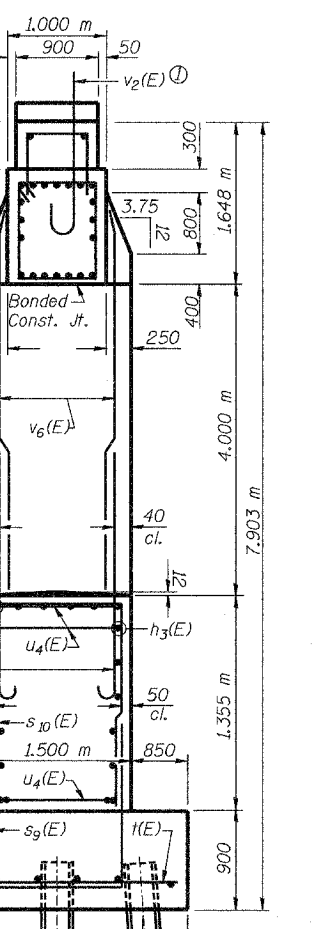
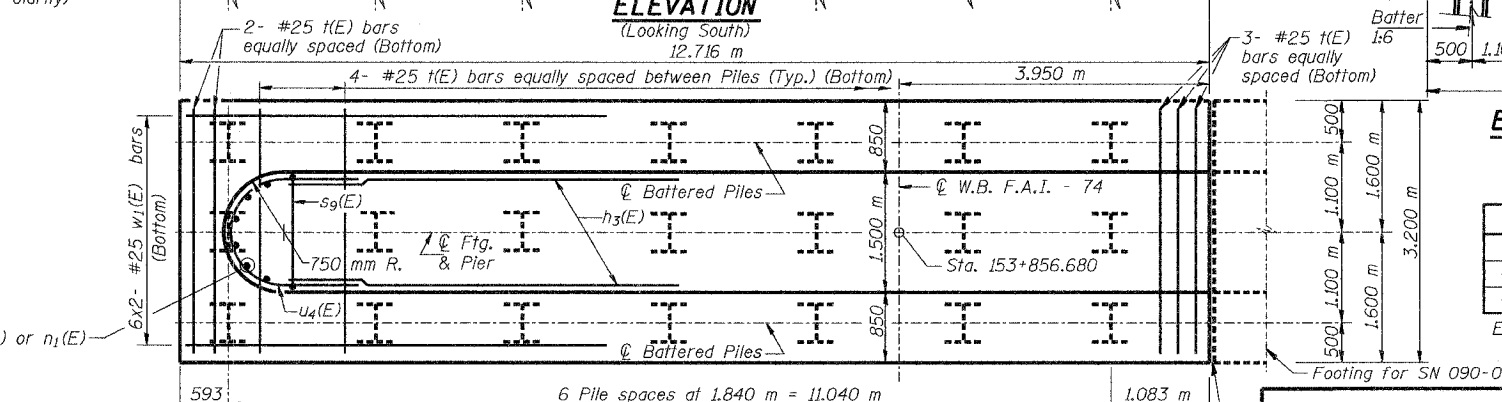
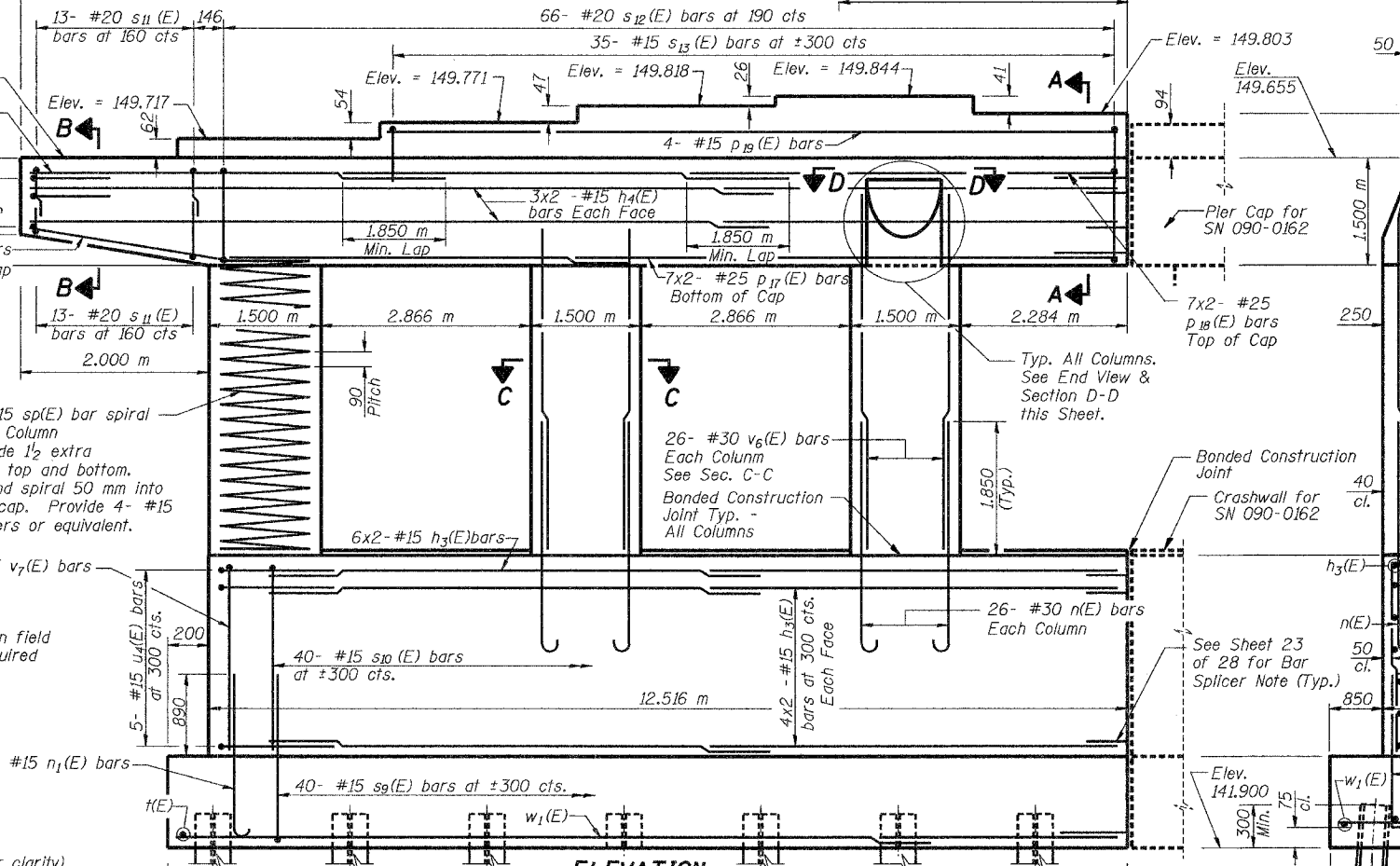
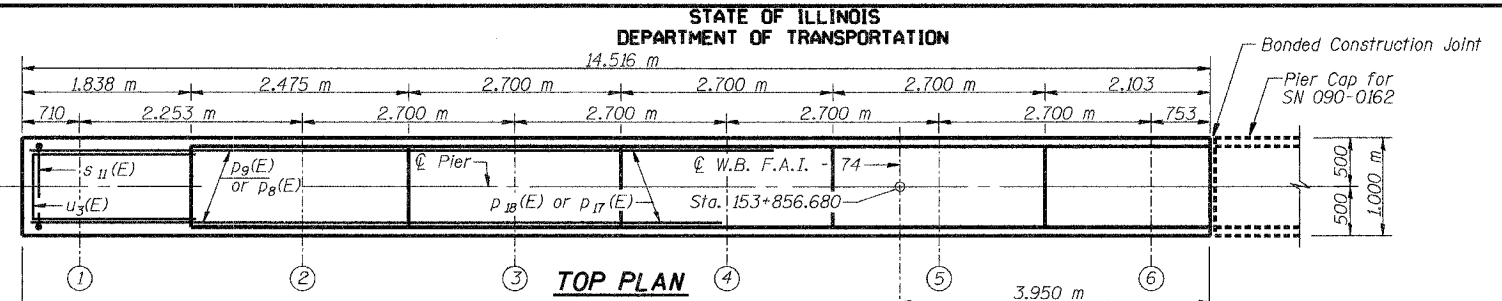
