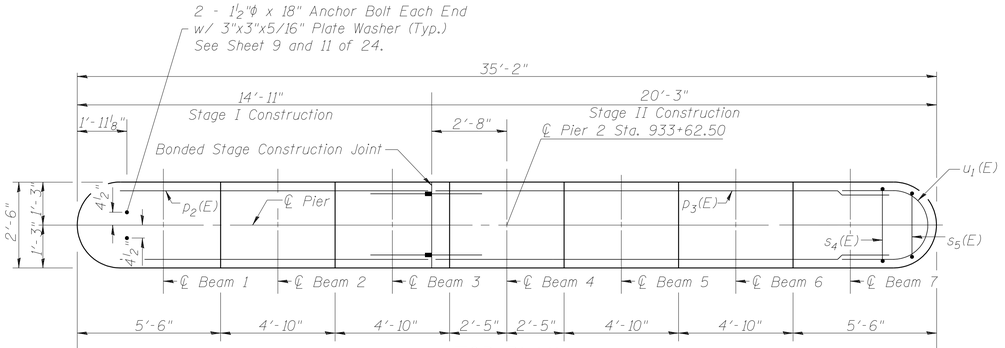
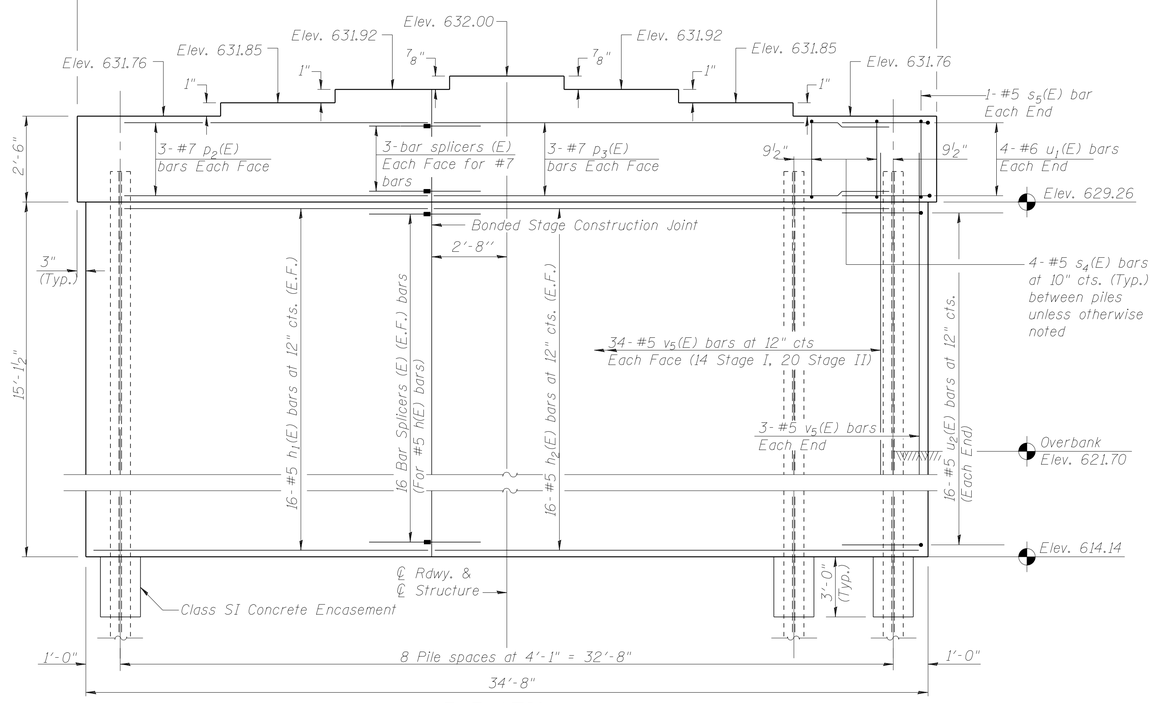
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
749	(122BR) BR	COLES	49	31
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 18
24 SHEETS

