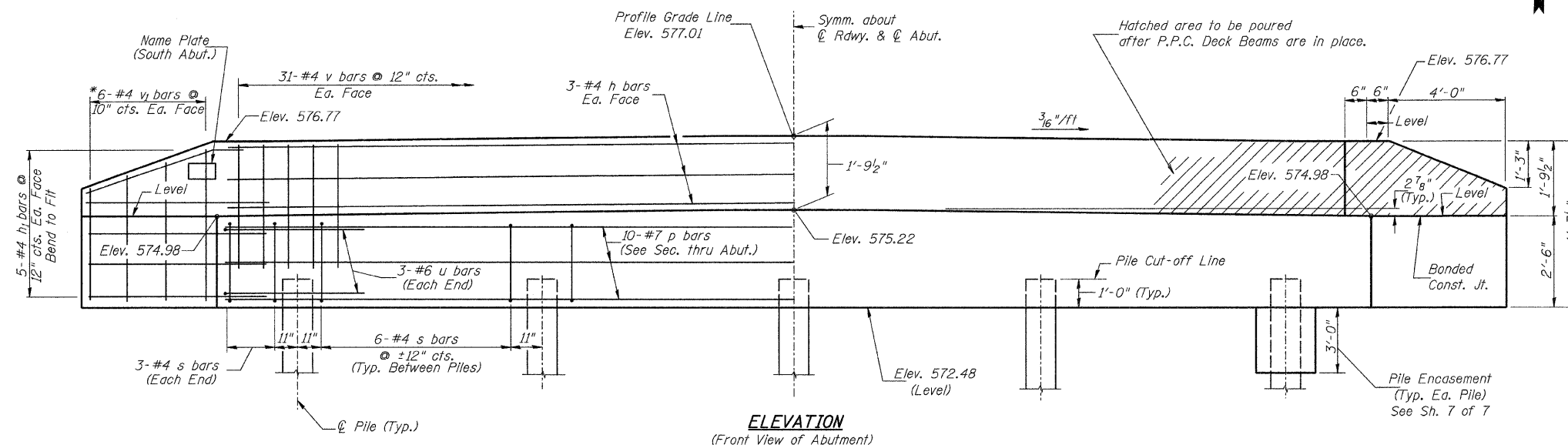
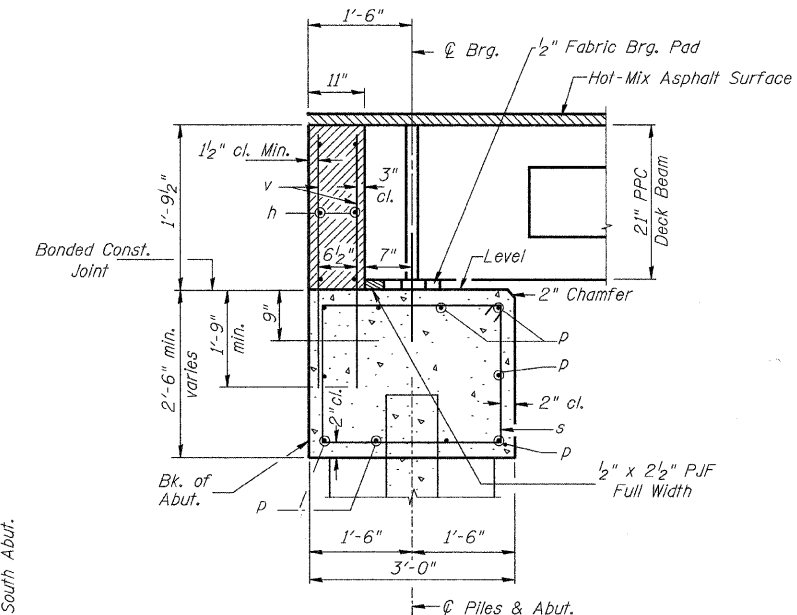
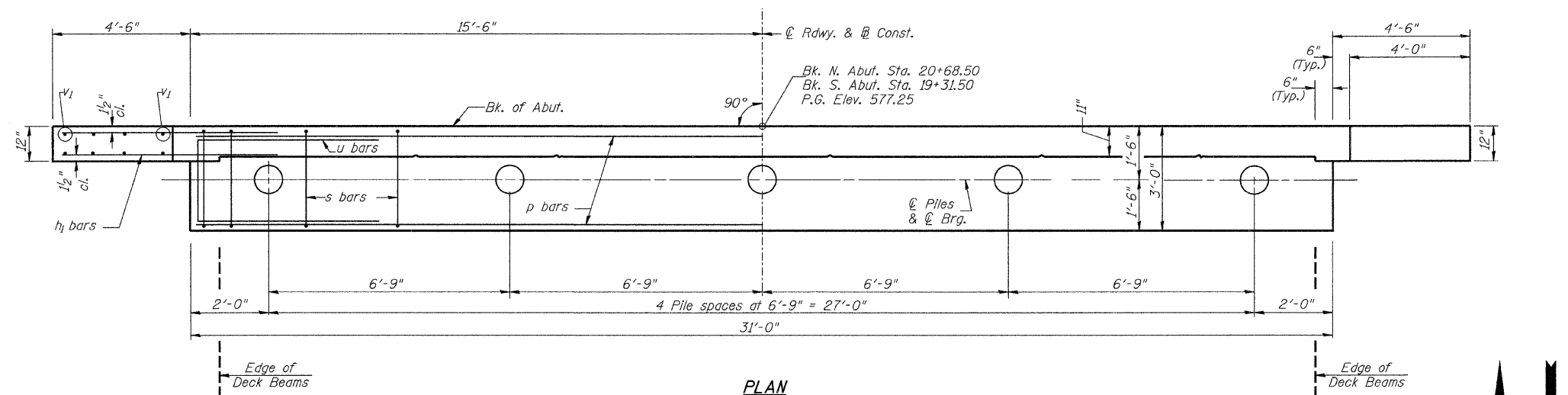




