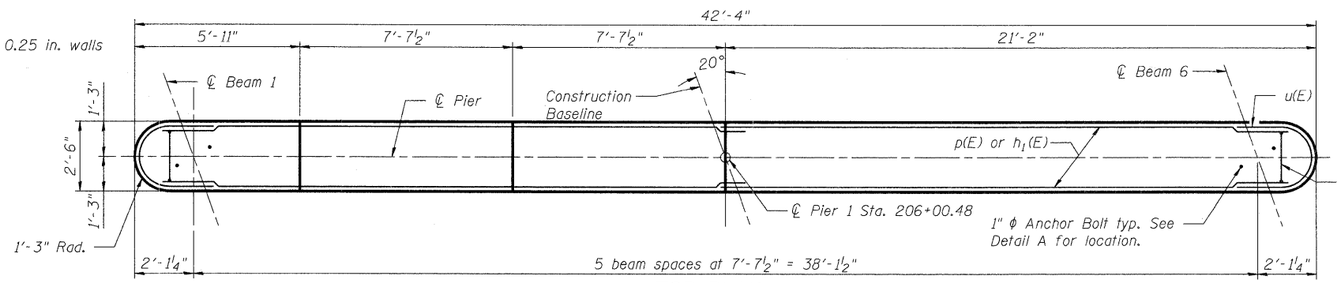
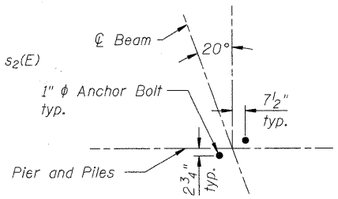
PILE DATA

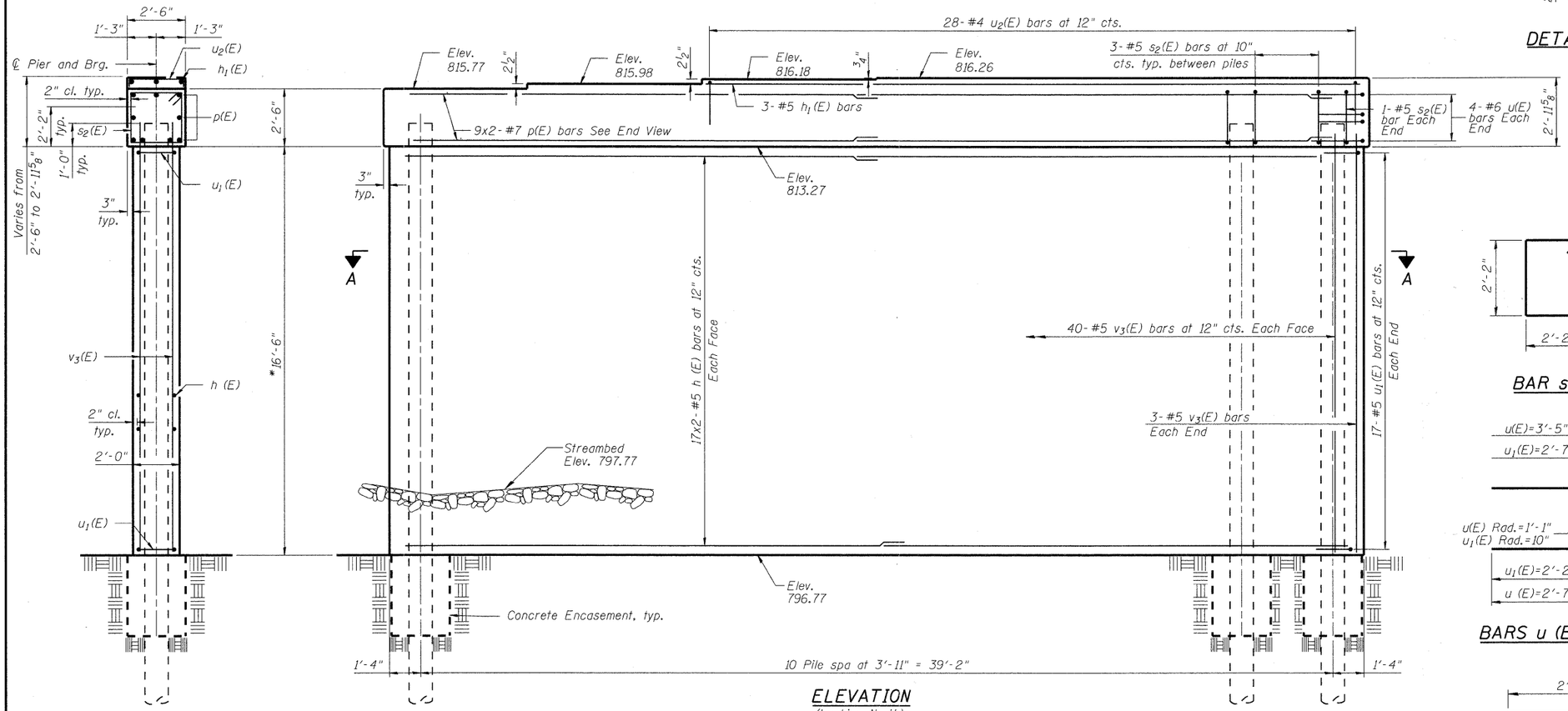
Type and Size: Metal Shell - 14 in. dia. x 0.25 in. walls
Nominal Required Bearings: 390K
Factored Resistance Available: 130K
Est. Length: 80'
No. Production Piles: 10
No. Test Piles: 1



