## PILE DRIVING REPORT

**MPF12**

### PILE HAMMER DATA

- **SINGLE ACTING (Power)**
- **DOUBLE ACTING (Power)**

**Make and Model:**

- **Max. Rated Energy** _______ (ft. lbs.)
- **Weight of Ram (piston)** _______ (lbs.)

### Type of Pile

(include shell wall thickness)

### REMARKS/REDRIVES

- **AUTH.**

### USE WITH MPF12

- **R_n = 20 \sqrt{\frac{W \times H}{1000} \times \log\left(\frac{10}{S}\right)}**

### PROJECT DESCRIPTION

- **Bridge No.:**
- **Location:**
- **County:**
- **Dist.:**
- **S.P. (or S.A.P.) No.:**

### SUBSTRUCTURE

- **Abutment N S E W**
- **Pier No. 1 2 3 4 or ________**

### DATE

<table>
<thead>
<tr>
<th>DATE DRIVEN</th>
<th>PILE NO.</th>
<th>LENGTH (L.F.)</th>
<th>ACTUAL</th>
<th>MnDOT CUT-OFFS (feet)</th>
<th>DISTANCE BELOW CUT-OFF (feet)</th>
<th>DROP OF HAMMER OR RAM (feet)</th>
<th>FINAL ENERGY PER BLOW (ft. lbs.)</th>
<th>PENET. PER BLOW (inches)</th>
<th>BEARING IN (tons)</th>
<th>NET DRVG. TIME (min.)</th>
<th>AUTH. SPLICE</th>
<th>MnDOT CUT-OFFS DRIVEN (feet)</th>
<th>REMARKS/REDRIVES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
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<td>12</td>
<td>13</td>
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</tr>
</tbody>
</table>

### SUMMARY

<table>
<thead>
<tr>
<th>PLAN NUMBER AND LENGTHS</th>
<th>SETUP PERCENT INCREASE</th>
<th>PILING DELIVERED (L.F.)</th>
<th>MnDOT CUT-OFFS DRIVEN (L.F.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRIDGE OFFICE RECOMMENDED NO. AND LENGTHS</td>
<td>PILING DRIVEN (L.F.)</td>
<td>NO. OF SPLICES</td>
<td></td>
</tr>
<tr>
<td>15. AVERAGE DRIVEN LENGTH (L.F.)</td>
<td>NO. OF REDRIVES</td>
<td>NO. OF PILE TIP PROTECTION</td>
<td></td>
</tr>
<tr>
<td>R_n (tons)</td>
<td>15. AVERAGE BEARING (tons)</td>
<td>TEST PILES (NUMBER AND LENGTH)</td>
<td></td>
</tr>
</tbody>
</table>

### INSPECTOR DURING DRIVING

<table>
<thead>
<tr>
<th>PROJ. ENGINEER'S SIGNATURE</th>
<th>DATE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHEET_______OF_______</td>
<td></td>
</tr>
</tbody>
</table>
INSTRUCTIONS FOR COMPLETING
PILE DRIVING REPORT

General:
Field measurements to be to the nearest 0.1 ft.

Pile Data:
(Numbers correspond with numbers on front of form)
1. DATE DRIVEN: Use date on which driving was completed for each pile.
2. PILE NO.: Show number assigned to each pile, usually the same as the driving sequence.
3. LENGTH (L.F.) in leads:
   Final Auth.: Use final length authorized for payment. Include any authorized test pile extension which exceeds
   the test pile plan length. (do not include State owned cutoffs used)
   Actual Total in Leads: Use the actual total length in leads used for final driving of the pile.
4. WEIGHT OF PILE (lbs.): Show computed weight to nearest ten pounds for actual total length in leads.
5. CUT-OFFS (feet):
   Actual: Actual length in leads less length below cut-off for each pile.
   MnDOT: Final authorized length in leads plus State owned cut-off placed in leads less length below cut-off for each pile.
6. DISTANCE BELOW CUT-OFF (feet): Actual length driven below cut-off.
7. FINAL ENERGY PER BLOW (ft. lbs.): Energy developed during final blows for computing final bearing. For single
   acting power-driven hammers, the energy per blow is equal to WH.
8. PENETRATION PER BLOW (inches): Calculate to three significant digits (1.25, 0.625 etc.) based on the last ten blows
   for power-driven hammers.
9. BEARING IN (tons): Show to the nearest ton.
10. NET DRIVING TIME (min.): Actual time hammer is in operation driving the pile.
11. AUTHORIZED SPLICES: Number of splices eligible for payment. (see Spec. 2452.5)
12. MnDOT CUT-OFF DRIVEN (feet): Length below cut-off less final authorized length.
13. REMARKS: Indicate depth of jetting or preboring and diameter of auger used, hit obstruction, butt splitting, sequence
   of lengths used to make up actual total length in leads, butt and tip diameters for timber piles, individual lengths of State
   owned cut-offs used, setup percent increase, etc.
   REDRIVES: Use date on which redriving was completed. Show bearing after redrive to the nearest ton.
14. OTHER REMARKS: To be used for other pertinent information.
15. AVERAGE DRIVEN LENGTH AND BEARING: Do not include test piles.

SHOW SKETCH BELOW
Show sketch indicating location of test pile. Show North arrow. Indicate test piles with prefix "T".
Indicate direction of batter with arrows and note amount of batter.

DISTRIBUTION:
State Projects:
Original: Bridge Const. & Maint. Engineer  (MS 610)
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