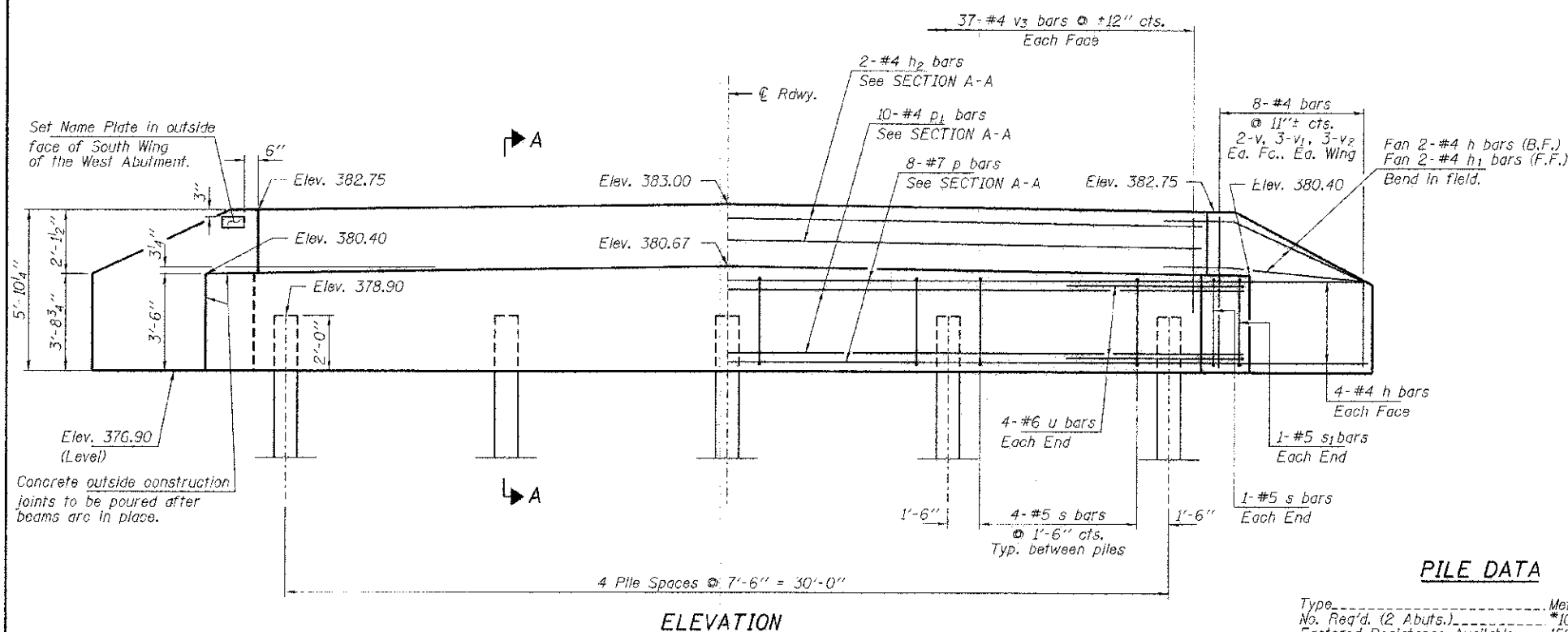
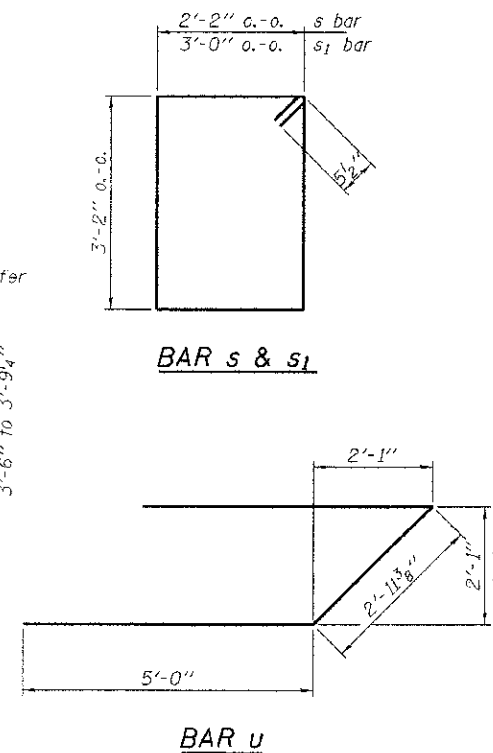
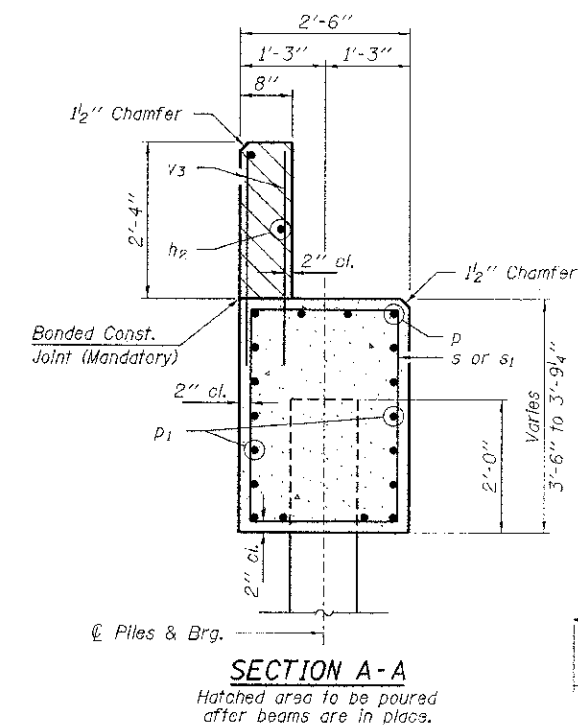
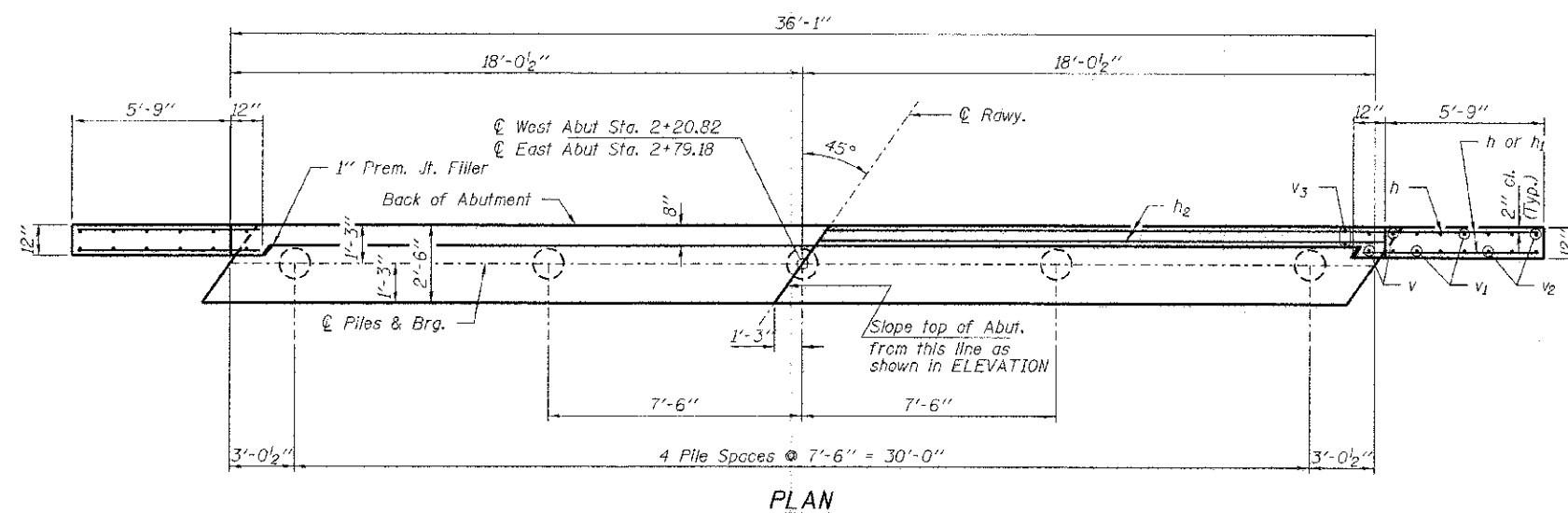




BILL OF MATERIAL - 2 ABUTS.

BAR	NO.	SIZE	LENGTH	SHAPE
h	40	#4	8'-0"	————
h_1	8	#4	6'-6"	————
h_2	4	#4	35'-9"	————
p	16	#7	35'-9"	————
p_1	20	#4	35'-9"	————
s	36	#5	11'-7"	□
s_1	4	#5	13'-3"	□
u	16	#6	13'-0"	————
v	16	#4	5'-5"	————
v_1	24	#4	4'-5"	————
v_2	24	#4	3'-5"	————
v_3	148	#4	3'-2"	————
Concrete Structures			Cu. Yd.	32.2
Reinforcement Bars			Pound	3,290
Metal Shell Piles 12"x0.25"			Foot	495
Test Pile Metal Shells			Each	1
Name Plates			Each	1

PILE DATA

Type.....	Metal Shell Piles 12"x0.25"
No. Req'd. (2 Abuts.).....	*10
Factored Resistance Available.....	150 Kips/Pile
Nominal Req'd Bearing.....	273 Kips/Pile
Est. Length.....	55 Ft./Pile

Notes: * Includes one test pile to be driven in permanent location at the West Abutment.

The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.