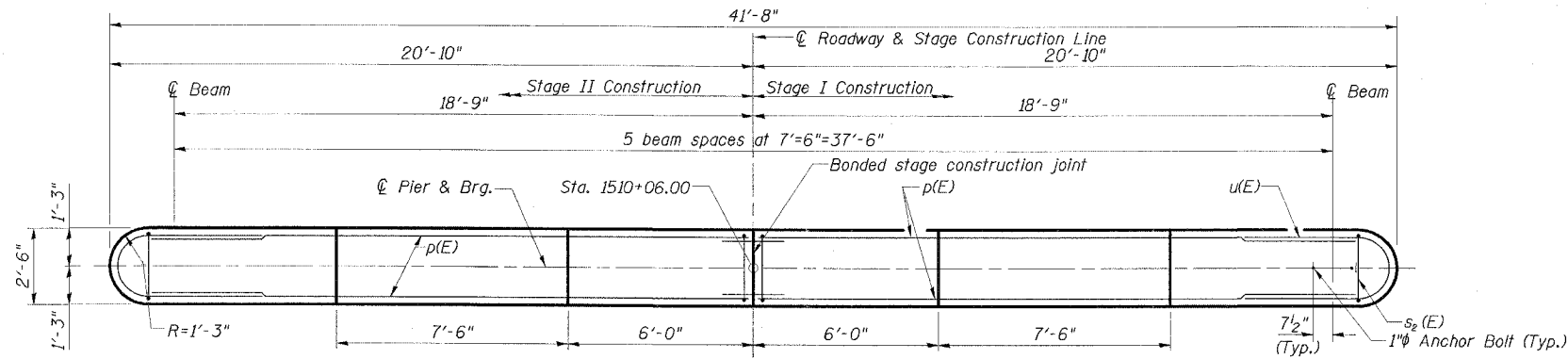


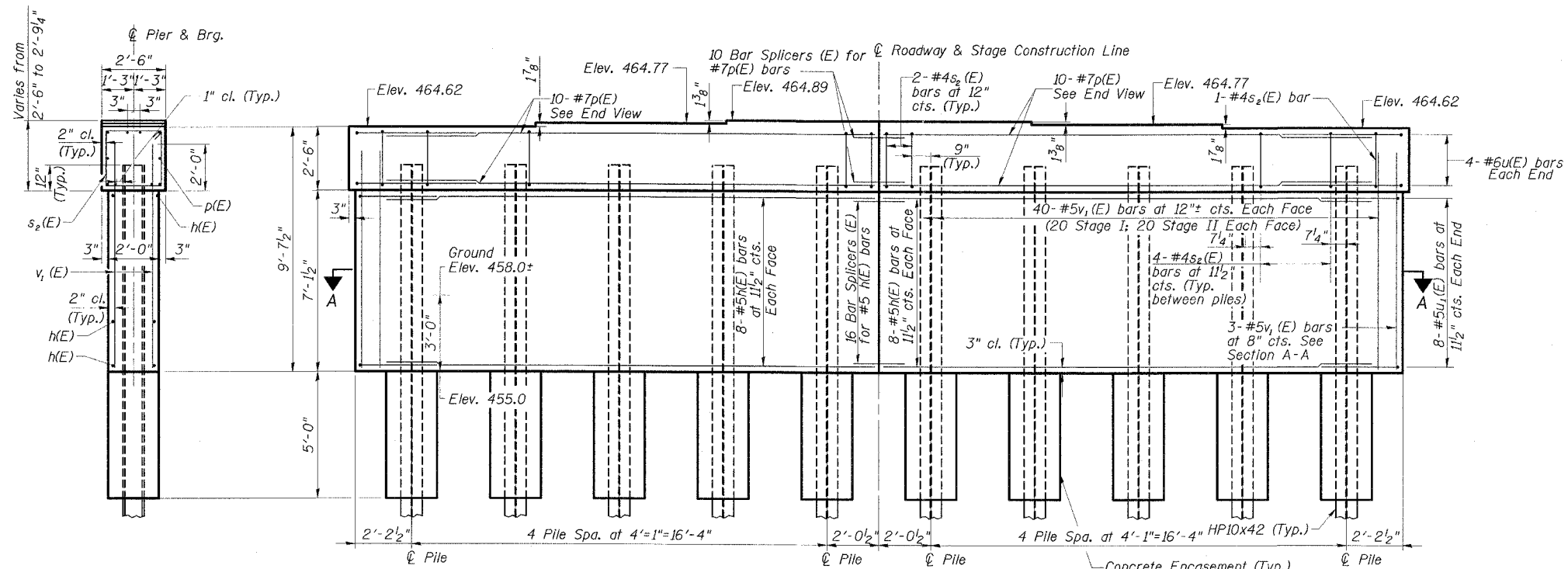
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET #	SHEET NO.
FAP 328	#	CLAY	61	38
CONTRACT NO. 740.37 *6BR-2/B-1				

