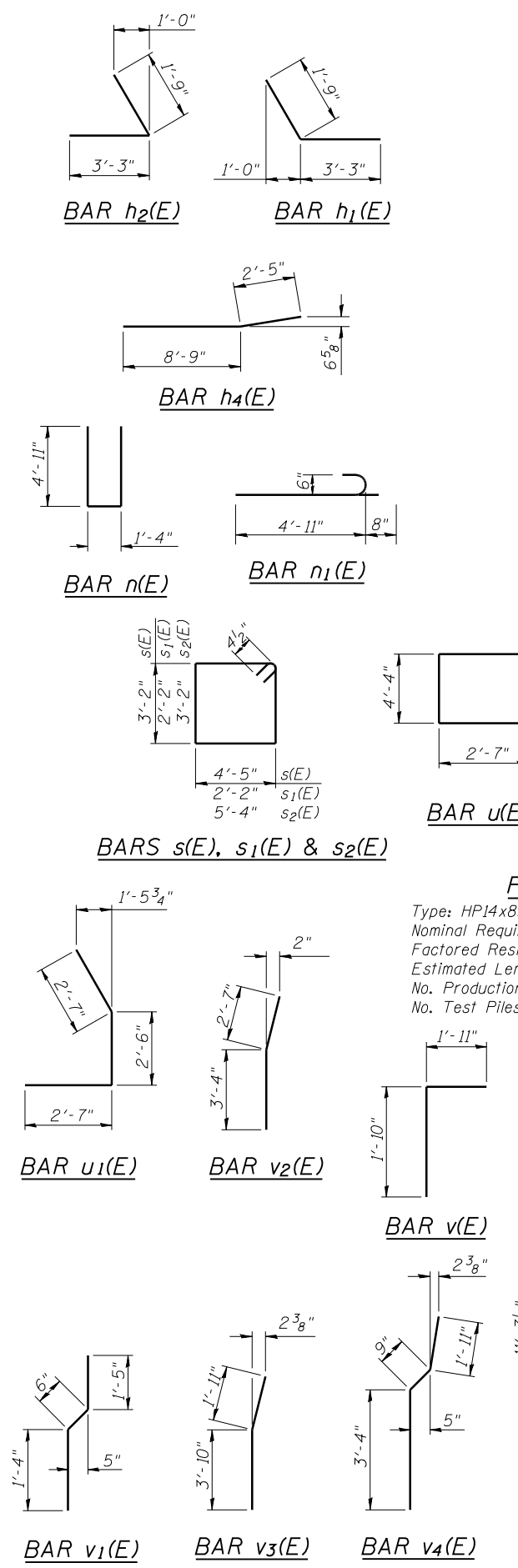
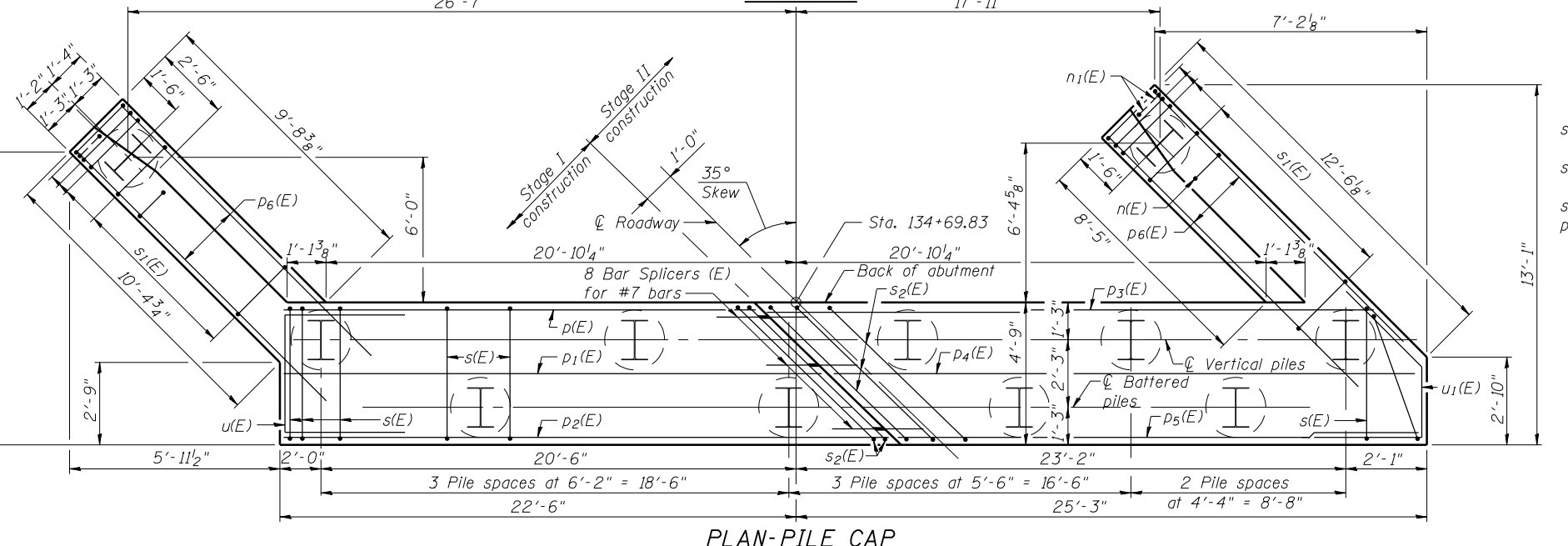
