Notes: Pour steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.
For Anchor Bolt installation details see sheet 30 of 51.
For Bar Splicer details see sheet 48 of 51.
For bar bending details and Field Cutting Diagram see sheet 33 of 51.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

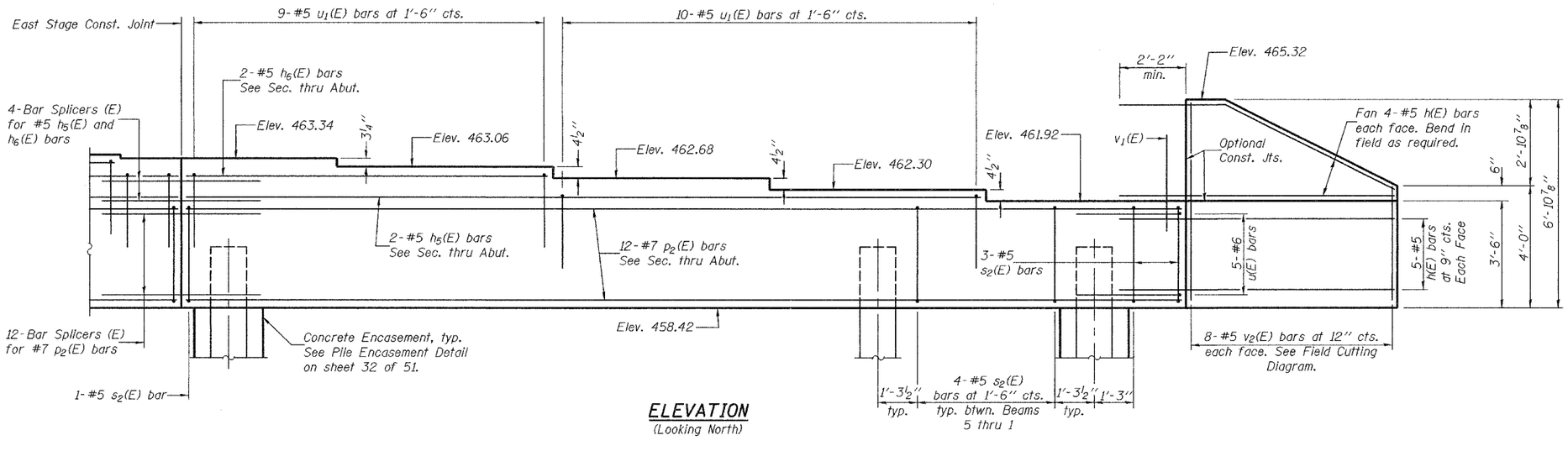
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	(X1-6-2) VB-2	WILLIAMSON	917	367
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 34
51 SHEETS

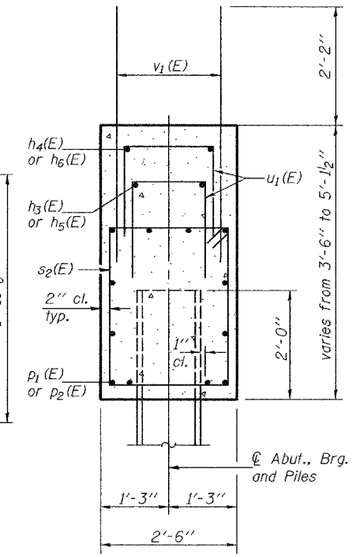
Contract #98950

PILE DATA
(N. ABUMENT - NB)

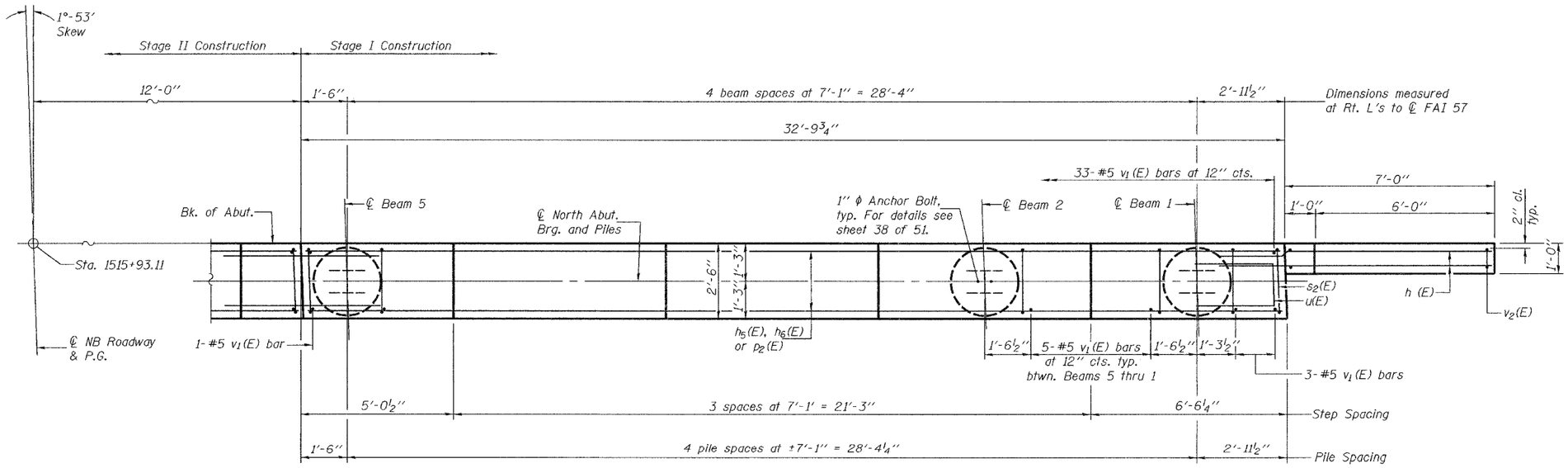
Type: HP14x73
Nominal Required Bearing: 578 kips
Factored Resistance Available: 289 kips
Est. Length: 60 feet
No. of Production Piles: 11



ELEVATION
(Looking North)



SECTION THRU
NORTH ABUTMENT (NB)



PLAN

BILL OF MATERIAL
NORTH ABUTMENT-SN 100-0086 (N.B)

Bar	No.	Size	Length	Shape
h(E)	18	#5	9'-5"	
$h_3(E)$	8	#5	22'-8"	
$h_4(E)$	2	#5	21'-0"	
$h_5(E)$	2	#5	26'-0"	
$h_6(E)$	2	#5	11'-10"	
$p_1(E)$	24	#7	24'-4"	
$p_2(E)$	12	#7	32'-6"	
$s_2(E)$	46	#5	11'-5"	
u(E)	11	#6	7'-2"	
$u_1(E)$	50	#5	6'-10"	
$v_1(E)$	134	#5	4'-4"	
$v_2(E)$	8	#5	10'-2"	
Concrete Encasement			Cu. Yd.	4.9
Concrete Structures			Cu. Yd.	34.2
Reinforcement Bars, Epoxy Coated			Pound	4190
Structure Excavation			Cu. Yd.	192
Furnishing Steel Piles HP14x73			Foot	660
Driving Piles			Foot	660

DESIGNED	Michael D. Cima
CHECKED	Fess Teklehaimanot
DRAWN	BECKY M. LEACH
CHECKED	M.D.C. & F.T.

January 22, 2007
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

NORTH ABUTMENT (STAGE I - NB)
F.A.I. RT. 57 SEC. (X1-6-2)VB-2
WILLIAMSON COUNTY
STA. 1516+58.56
S.N. 100-0086 (N.B.) & S.N. 100-0087 (S.B.)

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