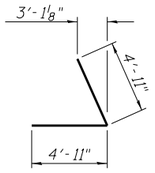
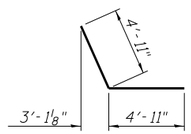
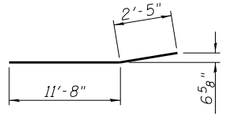


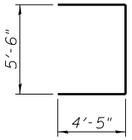
BAR h2(E)



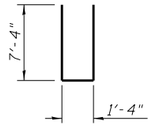
BAR h3(E)



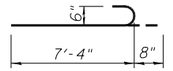
BAR h4(E)



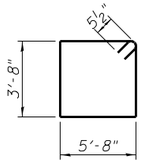
BAR u(E)



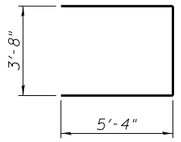
BAR n(E)



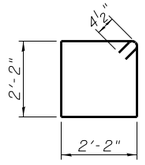
BAR n1(E)



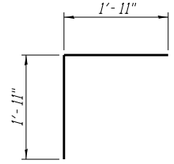
BAR s(E)



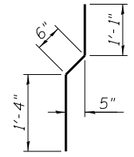
BAR s1(E)



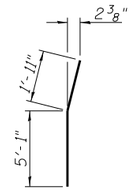
BAR s2(E)



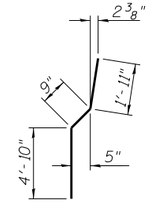
BAR v(E)



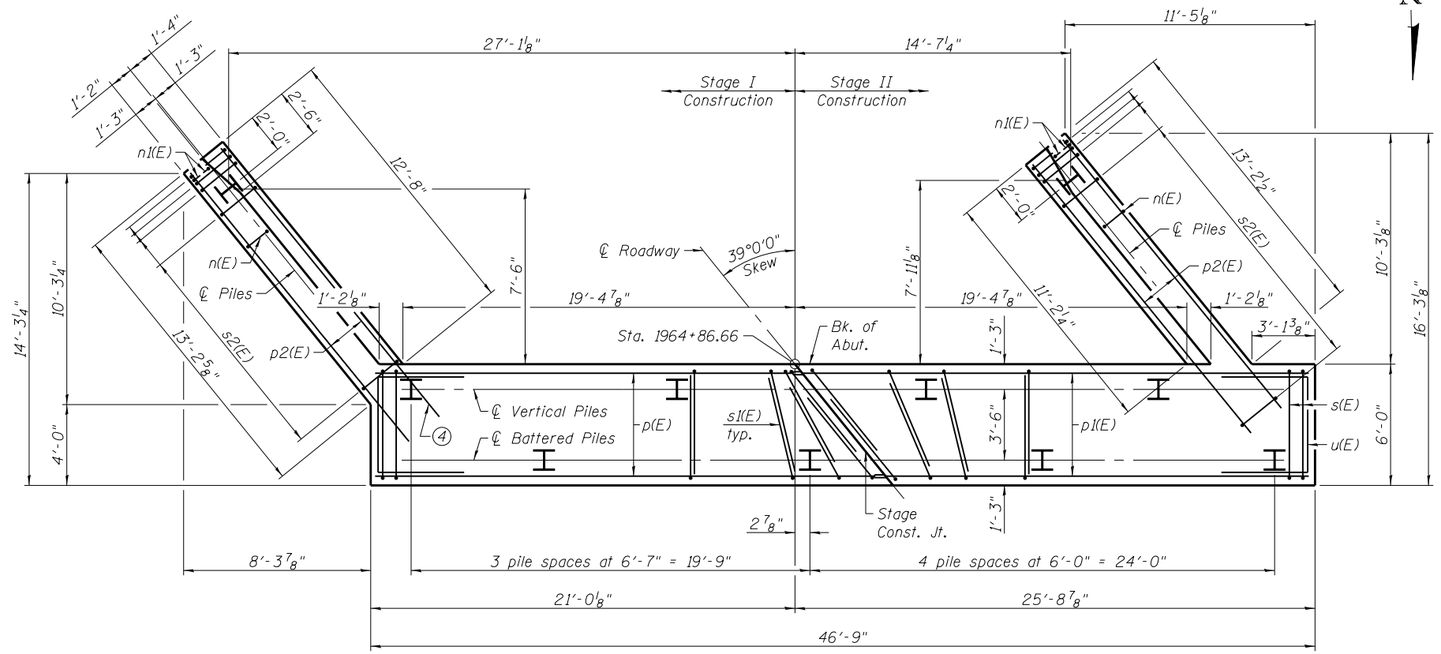
BAR v1(E)



