



Professional Agreement Invoice and Progress Report

ITD 0771 (Rev. 01-17)

Idaho Transportation Department

itd.idaho.gov

This page must be filled out monthly by the Consultant and forwarded to the Agreement Administrator with the monthly invoice. If necessary, attach additional sheets for continuation.

| | | | |
|---|---------------------------|--|---|
| Key Number | Project Number ITD 266 | Project Name ITD Skid Resistance Pavement | Date 2/6/2018 |
| Agreement Administrator James Poorbaugh | | Progress Report Number KLK583-8 | Agreement Number UI-17-03 |
| Consultant's Name | | | Report/Billing Period (From and To) 1/1/18-1/31/18 |
| Prompt Payment To Subconsultant(s) Verified <input type="checkbox"/> Yes <input type="checkbox"/> No | | Authorization Number | Invoice Number No Invoice |
| Describe Work Accomplished During the Month (List Major Activities that were in progress during this period and estimate the remaining time for each.) - The team received inputs from all districts except D3 and D4 on the tentative list of sites for friction testing in 2018. Upon the request of ITD, we provided a list of sites for testing in all districts. - The team has finished analyzing the friction data collected in 2017. - The team has developed preliminary models for skid number at different speeds. The correlation between predicted and measured skid number is very good. - We are working on developing an Excel-based application that can utilize ITD friction data and the regression models to produce the skid number at 40 mph. | | | |
| Summarize Work Completed to Date (Milestones Completed and Dates) (List Major Activities that were completed, including completion dates.) The UI research team completed Task 1 (Literature Review) and identified the test sites for evaluation under Task 2. Some sites need to be finalized with the material engineers in D3 and D4. | | | |
| List Information Required from ITD to Avoid Delays The research team look forward to receiving inputs from D3 and D4 on the selected test sites for testing this year. | | | |
| List Changes in Scope or Complexity that Requires a Supplemental Agreement or Time Adjustments | | | |
| Printed Name Emad Kassem | | Title Principal Investigator | Consultant's Signature |

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Status Report **This page must be completed by the Agreement Administrator**

A completed status report must accompany all Agreement invoices recommended for payment. The requested percentage of progress measurements for this report/billing period are required.

| | | | |
|--|---------------------|-----------------------------------|-----------------------------------|
| Key Number | Program Number | Progress Report Number | Agreement Number |
| | | 8 | UI-17-03 |
| Agreement Time | Time Passed | Percent of Agreement Time Elapsed | Percent of Work Completed |
| 25 | 8 | 32.00% | 46% |
| Original Agreement Amount | Supplemental(s) | Current Agreement Amount | Payments (Including this Payment) |
| \$119,999.71 | \$ | \$119,999.71 | \$36,412.96 |
| Percent of Agreement Dollars Paid | | | |
| 30.35% | | | |
| Prompt Payment To Subconsultant(s) Verified | Fixed Fee | This Invoice | To Date |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | \$ | \$ | \$ |
| Negotiated | | | |
| If There is a Significant Variance Between the Percentages, Please Explain | | | |
| | | | |
| Consultant Invoice Number | This Payment Amount | | |
| No invoice | \$0.00 | | |
| Report Reviewed By | | | Review Date |
| | | | |

Consultant Performance **To Be Completed Monthly by the Agreement Administrator**

| | | |
|--|--|--|
| Work planned for this period was completed | Quality of work was completed satisfactory | Discussed performance with Consultant |
| <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Explain | | |
| | | |
| Performance: Describe the Consultants performance during this period | | |
| | | |

Progress Payment: I certify that the Agreement provisions have been reviewed, the invoice amount checked, progress is substantiated, significant material expenses have support documentation (receipts), and the costs billed are project related and represent the work accomplished. I hereby approve the progress estimate for payment.

Final Payment: I certify that all work under the terms of the Agreement has been satisfactorily completed, any capital assets acquired have been delivered or value received, an affidavit of indebtedness received, and the project reviewed or audited and costs verified for work performed. I hereby approve final payment under the Agreement.

| | | |
|-------------------------------------|------|---|
| Agreement Administrator's Signature | Date | Second (Independent) Reviewer's Signature |
| | | |

Distribution: DRI (Original) - Project File

Copy - Prime Consultant

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

| | | Yr 2017 | | | | | | | Yr 2018 | | | | | | | | | | | | Yr 2019 | | | | | |
|------------------------|---|---------|-----|------|-----|-----|-----|-----|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----|-----|-----|-----|-----|
| | | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
| Task 1 | Literature review | 25% | 50% | 100% | | | | | | | | | | | | | | | | | | | | | | |
| Task 2 | Identify and select pavement sites for evaluation | 15% | 30% | 40% | 50% | 65% | 70% | 85% | 100% | | | | | | | | | | | | | | | | | |
| Task 3 | Measure skid number at different speeds | 5% | 15% | 20% | 40% | 40% | 40% | 40% | 40% | | | | | | | | | | | | | | | | | |
| Task 4 | Measure the surface friction characteristics | 5% | 15% | 20% | 40% | 40% | 40% | 40% | 40% | | | | | | | | | | | | | | | | | |
| Task 5 | Analyze the collected data | | | | 10% | 20% | 25% | 30% | 40% | | | | | | | | | | | | | | | | | |
| Task 6 | Establish correlations at different speeds | | | | | | | | | | | | | | | | | | | | | | | | | |
| Task 7 | Prepare the Final report | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deliverable No. | | | | | 1 | | | 2 | | | | | | | | | | | | | | | | | | |