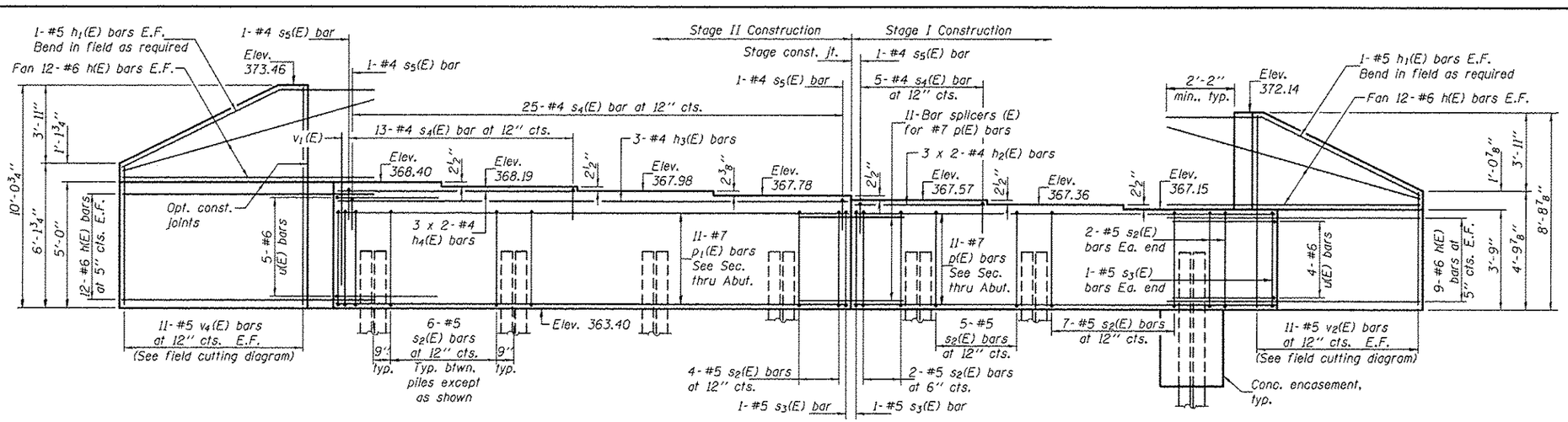
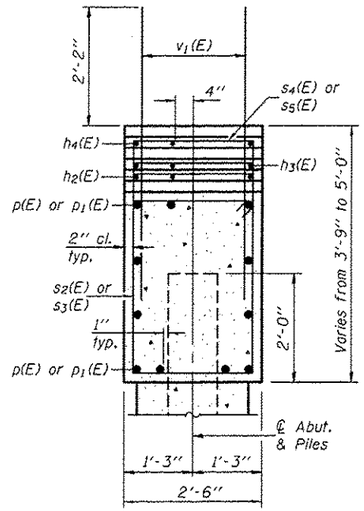


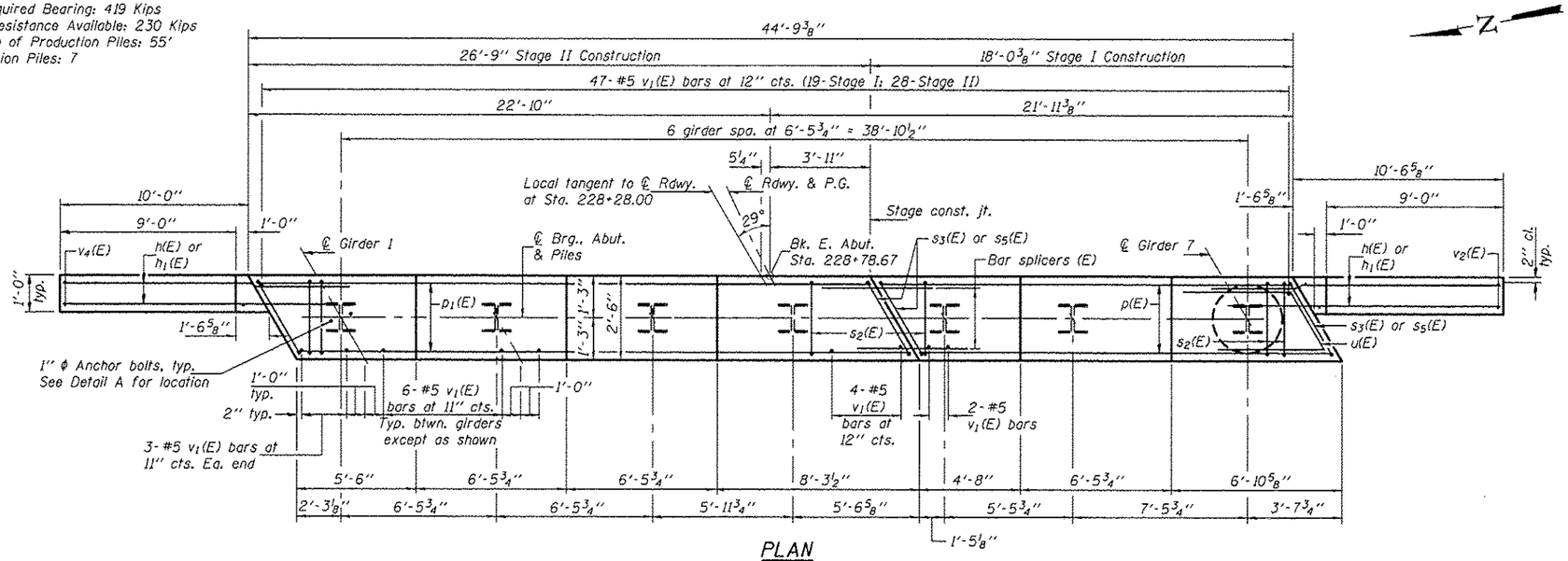
ELEVATION
(Looking east)