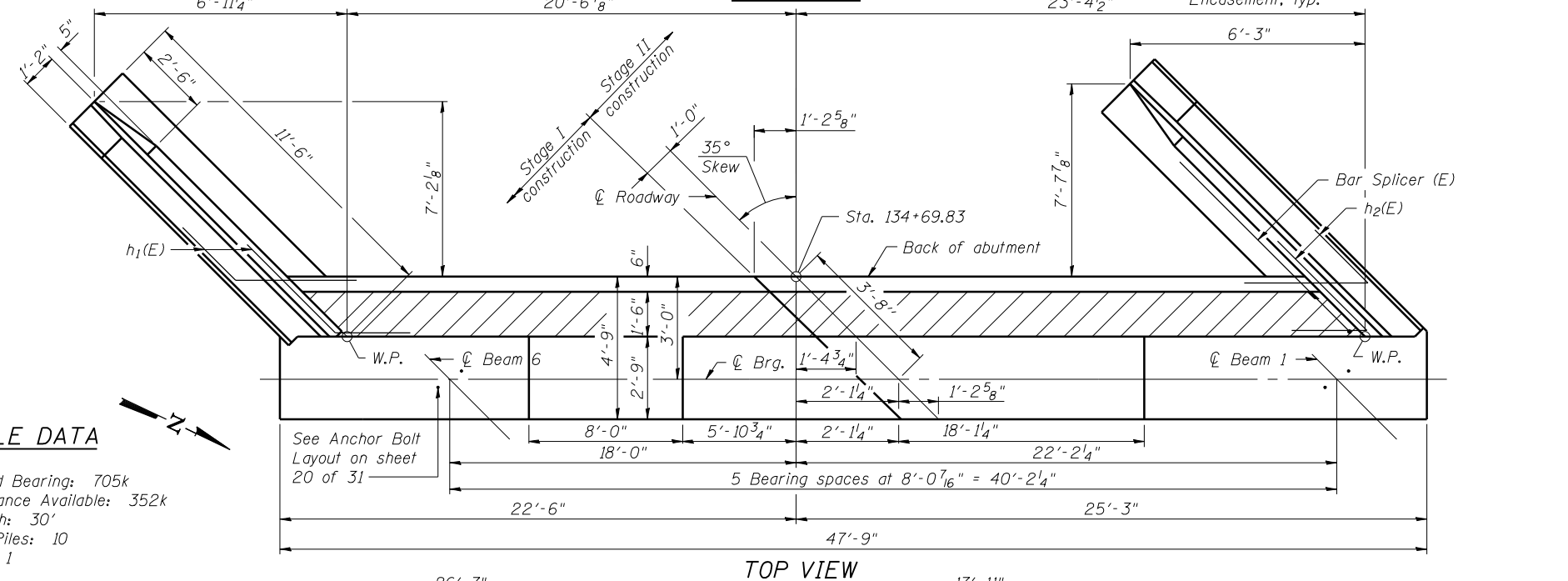
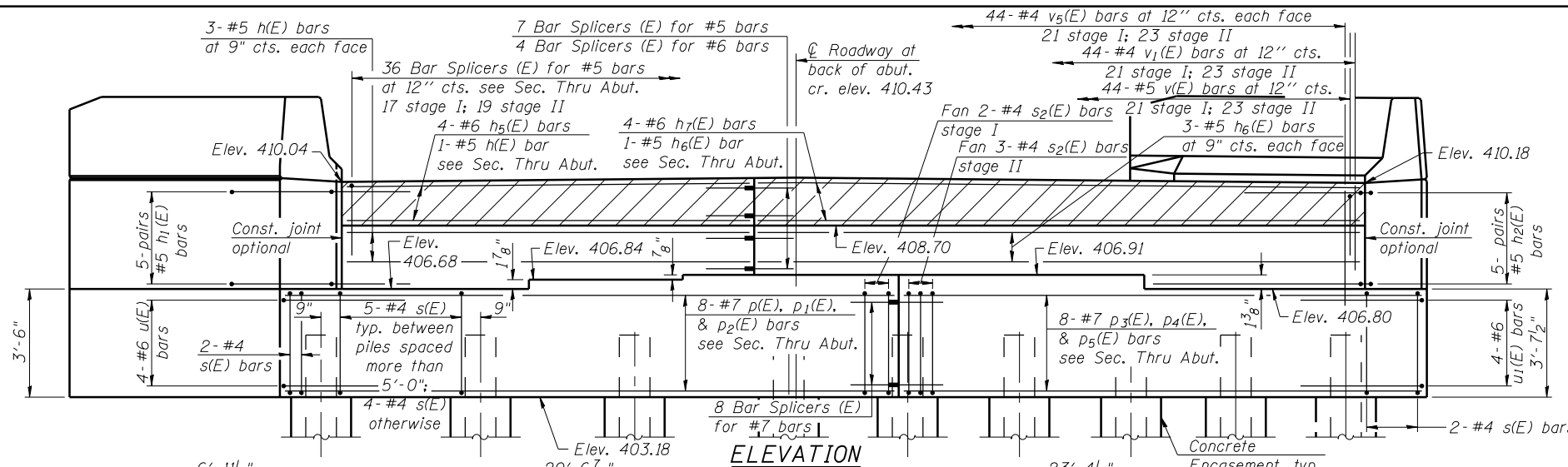


