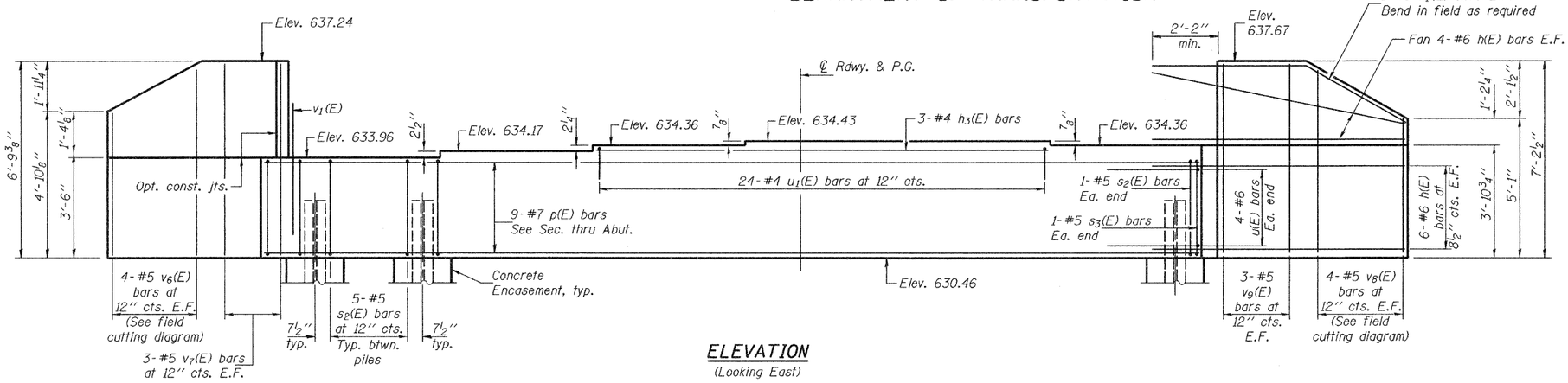
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

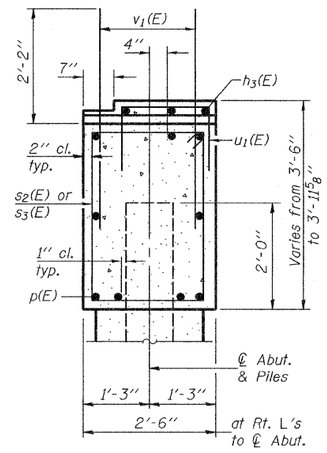
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	127
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 23
35 SHEETS

Contract No. 66731



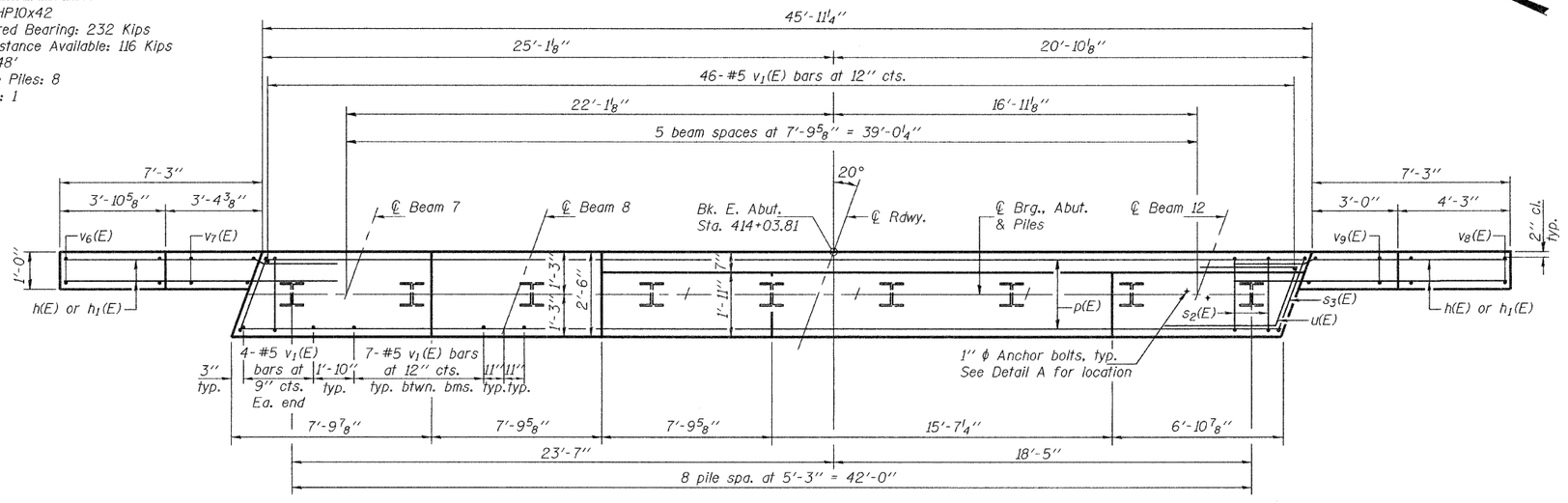
ELEVATION
(Looking East)



