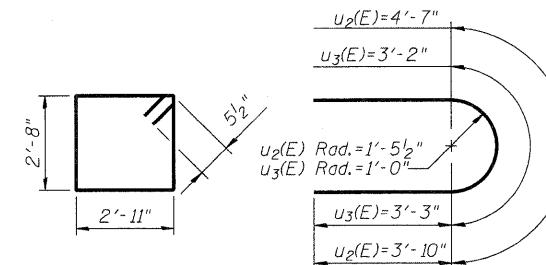
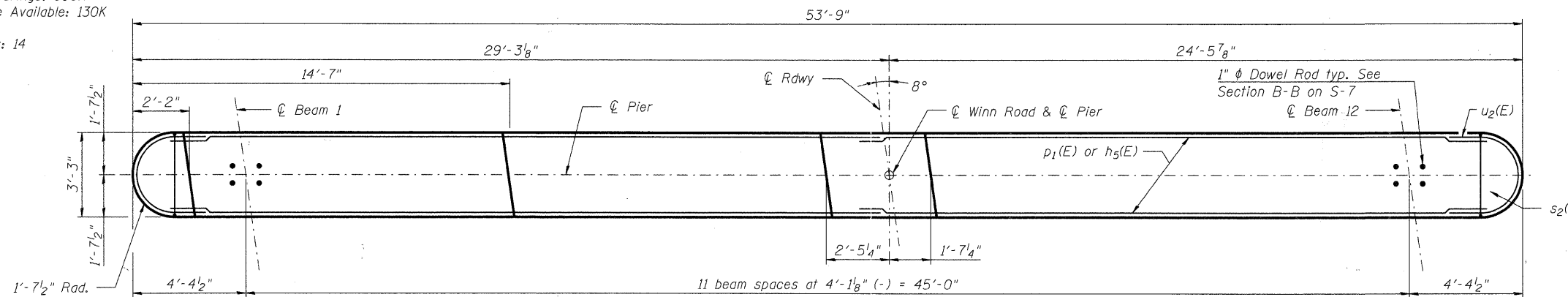


PILE DATA

Type and Size: Metal Shell - 14 in. dia. x 0.25 in. walls
 Nominal Required Bearings: 390K
 Factored Resistance Available: 130K
 Est. Length: 58'
 No. Production Piles: 14
 No. Test Piles: 1

