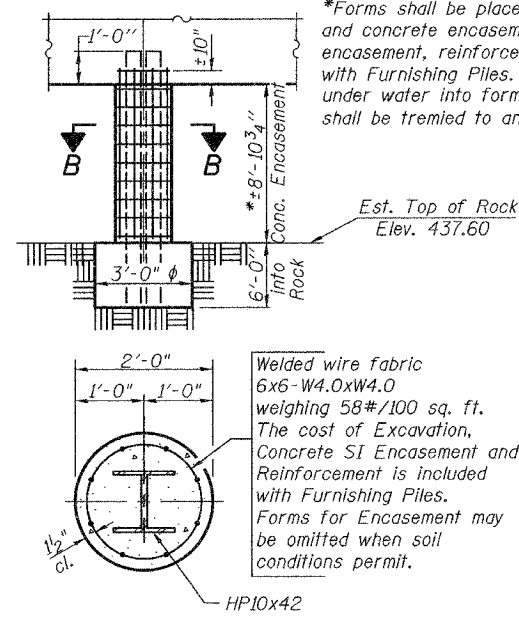


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

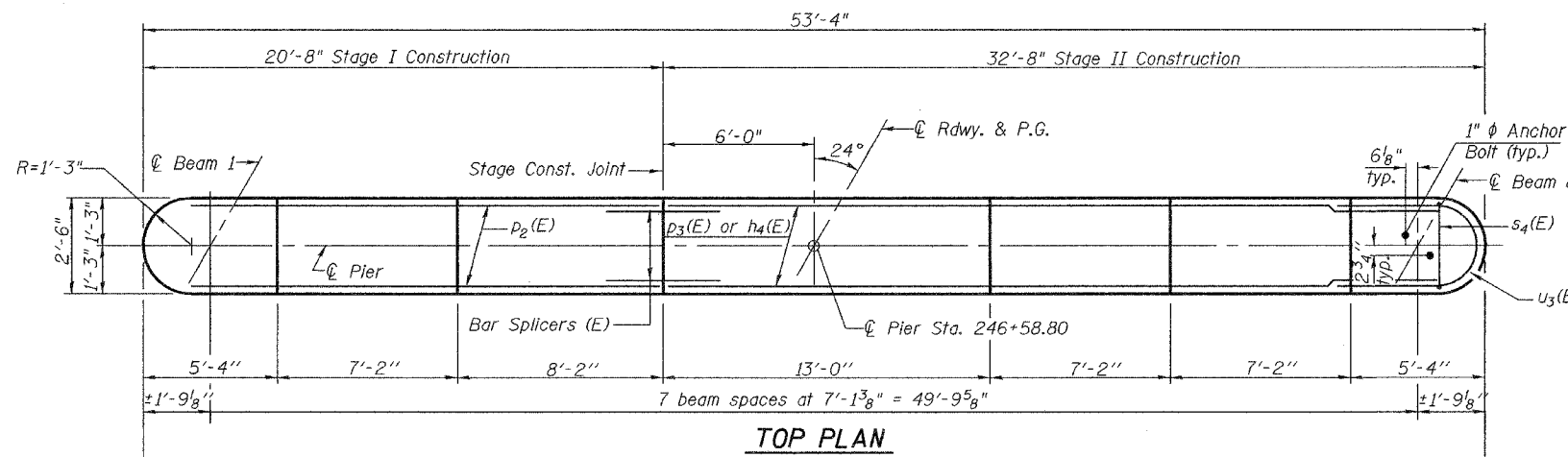
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A.U. 9251	28-3 BR-1	ST. CLAIR	101	38
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Contract #76394

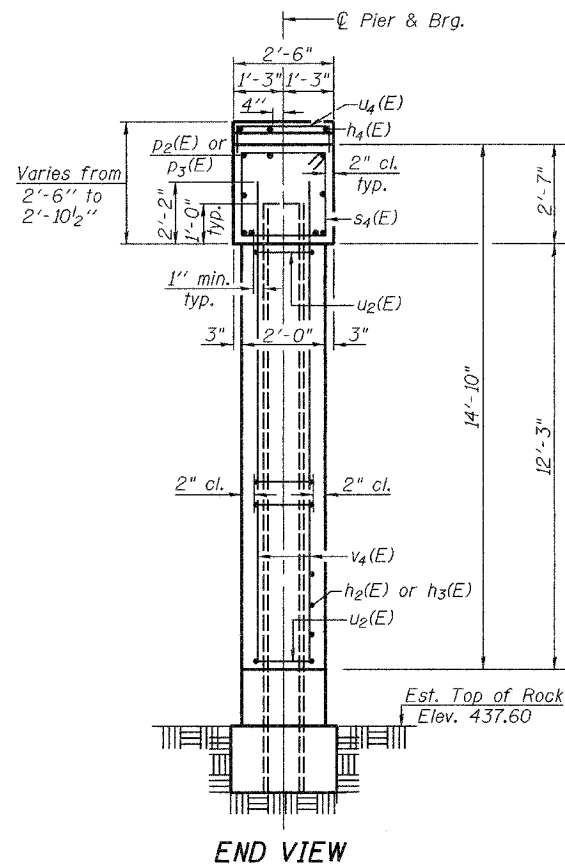
\*Forms shall be placed below Elev. ±446.50 after excavation for pier wall. Reinforcement and concrete encasement shall be poured underwater into forms. The cost of concrete encasement, reinforcement, form excavation, and furnishing and placing forms is included with Furnishing Piles. If a portion of the pier wall is under water, concrete shall be tremied under water into forms according to Article 503.08 of the Standard Specifications. Concrete shall be tremied to an elevation 1'-0" above the water level at the time of construction.