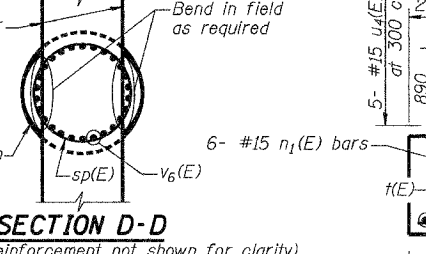
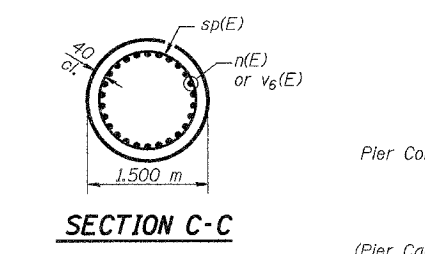
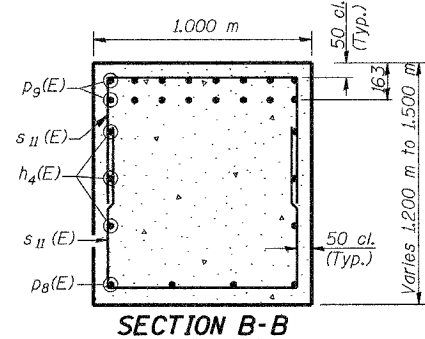
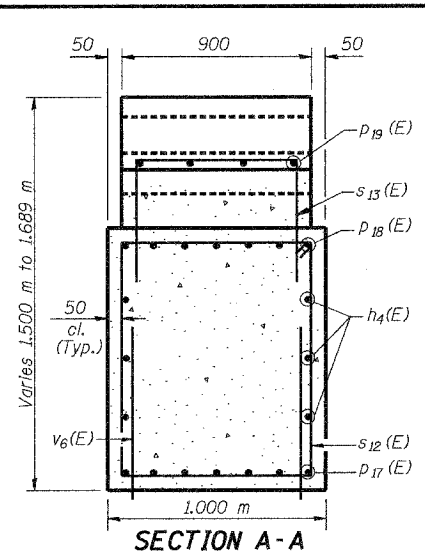


