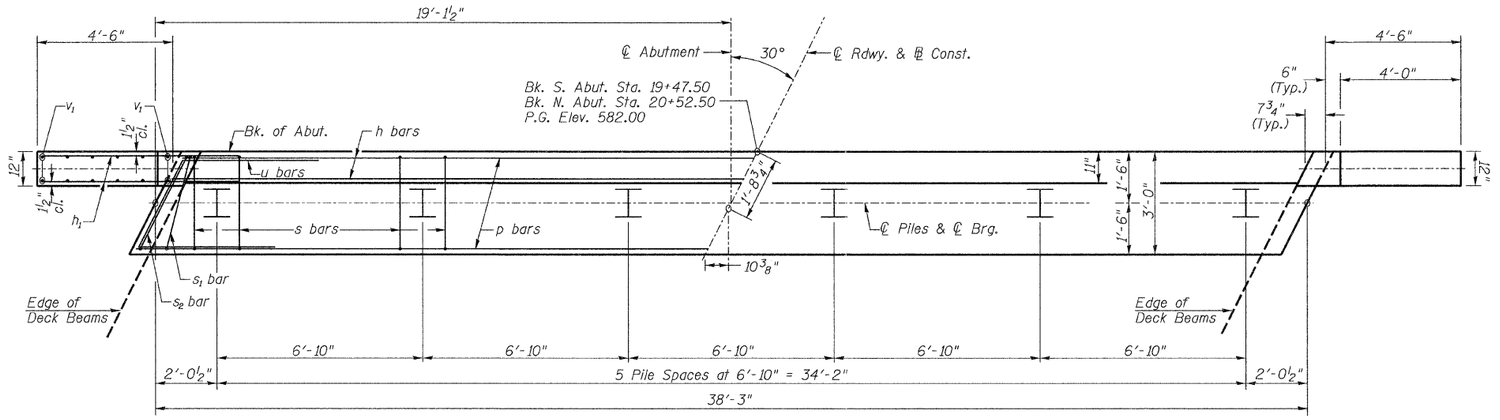
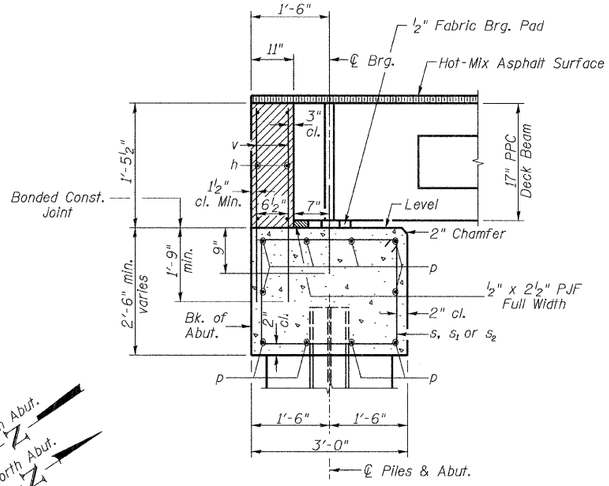
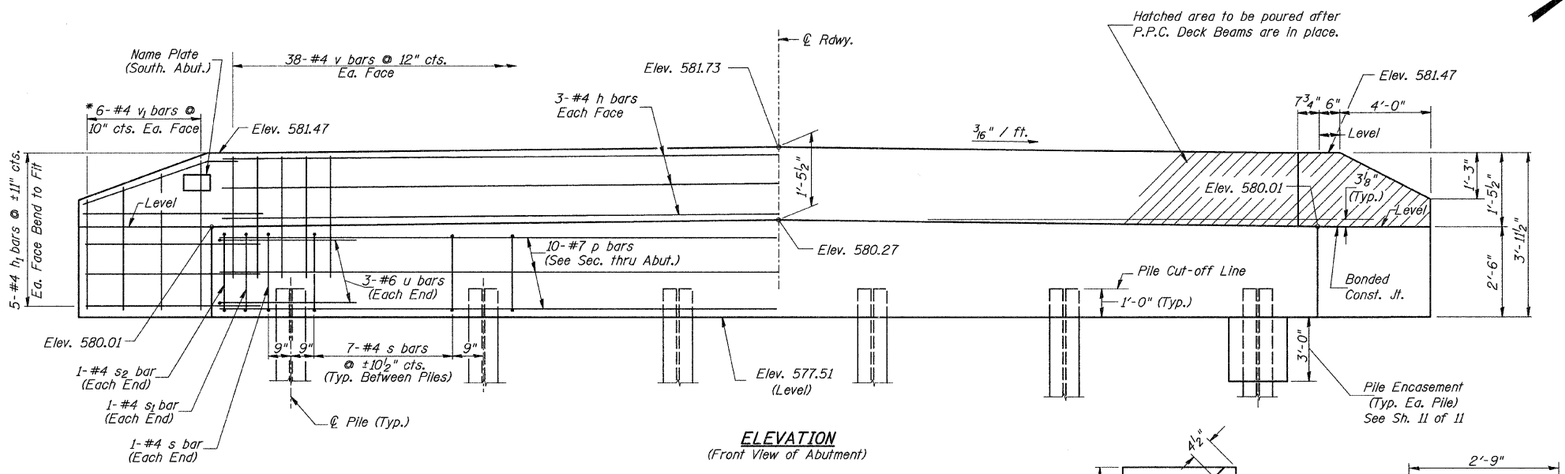


