



# 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 RP 235	Project Name ITD AASHTOWare Pavement ME Design	Date 11/7/17
Agreement Administrator Mike Santi	Progress Report Number KLK572-30	Agreement Number UI-15-04	
Consultant's Name		Report/Billing Period (From and To) 10/1/17-10/31/17	
Prompt Payment To Subconsultant(s) Verified <input type="checkbox"/> Yes <input type="checkbox"/> No	Authorization Number	Invoice Number Invoice 26	
Describe Work Accomplished During the Month (List Major Activities that were in progress during this period and estimate the remaining time for each.) Work during this month included: <ul style="list-style-type: none"> <li>- Continue calibration of the Thermal Cracking model</li> <li>- Continue working on the calibration of the longitudinal and Fatigue cracking models.</li> <li>- Conduct a progress meeting with ITD</li> <li>- Contact Dr. Linda Pierce to discuss research outcomes</li> </ul>			
Summarize Work Completed to Date (Milestones Completed and Dates) (List Major Activities that were completed, including completion dates.) Please refer to the attached Gantt Chart. Most of the project research work is close to complete. The teams now focuses on the calibration Task #7. Work progress so far is estimated by about 85% complete.			
List Information Required from ITD to Avoid Delays None			
List Changes in Scope or Complexity that Requires a Supplemental Agreement or Time Adjustments None			
Printed Name Fouad Bayomy	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
		30	UI-15-04
Agreement Time	Time Passed	Percent of Agreement Time Elapsed	Percent of Work Completed
36 months	30	83.34%	85%
Original Agreement Amount	Supplemental(s)	Current Agreement Amount	Payments (Including this Payment)
\$338,036.53	\$0.00	\$338,036.53	\$251,493.64
Percent of Agreement Dollars Paid			
74.40%			
Prompt Payment To Subconsultant(s) Verified	<b>Fixed Fee</b>	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		
Invoice 26	\$8,405.14		
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

**RP 235 (KLK 572)**

**Calibration of the AASHTOWare Pavement ME Design Performance Models for Flexible Pavements in Idaho - Time Schedule (Revised May 2016)**

Task No	Task Description	Year	2015												2016												2017												2018			
		Month	May	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	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr				
		Elapsed Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
Task 1	Review of the ME software distress prediction models for Flexible Pavements		5%	5%	5%	10%				15%	15%	20%								10%							3%	5%	2%													
Task 2	Evaluate the design inputs required for the ME Software					10%			10%	5%	20%	20%								10%						5%	5%	5%	5%													
Task 3	Identify and select the pavement sections for the calibration			5%	5%	5%	10%	10%													10%	5%	3%	5%	5%	17%	5%															
Task 4	Conduct Creep Compliance and IDT Testing			5%		5%	5%	5%	5%													2%	2%																			
Task 5	Develop a performance database for the ME calibration for the selected sections																																									
Task 6	Run the software with the assembled database																																									
Task 7	Development and Validation of Idaho calibration factors																																									
Task 8	Summary of findings and recommendations																																									
Task 9	Prepare and conduct training workshop																																									
Task 10	<b>Final Report</b>																																									
a	Submit Outline for ITD to Review																																									
b	Meet ITD to discuss outline																																									
c	Prepare report and send draft to peer reviewer																																									
d	Send draft to report editor																																									
e	Submit draft of required output																																									
f	ITD / FHWA Review																																									
g	Final Report due to ITD																																									

Indicates Submittal # to ITD