



Bar	No.	Size	Length	Shape
h(E)	18	#5	29'-6"	
h1(E)	8	#6	29'-9"	
h2(E)	8	#5	6'-6"	
h3(E)	8	#5	6'-6"	
h4(E)	14	#4	11'-3"	
h5(E)	4	#4	11'-2"	
h6(E)	9	#4	12'-9"	
h7(E)	9	#4	9'-7"	
n(E)	20	#6	12'-6"	
n1(E)	12	#6	6'-3"	
p(E)	16	#7	32'-3"	
p1(E)	12	#7	12'-9"	
s(E)	54	#4	15'-11"	
s1(E)	26	#4	9'-5"	
u(E)	4	#6	13'-4"	
u1(E)	4	#6	10'-6"	
v(E)	114	#4	4'-0"	
v1(E)	20	#6	6'-11"	
v2(E)	24	#6	6'-10"	
v3(E)	6	#6	5'-11"	
v4(E)	57	#5	3'-3"	
v5(E)	57	#5	2'-6"	
Structure Excavation		Cu. Yd.	169	
Concrete Structures		Cu. Yd.	58.4	
Reinforcement Bars, Epoxy Coated		Pound	5,180	
Furnishing Metal Shell Piles 12" x 0.25"		Foot	1,188	
Test Pile Metal Shells		Each	1	
Driving Piles		Foot	1,188	

**PILE DATA**

Type..... 12" Metal Shell, w/.25" walls  
 No. Req'd..... 19  
 Allowable Resistance Available..... 90 Kips/Pile  
 Nominal Req'd Bearing..... 270 Kips/Pile  
 Est. Lengths..... 66 Ft/Pile

Notes: The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.  
 \* Includes one test piles to be driven in a permanent location, at the West Abutment.

**MINIMUM BAR LAPS**

#4 Bars = 1'-8"  
 #5 Bars = 2'-2"  
 #6 Bars = 2'-7"  
 #7 Bars = 3'-5"

**HAMPTON, LENZINI & RENWICK, INC.**  
 CIVIL & STRUCTURAL ENGINEERS  
 LAND SURVEYORS

**HLR**

3085 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 (217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12 44 0001 x DATE: 08/24/07  
 DESIGNED: D.A.B. CHECKED: M.G.B. DRAWN: beliva

**WEST ABUTMENT**  
 U.S. 34 OVER P.D. CREEK  
 F.A.P. 313 / SECTION (7B)BR  
 HENDERSON COUNTY  
 STRUCTURE NO. 036-0052 / STATION 301+23

Reinforcement bars designated (E) shall be epoxy coated.  
 Bars indicated thus, 8 x 2 #7 etc. indicates 8 lines of 2 bars with 2 lengths per line.  
 See Sheet 18 of 21 for pile details.