



**EAST ABUTMENT  
BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
h	18	#4	8'-6"	—
h <sub>1</sub>	6	#4	7'-0"	—
h <sub>2</sub>	8	#4	26'-0"	—
n	26	#4	9'-9"	⏏
p	10	#7	25'-2"	—
s	26	#5	9'-7"	□
u	8	#6	12'-1"	—
v	8	#4	5'-8"	—
v <sub>1</sub>	8	#4	4'-8"	—
v <sub>2</sub>	8	#4	3'-8"	—
v <sub>3</sub>	8	#4	2'-8"	—
Concrete Structures			Cu. Yd.	10.8
Concrete Encasement			Cu. Yd.	1.3
Reinforcement Bars			Pound	1,450
Steel Piles HP10x42			Foot	150
Driving Piles			Foot	150

**PILE DATA**

Type and Size ..... Steel HP10x42  
 No. Req'd. .... 5  
 Nominal Req'd Bearing ..... 335 Kips/Pile  
 Allowable Resistance Available ..... 112 Kips/Pile  
 Est. Lengths ..... 30 Ft/Pile (E. Abut.)

Notes: The Steel H-Piles shall be according to AASHTO M270 Grade 50.

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

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

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-81-0002-1      DATE: 04/02/07  
 DESIGNED: T.P.L.      CHECKED: J.L.B.      DRAWN: P.J.L.

**EAST ABUTMENT**  
**SECTION 04-00112-00-BR**  
 COUNTY HIGHWAY 8  
 RICHLAND COUNTY  
 STRUCTURE NO. 080-3213 / STATION 7+58