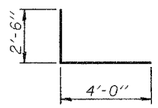
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

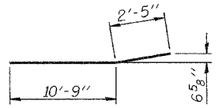
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 623	X-1BR	LaSalle	126	88
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 33
41 SHEETS

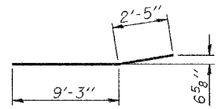
Contract #66617



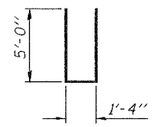
BAR $h_2(E)$



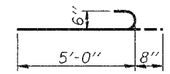
BAR $h_6(E)$



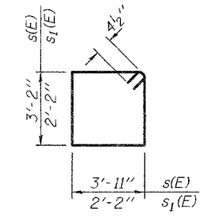
BAR $h_7(E)$



BAR $n(E)$



BAR $n_1(E)$



BARS $s(E)$ & $s_1(E)$

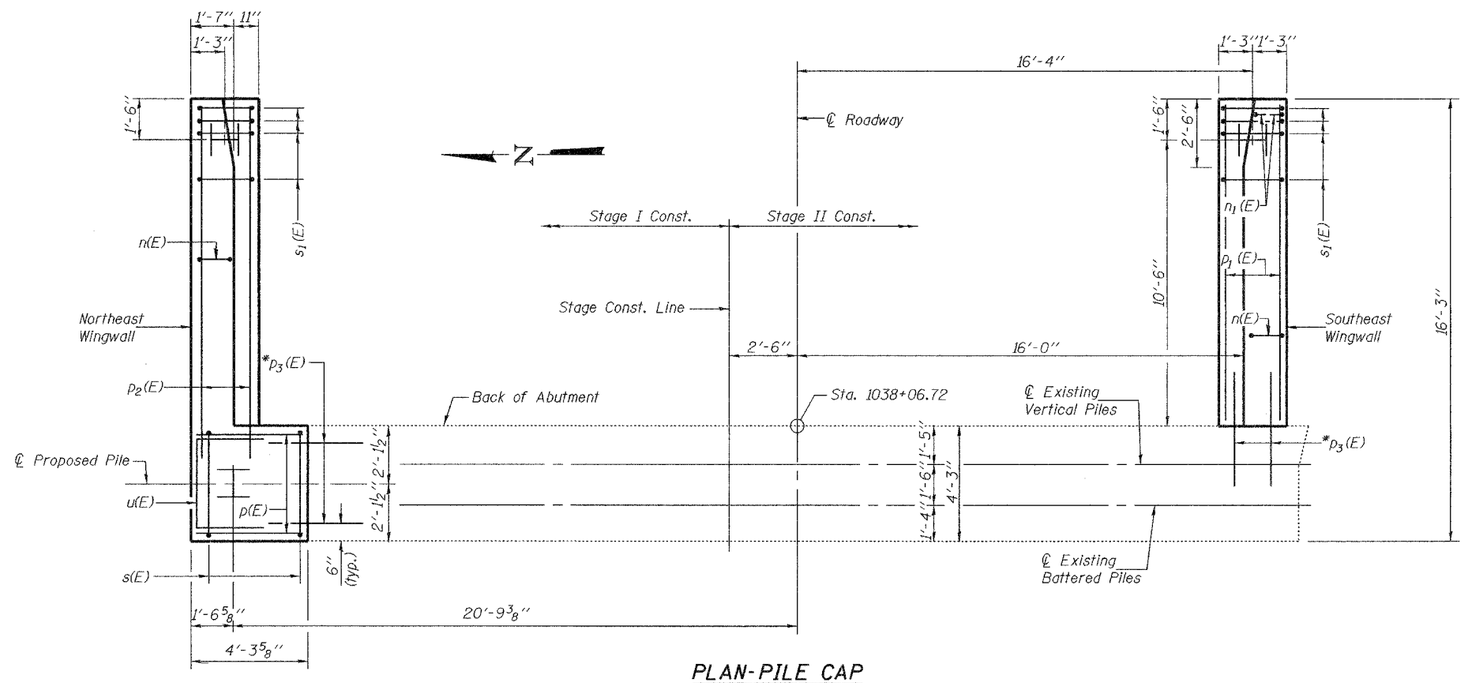
PILE DATA

Type & Size: HP12x53
Nominal Required Bearing: 418.5 kips
Allowable Resistance Available: 139.5 kips
Est. Length: 65 feet
No. of Production Piles: 3

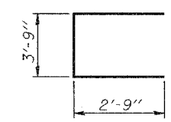
Note:
The steel H-piles shall be according to AASHTO M270, Grade 50.

