL OF MATERIAL
FOR TWO PIERS

Bar	No.	Size	Length	Shape
h ₁ (E)	32	#4	19'-6"	—
h ₂ (E)	32	#4	19'-7"	—
h ₃ (E)	32	#4	18'-7"	—
n(E)	160	#5	9'-9"	—
p ₁ (E)	28	#6	19'-6"	—
s ₃ (E)	60	#6	11'-0"	□
s ₄ (E)	368	#4	2'-10"	┌
s ₅ (E)	128	#3	2'-10"	┌
sp ₁ (E)	16	#5	9'-9"	⋈
u ₁ (E)	12	#4	6'-5"	U
u ₂ (E)	16	#4	5'-9"	U
u ₃ (E)	32	#4	4'-5"	U
v ₄ (E)	68	#5	4'-5"	—
Concrete Structures		Cu. Yd.	60.5	
Reinforcement Bars, Epoxy Coated		Pound	10,120	
Furnishing Steel Piles, HP 14x73		Foot	1188	
Driving Piles		Foot	1188	
Pile Shoes		Each	16	
Bar Splicers		Each	30	
Mechanical Splice		Each	96	
Concrete Encasement		Cu. Yd.	8.7	
Structure Excavation		Cu. Yd.	64	
Underwater Structure Excavation Protection - Location 1		Each	1	
Underwater Structure Excavation Protection - Location 2		Each	1	



SECTION B-B



ANCHOR BOLT DETAIL

DESIGNED	B.B.
CHECKED	C.J.F.
DRAWN	W.J.S.
CHECKED	C.J.F. & B.B.

PIER 1 & 2
STRUCTURE NUMBER 061-0094

SHEET NO. 18 23 SHEETS	F.A.P. RTE. 322	SECTION 25BR-1	COUNTY MARION	TOTAL SHEETS 63	SHEET NO. 41
	SN 061-0094		CONTRACT NO. 76A83		
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT 322					

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