SEC. THRU ABUT.
(Looking South)

PILE DATA

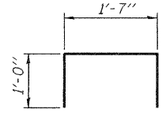
Type: Steel HP10x42
Nominal Required Bearing: 232 Kips
Factored Resistance Available: 116 Kips
Est. Length: 48'
No. Production Piles: 8
No. Test Piles: 1



PLAN

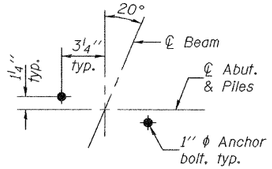
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#6	9'-5"	
h1(E)	4	#5	10'-4"	
h3(E)	3	#4	23'-1"	
p(E)	9	#7	45'-7"	
s2(E)	42	#5	11'-7"	
s3(E)	2	#5	11'-11"	
u(E)	8	#6	8'-2"	
u1(E)	24	#4	3'-7"	
v1(E)	89	#5	4'-4"	
v6(E)	4	#5	11'-1"	
v7(E)	6	#5	6'-5"	
v8(E)	4	#5	11'-8"	
v9(E)	6	#5	6'-10"	
Structure Excavation		Cu. Yd.	84	
Concrete Structures		Cu. Yd.	19.7	
Reinforcement Bars, Epoxy Coated		Pound	2760	
Furnishing Steel Piles HP10x42		Foot	384	
Driving Piles		Foot	384	
Test Pile Steel HP10x42		Each	1	
Concrete Encasement		Cu. Yd.	3.1	
Anchor Bolts, 1" ϕ		Each	12	

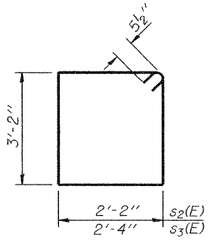


BAR u1(E)

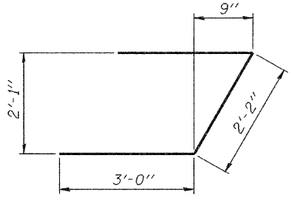
Notes: Pour steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.
For details of piles and concrete encasement, see sheet 29 of 35.



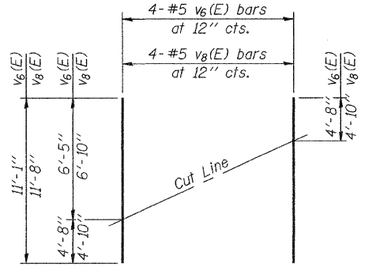
DETAIL A



BARS s2(E) & s3(E)



BAR u(E)



FIELD CUTTING DIAGRAM
Order v6(E) & v8(E) full length. Cut as shown and use remainder of bars in opposite face.

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.t. duong
CHECKED	NRB/GRA

Sep. 30, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

EAST ABUTMENT (W.B.)
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

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