



# 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<br>ITD RP268                | Project Name<br>ITD Pavement ME Design                | Date<br>4/9/2019 |
| Agreement Administrator<br>Mike Santi   | Progress Report Number<br>EN1818-KLK585-19 | Agreement Number<br>UI-17-04                          |                  |
| Consultant's Name   |  | Report/Billing Period (From and To)<br>3/1/19-3/31/19 |                  |
| Prompt Payment To Subconsultant(s) Verified<br><input type="checkbox"/> Yes <input type="checkbox"/> No   | Authorization Number                       | Invoice Number<br>19                                  |                  |
| Describe Work Accomplished During the Month (List Major Activities that were in progress during this period and estimate the remaining time for each.)<br>Work progress during this month (March 2019) included:<br><ul style="list-style-type: none"> <li>- Completed the calibration of the faulting and transverse cracking models.</li> <li>- Review the calibration process with Stat consultant.</li> <li>- Working on the draft report.</li> </ul>   |  |   |                  |
| Summarize Work Completed to Date (Milestones Completed and Dates) (List Major Activities that were completed, including completion dates.)<br>Please refer to attached Gantt Chart.<br>Tasks #1, #2, #3 and #4 are completed.<br>Deliverables #1, #2 and #3 are submitted.<br>Work now is focused on Tasks #5 and #6 to develop the Idaho Calibration Factors.<br><br>Overall Work Progress is estimated by about 78%   |  |   |                  |
| List Information Required from ITD to Avoid Delays<br>This is just a Note. No action needed from ITD:<br>As mentioned in previous month, it is to be noted that the original Gantt chart indicates that Tasks 5 and 6 were scheduled to complete by Dec 2018 and Feb 2019 respectively. However there were earlier delays in the start of these two tasks due to lack of sites and data acquisition. Consequently, the two tasks were delayed and completion dates are extended about three months. Furthermore, the training workshop has been scheduled in July, 2019. ITD has authorized no cost time extension of the contract to end by August 31 rather than July 31 to allow for the final review after the workshop is held in July.<br>A modified Gantt chart is included. |  |   |                  |
| List Changes in Scope or Complexity that Requires a Supplemental Agreement or Time Adjustments  |  |   |                  |
| Printed Name<br>Fouad Bayomy  | Title<br>Principal Investigator            | Consultant's Signature                                |                  |

# Professional Agreement Invoice and Progress Report

ITD 0771 (Rev. 01-17)

Idaho Transportation Department

itd.idaho.gov

## 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<br>ITD RP268 | Progress Report Number<br>19                | Agreement Number<br>UI-17-04                      |
| Agreement Time<br>24 months   | Time Passed<br>19           | Percent of Agreement Time Elapsed<br>79.17% | Percent of Work Completed<br>78%                  |
| Original Agreement Amount<br>\$169,996.79   | Supplemental(s)<br>\$0.00   | Current Agreement Amount<br>\$169,996.79    | Payments (Including this Payment)<br>\$108,001.89 |
| Percent of Agreement Dollars Paid<br>63.54%   |                             |   |   |
| Prompt Payment To Subconsultant(s) Verified<br><input type="checkbox"/> Yes <input type="checkbox"/> No | <b>Fixed Fee</b>            | This Invoice<br>\$                          | To Date<br>\$                                     |
| Negotiated<br>\$  |                             |   |   |
| If There is a Significant Variance Between the Percentages, Please Explain                              |                             |   |   |
| Consultant Invoice Number<br>19   |                             | This Payment Amount<br>\$10,202.18          |   |
| Report Reviewed By  |                             |   | Review Date                                       |

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

|  |  |   |
|--|--|---|
| Work planned for this period was completed<br><input type="checkbox"/> Yes <input type="checkbox"/> No | Quality of work was completed satisfactory<br><input type="checkbox"/> Yes <input type="checkbox"/> No | Discussed performance with Consultant<br><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

