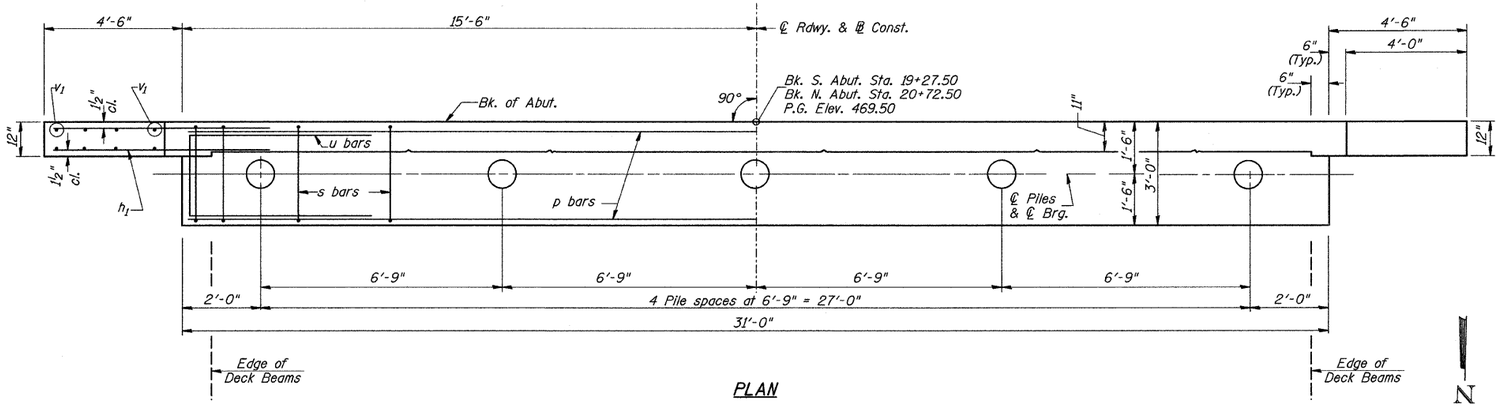
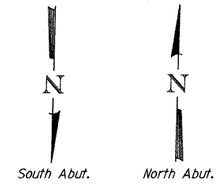
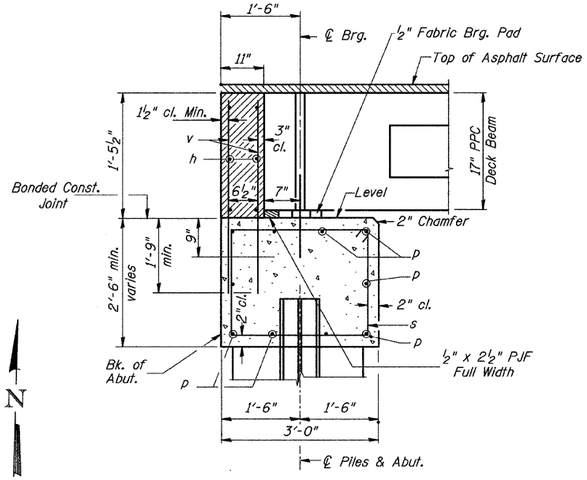
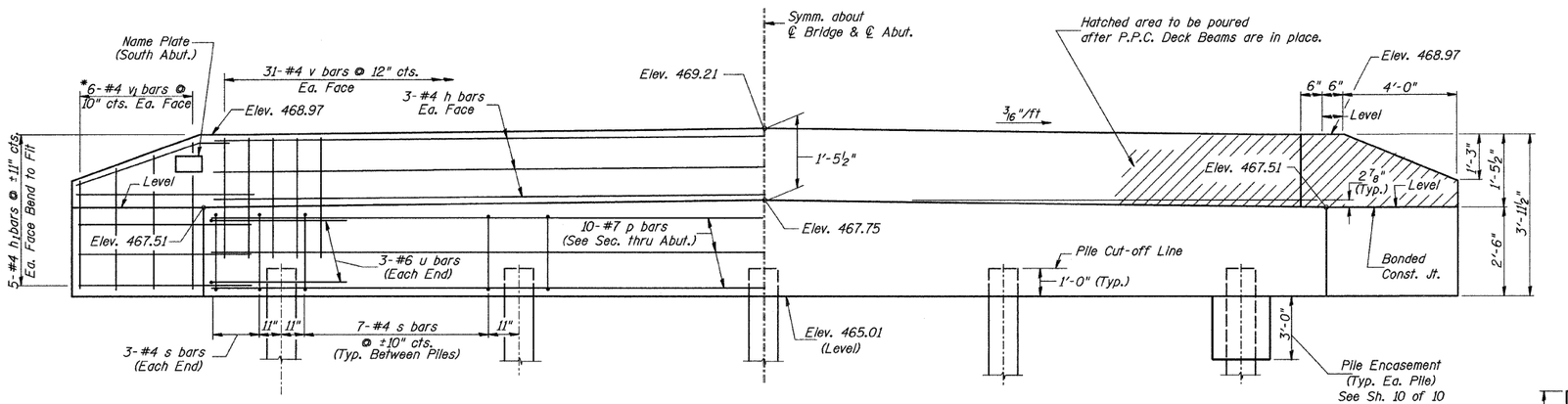


PLAN





SECTION THRU ABUT.

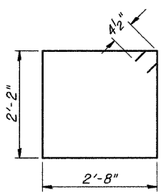


ELEVATION
(Front View of Abutment)

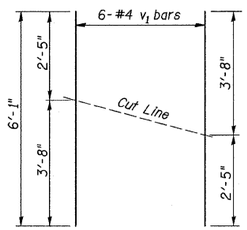
TWO ABUTMENTS BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	12	#4	30'-9"	——
h_1	40	#4	6'-6"	——
p	20	#7	30'-9"	——
s	68	#4	10'-5"	□
u	12	#6	11'-7"	⊏
v	124	#4	3'-2"	——
v_1	24	#4	6'-1"	——
Concrete Structures			CU YD	23.1
Reinforcement Bars			POUND	2,720
Structure Excavation			CU YD	60
Name Plates			EACH	1
Furnishing Metal Shell Piles 12"x0.250"			FOOT	168
① Driving Piles			FOOT	168
① Test Pile Metal Shells			EACH	2
Concrete Encasement			CU YD	2.6

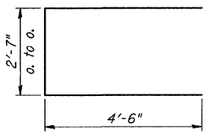
① See Special Provisions



BAR s



BAR CUTTING DIAGRAM
*Order v_1 bars full length. Cut as shown and use remainder of bars in opposite face.



BAR u

DESIGN STRESSES

f'c = 3,500 p.s.i.
fy = 60,000 p.s.i.

NOTES

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

PILE DATA

Type & Size: Metal Shells-12"ϕx0.25" walls
Nominal Required Bearing: 200 kips
Factored Resistance Available: 100 kips
Est. Length: 22' South Abutment
20' North Abutment
No. Req'd.: 10 (Includes 1 Test Pile at Each Abut.)

ABUTMENTS
MASON COUNTY
SECTION 07-00032-01-BR
C.H. 3 OVER QUIVER CREEK

SHEET NO. 8	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10 SHEETS	CH 3	07-00032-01-BR	MASON	21	14
	S.N. 063-3011		CONTRACT NO. 93505		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0568(102)		

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