SEC. THRU ABUT.

PILE DATA

Type: Steel HP12x53 with pile shoes
Nominal Required Bearing: 419 Kips
Factored Resistance Available: 230 Kips
Est. Length of Production Piles: 55'
No. Production Piles: 7



PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	90	#6	12'-6"	
h1(E)	4	#5	13'-3"	
h2(E)	6	#4	3'-10"	
h3(E)	3	#4	26'-5"	
h4(E)	6	#4	7'-6"	
p(E)	11	#7	17'-8"	
p1(E)	11	#7	26'-5"	
s2(E)	40	#5	12'-2"	
s3(E)	4	#5	12'-10"	
s4(E)	43	#4	5'-2"	
s5(E)	4	#4	5'-6"	
u(E)	9	#6	10'-1"	
v1(E)	89	#5	4'-4"	
v2(E)	11	#5	12'-9"	
v4(E)	11	#5	15'-6"	

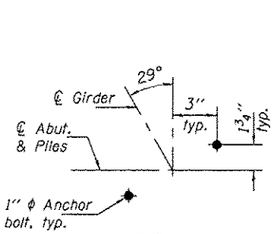
Structure Excavation	Cu. Yd.	24.6
Concrete Structures	Cu. Yd.	24.1
Reinforcement Bars, Epoxy Coated	Pound	4420
Furnishing Steel Piles HP12x53	Foot	385
Driving Piles	Foot	385
Pile Shoes	Each	7
Concrete Encasement	Cu. Yd.	2.4
Anchor Bolts 1"	Each	14

For details of bar splicers, see sheet 18 of 21.
For details of piles and concrete encasement, see sheet 19 of 21.

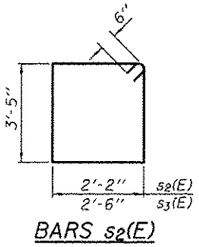
Notes:
Pour steps monolithically with cap.

MIN. BAR LAP

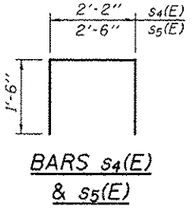
#4 bar = 1'-10"



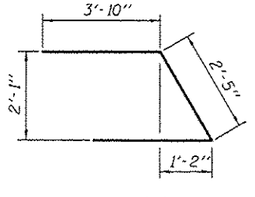
DETAIL A



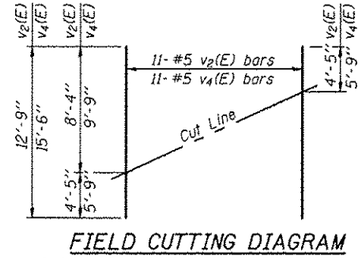
BARS s2(E) & s3(E)



BARS s4(E) & s5(E)



BAR u(E)



FIELD CUTTING DIAGRAM

Order v2(E) & v4(E) full length. Cut as shown and use remainder of bars in opposite face.

⚠1 SHEET ADDED 1-4-13

DESIGNED - Michael D. Rolape	EXAMINED		DATE - NOVEMBER 21, 2012	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EAST ABUTMENT STRUCTURE NO. 035-0016	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - Stephen M. Ryan	PASSED	ACTING ENGINEER OF BRIDGE UNION	REVISED		SHEET NO. 17 OF 21 SHEETS	885	118-1	HARDIN	50	37
DRAWN - h.t. duong			REVISED						CONTRACT NO. 78152	
CHECKED - GRA/SMR		ACTING ENGINEER OF BRIDGES AND STRUCTURES						ILLINOIS FED. AID PROJECT		