TOP PLAN

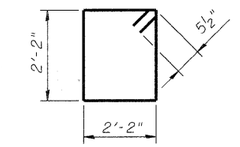


DETAIL A

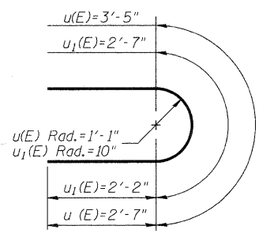


END VIEW

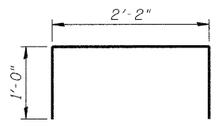
ELEVATION
(Looking North)



BAR $s_2(E)$



BARS u (E) & $u_1(E)$



BAR $u_2(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h (E)	68	# 5	21'-2"	——
$h_1(E)$	3	# 5	27'-2"	——
p(E)	18	#7	23'-5"	——
$s_2(E)$	32	# 5	9'-7"	□
u(E)	8	#6	8'-7"	⊃
$u_1(E)$	34	#5	6'-11"	⊃
$u_2(E)$	28	#4	4'-2"	▭
$v_3(E)$	86	#5	18'-8"	——
Concrete Structures			Cu. Yd.	61.8
Reinforcement Bars, Epoxy Coated			Pound	4,870
Concrete Encasement			Cu. Yd.	6.0
Furnishing Metal Shell Piles - 14" x 0.250"			Foot	800
Driving Piles			Foot	800
Test Pile, Metal Shell Piles - 14" x 0.250"			Each	1
Underwater Structure Excavation Protection, Special - Location 1			Each	1

Reinforcement Bars designated (E) shall be epoxy coated.

Notes:
Space reinforcement in cap to miss anchor bolts.

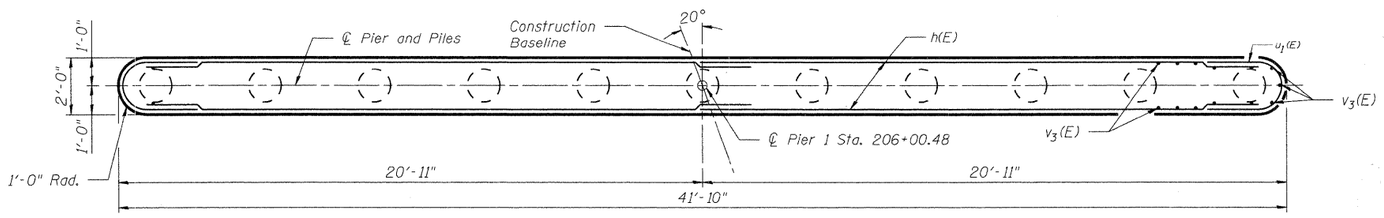
Pour steps monolithically with cap.

For details of pile and Concrete Encasement, see Sheet S-23 of S-25.

See "Underwater Structure Excavation Protection Special" special provision.

MINIMUM BAR LAP

#5 bar = 2'-2"
#7 bar = 4'-10"



SECTION A-A

PIER 1 DETAILS

THOMPSON ROAD
OVER NIPPERSINK CREEK
SECTION NO. 06-00005-00-BR
McHENRY COUNTY
STATION 206+30.48
STRUCTURE NO. 056-6006

DATE: 11/18/09

DESIGNED	MGH/JPG
CHECKED	KMA
DRAWN	WJH
CHECKED	RGD

FILE NAME: 080563_Pier1.dgn 12/15/2009
PLOT DRIVER: pdf.pltt
PEN TABLE: STANDARD-TRANS.TBL

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www.secgroupinc.com
• McHenry, IL • Yorkville, IL • New Lenox, IL • Chicago, IL

SHEET NO. S-20	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S-25 SHEETS	4081	06-00005-00-BR	McHENRY	45	31
			CONTRACT NO. 63409		
	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		