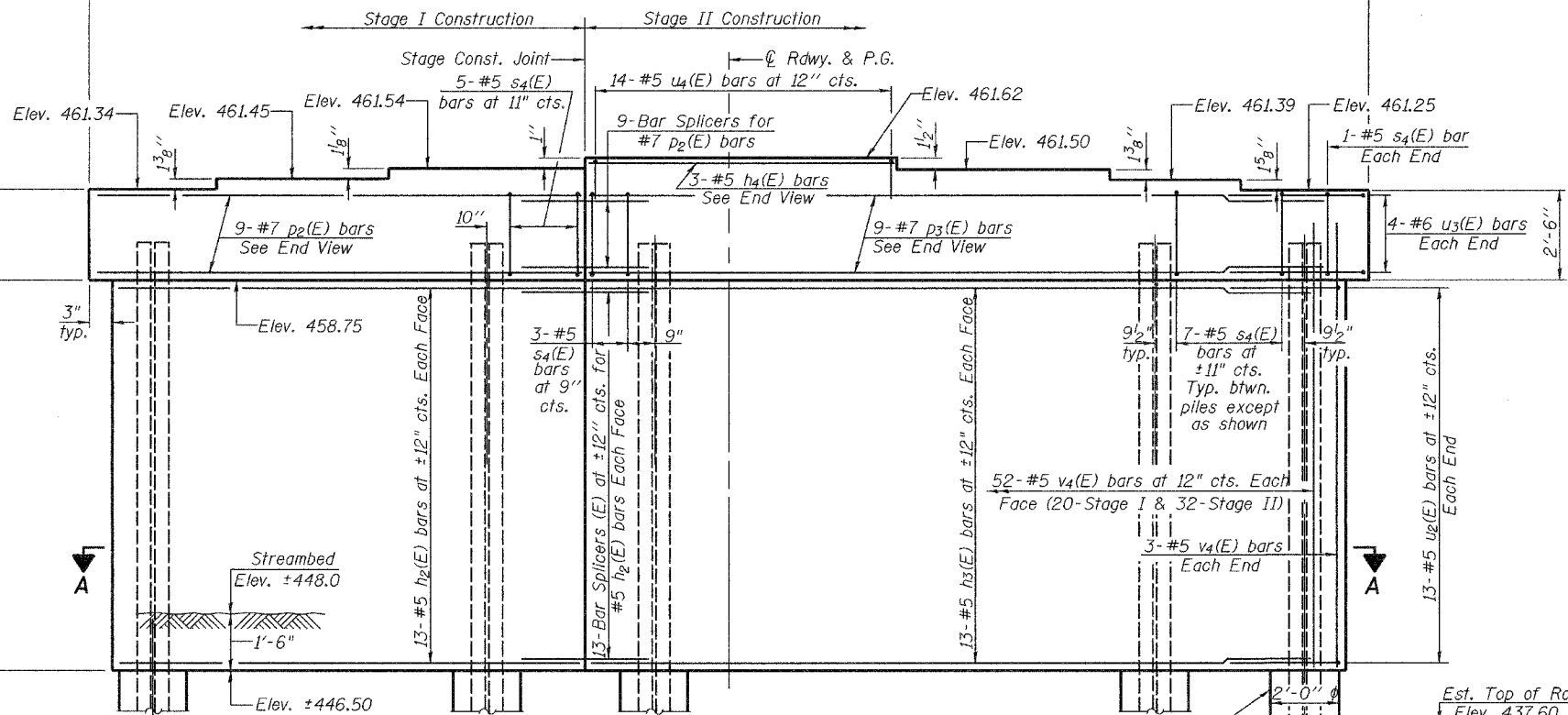
PILE ENCASEMENT DETAILS



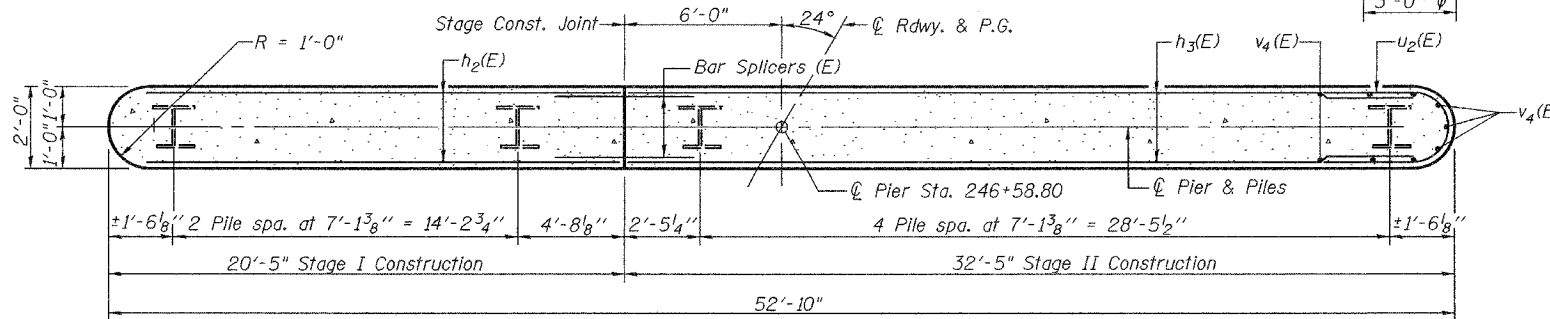
TOP PLAN



END VIEW



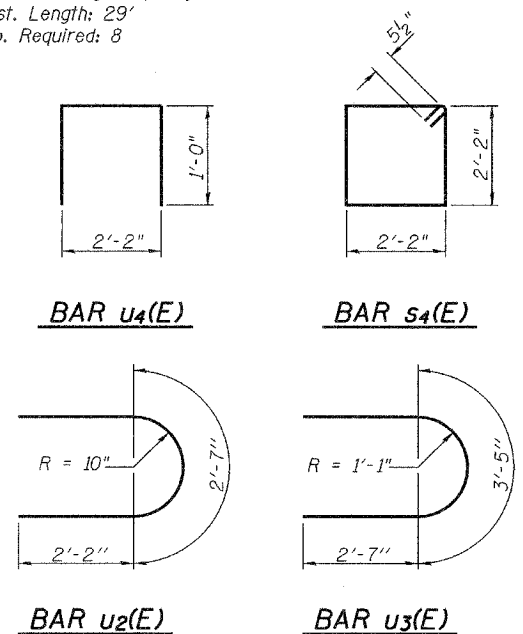
ELEVATION  
(Looking East)



SECTION A-A

PILE DATA

Type: Steel HP10x42  
Nominal Req'd. Bearing: Set in Rock  
Nominal Design Capacity: 207 tons  
Est. Length: 29'  
No. Required: 8



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h2(E)	26	#5	19'-3"	—
h3(E)	26	#5	31'-3"	—
h4(E)	3	#5	12'-8"	—
p2(E)	9	#7	19'-3"	—
p3(E)	9	#7	31'-3"	—
s4(E)	52	#5	9'-7"	□
u2(E)	26	#5	6'-11"	U
u3(E)	8	#6	8'-7"	U
u4(E)	14	#5	4'-2"	□
v4(E)	110	#5	14'-3"	—
Concrete Structures			Cu. Yd.	60.8
Reinforcement Bars, Epoxy Coated			Pound	4840
Furnishing Steel Piles HP10x42			Foot	232
Setting Piles in Rock			Each	8
Structure Excavation			Cu. Yd.	63
Underwater Structure Excavation Protection Location 4			Each	1

Notes:  
Pour steps monolithically with cap.  
Reinforcement bars designated (E) shall be epoxy coated.  
For anchor bolt installation details see sheet 11 of 18.  
For bar splicer details see sheet 16 of 18.

DESIGNED	Rebecca Tharp	March 16, 2006
CHECKED	Curt Evoy	EXAMINED Thomas J. Domagalaki
DRAWN	R. Sommer	PASSED Ralph E. Anderson
CHECKED	RLT/CME	ENGINEER OF BRIDGES AND STRUCTURES

PIER 2  
F.A.U. ROUTE 9251 - SECTION 28-3BR-1  
ST. CLAIR COUNTY  
STATION 246+33.80  
STRUCTURE NO. 082-0398