

Revised 8-14-52

WEEKLY REPORT

Project Alaska Forest Highway

For Week Ending October 24, 1953

Sect. 32-A2, Eyak Bridge

Percent Complete 42 Inc. Material Allowance

James H. Smith
Resident Engineer

Probable Date of
Completion June 30, 1954

Contractor: M. P. Munter Company

ENGINEERING:

One inspector full time. Resident Engineer and one additional man 1/4 time, inspecting pile driving operations, supervising construction and cross sectioning and re-cross sectioning borrow pits.

CONSTRUCTION:

Haul of ordinary borrow from pit at station 223 was completed at noon, October 19, 1953.

Rock excavation from rock cut at Western section is now being placed over fill slopes at west approach to bridge.

Driving of bent No. 4 on Eyak bridge was completed early in the week. Two false bents were driven and bent No. 5 was completed 4/10 go. at end of week.

Production of concrete aggregates was practically complete at end of week.

REMARKS:

Pile driving is progressing very slowly due to poor equipment, gravity hammer, and hard driving. Good penetration and excellent bearing is being obtained.

Weather has been generally bad, with heavy rain and some snow. heavy winds prevailed during several days.

U. S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
Division 10, Juneau, Alaska

Sheet No. 1 of 2

November 30, 1953

PILE RECORD

Highway Copper River Project No. A.F.H.P. 32-A2 Stream Eyak River
Structure No. 1 From Station 256754.02 To Station 259708.98
Res. Engr. J.H. Smith Type of Pile Creosoted Type of Hammer Drop
Wt. of Hammer 3,000 lbs. Drop or Stroke of Hammer 10 Ft. Blows per Minute 12

| File No. | *Plan Length Ft. | Actual Length Left in Place Ft. | Depth in Ground Ft. | **Penetration Per Blow Inches | Computed Pile Bearing Capacity Tons |
|------------|------------------------|---------------------------------|---------------------|-------------------------------|-------------------------------------|
| Bent No. 1 | Date Driven Oct. 3-7 | Pile Size 7"-13" | Design Load 21 Tons | | |
| A | 46 | 32.4 | 32.0 | To Refusal | 45 T. Plus |
| B | 46 | 35.8 | 35.3 | " " | " " " |
| C | 46 | 35.0 | 34.5 | " " | " " " |
| D | 46 | 28.7 | 28.2 | " " | " " " |
| E | 46 | 33.0 | 32.5 | " " | " " " |
| F | 46 | 25.6 | 25.0 | " " | " " " |
| Bent No. 2 | Date Driven Oct. 8-9 | Pile Size 7"-14" | Design Load 21 Tons | | |
| A | 49 | 35.0 | 18.0 | To Refusal | 45 T. Plus |
| B | 49 | 39.0 | 18.5 | " " | " " " |
| C | 49 | 31.7 | 16.2 | " " | " " " |
| D | 49 | 44.7 | 30.2 | " " | " " " |
| E | 49 | 27.5 | 13.7 | " " | " " " |
| F | 49 | 44.9 | 30.5 | " " | " " " |
| G | 49 | 44.8 | 29.8 | " " | " " " |
| Bent No. 3 | Date Driven Oct. 12-13 | Pile Size 7"-14" | Design Load 21 Tons | | |
| A | 50 | 40.8 | 21.8 | To Refusal | 45 T. Plus |
| B | 50 | 36.7 | 17.7 | " " | " " " |
| C | 50 | 42.5 | 23.0 | " " | " " " |
| D | 50 | 36.7 | 16.7 | " " | " " " |
| E | 50 | 39.6 | 19.6 | " " | " " " |
| F | 50 | 41.1 | 22.1 | " " | " " " |
| G | 50 | 34.9 | 15.9 | " " | " " " |
| Bent No. 4 | Date Driven Oct. 15-17 | Pile Size 7"-14" | Design Load 21 Tons | | |
| A | 51 | 40.8 | 19.8 | 0.125 | 26 Tons |
| B | 51 | 42.5 | 21.5 | 0.125 | 26 " |
| C | 51 | 41.5 | 20.5 | 0.125 | 26 " |
| D | 51 | 40.6 | 19.6 | To Refusal | 45 T. Plus |
| E | 51 | 38.8 | 17.8 | " " | 45 T. Plus |
| F | 51 | 46.0 | 24.0 | 0.125 | 26 Tons |
| G | 51 | 33.8 | 11.8 | To Refusal | 45 T. Plus |
| H | 51 | 39.2 | 17.2 | " " | 45 T. Plus |
| I | 51 | 38.2 | 16.2 | " " | 45 T. Plus |
| J | 51 | 40.6 | 18.6 | " " | 45 T. Plus |

REMARKS: Bent No. 1 driven thru fill. Penetration was 6 to 8 feet. into original ground.

