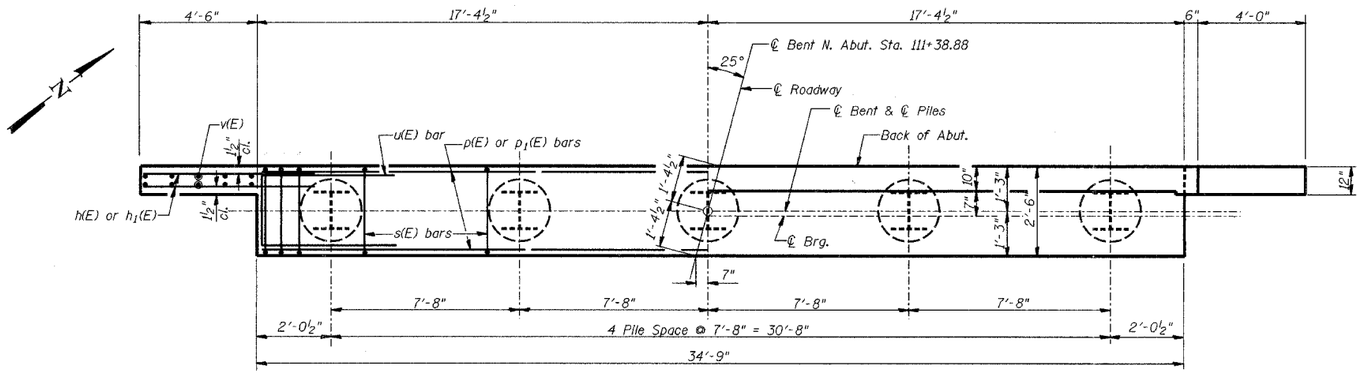
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 14 F.A.S. 209	00-00091-00-BR	MERCER	III	62
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	

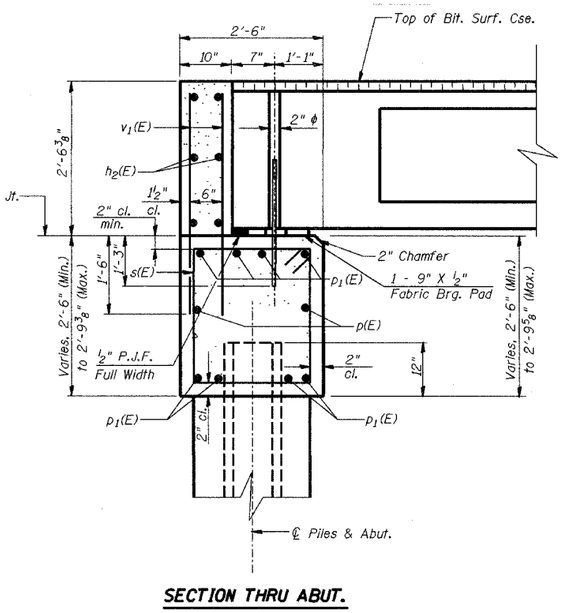
CONTRACT NO. 89312



PLAN

NOTES

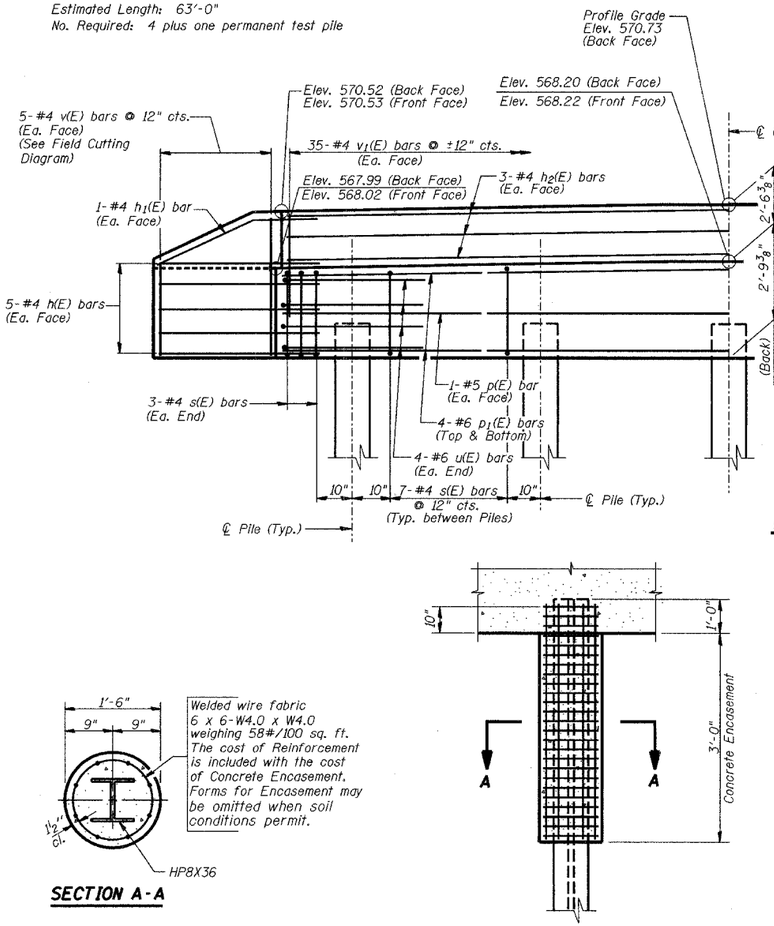
1. The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place Deck Beams.
2. 1" dia. x 2'-6" dowel rods in 1½" dia. holes drilled in cap (4 each beam). Dowel rods to be grouted after beams are in place and allowed to cure (min. 24 hrs.) prior to grouting the shear keys. The grout shall be an approved non-shrink grout.
3. Reinforcement Bars designated (E) shall be Epoxy Coated.
4. Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-322, Grade 60.
5. Space Reinforcement in cap to miss dowel rods.
6. The Steel H-Piles shall be according to AASHTO M-270, Grade 50.
7. The test pile shall be driven to 110 percent of the Nominal Required Bearing Indicated in the Pile Data Information.



