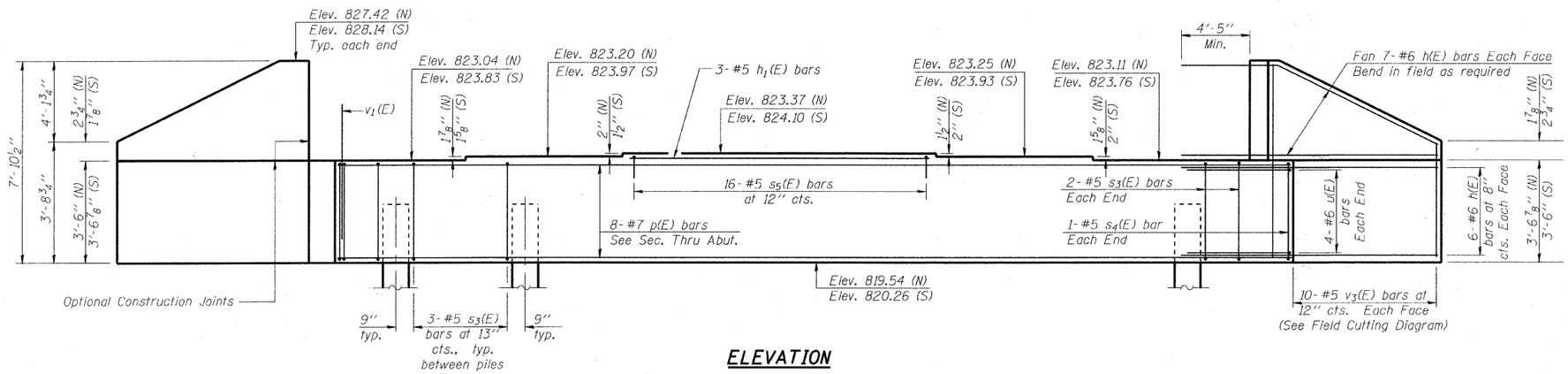
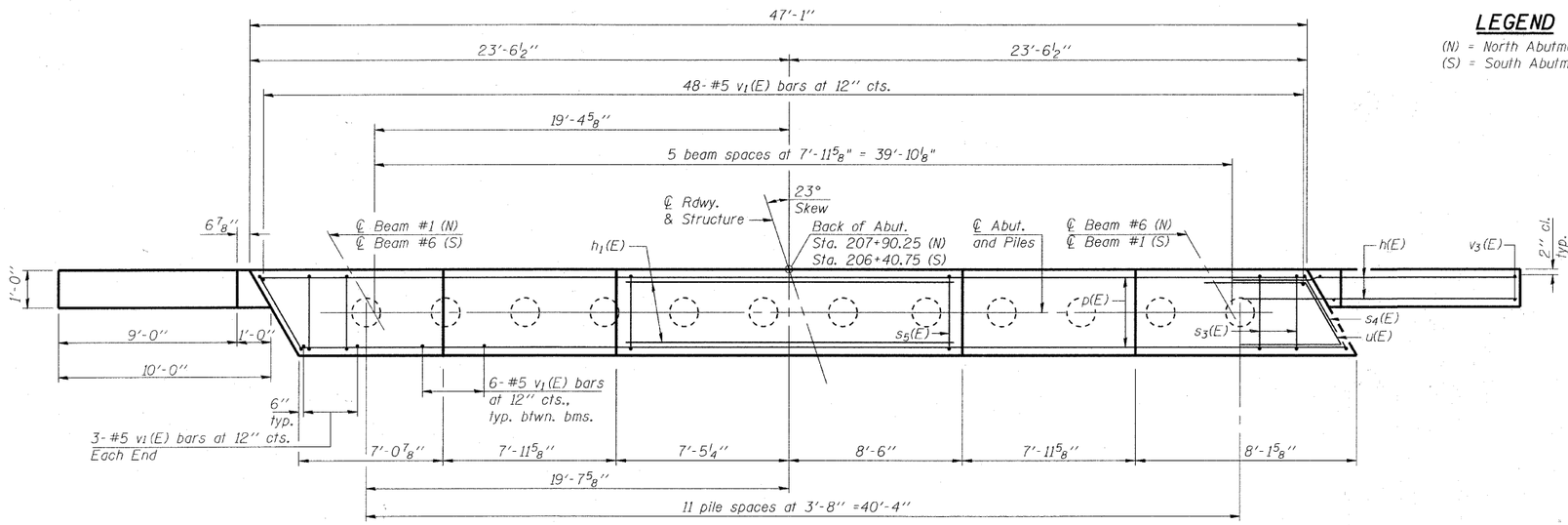
Notes:
Pour steps monolithically with cap.

