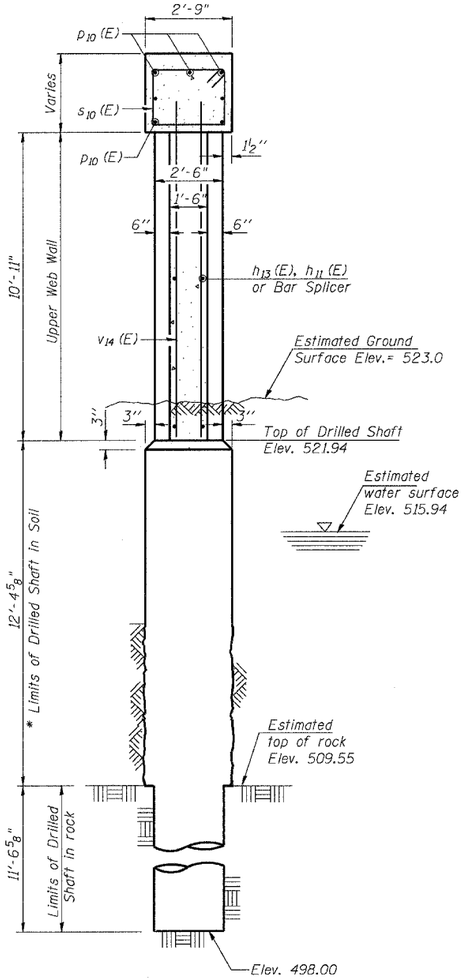
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. P. RTE. 774	107BY-1	EFFINGHAM	344	289
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

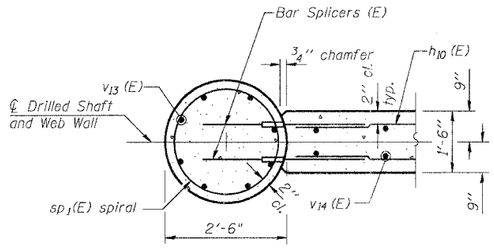
SHEET NO. 23

26 SHEETS

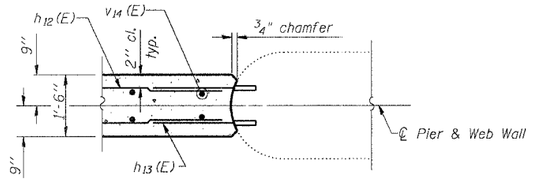
CONTRACT NO. 94827



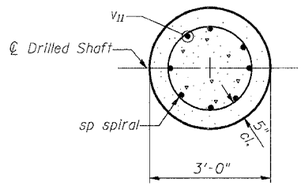
SECTION E-E



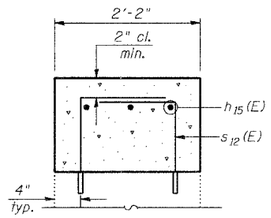
SECTION A-A



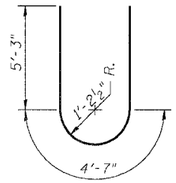
SECTION B-B



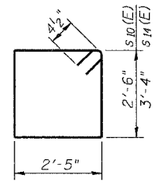
SECTION C-C



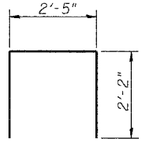
SECTION D-D



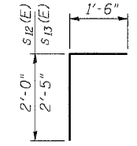
BAR u_{10} (E)



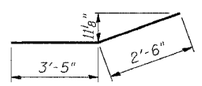
BAR s_{10} (E) & s_{14} (E)



BAR s_{11} (E)



BARS s_{12} (E) & s_{13} (E)



BAR p_{12} (E)

BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	h_{10} (E)	48	#5	4'-11"	—
	h_{11} (E)	24	#5	5'-3"	—
	h_{12} (E)	24	#5	4'-7"	—
	h_{13} (E)	48	#5	3'-7"	—
	h_{14} (E)	3	#5	6'-9"	—
	h_{15} (E)	6	#5	24'-7"	—
	h_{16} (E)	3	#5	29'-10"	—
	p_{10} (E)	7	#7	22'-6"	—
	p_{11} (E)	6	#7	21'-10"	—
	p_{12} (E)	4	#7	5'-11"	⌒
	s_{10} (E)	23	#4	10'-7"	⊐
	s_{11} (E)	16	#4	6'-9"	⊔
	s_{12} (E)	48	#4	3'-6"	⊔
	s_{13} (E)	16	#4	3'-11"	⊔
	s_{14} (E)	22	#4	12'-3"	⊐
**	sp	4	#4	23'-9"	∿∿∿
**	sp_1(E)	4	#4	11'-2"	∿∿∿
	u_{10} (E)	6	#6	15'-1"	⊃
	v_{11}	32	#9	23'-9"	—
	v_{12} (E)	32	#9	9'-2"	—
	v_{13} (E)	32	#9	13'-6"	—
	v_{14} (E)	48	#5	13'-4"	—
	Drilled Shaft in Soil 36"		Foot	50	
	Drilled Shaft in Rock 30"		Foot	47	
	Concrete Structures		Cu. Yd.	41.2	
	Reinforcement Bars, Epoxy Coated		Pound	5820	
	Reinforcement Bars		Pound	3440	
	Bar Splicers		Each	147	

NOTES

Reinforcement Bars designated (E) shall be epoxy coated.
Cast steps monolithically with cap.
Space cap reinforcement to miss anchor bolts.
Minimum lap for spirals = 1½ turns.
**Length is height of spiral.
Bars indicated thus 3x2-#7 etc. indicates 3 lines of bars with 2 lengths per line.

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

Work this sheet with sheet 22 of 26.

SHEET TITLE: PIER DETAILS

PROJECT: IL RTE. 32/33 OVER LITTLE WABASH RIVER OVERFLOW F.A.P. RTE. 774 SECTION 107BY-1 EFFINGHAM COUNTY STATION 1018+86.92 STRUCTURE NO. 025-0077

PROJECT NO. 02017
SCALE
DATE
DRAWN BY TFG
CHECKED BY KPS/CME/MCB
DRAWING NO. 23 OF 26 SHTS

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002708

Pier-details

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