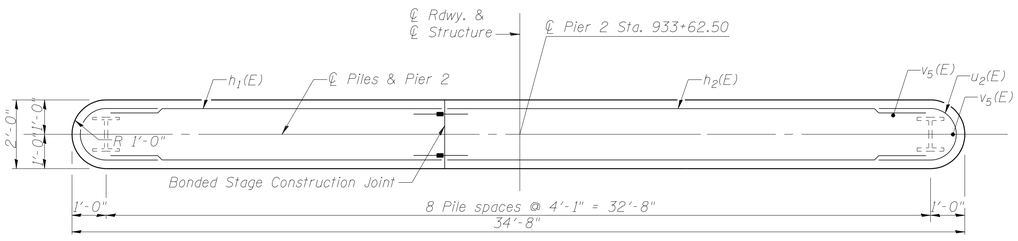
Contract #74146



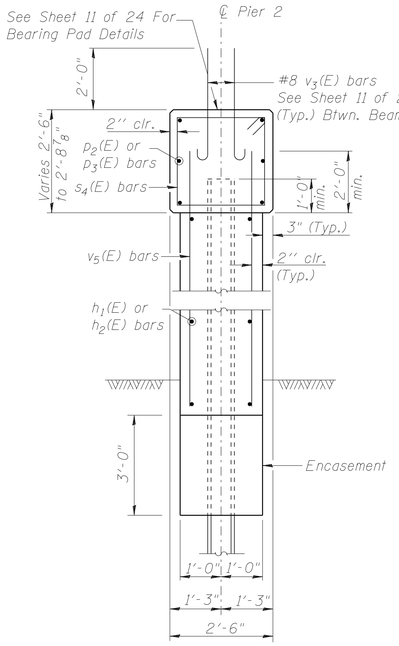
TOP PLAN



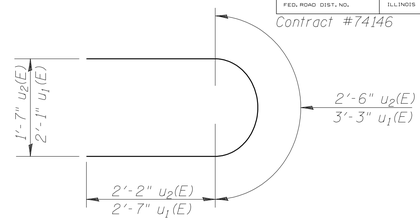
ELEVATION
(Looking East)



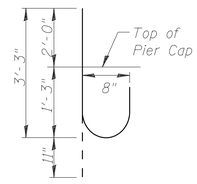
PILE LAYOUT



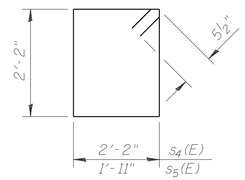
PIER SECTION



BARS $u_1(E)$ & $u_2(E)$



BAR $v_3(E)$



BAR $s_4(E)$ & $s_5(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_1(E)$	32	#5	13'-7"	
$h_2(E)$	32	#5	18'-11"	
$p_2(E)$	6	#7	13'-7"	
$p_3(E)$	6	#7	18'-11"	
$s_4(E)$	32	#5	9'-7"	
$s_5(E)$	2	#5	9'-1"	
$u_1(E)$	8	#6	8'-5"	
$u_2(E)$	32	#5	6'-10"	
$v_3(E)$	36	#8	4'-2"	
$v_5(E)$	74	#5	17'-0"	

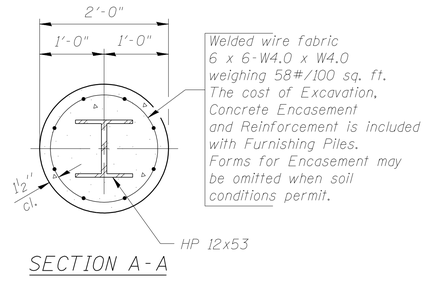
Item	Unit	Quantity
Furnishing Steel Piles HP 12x53	Foot	297
Driving Steel Piles	Foot	297
Concrete Structures	Cu. Yd.	46.7
Reinforcement Bars, Epoxy Coated	Pound	3870
Structure Excavation	Cu. Yd.	68.7

NOTES

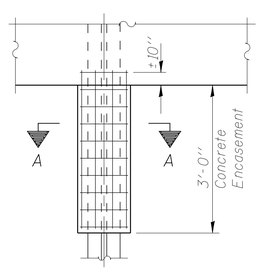
Pour steps monolithically with cap.
Reinforcement bars designated (E) shall be epoxy coated.
For anchor bolt installation see sheet 21 of 24.
Space reinforcement in cap to miss anchor bolts.
All edges shall have standard ¾" chamfers except as noted.

PILE DATA

Type: HP 12x53
Driven to: Refusal
Est. Length: 33'
No. Req'd: 9



SECTION A-A



PILE ENCASEMENT DETAIL

ILLINOIS DEPARTMENT OF TRANSPORTATION

PIER 2

IL ROUTE 133 OVER THE
LITTLE EMBARRAS RIVER
F.A.P. ROUTE 749 SECTION (122BR)BR
COLES COUNTY
STATION 933+50.00
STRUCTURE NO. 015-0074

DATE: MARCH 2006

DRAWN BY: MLO
CHECKED BY: PBB