EAST ABUTMENT BILL OF MATERIAL

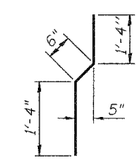
Bar	No.	Size	Length	Shape
$h(E)$	4	#6	18'-3"	
$h_1(E)$	4	#6	19'-7"	
$h_2(E)$	24	#5	4'-6"	
$h_3(E)$	10	#5	18'-3"	
$h_4(E)$	10	#5	18'-0"	
$h_5(E)$	24	#4	13'-2"	
$h_6(E)$	8	#4	13'-2"	
$h_7(E)$	1	#4	11'-8"	
$h_8(E)$	1	#4	11'-8"	
$h_9(E)$	2	#5	2'-11"	
$n(E)$	24	#6	11'-4"	
$n_1(E)$	6	#6	5'-8"	
$p(E)$	9	#7	4'-0"	
$p_1(E)$	6	#7	11'-9"	
$p_2(E)$	6	#7	15'-0"	
$p_3(E)$	15	#7	3'-0"	
$s(E)$	4	#4	14'-11"	
$s_1(E)$	26	#4	9'-5"	
$u(E)$	4	#6	9'-3"	
$v(E)$	39	#5	3'-5"	
$v_1(E)$	39	#4	3'-2"	
$v_2(E)$	4	#4	4'-5"	
$v_3(E)$	4	#4	5'-8"	
$v_4(E)$	10	#5	6'-5"	
$v_5(E)$	8	#5	2'-11"	
$v_6(E)$	14	#6	8'-3"	
$v_7(E)$	3	#6	7'-9"	
$v_8(E)$	11	#6	8'-6"	
$v_9(E)$	28	#6	4'-4"	
Structure Excavation		Cu. Yd.	167.5	
Concrete Structures		Cu. Yd.	27.1	
Reinforcement Bars, Epoxy Coated		Pound	3100	
Driving Piles		Foot	195	
Furnishing Steel Piles HP12x53		Foot	195	
Concrete Encasement		Cu. Yd.	1.6	



PLAN-PILE CAP

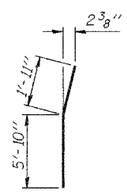


BAR $u(E)$

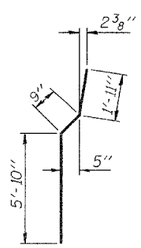


BAR $v_1(E)$

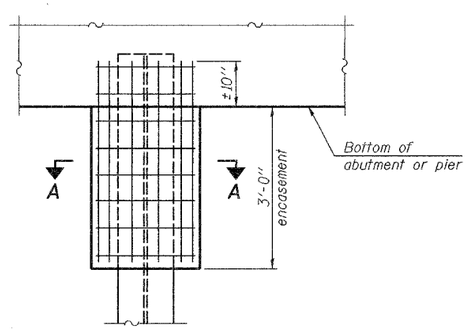
*Epoxy grout $v_4(E)$ and $p_3(E)$ bars in min. 9" drilled holes according to Sec. 584 of the Standard Specifications. Cost of hole drilling and epoxy grout included with Reinforcement Bars, Epoxy Coated.



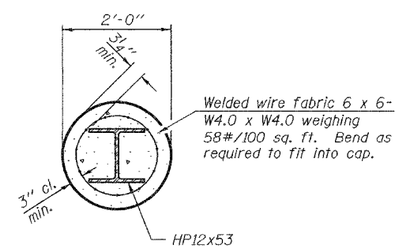
BAR $v_7(E)$



BAR $v_8(E)$



ELEVATION



Note:
Forms for encasement may be omitted when soil conditions permit.

SECTION A-A

PILE ENCASEMENT

DESIGNED	F.T.
CHECKED	S.M.R.
DRAWN	BECKY M. LEACH
CHECKED	F.T./S.M.R.

February 1, 2007
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

EAST ABUTMENT DETAILS
F.A.P. ROUTE 623 - SECTION X-1BR
LaSALLE COUNTY
STATION 1036+60.72
STRUCTURE NO. 050-0094

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