*Length shown on plans or approved by Resident Engineer, including pile build ups.
**Average for last 5 blows of gravity hammer or last 20 blows of steam hammer.
NOTE: Forward three copies to District Office. District Office to forward two copies to Division Office.

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S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
Division 10, Juneau, Alaska

Sheet No. 2 of 2

November 30, 1953

PILE RECORD

Highway Copper River Project No. A.F.H.P. 32-A2 Stream Eyak River
Structure No. 1 From Station 256/54.02 To Station 259/08.98
Res.Engr. J.H.Smith Type of Pile Creosoted Type of Hammer Drop
Wt.of Hammer 3,000 lbs. Drop or Stroke of Hammer 10' Blows per Minute 12

| File No. | *Plan Length Ft. | Actual Length Left in Place Ft. | Depth in Ground Ft. | **Penetration Per Blow Inches | Computed Pile Bearing Capacity Tons |
|--|------------------|---------------------------------|---------------------|-------------------------------|-------------------------------------|
| Bent No. 5 Date Driven Oct. 22-23 Pile Size 7"-14" Design Load 21 Tons | | | | | |
| A | 51 | 36.4 | 15.4 | 0.125 | 26 Tons |
| B | 51 | 36.7 | 15.7 | " | " " |
| C | 51 | 42.2 | 21.2 | " | " " |
| D | 51 | 40.3 | 19.3 | " | " " |
| E | 51 | 37.4 | 16.4 | " | " " |
| F | 51 | 38.5 | 17.5 | " | " " |
| G | 51 | 39.8 | 18.8 | " | " " |
| H | 51 | 40.2 | 19.2 | " | " " |
| I | 51 | 42.2 | 21.2 | " | " " |
| J | 51 | 41.3 | 20.3 | " | " " |
| Bent No. 6 Date Driven Oct. 26-27 Pile Size 7"-14" Design Load 21 Tons | | | | | |
| A | 50 | 39.3 | 22.0 | 0.25 | 24 Tons |
| B | 50 | 40.2 | 22.5 | " | " " |
| C | 50 | 45.6 | 27.0 | " | " " |
| D | 50 | 40.6 | 22.0 | " | " " |
| E | 50 | 36.8 | 18.3 | 0.125 | 26 Tons |
| F | 50 | 40.6 | 22.0 | 0.25 | 24 " |
| G | 50 | 38.9 | 21.0 | 0.25 | 24 " |
| Bent No. 7 Date Driven Oct. 28-29 Pile Size 7"-14" Design Load 21 Tons | | | | | |
| A | 50 | 40.3 | 22.3 | 0.25 | 24 Tons |
| B | 50 | 46.1 | 27.1 | 0.25 | 24 " |
| C | 50 | 38.4 | 19.4 | 0.125 | 26 " |
| D | 50 | 37.2 | 18.2 | " | 26 " |
| E | 50 | 39.8 | 20.3 | " | 26 " |
| F | 50 | 42.1 | 23.1 | " | 26 " |
| G | 50 | 40.9 | 21.2 | " | 26 " |
| Bent No. 8 Date Driven Oct. 31 Pile Size 7"-14" Design Load 21 Tons | | | | | |
| A | 49 | 39.3 | 24.3 | 0.125 | 26 Tons |
| B | 49 | 40.2 | 24.7 | " | 26 Tons |
| C | 49 | 38.2 | 22.7 | " | 26 " |
| D | 49 | 35.2 | 19.7 | " | 26 " |
| E | 49 | 39.3 | 23.8 | 0.25 | 24 " |
| F | 49 | 40.7 | 25.2 | 0.125 | 26 " |
| G | 49 | 39.9 | 24.3 | 0.125 | 26 " |
| Bent No. 9 Date Driven Nov. 3 Pile Size 7"-14" Design Load 21 Tons | | | | | |
| A | 45 | 38.0 | 35.5 | 0.25 | 24 Tons |
| B | 45 | 35.9 | 33.2 | 0.125 | 26 " |
| C | 45 | 41.8 | 38.0 | 0.25 | 24 " |
| D | 45 | 41.1 | 37.5 | 0.25 | 24 " |
| E | 45 | 35.3 | 33.4 | 0.125 | 26 " |
| F | 45 | 33.1 | 30.3 | 0.125 | 26 " |

REMARKS: Bent No. 9 driven thru fill. Penetration was 19 to 26 feet into original ground.

Signed

J.H. Smith

Res.Engr.

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