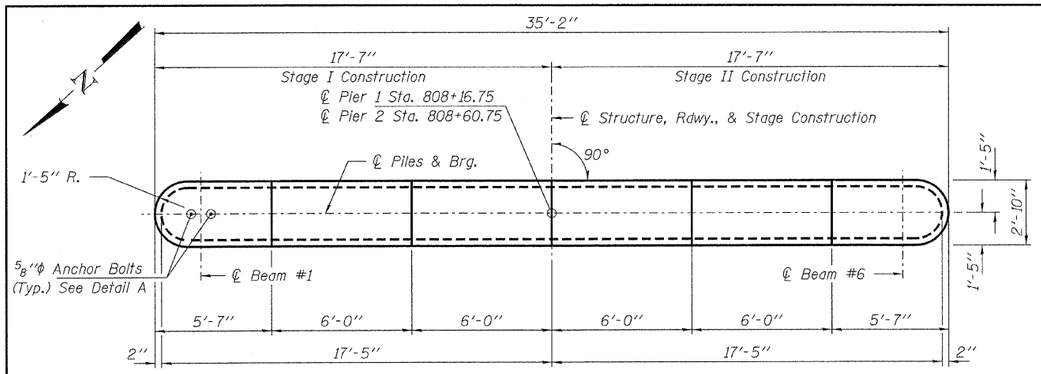
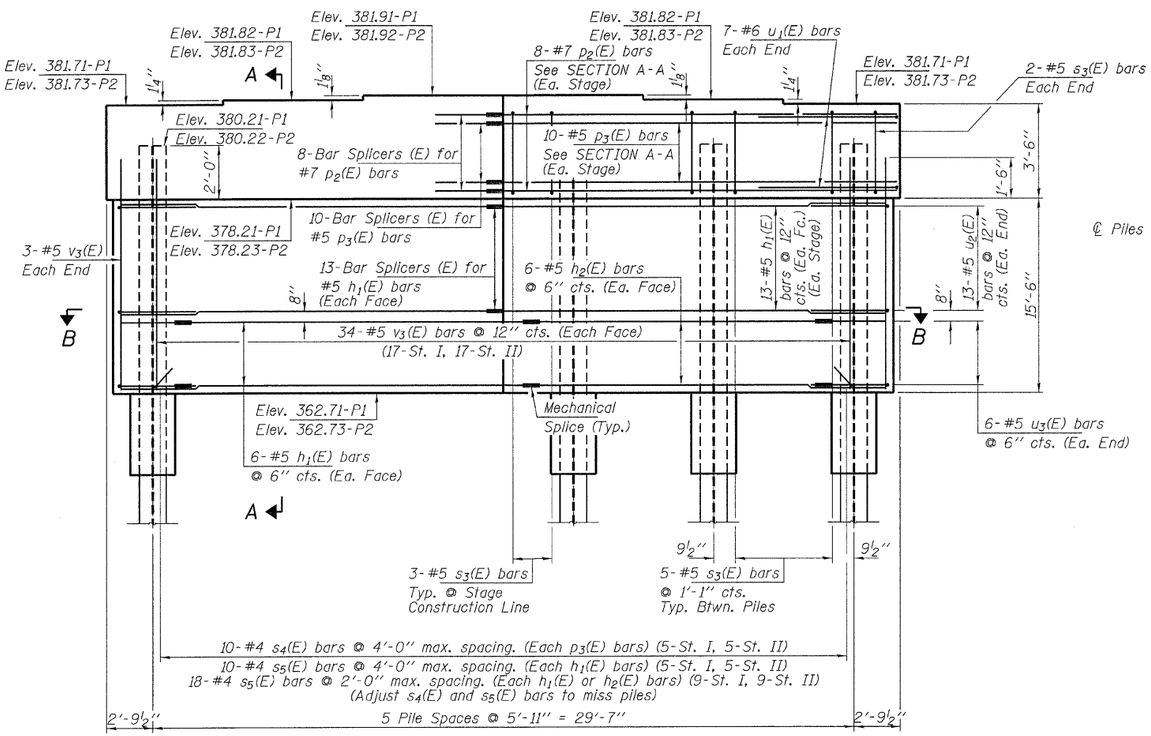
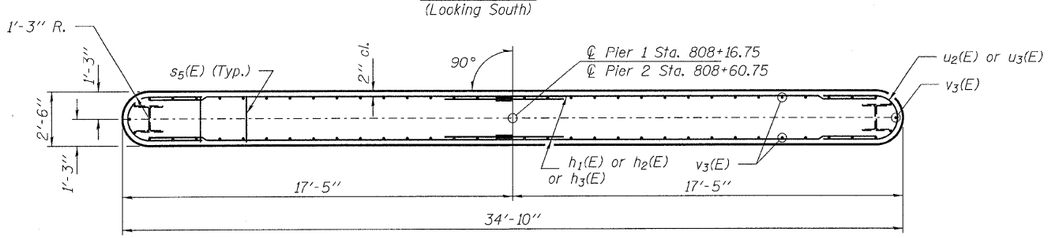


