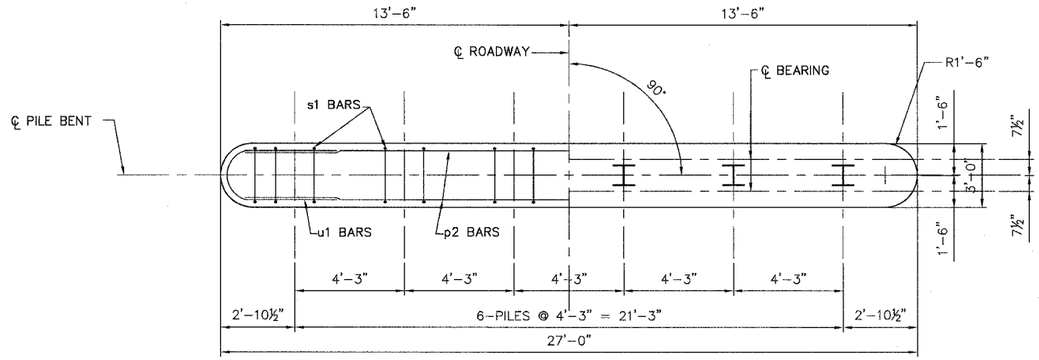
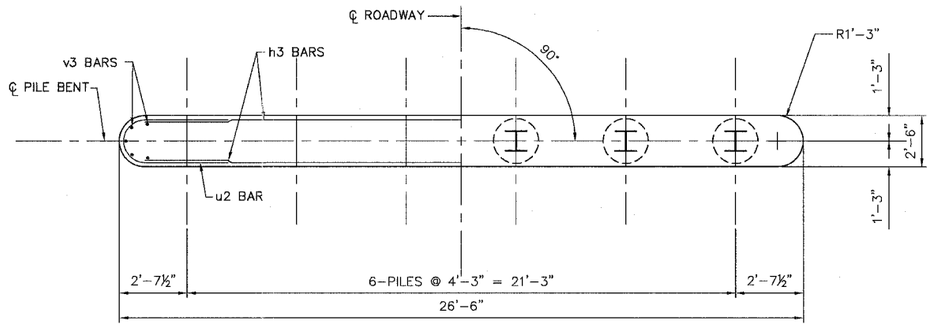
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	*	MERCER	23	17
		ILLINOIS		BR-0S-131(44)