## RP 268 (KLL 585)

### Calibration of the AASHTOWare Pavement ME Design Software for PCC Pavements in Idaho

| Task No             | Task Description  | Year          | 2018 |     |     |     |           |           |     |     |           |           |     |     | 2019      |           |     |     |           |     |           |     |     |     |           |     |
|---------------------|---|---------------|------|-----|-----|-----|-----------|-----------|-----|-----|-----------|-----------|-----|-----|-----------|-----------|-----|-----|-----------|-----|-----------|-----|-----|-----|-----------|-----|
|                     |   | Month         | Sep  | Oct | Nov | Dec | Jan       | Feb       | Mar | Apr | May       | Jun       | Jul | Aug | Sep       | Oct       | Nov | Dec | Jan       | Feb | Mar       | Apr | May | Jun | Jul       | Aug |
|                     |   | Elapsed Month | 1    | 2   | 3   | 4   | 5         | 6         | 7   | 8   | 9         | 10        | 11  | 12  | 13        | 14        | 15  | 16  | 17        | 18  | 19        | 20  | 21  | 22  | 22        | 24  |
| <b>Task 1</b>       | Review of the ME software distress prediction models for Rigid Pavements        |               | 20%  | 20% | 15% | 30% | 10%       |           |     |     |           |           |     |     |           |           |     |     |           |     |           |     |     |     |           |     |
| <b>Task 2</b>       | Evaluate the inputs required for the design of new rigid pavement systems       |               |      |     | 15% | 50% | 15%       | 5%        | 5%  |     | 5%        |           |     |     |           |           |     |     |           | 10% |           |     |     |     |           |     |
| <b>Task 3</b>       | Identify and select the pavement sections for the calibration                   |               |      |     |     |     | 15%       | 50%       | 10% | 5%  | 5%        | 5%        | 10% |     | 10%       | 5%        |     |     |           |     |           |     |     |     |           |     |
| <b>Task 4</b>       | Develop a performance database for the ME calibration for the selected sections |               |      |     |     |     |           |           | 5%  |     | 5%        | 15%       | 10% | 10% | 5%        |           | 30% | 20% |           |     |           |     |     |     |           |     |
| <b>Task 5</b>       | Run the software with the assembled database                                    |               |      |     |     |     |           |           |     |     |           | 5%        | 5%  | 10% | 20%       | 15%       | 5%  | 10% | 15%       | 10% | 5%        |     |     |     |           |     |
| <b>Task 6</b>       | Develop Idaho calibration factors   |               |      |     |     |     |           |           |     |     |           |           |     |     |           |           |     |     | 25%       | 25% | 25%       |     |     |     |           |     |
| <b>Task 7</b>       | Develop Implementation Guidelines and Training Workshop                         |               |      |     |     |     |           |           |     |     |           |           |     |     |           |           | 5%  |     | 5%        |     |           |     |     |     |           |     |
| <b>Task 8</b>       | <b>Final Report Preparation and Submittal</b>                                   |               |      |     |     |     |           |           |     |     |           |           |     |     |           |           |     |     |           |     |           |     |     |     |           |     |
| <b>a</b>            | Submit report outline to ITD for review   |               |      |     |     |     |           |           |     |     |           |           |     |     |           |           |     |     |           |     |           |     |     |     |           |     |
| <b>b</b>            | Meet with ITD Project Manager and Research Program Manager to discuss outline   |               |      |     |     |     |           |           |     |     |           |           |     |     |           |           |     |     |           |     |           |     |     |     |           |     |
| <b>c</b>            | Send draft to peer reviewer and make necessary changes                          |               |      |     |     |     |           |           |     |     |           |           |     |     |           |           |     |     |           |     |           |     |     |     |           |     |
| <b>d</b>            | Send draft to report editor and make necessary changes                          |               |      |     |     |     |           |           |     |     |           |           |     |     |           |           |     |     |           |     |           |     |     |     |           |     |
| <b>e</b>            | Submit draft of required output to ITD/FHWA for review                          |               |      |     |     |     |           |           |     |     |           |           |     |     |           |           |     |     |           |     |           |     |     |     |           |     |
| <b>f</b>            | ITD/FHWA review of draft completed (due 30 days after submission of draft)      |               |      |     |     |     |           |           |     |     |           |           |     |     |           |           |     |     |           |     |           |     |     |     |           |     |
| <b>g</b>            | Final output due to ITD (due 30 days after submission of review draft)          |               |      |     |     |     |           |           |     |     |           |           |     |     |           |           |     |     |           |     |           |     |     |     |           |     |
| <b>Deliverables</b> |   |               |      |     |     |     | <b>#1</b> | Submitted |     |     | <b>#2</b> | Submitted |     |     | <b>#3</b> | Submitted |     |     | <b>#4</b> |     | <b>#5</b> |     |     |     | <b>#6</b> |     |