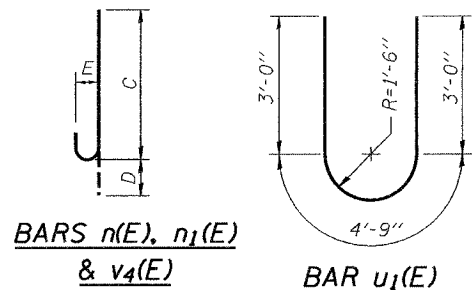


Notes: Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For bar splicers details, see sheet 22 of 24.
For anchor bolt details, see sheet 17 of 24.

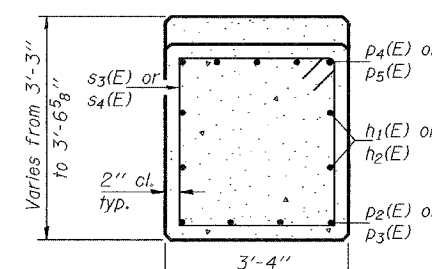
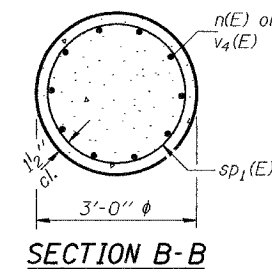
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
F.A.P. 698	IVBR	BUREAU	72	48
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		24 SHEETS

Contract No. 66361



Bar	C	D	E
$n(E)$	9'-10"	1'-5"	1'-1 1/4"
$n_1(E)$	4'-4"	10"	7"
$v_4(E)$	23'-10"	1'-5"	1'-1 1/4"



A & B DIMENSIONS

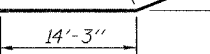
Bar	A	B
$s_4(E)$	3'-0"	2'-7"
$s_6(E)$	3'-0"	4'-4"
$s_7(E)$	3'-0"	3'-10"

BILL OF MATERIAL

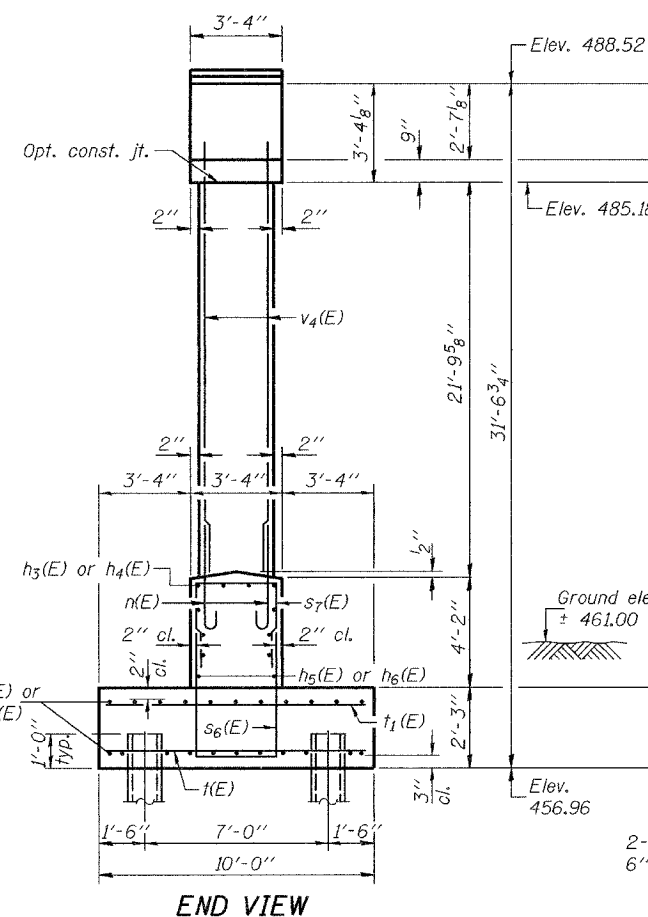
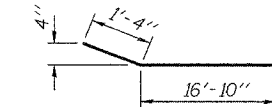
Bar	No.	Size	Length	Shape
$h_1(E)$	4	#5	15'-8"	
$h_2(E)$	4	#5	18'-3"	
$h_3(E)$	4	#7	12'-11"	
$h_4(E)$	4	#7	15'-6"	
$h_5(E)$	8	#5	12'-11"	
$h_6(E)$	8	#5	15'-6"	
$n(E)$	40	#10	11'-3"	
$n_1(E)$	6	#7	5'-2"	
$p_2(E)$	4	#8	15'-7"	
$p_3(E)$	4	#8	18'-2"	
$p_4(E)$	5	#8	15'-8"	
$p_5(E)$	5	#8	18'-3"	
$s_3(E)$	32	#5	12'-9"	
$s_4(E)$	12	#5	8'-2"	
$s_6(E)$	37	#7	11'-8"	
$s_7(E)$	37	#5	10'-8"	
$sp_1(E)$	4	#5	22'-0"	
$t(E)$	60	#8	9'-8"	
$t_1(E)$	37	#5	9'-8"	
$u_1(E)$	18	#5	10'-9"	
$v_4(E)$	40	#10	25'-3"	
$v_5(E)$	6	#5	3'-10"	
$w(E)$	22	#5	16'-2"	
$w_1(E)$	22	#5	18'-9"	
Concrete Structures		Cu. Yd.	84.0	
Reinforcement Bars, Epoxy Coated		Pound	12630	
Structure Excavation		Cu. Yd.	83	
Furnishing Steel Piles HP12x63		Foot	275	
Driving Piles		Foot	275	
Pile Shoes		Each	12	
Test Pile Steel HP12x63		Each	1	