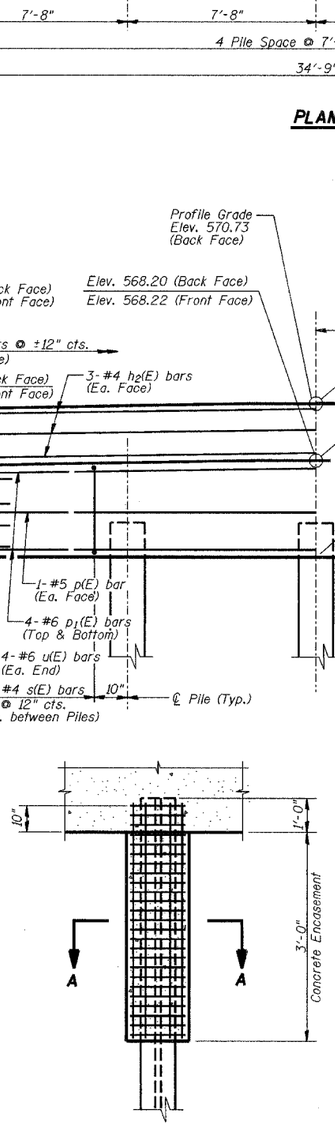
SECTION THRU ABUT.
(At Rt. Angles)

PILE DATA

Type: Steel HP8x36
Nominal Required Bearing: 286 Kips/pile
Allowable Resistance Available: 86 Kips/pile
Estimated Length: 63'-0"
No. Required: 4 plus one permanent test pile

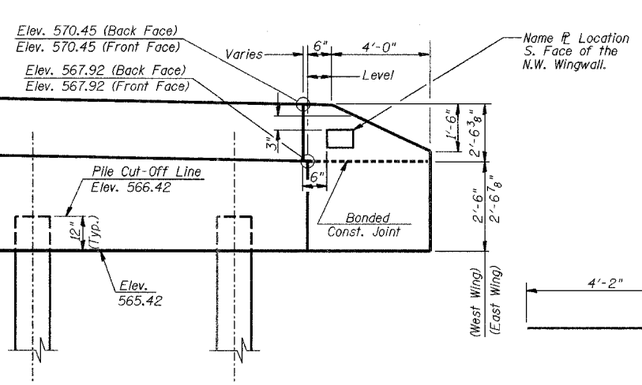


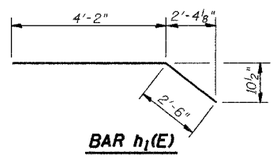
ELEVATION
(Looking North)



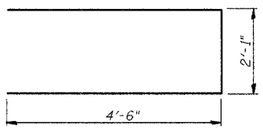
Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. The cost of Reinforcement is included with the cost of Concrete Encasement. Forms for Encasement may be omitted when soil conditions permit.

SECTION A-A

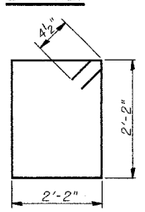




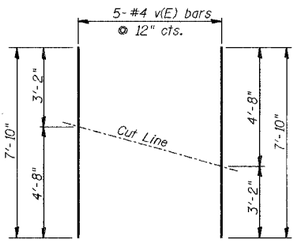
BAR h1(E)



BAR u(E)



BAR s(E)



FIELD CUTTING DIAGRAM
Order bars full length. Cut to fit as shown and use remainder of bars in other face.

BILL OF MATERIAL
NORTH ABUTMENT

Bar	No.	Size	Length	Shape
h(E)	20	#4	6'-6"	
h1(E)	4	#4	6'-8"	
h2(E)	6	#4	34'-5"	
p(E)	2	#5	34'-5"	
p1(E)	8	#6	34'-5"	
s(E)	34	#4	9'-5"	
u(E)	8	#6	11'-1"	
v(E)	10	#4	7'-10"	
v1(E)	70	#4	3'-10"	
Concrete Structures			Cu. Yd.	12.6
Steel Piles HP 8x36			Foot	252
Test Pile Steel HP 8x36			Each	1
Reinforcement Bars, Epoxy Coated			Pound	1310
Concrete Encasement			Cu. Yd.	1

NORTH ABUTMENT

Date	Designed DCS	F.A.S. 209 (C.H. 14) OVER KEATING CREEK SECTION 00-00091-00-BR MERCER COUNTY STA. 111+67.50 PROP. STR. NO. 066-3157	Sheet No. 4 of 5
Revisions	Drawn BKN		
	Checked DCS		
	Approved KWB		
Prepared by: URS	3040 North University Avenue Decatur, Il. 62526		WVP Job No. 2100001253.01