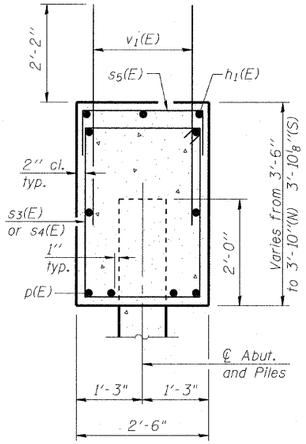
MCHENRY COUNTY
DIVISION OF TRANSPORTATION



ELEVATION



PLAN



SEC. THRU ABUT.

Horizontal Dimensions at Right Angles unless noted otherwise

LEGEND

(N) = North Abutment
(S) = South Abutment

BILL OF MATERIAL
TWO ABUTMENTS

Bar	No.	Size	Length	Shape
h(E)	104	#6	15'-3"	
h_1(E)	6	#5	15'-8"	
p(E)	16	#7	46'-9"	
s_3(E)	74	#5	11'-7"	
s_4(E)	4	#5	11'-11"	
s_5(E)	32	#5	4'-2"	
u(E)	16	#6	11'-2"	
v_1(E)	168	#5	4'-4"	
v_3(E)	40	#5	11'-0"	
Structure Excavation			Cu. Yd.	350
Concrete Structures			Cu. Yd.	40.6
Reinforcement Bars, Epoxy Coated			Pound	6580
Furnishing Metal Shell Piles 14" x 0.312"			Foot	836
Driving Piles			Foot	836
Test Pile Metal Shells			Each	2
Pile Shoes			Each	24

For details of Bar Splicers, see sheet 21 of 23.
For details of piles see sheet 20 of 23.

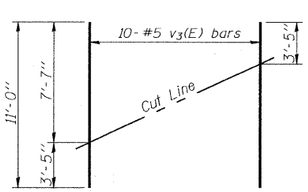
PILE DATA

NORTH ABUTMENT

Type: 14" ϕ Metal Shells w/ 0.312" walls with Pile Shoes
Nominal Required Bearing: 260 Kips
Factored Resistance Available: 130 Kips
Est. Length: 40'
No. Production Piles: 11
No. Test Piles: 1

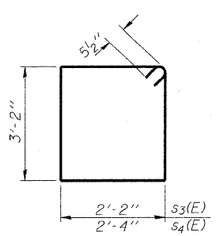
SOUTH ABUTMENT

Type: 14" ϕ Metal Shells w/ 0.312" walls with Pile Shoes
Nominal Required Bearing: 260 Kips
Factored Resistance Available: 130 Kips
Est. Length: 36'
No. Production Piles: 11
No. Test Piles: 1

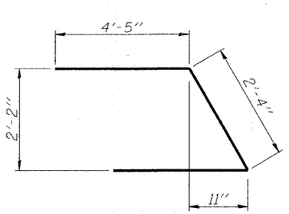


FIELD CUTTING DIAGRAM

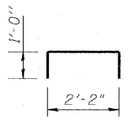
Order v_3(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s_3(E) & s_4(E)



BAR u(E)



BAR s_5(E)

ABUTMENTS
STRUCTURE NO. 056-3178

SHEET NO. 18	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23 SHEETS	0034	06-00320-02-BR	MCHENRY	65	43
			CONTRACT NO. 63536		
	JOB NO. C-91-140-11	ILLINOIS	FED. AID PROJECT	BRS-0034(107)	

DESIGNED	BLB
CHECKED	AS
DRAWN	BCD
CHECKED	BLB

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