Min. lap for $sp_1(E)$ = 1 1/2 turns
*Length is height of spiral.
**Weight includes spacers for spirals.

BAR $p_2(E)$



BAR $p_3(E)$

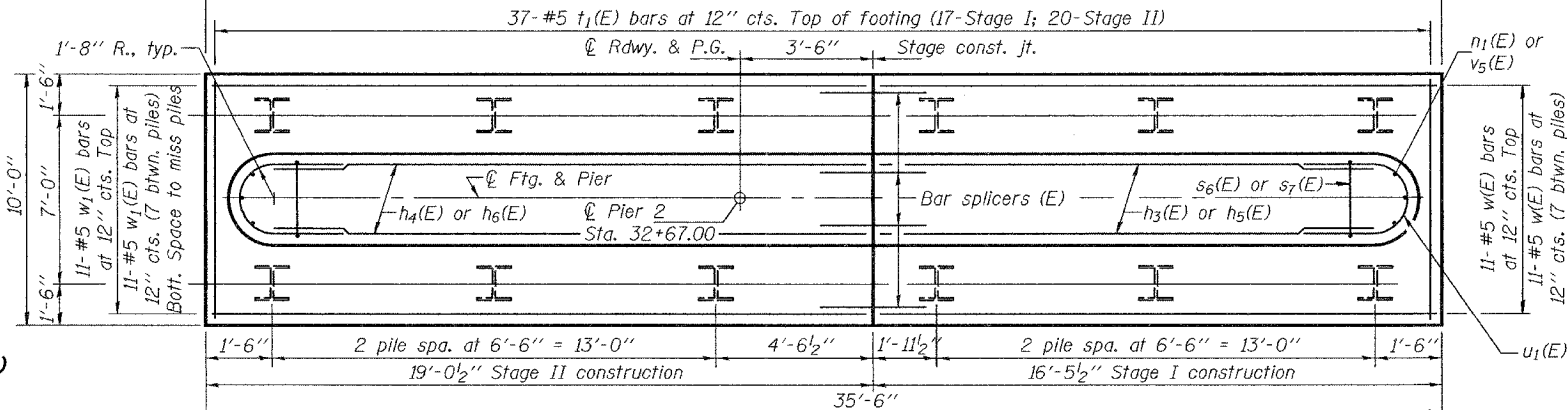
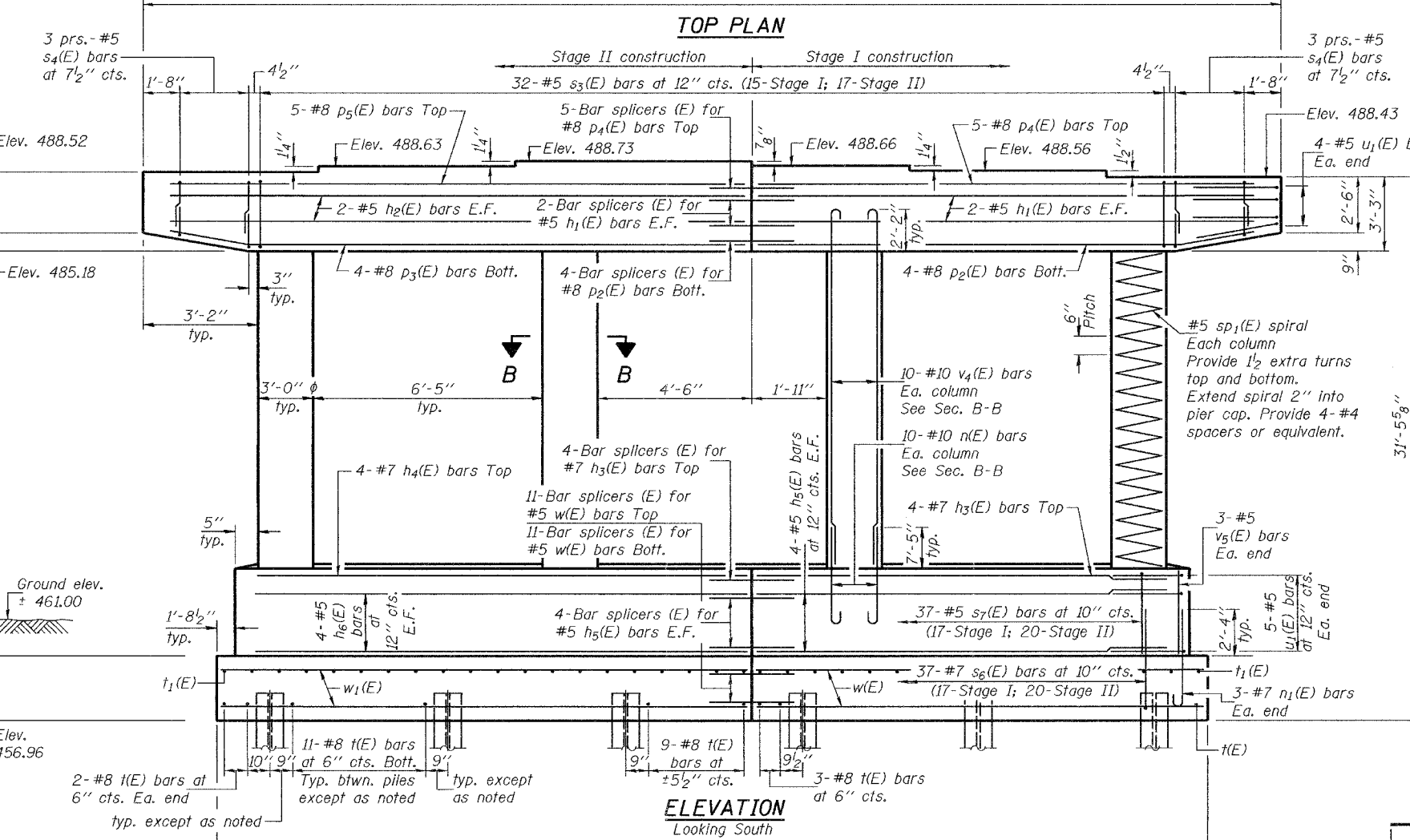
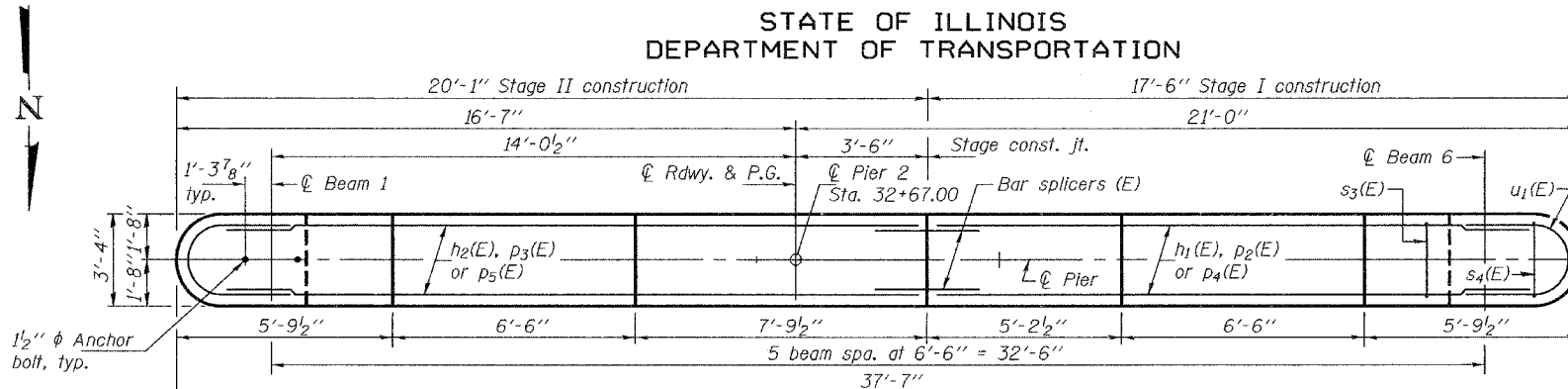


PILE DATA

Type: Steel HP12x63 with pile shoes
Nominal Required Bearing: 442.6 Kips
Factored Resistance Available: 221.3 Kips
Est. Pile Length: 25'
No. Production Piles: 11
No. Test Piles: 1

DESIGNED	RLT
CHECKED	PEC
DRAWN	h.t. duong
CHECKED	RLT/PEC

Jan 9, 2007
EXAMINED *Thomas J. Domagala*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES



PIER 2
F.A.P. RTE. 698 - SECTION IVBR
BUREAU COUNTY
STATION 32+32.00
STRUCTURE NO. 006-0164