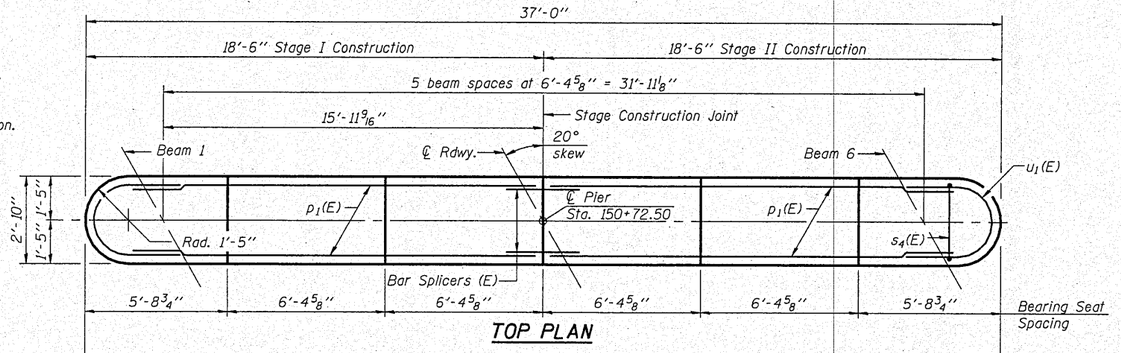
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

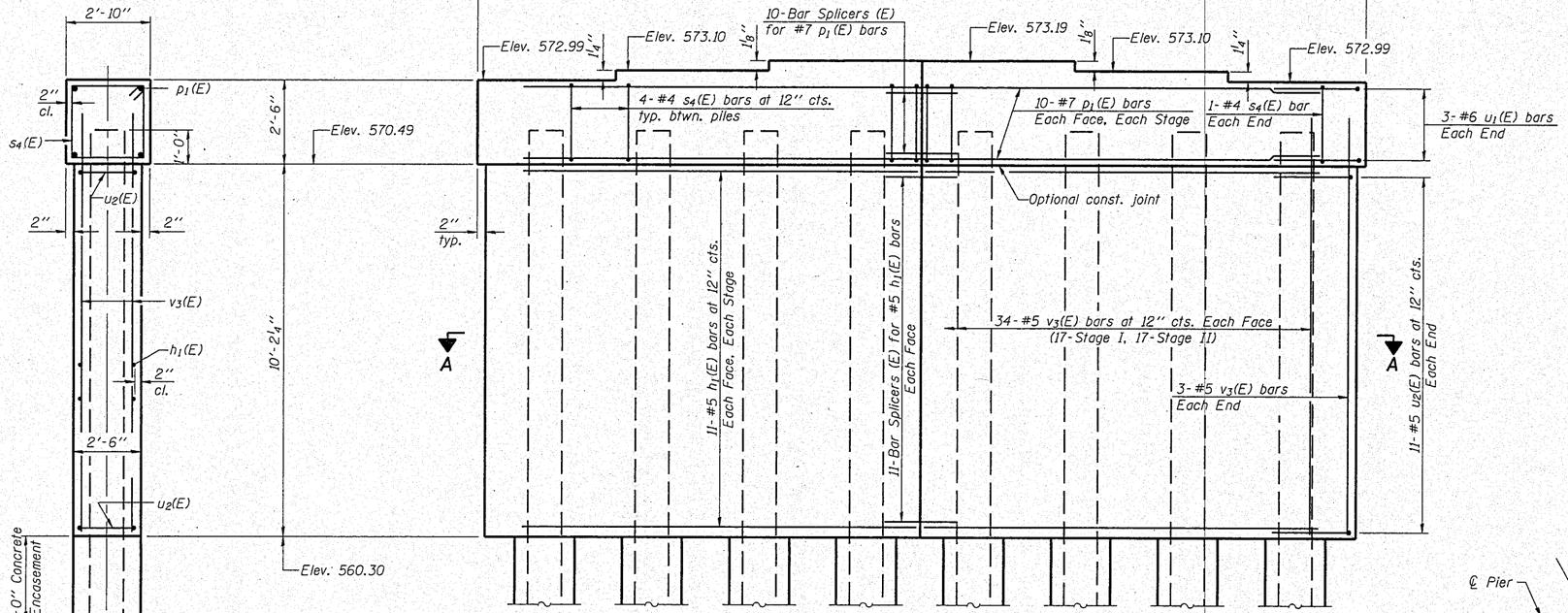
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles and Concrete Encasement, see sheet 17 of 22.
For details of Bar Splicers, see sheet 18 of 22.
If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremmied 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: Metal Shell-14 in. dia. x 0.312 in. walls
Nominal Required Bearing: 344 kips
Factored Resistance Available: 170 kips
Est. Length: 61 ft.
No. Production Piles: 7
No. Test Piles: 1

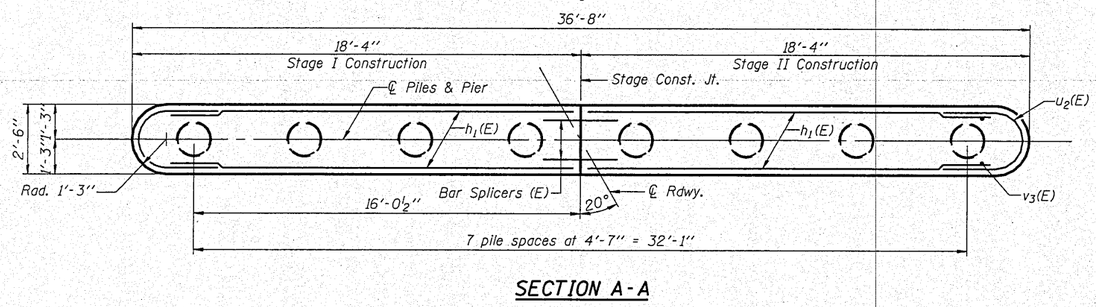


TOP PLAN

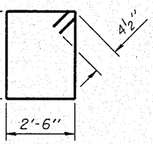


END VIEW

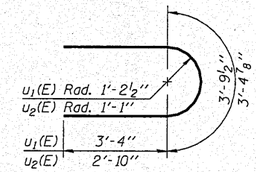
ELEVATION
(Looking East)



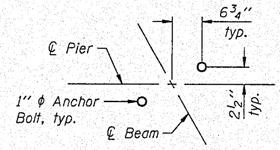
SECTION A-A



BAR $s_4(E)$



BARS $u_1(E)$ & $u_2(E)$



TYP. ANCHOR BOLT LAYOUT

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_1(E)$	44	#5	16'-11"	——
$p_1(E)$	20	#7	16'-11"	——
$s_4(E)$	30	#4	10'-1"	□
$u_1(E)$	6	#6	10'-6"	⊃
$u_2(E)$	22	#5	9'-1"	⊃
$v_3(E)$	74	#5	11'-6"	——
Structure Excavation		Cu. Yd.	23	
Concrete Structures		Cu. Yd.	40.5	
Concrete Encasement		Cu. Yd.	3.4	
Reinforcement Bars, Epoxy Coated		Pound	2860	
Furnishing Metal Shell Piles, 14"x0.312"		Foot	427	
Driving Piles		Foot	427	
Test Pile, Metal Shells		Each	1	
Underwater Structure Excavation Protection - Location 1		Each	1	

MAURER & STUTZ, INC. ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- SGM
CHECKED	- BAS

PIER
STRUCTURE NO. 036-0070

SHEET NO. 16	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22 SHEETS	657	(116-C)BR-1	HENDERSON	56	33
			CONTRACT NO. 68761		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		