PLAN

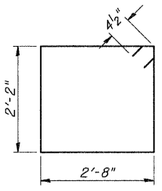


SECTION THRU ABUT.
(At Right Angles)

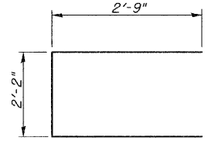
South Abut.
North Abut.



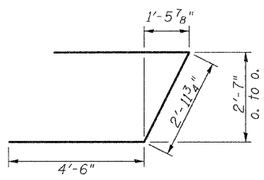
ELEVATION
(Front View of Abutment)



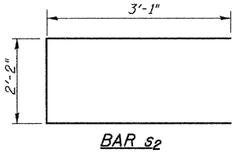
BAR s



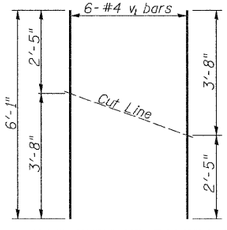
BAR s1



BAR u



BAR s2



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	38'-0"	——
h1	40	#4	6'-6"	——
p	20	#7	38'-0"	——
s	74	#4	10'-5"	□
s1	4	#4	7'-8"	⊏
s2	4	#4	8'-4"	⊏
u	12	#6	12'-0"	⌐¬
v	152	#4	3'-2"	——
v1	24	#4	6'-1"	——
Concrete Structures			CU YD	28.4
Reinforcement Bars			POUND	3,220
Structure Excavation			CU YD	80
Name Plates			EACH	1
① Furnishing Steel Piles HP10x42			FOOT	225
Driving Piles			FOOT	225
Test Pile Steel HP10x42			EACH	2
Concrete Encasement			CU YD	4.2

①See Special Provisions

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: Steel HP10x42
Nominal Required Bearing: 335 kips
Factored Resistance Available: 184 kips
Est. Length: 21' North Abutment
24' South Abutment
No. Req'd.: 12 (Includes 1 Test Pile at Each Abut.)

ABUTMENTS
PIKE COUNTY
SECTION 11-00089-00-BR
C.H. 4 OVER NORTH FORK HADLEY CREEK

SHEET NO. 9	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17 SHEETS	CH 4	11-00089-00-BR	PIKE	28	16
		S.N. 075-3324	CONTRACT NO. 93564		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0596(105)		

3063b009