

Notes:
 Work this sheet with Sheet 21 of 29.
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see Sheet 25 of 29.
 Shim plates shall not be placed under Bearing Assembly.
 When splicing of spiral reinforcement is necessary,
 the spirals shall be provided with 1 1/2 extra turns at
 the ends to be spliced. These additional turns shall
 either be welded together according to AWS D1.4, or
 shall both terminate with a 135° standard hook.

PILE DATA

Type: Metal Shell - 12"Ø with 0.250" walls
 Nominal Required Bearing: 316 Kips/Pile
 Factored Resistance Available: 174 Kips/Pile
 Est. Length: 30 Ft./Pile
 No. Production Piles: 13
 No. Test Piles: 1*

* Driven to 110% NRB in production location.

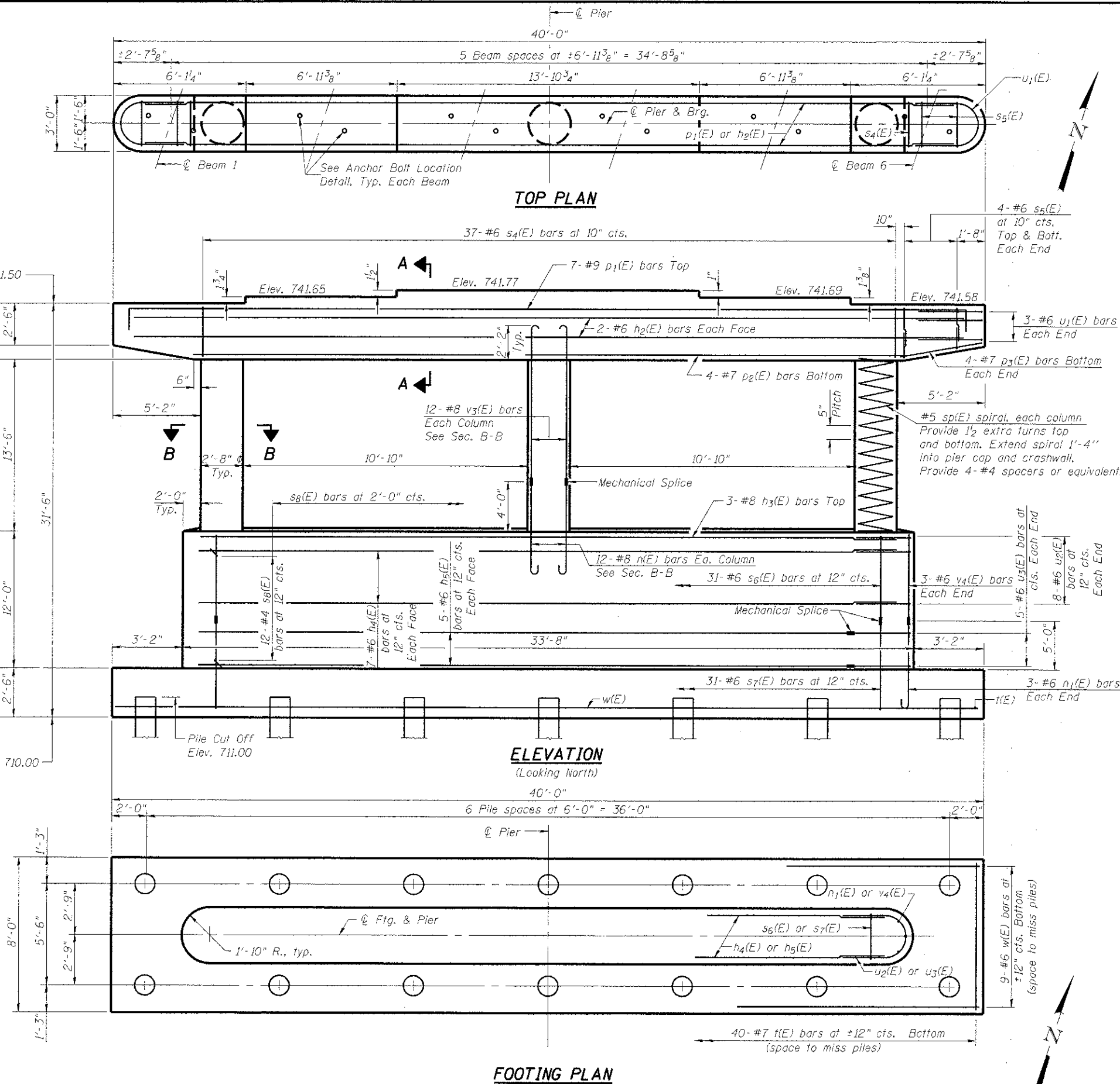
MINIMUM BAR LAP

#6 bar = 3'-10"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h2(E)	4	#6	35'-0"	—
h3(E)	3	#8	28'-0"	—
h4(E)	14	#6	28'-0"	—
h5(E)	10	#6	20'-0"	—
n(E)	36	#8	7'-1"	U
n1(E)	6	#6	7'-11"	U
p1(E)	7	#9	40'-2"	—
p2(E)	4	#7	30'-8"	—
p3(E)	8	#7	4'-7"	—
s4(E)	37	#6	13'-0"	□
s5(E)	16	#6	7'-8"	□
s6(E)	31	#6	16'-10"	□
s7(E)	31	#6	17'-10"	□
s8(E)	192	#4	4'-5"	—
sp(E)	3	#5	16'-2"	W
t(E)	40	#7	7'-8"	—
u1(E)	6	#6	14'-0"	—
u2(E)	16	#6	17'-0"	—
u3(E)	10	#6	15'-0"	—
v3(E)	36	#8	12'-7"	U
v4(E)	6	#6	6'-9"	—
w(E)	9	#6	39'-8"	—
Structure Excavation		Cu. Yd.	117	
Concrete Structures		Cu. Yd.	108.1	
Reinforcement Bars, Epoxy Coated		Pound	10,770	
Furnishing Metal Shell Piles 12" x 0.250"		Foot	390	
Driving Piles		Foot	390	
Test Pile Metal Shells		Each	1	
Mechanical Splicers		Each	124	

** Length is height of spiral.



(Sheet 1 of 2)

ADAMS COUNTY
HIGHWAY DEPARTMENT

PIER 1
S.N. 001-3338

SHEET NO. 20 OF 29 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1598	11-00218-00-BR	ADAMS	53	36
CONTRACT NO. 93590				

ILLINOIS FED. AID PROJECT
Klingner & Associates P.C.

FILE NAME -	USER NAME -	DESIGNED -	REVISD -
C:\11\10015\25 Plans\Bridg Plans\PIERS.dgn	sgj	ADL	
PLOT SCALE = 0.083262' / IN.	CHECKED -	RJP	REVISED -
PLOT DATE = 11/5/2012	DRAWN -	RJP	REVISED -
	CHECKED -	ADL	REVISED -