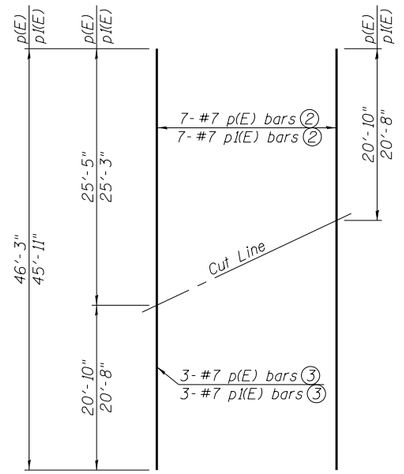
BAR v3(E)



BAR v4(E)



PLAN-PILE CAP



FIELD CUTTING DIAGRAM

Order p(E) and p1(E) bars full length. ② ③

SOUTH ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	16	#5	20'-3"	
h1(E)	10	#6	22'-3"	
h2(E)	12	#5	9'-10"	
h3(E)	12	#5	9'-10"	
h4(E)	16	#4	14'-1"	
h5(E)	12	#4	13'-3"	
h6(E)	12	#4	15'-0"	
n(E)	23	#6	16'-0"	
n1(E)	12	#6	8'-0"	
p(E)	10	#7	46'-3"	
p1(E)	10	#7	45'-11"	
p2(E)	12	#7	15'-10"	
s(E)	38	#5	19'-7"	
s1(E)	56	#5	14'-4"	
s2(E)	38	#4	9'-5"	
u(E)	8	#6	14'-4"	
v(E)	42	#5	3'-10"	
v1(E)	42	#4	2'-11"	
v2(E)	30	#6	7'-0"	
v3(E)	6	#6	7'-0"	
v4(E)	24	#6	7'-6"	
v5(E)	42	#5	5'-4"	
v6(E)	42	#5	6'-11"	
Structure Excavation		Cu. Yd.	222	
Concrete Structures		Cu. Yd.	69.4	
Concrete Encasement		Cu. Yd.	3.5	
Reinforcement Bars, Epoxy Coated		Pound	7,720	
Furnishing Steel Piles HP12x53		Foot	324	
Driving Piles		Foot	324	
Test Pile Steel HP12x53		Each	1	
Concrete Sealer		Sq. Ft.	469	

PILE DATA

Type: Steel HP12x53
Nominal Required Bearing: 419 kips
Factored Resistance Available: 230 kips
Est. Length: 36 ft
No. Production Piles: 9
No. Test Piles: 1

Notes:
① For details of piles and Concrete Encasement, see sheet 50 of 62.
② Cut as shown and place bars in top and bottom faces of abutment cap.
③ Cut as shown and place bars in side faces of abutment cap.
④ Bend p2(E) bars as required to miss pile.

OATES ASSOCIATES Engineering + Architecture
ILLINOIS: Eastport Business Center 1, 101 Lanter Court, Suite 1, Collinsville, IL 62234, tel 618.345.2200, fax 618.345.7393
MISSOURI: Ladue Gas Building, 720 Olive, Suite 1600, St. Louis, MO 63101, tel 314.588.8383, fax 314.588.9606
www.oatesassociates.com

USER NAME =	DESIGNED - JAD	REVISED
	CHECKED - SJN	REVISED
PLOT SCALE =	DRAWN - MAG	REVISED
PLOT DATE =	CHECKED - JAD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT DETAILS
STRUCTURE NO. 048-0100
SHEET NO. 38 OF 62 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
626	(44-B-1)BR	KNOX	122	68
		CONTRACT NO. 68759		
		ILLINOIS	FED. AID PROJECT	