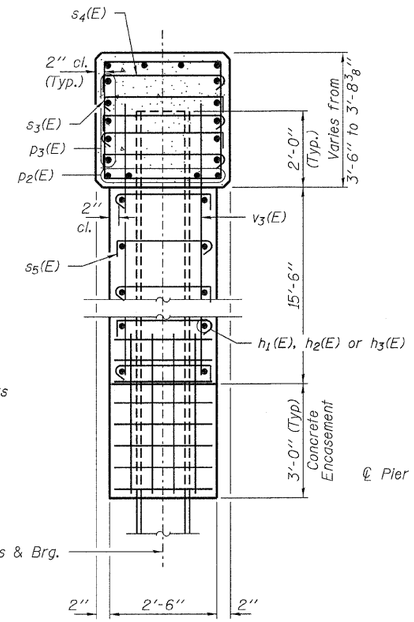
PLAN



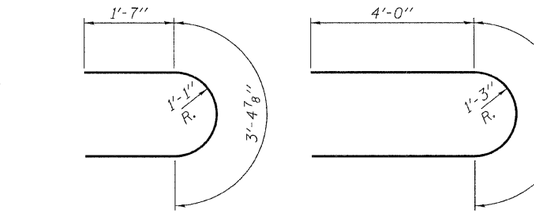
ELEVATION
(Looking South)



SECTION B-B

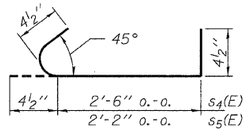


SECTION A-A

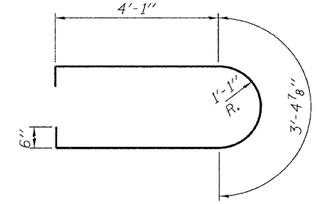


BAR u3(E)

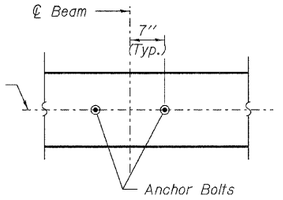
BAR u1(E)



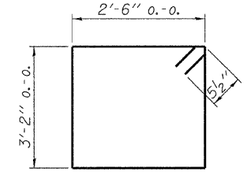
BAR s4(E) & s5(E)



BAR u2(E)



DETAIL A



BAR s3(E)

Notes:
Pour steps monolithically with cap.
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.
$s_4(E)$ and $s_5(E)$ bars shall enclose both the veritcal and horizontal reinforcing bars. The position of the 90 and 135 degree hooked ends shall be alternated between adjacent bars as shown, both vertically and horizontally.
Space reinforcement in the cap to miss anchor bolts.
For details of Bar Splicers, see sheet 20 of 24.
For details of piles and Concrete Encasement, see sheet 22 of 24.

PILE DATA

Type: Steel HP14x73 with Pile Shoes
Nominal Required Bearing: 578 Kips/pile
Factored Resistance Available: 240 Kips/pile
Est. Length: 74' (Pier 1)
Est. Length: 70' (Pier 2)
No. Production Piles: 10
No. Test Piles: 2 (1-Pier 1, 1-Pier 2)

BILL OF MATERIAL - 2 PIERS

BAR	NO.	SIZE	LENGTH	SHAPE
$h_1(E)$	128	#5	15'-7"	——
$h_2(E)$	24	#5	13'-7"	——
$p_2(E)$	32	#7	15'-3"	——
$p_3(E)$	40	#5	15'-3"	——
$s_3(E)$	60	#5	12'-3"	□
$s_4(E)$	100	#4	3'-3"	⊐
$s_5(E)$	476	#4	2'-11"	⊐
$u_1(E)$	28	#6	12'-0"	⊃
$u_2(E)$	52	#5	12'-7"	⊃
$u_3(E)$	24	#5	6'-7"	⊃
$v_3(E)$	148	#5	16'-10"	——
Structure Excavation			Cu. Yd.	92
Concrete Structures			Cu. Yd.	123.4
Concrete Encasement			Cu. Yd.	6.4
Reinforcement Bars, Epoxy Coated			Pound	9,920
Bar Splicers			Each	88
Furnishing Steel Piles HP14x73			Foot	720
Driving Piles			Foot	720
Test Pile Steel HP14x73			Each	2
Pile Shoes			Each	12
Underwater Structure Excavation Protection - Loc. 1			Each	1
Underwater Structure Excavation Protection - Loc. 2			Each	1
Mechanical Splicers			Each	72