Minnesota Department of Transportation - Bridge Office

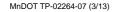


TEST PILE REPORT



(MPF12)

| D | PILE HAMMER DATA | | | | | | | | | | | SEE INSTRUCTIONS ON BACK SIDE PROJECT DESCRIPTION | | | | |
|--|-----------------------------|------------|--|-------------------------------|----------------------------|-------------|-------------|---------------------------|----------------------------------|-----------------------|----------------|--|----------|--|--|--|
| TYPE: | PILE DATA TEST PILE NO.: | | | | | BRIDGE NO.: | | | | | | | | | | |
| | | | | TEST PILE TYPE: SELECT A PILE | | | | | | S.P. (OR S.A.P.) NO.: | | | | | | |
| MAKE: | | | | SIZE: SELECT A S | | | | COUNTY: SELECT A COUNTY | | | | | | | | |
| | | | | LENGTH IN LEADS (FT): | | | | | DIST.: SELECT A DISTRICT | | | | | | | |
| MODEL: | | | | CUT-OFF ELEV. (FT): | | | | | | SUBS | TRUCTU | RE | | | | |
| WT. RAM (PISTON): (lbs.) | | | | | | | | | ABUTMENT: | | | | | | | |
| MAX. RATED ENERGY: (ft.lbs.) | | | | | | | | | PIER NO.: | | | | | | | |
| INSP BY: | | | | INSP. PHONE NO: | | | | | CONTRACTOR: | | | | | | | |
| | | | | | | | | | | | | | | | | |
| DISTANCE | DROP OF | ENERGY | BLC | OWS | PENET. | | DISTANCE | DROP OF | ENERGY | BLOWS | | PENET. | <u> </u> | | | |
| BELOW | HAMMER | PER | | PENET | PERET. | BEARING | BELOW | HAMMER | PER | | PENET | PER | BEARING | | | |
| CUT-OFF | OR RAM | BLOW | PER | IN LAST | BLOW | IN TONS | CUT-OFF | OR RAM | BLOW | PER | IN LAST | | IN TONS | | | |
| (feet) | (feet) | (ft. lbs.) | FOOT | 10 (inches) | (inches) | | (feet) | (feet) | (ft. lbs.) | FOOT | 10 (inches) | (inches) | | | | |
| | | | | (incres) | | | | | | | (Inches) | | | | | |
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| DATE: | | | | REMARK | S ON DRI | VING COND | ITIONS, PRE | -BORING, E | TC. (IDENTIFY | BY PENE | . DISTAN | CE.) | | | | |
| START DRIVING TIME: | | | | | SETUP INCREASE (%) | | | | | | | | | | | |
| END | DRIVING TIME: | | | | | | | - | | | | | | | | |
| | DOWN TIME: | | | 1 | | | | | | | | | | | | |
| TOTAL | DRIVING TIME: | | | <u> </u> | | | | | | | | | | | | |
| FORMULA USED $MPF12$ $R_n = 20 \times \sqrt{\frac{W \times H}{1000}} \times \log\left(\frac{10}{s}\right)$ | | | MPF12 R _n (tons) MIN. TIP ELEVATION | | | | | PDA R _n (tons) | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | 100 | 0 | | | | | | | | | | | | | |
| | INSPECTOR SIGNATURE | | | | PROJECT ENGINEER SIGNATURE | | | | BRIDGE OFFICE (Initial and Date) | | | | | | | |
| INSPECTOR | SIGNATURE | | | FROJEC | | ER SIGNAT | UKE | | DRIDGE OFFIC | E (Initial a | anu Dale) | | | | | |



INSTRUCTIONS FOR COMPLETING TEST PILE REPORT

<u>Pile Data:</u>

- 1. Select type of pile as CIP, H-Pile, Treated Timber, Precast Concrete, etc.
- 2. Show **Size** of pile; when using timber pile show butt and tip size to the nearest one-half inch. Be certain that diameters comply with the specifications. Butt diameters should be measured 3 feet from the butt end.
- 3. Length in Leads should be total length in leads in feet.
- 4. INSP. BY should be the pile driving inspector (print or type name).

Column Tabulation:

- 5. **ENERGY PER BLOW (ft. lbs.)** is equal to WH, for single acting power-driven hammers.
- 6. **PENET. PER BLOW (inches)** may be based on blows per foot or on a measured penetration for a given number of blows, and should be calculated in inches and decimals of inches.
- 7. **BEARING IN TONS** should be shown to the nearest ton.

SHOW SKETCH BELOW

Show sketch indicating location of test pile. Show North arrow.

DISTRIBUTION: <u>State Projects:</u> Original: MNDOT Bridge Const. & Maint. Engineer (MS 610) <u>County or Municipal Projects:</u> Original: County or Municipal Engineer <u>Railroad Projects:</u> Copy: Railroad Copy: Engineer