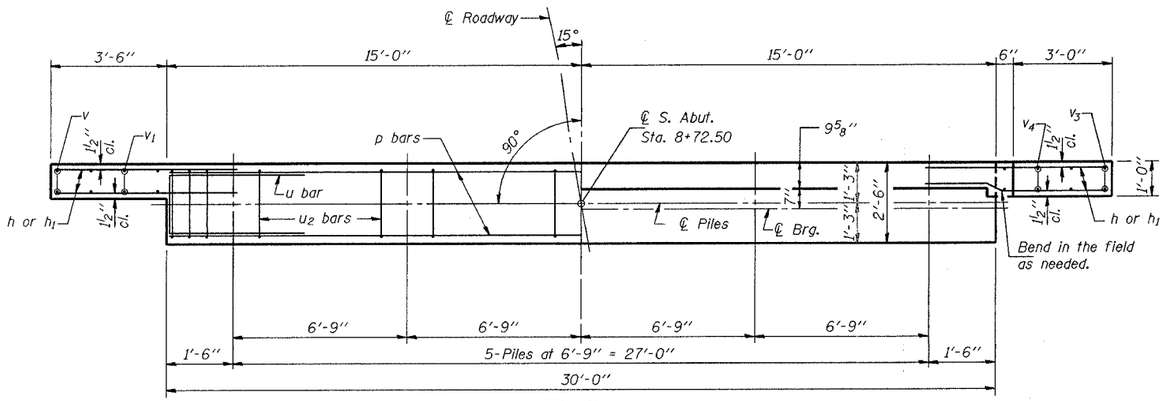
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	*	UNION	22	18
FED. ROAD DIST. NO. 7	ILLINOIS	Contract No. 99214		

