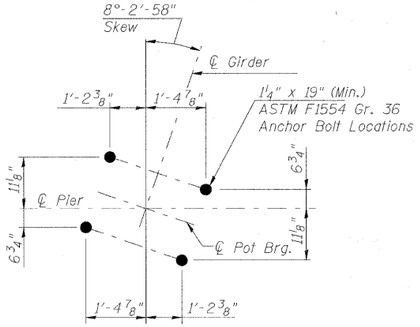
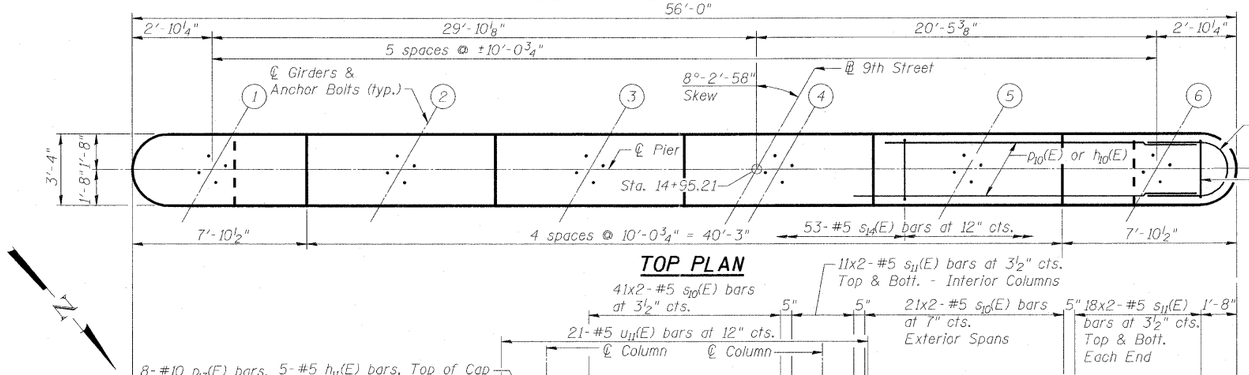
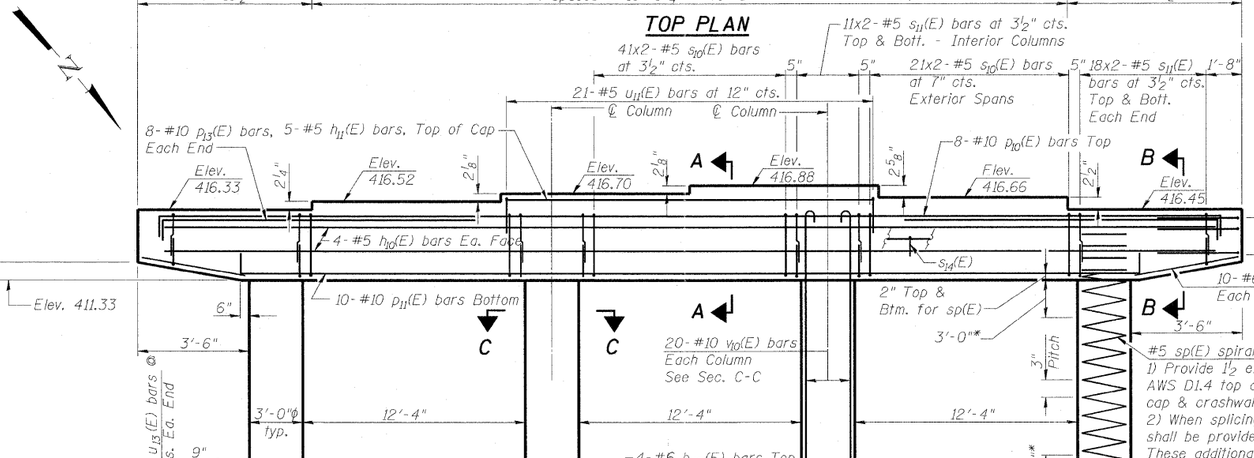
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