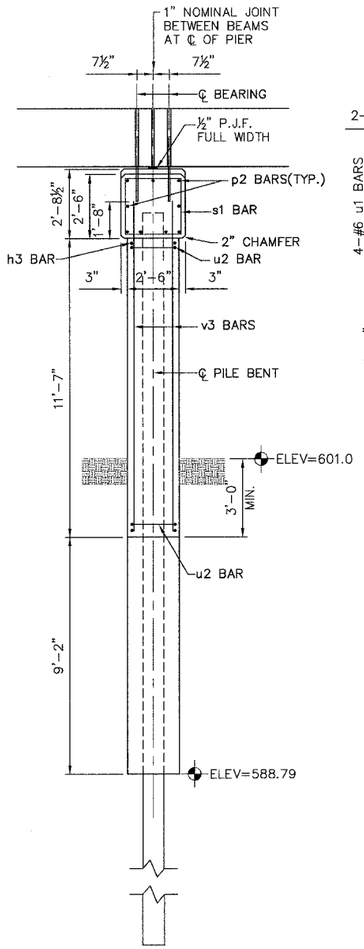
* 97-06118-00-BR 89250



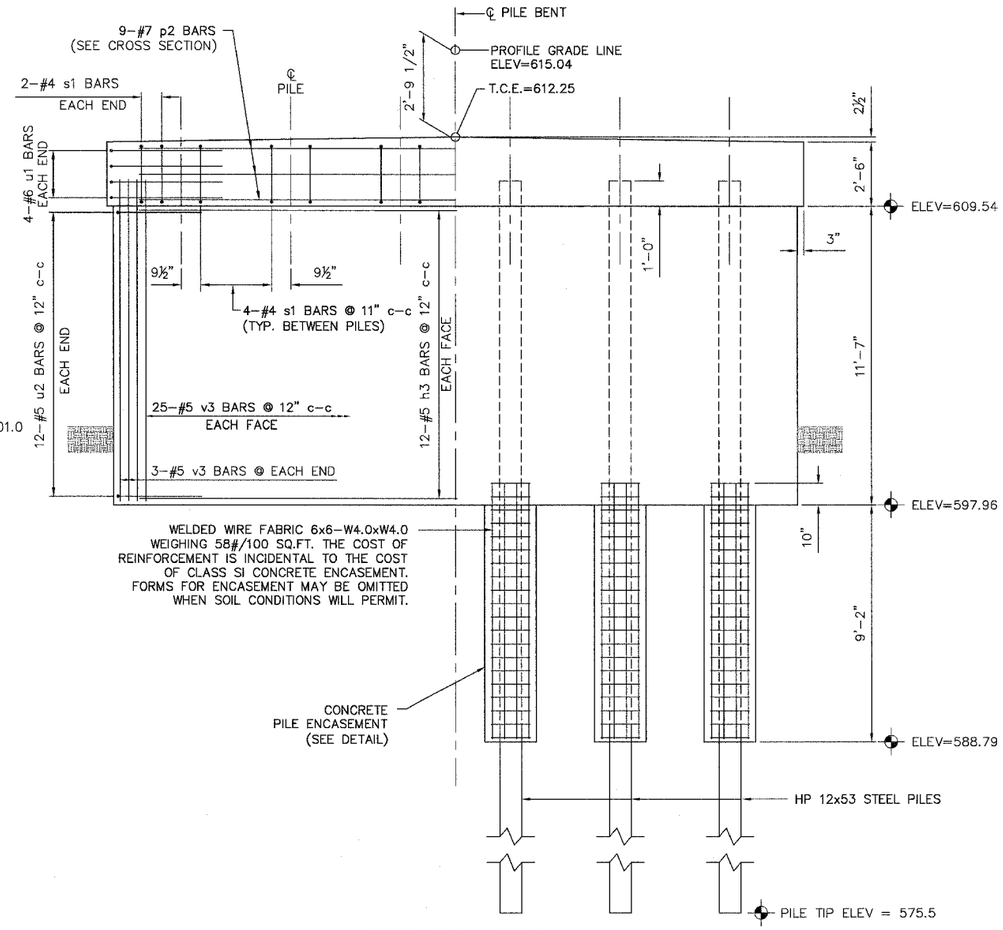
PIER CAP PLAN



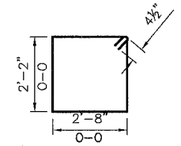
PIER WALL PLAN



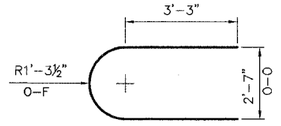
PIER CROSS SECTION



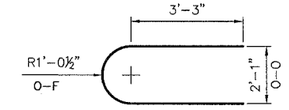
PIER ELEVATION



BAR s



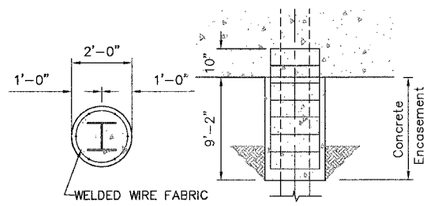
BAR u1



BAR u2

PILE DATA

Type	Steel HP 12x53
Capacity	Refusal
Estimated Length	35 Feet (Bent #2)
Quantity	5+1 Test Pile (Bent #2)



PILE ENCASEMENT DETAIL

GENERAL NOTES

REINFORCEMENT BARS SHALL CONFORM TO A706, GRADE 60.

ALL STEEL SHALL HAVE A MINIMUM CLEARENCE OF 2" UNLESS NOTED OTHERWISE.

PIER CAP TOP SHALL BE CONSTRUCTED TO THE SAME GRADE AS THE PROPOSED ROADWAY.

DESIGN STRESSES

Fy = 60,000 PSi
f'c = 3,500 PSI

BAR LIST FOR ONE PIER

BAR	NO.	SIZE	LENGTH	SHAPE
h3	24	#5	24'-0"	——
p2	9	#7	24'-0"	——
s1	24	#4	10'-5"	□
u1	8	#6	10'-7"	⊏
u2	24	#5	9'-9"	⊏
v3	56	#5	13'-1"	——

QUANTITY FOR ONE PIER

STRUCTURE EXCAVATION	CU.YD.	58.7
CONCRETE STRUCTURES	CU.YD.	35.5
REINFORCEMENT BARS	LBS	2,350
STEEL PILES - HP12x53	FOOT	175
DRIVING STEEL PILES	FOOT	175
STEEL TEST PILE - HP12x53	EACH	1
CONCRETE ENCASEMENT	CU.YD.	6.2
UNDERWATER STRUCTURE EXCAVATION PROTECTION-LOCATION 1	EACH	1

SOLID WALL PIER DETAILS

SECTION 97-06118-00-BR
T.R. 132, STA. 7+74.00
MERCER COUNTY
S.N. 066-4817

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