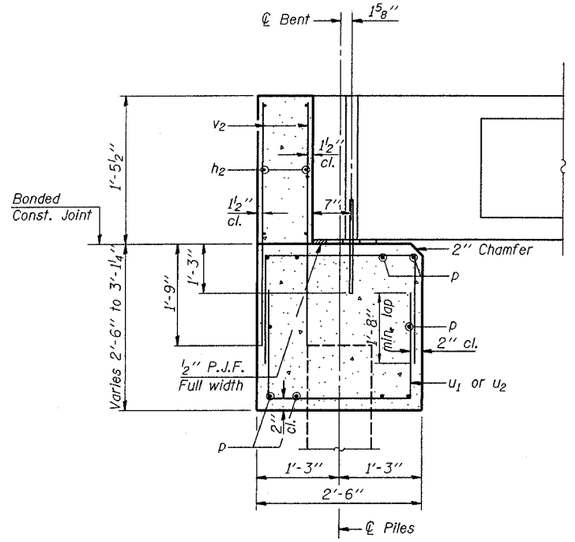
* 03-01176-00-BR

SHEET NO. 5
9 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

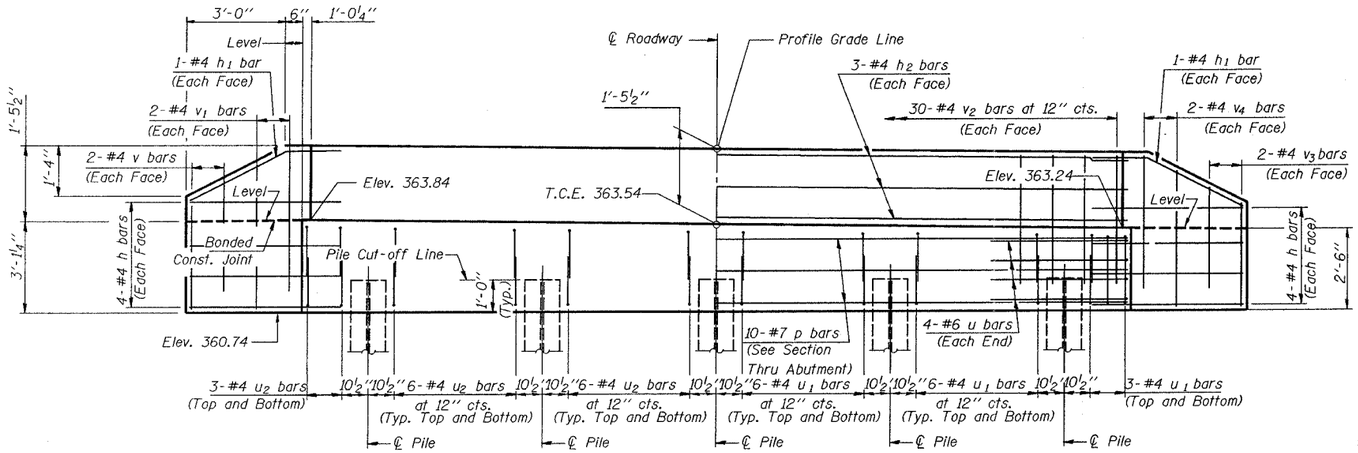


PLAN



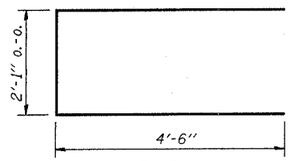
SECTION THRU ABUTMENT

(At Right Angles)

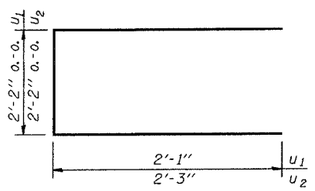


ELEVATION

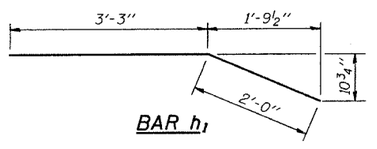
(Looking South)



BAR u



BAR u_1 and u_2



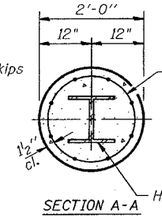
BAR h_1

BILL OF MATERIAL FOR SOUTH ABUTMENT

Bar	No.	Size	Length	Shape
h	16	#4	5'-0"	—
h_1	4	#4	5'-3"	⟋
h_2	6	#4	29'-8"	—
p	10	#7	29'-8"	—
u	8	#6	11'-1"	⊏
u_1	30	#4	6'-4"	⊏
u_2	30	#4	6'-8"	⊏
v	4	#4	2'-11"	—
v_1	4	#4	3'-10"	—
v_2	60	#4	3'-1"	—
v_3	4	#4	2'-4"	—
v_4	4	#4	3'-3"	—
Concrete Structures		Cu. Yds.	10.1	
Reinforcement Bars		Pounds	1340	
Furnishing Steel Piles HP12x53		Foot	300	
Concrete Encasement		Cu. Yds.	1.7	
Driving Piles		Foot	300	

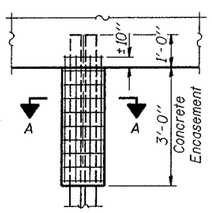
ABUT.-PILE DATA

Type: Steel HP 12x53
Allowable Resistance Available: 50 kips
Nominal Required Bearing: 150 Kips
Est. Length: 60 ft.
No. Req'd. 5



SECTION A-A

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



PILE ENCASEMENT DETAIL

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 the requirements of ASTM 706 Gr. 60, (IL Modified). See Special Provisions.
3. Space reinforcement in cap to miss anchor bolts.

DESIGNED	J.F. Schiff
CHECKED	J.K. Klein
DRAWN	SHANE SUMMER
CHECKED	JFS, JKK

APRIL - 3 2007
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

SOUTH ABUTMENT
STR. NO. 091-3221
MORGAN SCHOOL ROAD
OVER CANY CREEK
SECTION 03-01176-00-BR
UNION COUNTY
STATION 9+27.00

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