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	(90-14HB)BR	TAZEWELL	1366	536
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

PIER
BILL OF MATERIAL

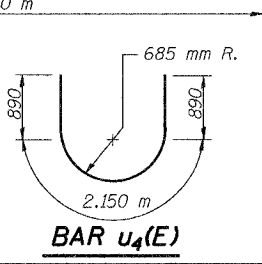
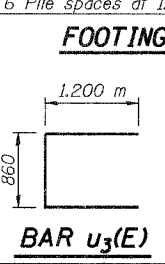
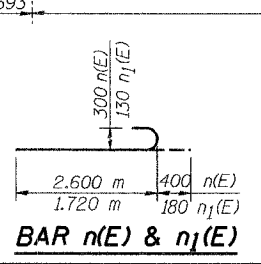
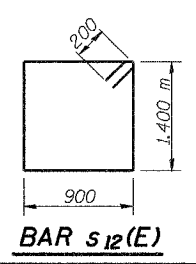
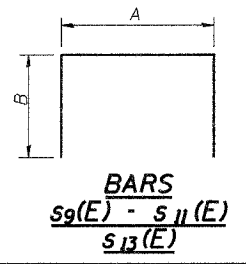
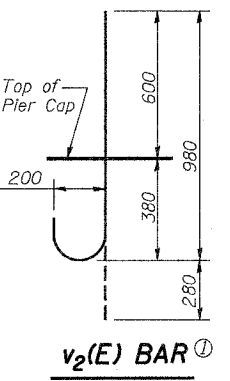
Bar	No.	Size	Length (m)	Shape
$h_3(E)$	28	#15	6.31	—
$h_4(E)$	12	#15	7.66	—
$n(E)$	78	#30	3.00	U
$n_1(E)$	6	#15	1.90	U
$p_8(E)$	4	#25	2.00	—
$p_9(E)$	16	#25	5.50	—
$p_{17}(E)$	14	#25	6.90	—
$p_{18}(E)$	14	#25	6.32	—
$p_{19}(E)$	4	#15	10.10	—
$s_9(E)$	40	#15	4.84	—
$s_{10}(E)$	40	#15	4.00	—
$s_{11}(E)$	26	#20	3.10	—
$s_{12}(E)$	66	#20	5.00	—
$s_{13}(E)$	35	#15	1.20	—
$sp(E)$	3	#15	4.05	WWW
$t(E)$	29	#25	3.10	—
$u_3(E)$	4	#20	3.26	—
$u_4(E)$	5	#15	3.93	—
$v_2(E)$	44	#25	1.26	—
$v_6(E)$	78	#30	5.20	—
$v_7(E)$	6	#15	1.30	—
$w_1(E)$	12	#25	6.98	—
Steel Piles		m	231.0	
HP 310x110				
Concrete Structures		m ³	106.8	
Reinforcement Bars, Epoxy Coated		kg	8700	
Braced Excavation		m ³	102.3	



PILE DATA
Type: HP 310x110
Capacity: Drive to Refusal
Est. Length: 11.0 m
No. Required: 21

A & B DIMENSIONS

Bar	A	B
$s_9(E)$	1.400 m	1.720 m
$s_{10}(E)$	1.400 m	1.300 m
$s_{11}(E)$	900	1.100 m
$s_{13}(E)$	800	200



Min. Bar Lap

#15	890
#20	780
#25	1.320 m

Except as Noted

Notes: Space reinforcement in cap to miss anchor bolts. Pour steps monolithically with cap. Bars indicated thus 7x2 - #25 etc. indicates 7 lines of bars with 2 lengths per line. All dimensions are in millimeters (mm) except as noted. Reinforcement bars designated (E) shall be epoxy coated. ① See Sheet 12 of 28 for $v_2(E)$ bar spacing.

Date	Revisions	Designed	TDN	INTERSTATE 74 AND RAMPS L-1 AND L-4 OVER E. WASHINGTON STREET F.A.I. RTE. 74 SECTION (90-14HB)BR TAZEWELL COUNTY STATION 153+868.540 STRUCTURE NO. 090-0163 (WB)	Sheet No.
		Drawn	BKN		19
		Checked	DCS		of 28
		Approved	KWB		
Prepared By: URS 3040 North University Avenue Decatur, IL 62526				URS Job No. 2100001243.01	