**SOUTH ABUTMENT
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	7	#5	20'-4"	
h1(E)	10	#5	5'-0"	
h2(E)	10	#5	5'-0"	
h3(E)	11	#4	11'-11"	
h4(E)	12	#4	11'-2"	
h5(E)	4	#6	20'-4"	
h6(E)	7	#5	22'-9"	
h7(E)	4	#6	22'-9"	
h8(E)	9	#4	10'-4"	
n(E)	18	#6	11'-2"	
n1(E)	12	#6	5'-7"	
p(E)	3	#7	21'-0"	
p1(E)	2	#7	22'-7"	
p2(E)	3	#7	24'-1"	
p3(E)	3	#7	24'-9"	
p4(E)	2	#7	24'-5"	
p5(E)	3	#7	22'-10"	
p6(E)	12	#7	12'-2"	
s(E)	37	#4	15'-11"	
s1(E)	24	#4	9'-5"	
s2(E)	5	#4	17'-9"	
u(E)	4	#6	9'-6"	
u1(E)	4	#6	7'-8"	
v(E)	44	#5	3'-9"	
v1(E)	44	#4	3'-3"	
v2(E)	24	#6	5'-11"	
v3(E)	6	#6	5'-9"	
v4(E)	18	#6	6'-0"	
v5(E)	88	#4	4'-6"	
Structure Excavation		Cu. Yd.	210	
Concrete Structures		Cu. Yd.	46.6	
Reinforcement Bars, Epoxy Coated		Pound	4050	
Furnishing Steel Piles, HP14x89		Foot	300	
Driving Piles		Foot	300	
Test Pile, HP14x89		Each	1	
Concrete Encasement		Cu. Yd.	6.0	
Concrete Sealer		Sq. Ft.	497	
Granular Backfill for Structures		Cu. Yd.	92	
Geocomposite Wall Drain		Sq. Yd.	27	
Pipe Underdrains for Structures 4"		Foot	100	

For details of Bar Splicers, see sheet 25 of 31.
 For details of piles and Concrete Encasement, see sheet 24 of 31.
 For Sec. Thru Abut. and wing wall details, see sheet 21 of 31.
 Concrete Sealer shall be applied to all exposed surfaces of the backwall, bearing seats, and pile cap.
 For location of anchor bolts, see sheet 20 of 31.



PILE DATA

Type: HP14x89
 Nominal Required Bearing: 705k
 Factored Resistance Available: 352k
 Estimated Length: 30'
 No. Production Piles: 10
 No. Test Piles: 1

PRINT DRIVER = L:\05-08-2014
 SCALE = 1/8" = 1'-0"
 FILE NAME = 093314-0219-10-00.dwg



USER NAME = has
 ESCA PROJECT NO. 933.14
 PLOT SCALE = 0/2" = 1' / IN.
 PLOT DATE = 6/10/2014 8:52:38 AM

DESIGNED - ELH 12/12
 CHECKED - RDP 04/13
 DRAWN - DWH 12/12
 CHECKED - ELH 01/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT
STRUCTURE NO. 093-0025**

SHEET NO. 19 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(12,B2)B-1	WABASH	68	39
CONTRACT NO. 74219			ILLINOIS FED. AID PROJECT	