26 SHEETS

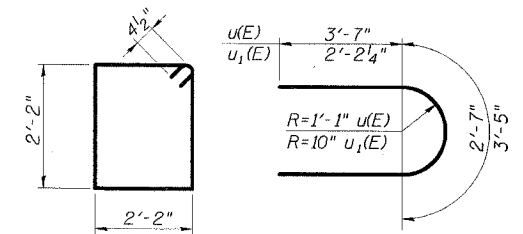


TOP PLAN



END VIEW

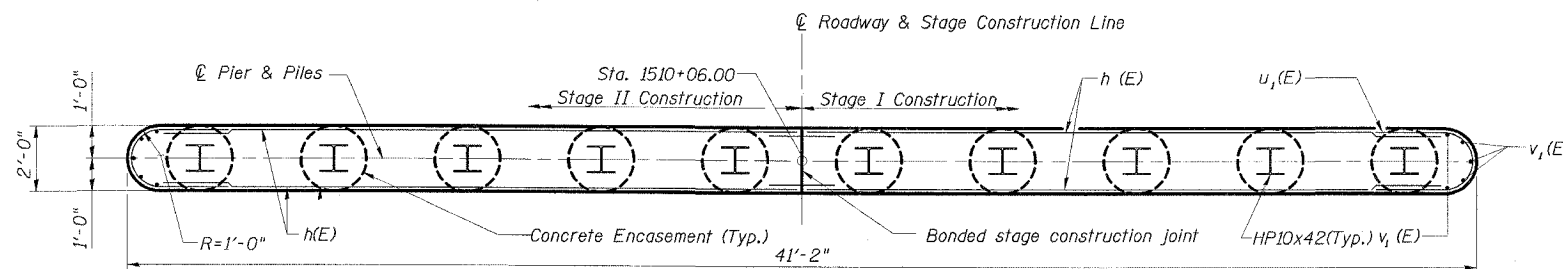
ELEVATION



BAR BENDING DETAILS

PILE DATA

Pile Type & Size: HP10X42 with pile shoes  
Nominal Required Bearing: 335 kips  
Allowable Resistance Available: 111 kips  
Estimated Pile Length: 50'  
No. of Production Piles: 9  
No. of Test Piles: 1



SECTION A-A

NOTES

1. Pour steps monolithically with cap.
2. Space reinforcement in cap to miss anchor bolts.
3. For pile details and concrete encasement details see Dwg. No. 24 of 26.

PIER  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#5	19'-5"	—
p(E)	20	#7	19'-5"	—
s2(E)	38	#4	9'-5"	□
u(E)	8	#6	10'-7"	U
u1(E)	16	#5	7'-0"	U
v1(E)	86	#5	8'-10"	—
Reinforcement Bars, Epoxy Coated		Pound		2730
Concrete Structures		Cu. Yd.		31.0
Structure Excavation		Cu. Yd.		52
Furnishing Steel		Foot		450
Piles HP10x42		Foot		450
Driving Piles		Foot		450
Test Pile Steel HP10x42		Each		1
Underwater Structure Excavation Protection-Location 1		Each		1
Bar Splicers		Each		26
Concrete Encasement		Cu. Yd.		5.8
Pile Shoes		Each		10

**ESCA**  
CONSULTANTS, INC.

DESIGNED BY:	ELH	02/07
DRAWN BY:	CJ/KAH	02/07
CHECKED BY:	ELH	02/07
APPROVED BY:	RDP	02/07

PIER  
US ROUTE 45 OVER  
BUCK CREEK  
FAP RTE 328-SECTION (6BR-2)B-1  
CLAY COUNTY  
STATION 1510+13.00  
STRUCTURE NO. 013-0041