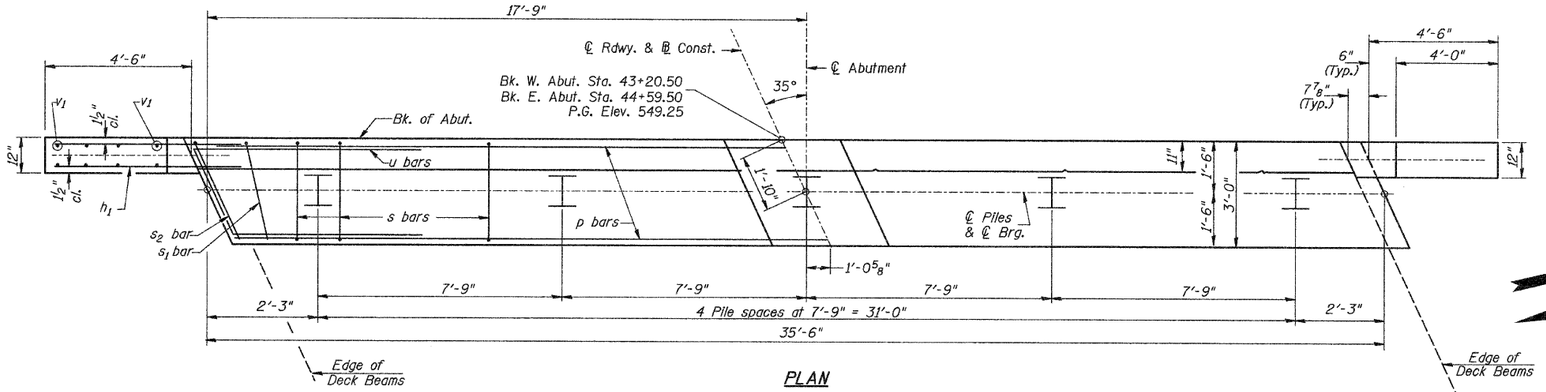
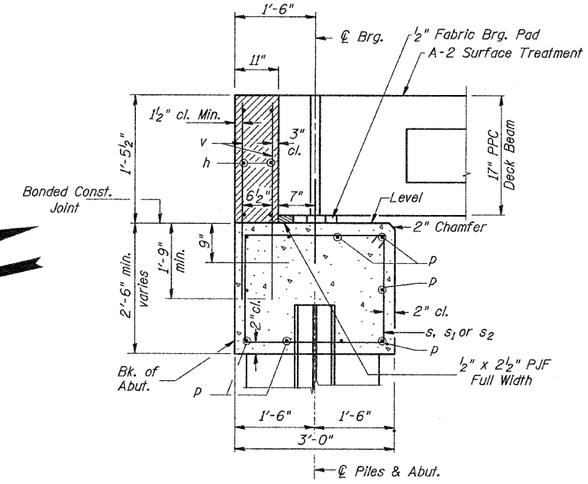
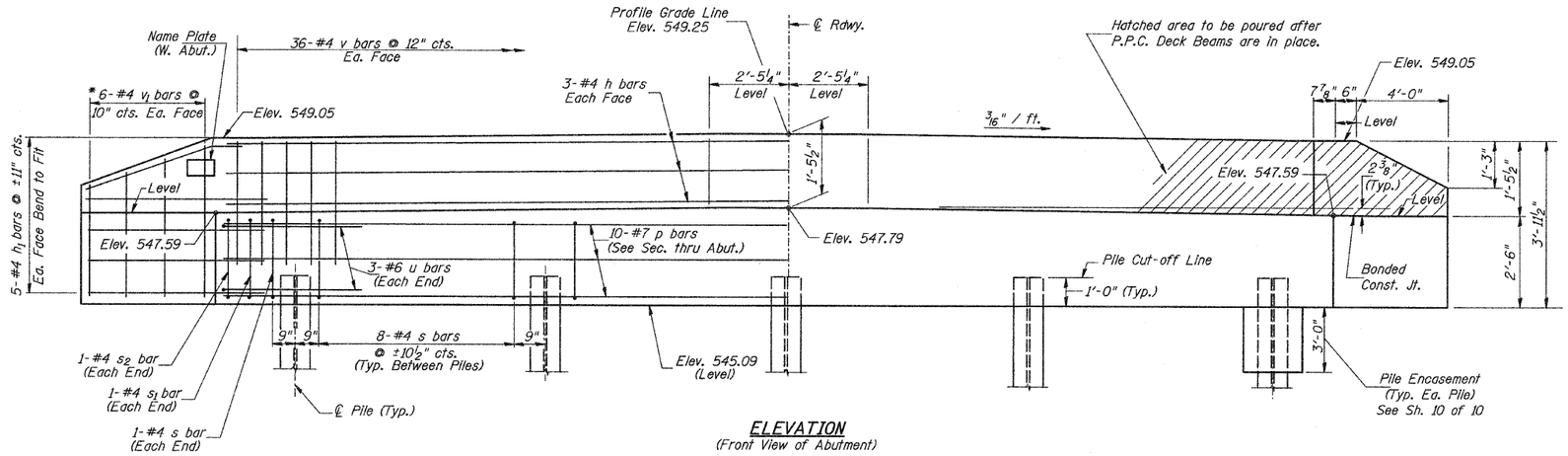