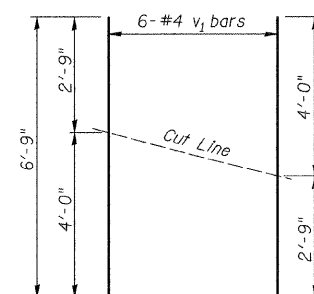
DESIGN STRESSES
 $f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i.

NOTES

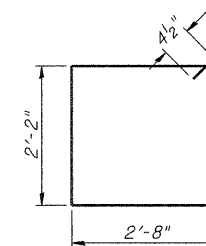
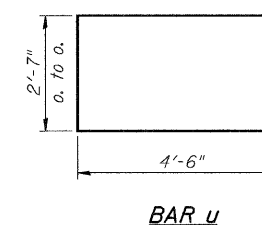
- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
- Reinforcement bars shall conform to ASTM A706 Grade 60.

PILE DATA

Type & Size: Metal Shell-12" ϕ x 0.25" walls w/ pile shoes
 Nominal Required Bearing: 210 kips
 Allowable Resistance Available: 70 kips
 Est. Length: 59' South Abutment
 43' North Abutment
 No. Req'd.: 10 (Includes 1 Test Pile at Each Abut.)



BAR CUTTING DIAGRAM
 *Order v1 bars full length. Cut as shown and use remainder of bars in opposite face.



TWO ABUTMENTS BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	12	#4	30'-9"	—
h1	40	#4	6'-9"	—
p	20	#7	30'-9"	—
s	60	#4	10'-5"	□
u	12	#6	11'-7"	□
v	124	#4	3'-6"	—
v1	24	#4	6'-9"	—
Concrete Structures			CU YD	24.0
Reinforcement Bars			POUND	2,710
Structure Excavation			CU YD	70
Name Plates			EACH	1
Furnishing Metal Shell Piles 12"			FOOT	408
Driving Piles			FOOT	408
Test Pile Metal Shells			EACH	2
Pile Shoes			EACH	10
Concrete Encasement			CU YD	2.6

① See Special Provisions

ABUTMENTS
COUNTY HIGHWAY 32
OVER NORTH FORK
MAUVAISE TERRE CREEK
SECTION 07-00098-00-BR
MORGAN COUNTY
STATION 20+00.00