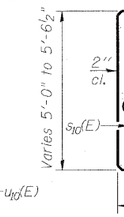


ANCHOR BOLT LOCATION DETAIL

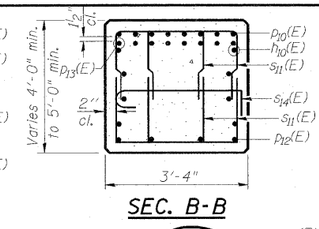


TOP PLAN

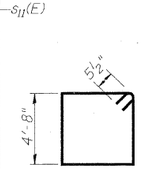




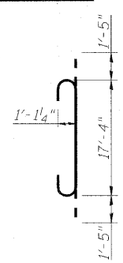
SEC. A-A



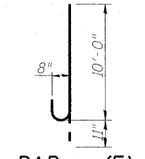
SEC. B-B



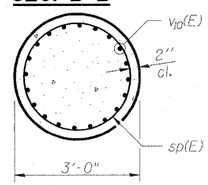
BAR s10(E)



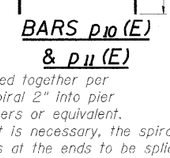
BAR v10(E)



BAR n10(E)



SEC. C-C



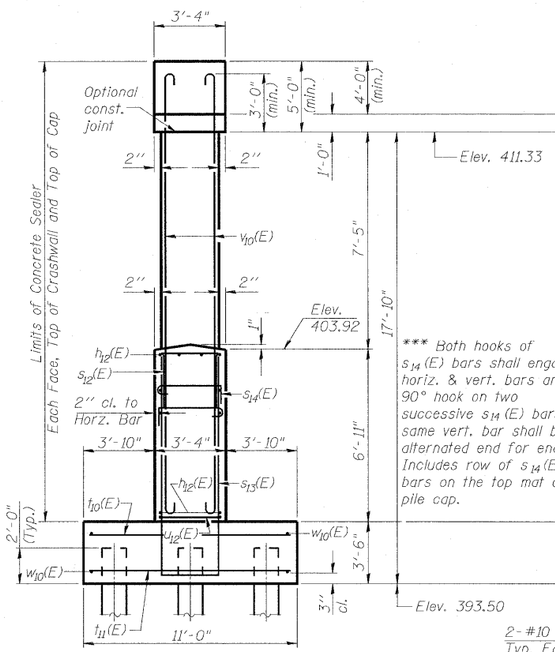
BARS p10(E) & p11(E)

BILL OF MATERIAL

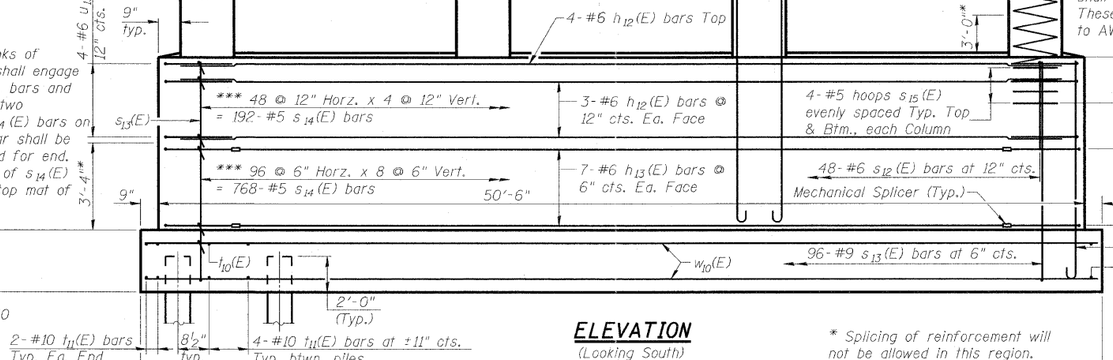
Bar	No.	Size	Length	Shape
h10(E)	8	#5	52'-8"	
h11(E)	5	#5	19'-8"	
h12(E)	10	#6	41'-2"	
h13(E)	14	#6	39'-10"	
n10(E)	8	#8	10'-11"	
p10(E)	8	#10	56'-4"	
p11(E)	10	#10	53'-8"	
p12(E)	20	#6	7'-8"	
p13(E)	16	#10	17'-10"	
s10(E)	166	#5	14'-3"	
s11(E)	232	#5	10'-0"	
s12(E)	48	#6	8'-10"	
s13(E)	96	#9	22'-10"	
s14(E)	1013	#5	4'-6"	
s15(E)	32	#5	8'-4 1/2"	
sp(E)	4	#5	7'-9"	
t10(E)	53	#8	10'-8"	
t11(E)	52	#10	10'-8"	
u10(E)	10	#6	17'-11"	
u11(E)	21	#5	7'-0"	
u12(E)	14	#6	12'-1"	
u13(E)	8	#6	14'-1"	
v10(E)	80	#10	20'-2"	
w10(E)	24	#8	51'-8"	