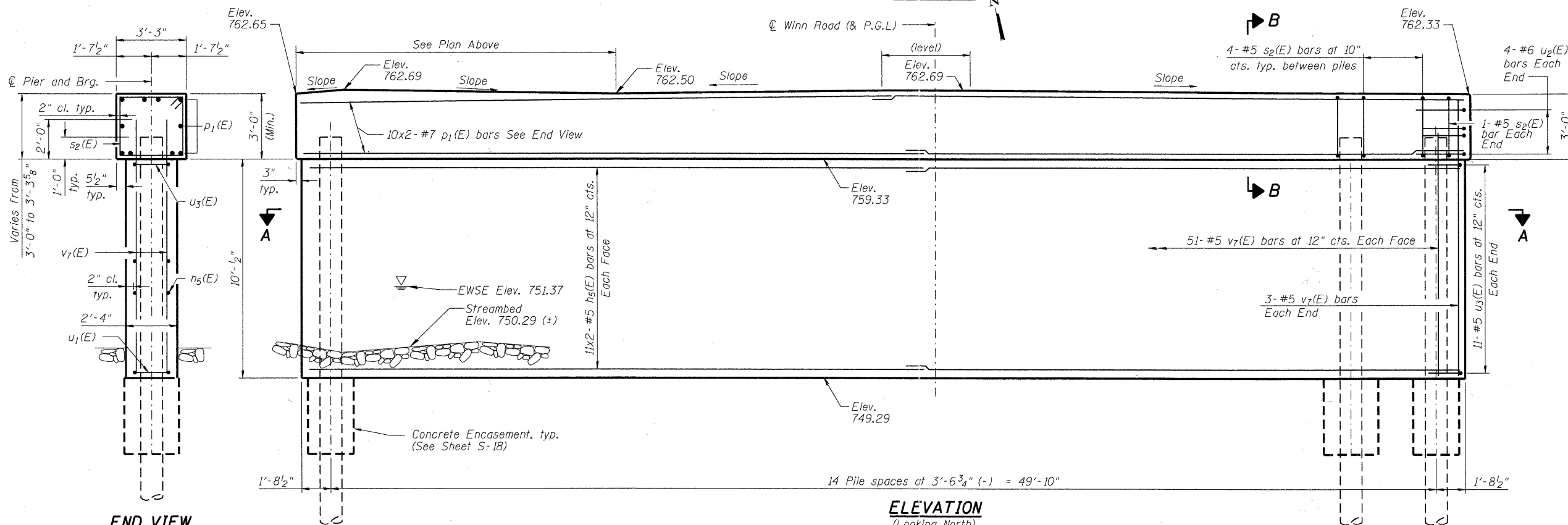


BAR s₂(E)

BARS u₂(E) & u₃(E)

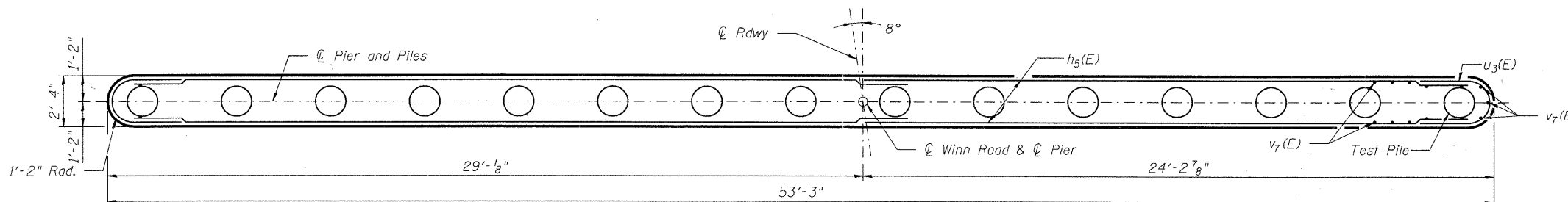
MINIMUM BAR LAP

#5 bar = 2'-11"
 #7 bar = 4'-8"



ELEVATION
(Looking North)

END VIEW



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₅ (E)	44	#5	26'-11"	—
p ₁ (E)	20	#7	27'-7"	—
s ₂ (E)	58	#5	12'-1"	□
u ₂ (E)	8	#6	12'-3"	U
u ₃ (E)	22	#5	9'-8"	U
v ₇ (E)	108	#5	11'-10"	—
Structure Excavation			Cu. Yd.	9
Concrete Structures			Cu. Yd.	68.2
Reinforcement Bars, Epoxy Coated			Pound	4,800
Concrete Encasement			Cu. Yd.	7.7
Furnishing Metal Shell Piles - 14" x 0.250"			Foot	812
Driving Piles			Foot	812
Underwater Structure Excavation Protection, Special - Location 2			Each	1
Test Pile, Metal Shells			Each	1

Notes:
 Space reinforcement in cap to miss dowel rods.
 For details of pile and Concrete Encasement, see Sheet S-18.
 See "Underwater Structure Excavation Protection Special" special provision.
 Bars indicated thus 20 x 2-#4 etc, indicates 20 lines of bars with 2 lengths per line.

PIER 2 DETAILS
WINN ROAD
OVER NIPPERSINK CREEK
F.A.U. ROUTE 0157
SECTION NO. 07-00012-00-BR
MCHENRY COUNTY
STATION 30+56.78
STRUCTURE NO. 056-6123

DATE: 6/23/11

DESIGNED	JMW
CHECKED	RGD
DRAWN	RCB
CHECKED	RGD

SEC GROUP, INC.
 An HR Green Company
 420 N. Front Street, McHenry, IL 60050
 1-815-385-1776 F. 815-385-1761
 www.secgroupinc.com
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SHEET NO. S-17	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	0157	07-00012-00-BR	MCHENRY	41	29
S-20 SHEETS				CONTRACT NO. 63544	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT BRM-8003 (921)					