



# ENGLISH LOG OF PILING DRIVEN WITH WAVE EQUATION

**Project No.** Anybody's Guess

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

(Wood, Steel or Concrete)

**County** Someplace in Iowa

Design No. 389

**Hammer (Type & Model)** Delmag D-12  
( Gravity or Diesel manufacturer and model)

( Gravity or Diesel manufacturer and model)

**Contractor** Somebody Construction Co.

Driving Graph No. 40-306-01-755

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

( North abut, Pier 1, etc. )

Plan Driving Resistance 40 Tons

Station of Foundation C.L. 1336+88.40

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 copies, including driving graph, as outlined in the construction manual. Note on drawing which pile has been logged.

Batter Piling \_\_\_\_\_ in the direction shown.

The diagram shows a grid of 10 rows and 20 columns of dots representing a pile field. A horizontal rectangle highlights a row of five dots, labeled 1 through 5 below them. Each of these dots contains the letter 'H'. An arrow points from the text 'Logged pile' to the dot labeled 3. To the right of the grid, a vertical arrow points upwards, with the letter 'N' below it, indicating North is towards the top of the page.

[illegible]

Total Welds: 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) Indicate date of retap in date column ( 1 day delay min.). List only pile actually checked.
- (3) Additional pile length to be authorized by Construction Office.

Plan Length: 300.0 Feet

Extensions: 10.0 Feet

Welders Name: \_\_\_\_\_ Lab No.: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

Total: 310.0 Feet

Remarks: \_\_\_\_\_

Inspector

Date \_\_\_\_\_

Project Engineer



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( Gravity or Diesel manufacturer and model)

**Contractor** Somebody Construction Co.

Driving Graph No. 40-306-01-755

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

Plan Driving Resistance	40	Tons
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Station of Foundation C.L. 1336+88.40

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 copies, including driving graph, as outlined in the construction manual. Note on drawing which pile has been logged.

Batter Piling \_\_\_\_\_ in the direction shown.

The diagram shows a grid of 10 rows and 20 columns of dots representing a pile field. A horizontal rectangle is drawn around the 5th row, columns 3 to 7. Inside this rectangle, the letter 'H' is placed above the numbers 1, 2, 3, 4, and 5, which are positioned above columns 3, 4, 5, 6, and 7 respectively. An arrow points from the text 'Logged pile' to the 'H' above the number 3. To the right of the grid, a vertical arrow points upwards, with the letter 'N' below it, indicating North is towards the top of the page.

[illegible]

Total Welds: 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) Indicate date of retap in date column ( 1 day delay min.). List only pile actually checked.
- (3) Additional pile length to be authorized by Construction Office.

Plan Length: Feet

Extensions: \_\_\_\_\_ Feet

Welders Name:

Lab No.:

Exp. Date:

Total:                      Feet

Remarks:

Inspector

Date \_\_\_\_\_

Project Engineer



# Iowa Department of Transportation

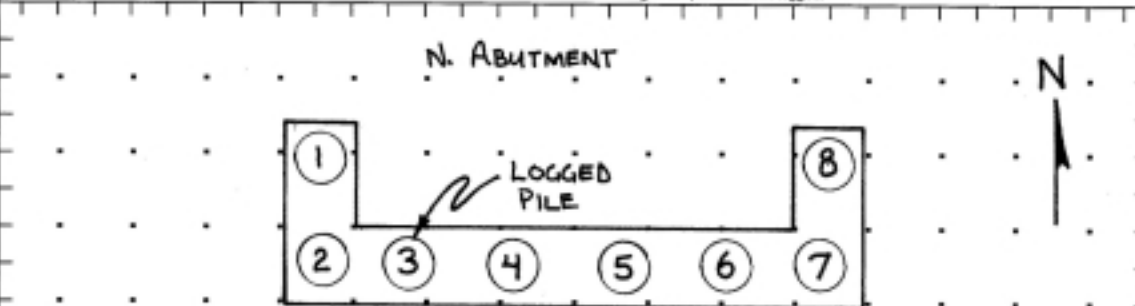
## ENGLISH LOG OF PILING DRIVEN WITH WAVE EQUATION

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Project No. ANYBODY'S GUESS  
 County SOMEPLACE IN IOWA  
 Design No. 389  
 Location of Foundation Centerline 1336+88.40  
 Location NORTH ABUTMENT  
 Contractor SOMEBODY CONS'T. CO.  
 Driving Graph No. 40-0389-1-755

Type of Piling HP 10 x 42  
(Wood, or Steel Size & Type, or Concrete Size & Type)  
 Hammer (Model & Type) DELMAG D12  
(Gravity or Other)  
 Plan Tip Elevation 1083 ft.  
 Plan Driving Resistance 40 tons  
 Observed Blows/Min. 49-50  
 Hammer Energy 22.5 ft.-kips.

Sketch foundation below. Locate each pile by circles with numbers therein. Note battered piles on sketch, and give the amount of batter. Place name and certificate number of welder below if welding was necessary. Forward copies as outlined in the construction manual. Note on drawing which pile has been logged.



Pile No.	Date Driven	Length in Leads Nearest Foot	Length Cutoff (ft. & in.)	Length in Structure (ft. & in.)	Blows per Foot	Rate Rise (ft.)	Driven Resistance (Tons)	RETAP ②				PILE EXTENSIONS③			WELDS (Count)
								Date	Rate Rise (ft.)	Blows per Foot	Driven Resistance (Tons)	Length Added (ft.)	Length Cutoff (ft. & in.)	in Structure (ft. & in.) ③	
1	X-XX-XX	60	—	—	33	5.0	31		5.0	35	33	10.0	3.0	67.0	1
2	)	60	0.0	60.0	35	5.0	33		5.5	40	46				OK - BY RETAP
3		60	0.0	60.0	40	5.0	42								
4		60	1.8	58.2	70	6.0	53								
5		60	2.6	57.4	74	6.0	54								
6		60	2.7	57.3	78	6.5	66								
7		60	5.0	54.2	80	6.5	68								
8	X-XX-XX	60	7.2	52.8	90	6.5	74								
		480	20.1	399.9											
+ 10 30 67.0		FROM EXTENSION													
TOTAL		490	23.1	466.9											
														FURNISH LENGTH	483.5'

LENGTH IN STRUCTURE 466.9'  
 CUTOFFS  $\leq 5'$  10.1'  
 (CUTOFFS  $> 5'$  (13.0' x 0.50) 6.5'

WELDER'S NAME -  
 LAB No. -  
 SDRS No. -  
 EXP. DATE -

① For test pile, give length in ground plus length in structure.  
 ② Indicate date of retap in data column (7 day delay min.). List only pile actually checked.  
 ③ Additional pile length to be authorized by Construction Office.

Welder's Name \_\_\_\_\_ Lab No. \_\_\_\_\_ Exp. Date \_\_\_\_\_

Remarks \_\_\_\_\_

Total Welds: 1  
 Length in Structure: \_\_\_\_\_ Feet  
 Cutoffs 5.0' & Under: \_\_\_\_\_ Feet  
 Cutoffs over 5.0' x 0.50: \_\_\_\_\_ Feet  
 Finished Length: \_\_\_\_\_ Feet

INSPECTOR &amp; DATE \_\_\_\_\_

PROJECT ENGINEER \_\_\_\_\_

NOTES: (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)