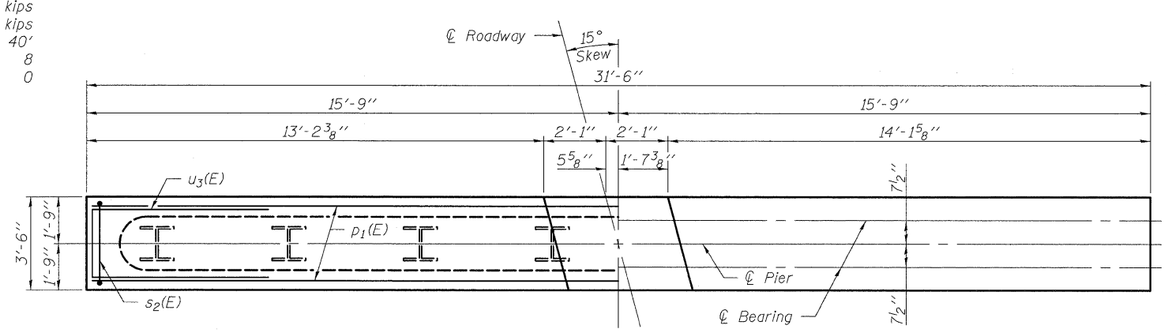
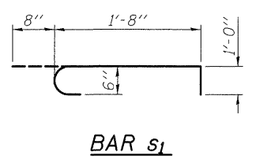
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PILE DATA

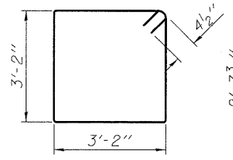
Type:	HP12x63
Nominal Required Bearing:	497 kips
Factored Resistance Available:	199 kips
Est. Length:	40′
No. Production Piles:	8
No. Test Piles:	0