Braced Excavation	Cu. Yd.	125
Concrete Structures	Cu. Yd.	160.4
Reinforcement Bars, Epoxy Coated	Pound	42,200
Furnishing - Steel Piles, HP 14x73	Foot	3,627
Driving Piles	Foot	3,627
Pile Shoes	Each	39
Concrete Sealer	Sq. Ft.	2,192
Mechanical Splicers	Each	28

** Length is height of spiral.

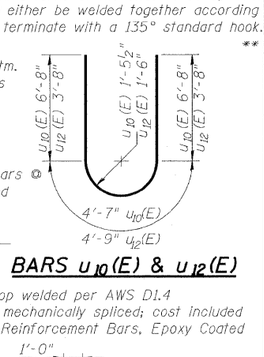


END VIEW

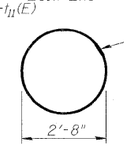


ELEVATION
(Looking South)

* Splicing of reinforcement will not be allowed in this region.

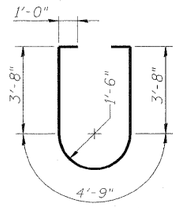


BARS u10(E) & u12(E)

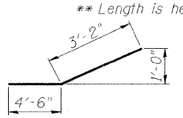


BAR s15(E)

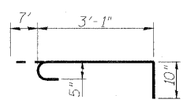
Shop welded per AWS D1.4 or mechanically spliced; cost included in Reinforcement Bars, Epoxy Coated



BAR u13(E)



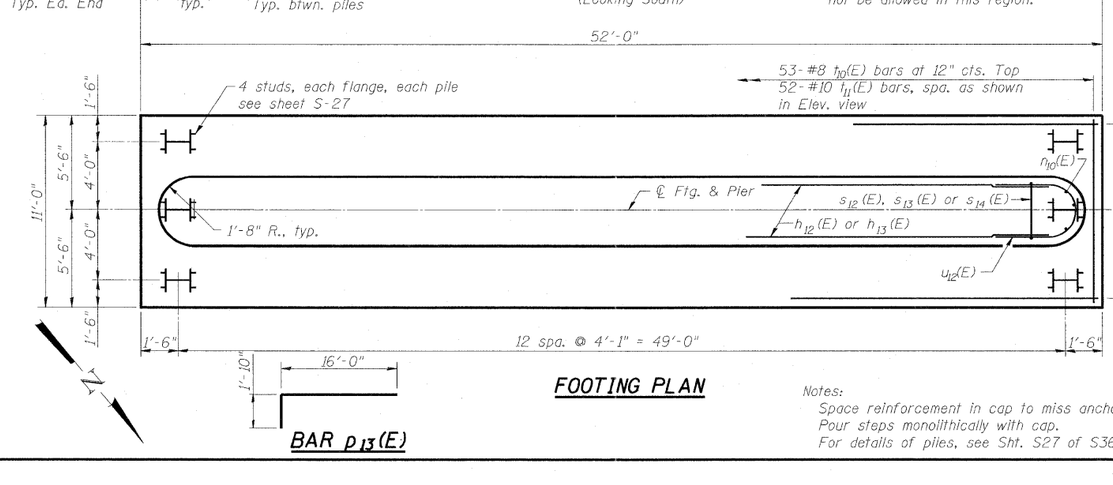
BAR p12(E)



BAR s14(E)

PILE DATA

Type: HP 14x73
Nominal Required Bearing: 450 kips
Factored Resistance Available: 225 kips
Est. Length: 93'
No. Production Piles: 39



FOOTING PLAN

BAR p13(E)

Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see Sht. S27 of S36.

BARS s11(E), s12(E), s13(E), u11(E) & u12(E)

A & B DIMENSIONS

Bar	A	B
s11(E)	2'-0"	4'-0"
s12(E)	2'-10"	3'-0"
s13(E)	2'-10"	10'-0"
u11(E)	3'-0"	2'-0"

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www.aecom.com

DESIGNED	- DDB
CHECKED	- PJL
DRAWN	- BRD
CHECKED	- PJL

03/31/2011

PIER
STRUCTURE NO. 082-0326

SHEET NO. S26	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S36 SHEETS	64	82-1-3HB, 82-2N, 82-1-12RS	ST. CLAIR	352	228
	F.A.U. 9166 / F.A.U. 9180		CONTRACT NO. 76C51		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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4/7/2011