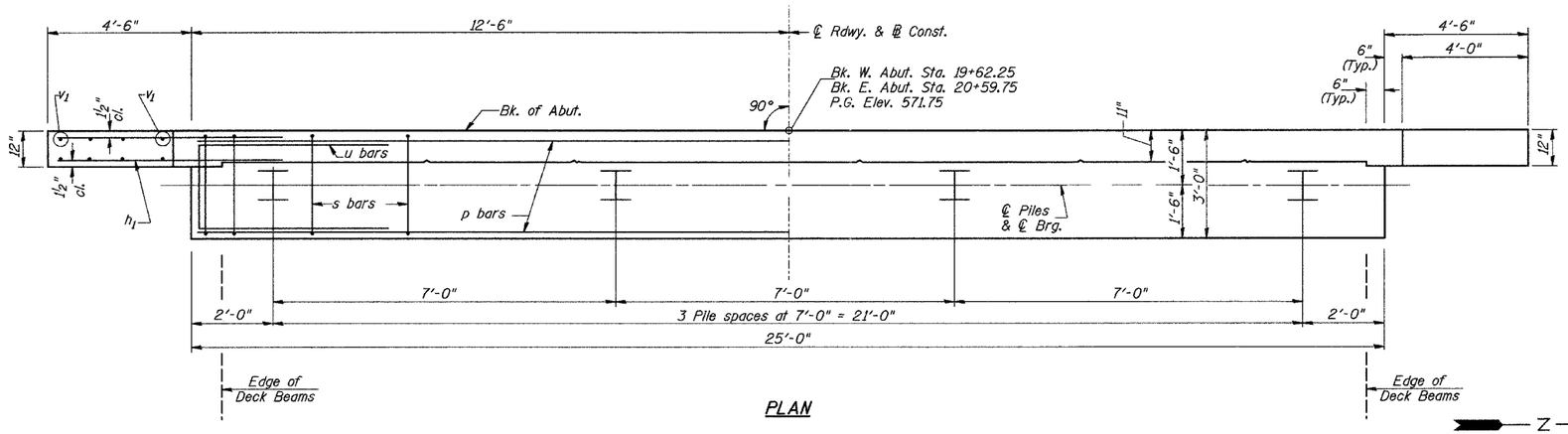
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 2	*	BROWN	21	14
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT BRS-1582(106)	

SHEET NO. 8 OF 10 SHEETS

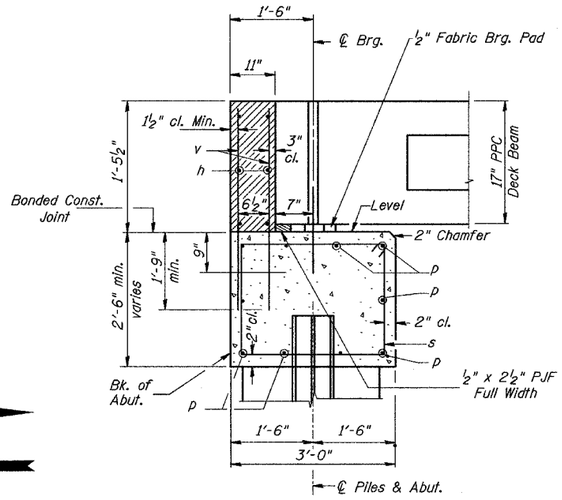
*05-00064-00-BR CONTRACT * 93469



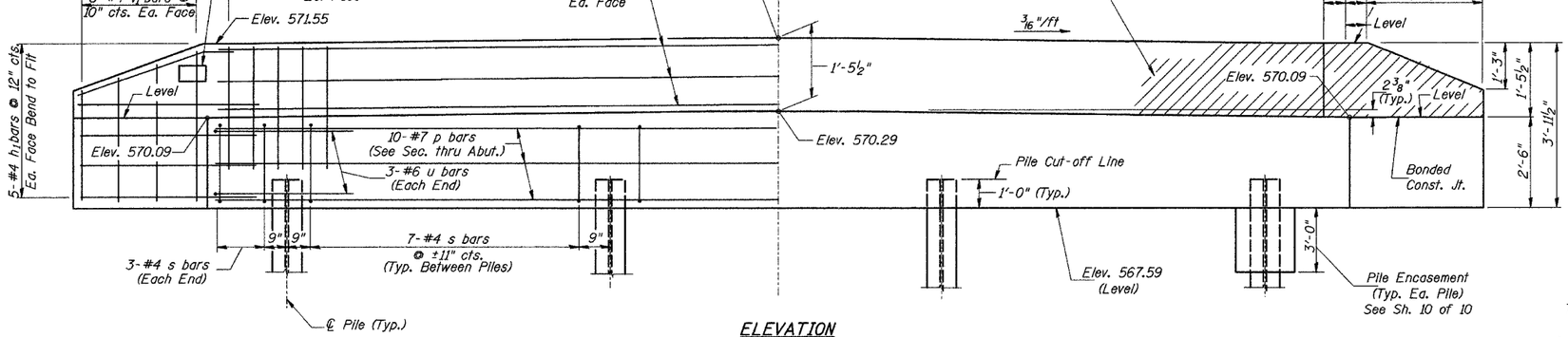
PLAN

Z — West Abut.

Z — East Abut.



SECTION THRU ABUT.



ELEVATION
(Front View of Abutment)

DESIGN STRESSES

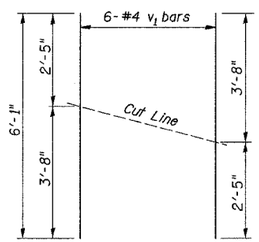
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i.

NOTES

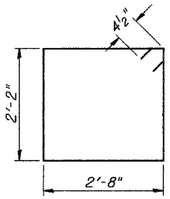
1. The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
2. Reinforcement bars shall conform to ASTM A706 Grade 60.

PILE DATA

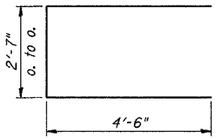
Type & Size: Steel HP10x42 w/ pile shoes
Nominal Required Bearing: 336 kips
Allowable Resistance Available: 112 kips
Est. Length: 24' West Abutment
20' East Abutment
No. Req'd.: 8 (Includes 1 Test Pile at Each Abut.)



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



BAR s



BAR u

TWO ABUTMENTS BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	12	#4	24'-9"	——
h1	40	#4	6'-6"	——
p	20	#7	24'-9"	——
s	54	#4	10'-5"	□
u	12	#6	11'-7"	⊏
v	100	#4	3'-2"	——
v1	24	#4	6'-1"	——
Concrete Structures			CU YD	19.2
① Reinforcement Bars			POUND	2,280
Structure Excavation			CU YD	55
Name Plates			EACH	1
Furnishing Steel Piles HP10x42			FOOT	132
Driving Piles			FOOT	132
Test Pile Steel HP10x42			EACH	2
Pile Shoes			EACH	8
Concrete Encasement			CU YD	2.8

① See Special Provisions

ABUTMENTS
COUNTY HIGHWAY 2 OVER LITTLE MISSOURI CREEK
SECTION 05-00064-00-BR
BROWN COUNTY
STATION 20+11.00

2550B008