



**BAR LAPS**  
#4 Bar = 1'-8"

**PILE DATA**

Type: Steel HP12x53  
 No. Req'd. (2 Piers): 10  
 Factored Resistance Available (R<sub>f</sub>): 209 Kips/Pile  
 Nominal Required Bearing (R<sub>n</sub>): 419 Kips/Pile  
 Est. Length: 40 Ft/Pile

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

**BILL OF MATERIAL - 2 PIERS**

BAR	NO.	SIZE	LENGTH	SHAPE
p	16	#7	25'-2"	—
p <sub>1</sub>	20	#4	25'-2"	—
s <sub>1</sub>	30	#5	12'-7"	□
u <sub>1</sub>	16	#6	12'-7"	—
Concrete Structures			Cu. Yd.	20.6
Concrete Encasement			Cu. Yd.	15.8
Reinforcement Bars			Pound	1,860
Steel Piles HP12x53			Foot	400

DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.T.M.
CHECKED - D.A.B.

**PIERS  
STRUCTURE NO. 041-3742**

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

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

PROJECT NUMBER: 08.0127.130 DATE: 01/21/09

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	03-03113-00-BR	JEFFERSON	15	13
CASNER ROAD DISTRICT		CONTRACT NO. 99362		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		