Form 830210 9/06

Iowa Department of Transportation

LOG OF PILING DRIVEN BY FORMULA

Project No. BROS-64(53)--60-64

County Marshall

Design No. 276

Contractor Fagre Construction Co.

Iowa DOT Hammer No. 172

Gross Weight of Hammer 4990 **Effective Wt.** 4990

Weight of Driving Parts

Weight of Anvil

Weight of Cap 730 **Cap No** 2120

Weight of Pile 922.2

Plan Pile Length 30'

Pile (Type and Size) Treated yellow southern pine
(Wood, Steel or Concrete)

Hammer (Type & Model) Gravity
(Gravity or Diesel manufacturer and model)

Foundation Description Pier 1
(North abut, Pier 1, etc.)

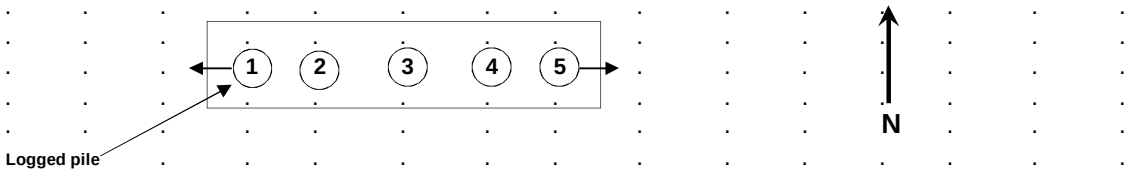
Station of Foundation C.L. 300+12

Formula Used P=(3WH/S+0.35) x (W/W+M)

Plan Driving Resistance 25 Ton

Sketch foundation below, number each pile and show steel H-pile orientation as installed. Note battered piles on sketch,and give the amount of batter. Place name and certificate number of welder below if welding was necessary. Forward 2 copies to the Iowa DOT District Office upon completion of each foundation. Note on drawing which pile has been logged.

Batter Piling 1:4 in the direction shown.



Pile No.	Date Driven	(1) Plan Length (ft.)	Length Cutoff (0.0 ft.)	(2) Average Penetration Last Blows (inches)	Ram Rise (ft.)	Driven Resistance (Tons)	RETAP (3) Date	RETAP Ram Rise (ft.)	RETAP (2) Ave. Penetration Last Blows (inches)	RETAP Driven Resistance (Tons)	PILE EXTENSIONS (4) Length Added (0.0 ft.)	PILE EXTENSIONS Length Cutoff (0.0 ft.)	PILE EXTENSIONS Ram Rise (ft.)	PILE EXTENSIONS (2) Ave. Penetration Last Blows (inches)	PILE EXTENSIONS Driven Resistance (Tons)	Welds (Count)
1	06/27/06	30	0.7	0.65	5	26.5										
2	06/27/06	30	0.4	0.65	5	28										
3	06/27/06	30	0.3	0.60	5	29.5										
4	06/27/06	30	0.3	0.63	5	28.6										
5	06/27/06	30	0.5	0.63	5	27										

(1) Record in the Remarks section below if the pile length is anything other than the plan length at the beginning of drive.
(2) For gravity hammers, enter the penetration in the last 5 blows divided by 5. For steam or diesel hammers, enter the penetration in the last 10 blows divided by 10.
(3) Indicate date of retap in date column (1 day delay min.). List only pile actually checked.
(4) Additional pile length to be authorized by the Engineer.

Total Welds: _____

Plan Length: 150.0 Feet

Extensions: 0.0 Feet

Total: 150.0 Feet

Welders Name: _____ Lab No.: _____ Exp. Date: _____

Remarks: _____

Inspector Date Project Engineer