PLAN



SECTION THRU ABUT.
(At Right Angles)



ELEVATION
(Front View of Abutment)

TWO ABUTMENTS BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	12	#4	35'-3"	——
h1	40	#4	6'-6"	——
p	20	#7	35'-3"	——
s	68	#4	10'-5"	□
s1	4	#4	7'-10"	⊏
s2	4	#4	8'-8"	⊏
u	12	#6	12'-2"	◺
v	144	#4	3'-2"	——
v1	24	#4	6'-1"	——

	Concrete Structures	CU YD	26.4
①	Reinforcement Bars	POUND	3,040
	Structure Excavation	CU YD	110
	Name Plates	EACH	1
①	Furnishing Steel Piles HP10x42	FOOT	196
①	Driving Piles	FOOT	196
①	Test Pile Steel HP10x42	EACH	2
	Pile Shoes	EACH	10
	Concrete Encasement	CU YD	3.5

① See Special Provisions

DESIGN STRESSES

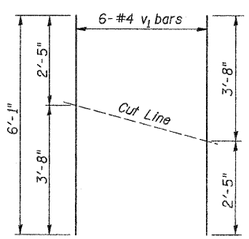
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i.

PILE DATA

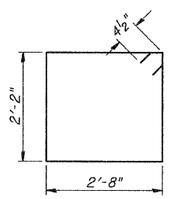
Type & Size: Steel HP10x42 w/ pile shoes
Nominal Required Bearing: 335 kips
Factored Resistance Available: 167 kips
Est. Length: 26' West Abutment
23' East Abutment
No. Req'd.: 10 (Includes 1 Test Pile at Each Abut.)

NOTES

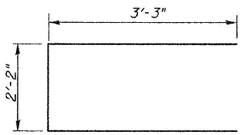
1. The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
2. Reinforcement bars shall conform to ASTM A706 Grade 60.



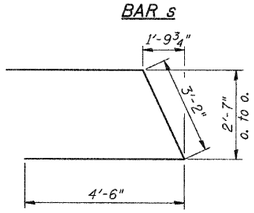
BAR CUTTING DIAGRAM
* Order v1 bars full length. Cut as shown and use remainder of bars in opposite face.



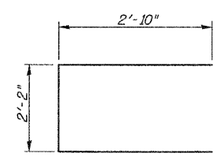
BAR s



BAR s2



BAR u



BAR s1

ABUTMENTS
PIKE COUNTY
SECTION 09-11113-00-BR
T.R. 359 OVER HONEY CREEK

SHEET NO. 8	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10 SHEETS	TR 359	09-11113-00-BR	PIKE	28	14
		S.N. 075-3318	CONTRACT NO. 93540		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BROS-0149(041)		

2800b008