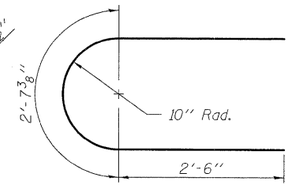
PLAN



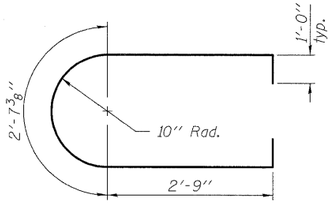
BAR s_1



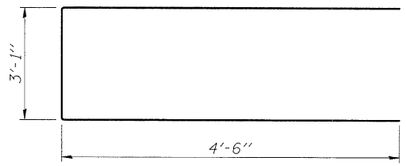
BAR $s_2(E)$



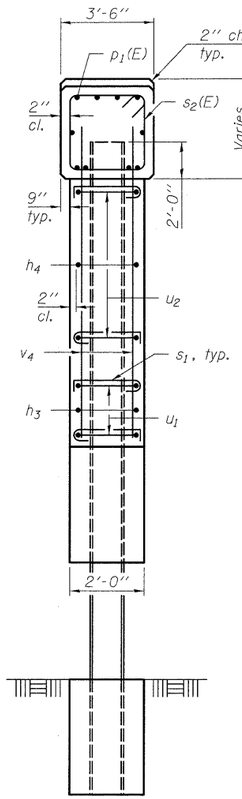
BAR u_1



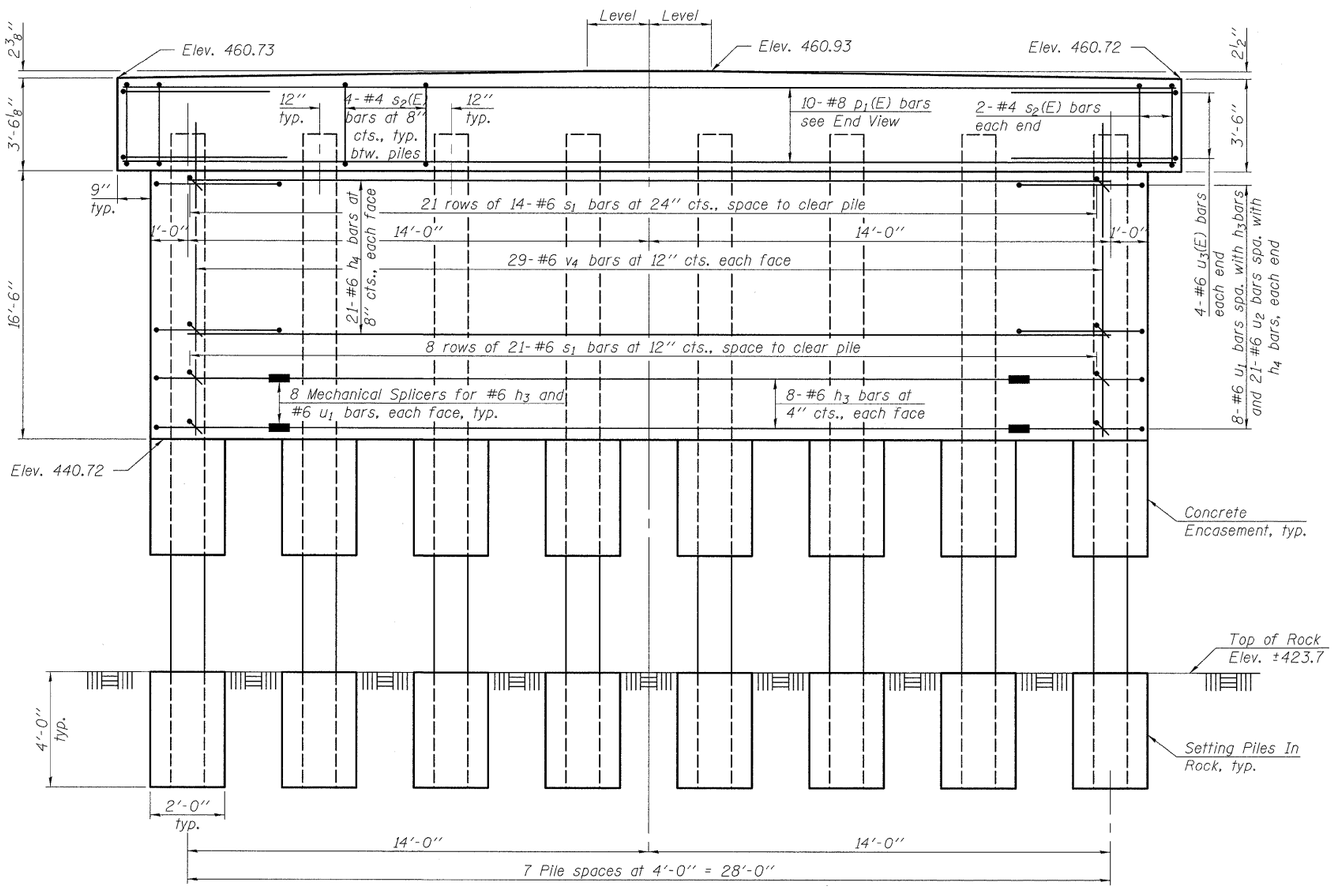
BAR u_2



BAR $u_3(E)$



END VIEW



ELEVATION

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_3	16	#6	23′-0″	—
h_4	42	#6	28′-0″	—
$p_1(E)$	10	#8	31′-2″	—
s_1	462	#6	3′-4″	⊐
$s_2(E)$	32	#4	13′-5″	□
u_1	16	#6	7′-8″	⊂⊃
u_2	42	#6	10′-2″	⊂⊃
$u_3(E)$	8	#6	12′-1″	⊏⊐
v_4	58	#6	18′-0″	—
Structure Excavation		Cu. Yd.	10	
Concrete Structures		Cu. Yd.	50.5	
Concrete Encasement		Cu. Yd.	2.8	
Reinforcement Bars		Pound	7,030	
Reinforcement Bars, Epoxy Coated		Pound	1,270	
Furnishing Steel Piles HP12x63		Foot	320	
Mechanical Splicers		Each	32	
Setting Piles in Rock		Each	8	
Underwater Structure Excavation Protection - Location 2		Each	1	

Space reinforcement in cap to miss dowel rods.
For dowel rod placement details, see sheet 2 of 11.
For details of piles and concrete encasement, see sheet 10 of 11.

If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1′-0″ above the water line at the time of construction.

DESIGNED	EML
CHECKED	KAK
DRAWN	EML
CHECKED	KAK

HORNER & SHIFRIN, INC.
ENGINEERS

PIER 2
STRUCTURE NO. 095-3260

SHEET NO. 9	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	836	07-00077-01-BR	WASHINGTON	27	17
			CONTRACT NO. 97402		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		