Form 830210 9/06

Iowa Department of Transportation

LOG OF PILING DRIVEN BY FORMULA

Project No. BRM-4062(2)8N-57

County Linn

Design No. 1276

Contractor Lunda Construction Company

Iowa DOT Hammer No.

Gross Weight of Hammer **Effective Wt.**

Weight of Driving Parts 4850 lbs

Weight of Anvil 1600 lbs

Weight of Cap 2100 lbs **Cap No** 930

Weight of Pile 1764 lbs - 42' & 2226 lbs - 53'

Plan Pile Length 42'

Pile (Type and Size) Steel HP 10 x 42
(Wood, Steel or Concrete)

Hammer (Type & Model) Diesel Delmag D22
(Gravity or Diesel manufacturer and model)

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

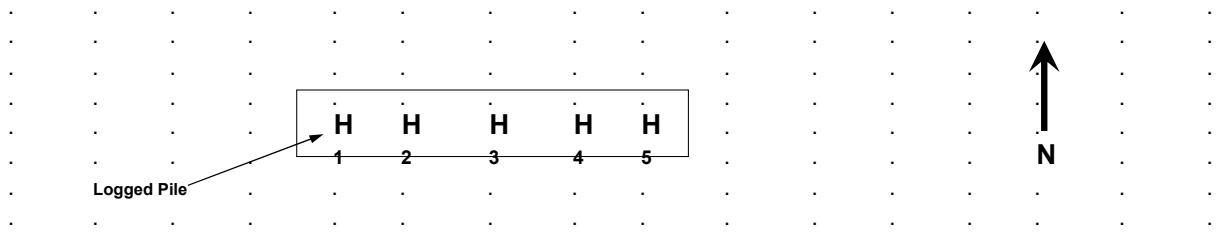
Station of Foundation C.L. 322+82

Formula Used (3E/ S+0.1) x (W/ W+M)

Plan Driving Resistance 35 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 numb 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 logge

Batter Piling _____ 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	Ram Rise (ft.)	(2) Ave. Penetration Last Blows (inches)	Driven Resistance (Tons)	PILE EXTENSIONS (4) Length Added (0.0 ft.)	Length Cutoff (0.0 ft.)	Ram Rise (ft.)	(2) Ave. Penetration Last Blows (inches)	Driven Resistance (Tons)	Welds (Count)
1	05/24/06	42	0.4	0.362	5.0	37.0										
2	05/24/06	42	0.0	0.650	5.0	20.5					11.0	0.2	6.0	0.379	41	1
3	05/24/06	42	0.0	0.675	4.5	19.9					11.0	0.4	6.0	0.379	41	1
4	05/24/06	42	0.0	0.725	4.5	18.7	05/25/06	5.0	0.510	28.0	11.0	0.3	6.0	0.416	38	1
5	05/24/06	42	0.0	0.750	4.5	18.1	05/25/06	5.0	0.450	31.0	11.0	0.4	6.0	0.391	40	1

(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: 4

Plan Length: 210.0 Feet
Extensions: 44.0 Feet
Total: 254.0 Feet

Welders Name: Leroy Riedesel Lab No.: ASB-393 Exp. Date: 12/31/07

Remarks:

Inspector Date Project Engineer