



# 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 RP268	Project Name ITD Pavement ME Design	Date 6/6/2018
Agreement Administrator	Progress Report Number KLK585-9	Agreement Number UI-17-04	
Consultant's Name		Report/Billing Period (From and To) 5/1/18-45/31/18	
Prompt Payment To Subconsultant(s) Verified <input type="checkbox"/> Yes <input type="checkbox"/> No	Authorization Number	Invoice Number 9	
Describe Work Accomplished During the Month (List Major Activities that were in progress during this period and estimate the remaining time for each.) Work progress during this month (May 2018) included: - For CRCP, we identified seven sections from LTPP database. Six sections in Oregon and one in Idaho. Data of these seven sections are collected and used to run the ME software. Performance data of punch-out distress were reported to be almost non-existent in all sections, leading to our inability to calibrate the punch-out distress model. - For the JPCP, we identified 20 sections (Two in Idaho, 7 in Washington, 7 in Utah, 1 in Wyoming, and 3 in Nevada). Data are gathered for ME inputs, and analysis is in progress.			
Summarize Work Completed to Date (Milestones Completed and Dates) (List Major Activities that were completed, including completion dates.) Please refer to Gantt Chart. Tasks #1 and #2 are almost completed. Deliverable #1 was submitted. Deliverable #2 is attached to this report. It is to be noted that Deliverable #2 should have included all work of Task #3, but the task work is only 85% complete due to lack of data from TAMS. Work Progress is estimated by about 25%			
List Information Required from ITD to Avoid Delays Needs: We need to meet with the asset management team to agree on how the TAMS data can be reconciled for the ME software, especially for faulting data. We also need to identify more pavement sites and obtain cracking and faulting data for Idaho sites.			
List Changes in Scope or Complexity that Requires a Supplemental Agreement or Time Adjustments			
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 ITD RP268	Progress Report Number 9	Agreement Number UI-17-04
Agreement Time 23 months	Time Passed 9	Percent of Agreement Time Elapsed 39.13%	Percent of Work Completed 25%
Original Agreement Amount \$169,996.79	Supplemental(s) \$0.00	Current Agreement Amount \$169,996.79	Payments (Including this Payment) \$19,558.84
Percent of Agreement Dollars Paid 11.51%			
Prompt Payment To Subconsultant(s) Verified <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Fixed Fee</b>	This Invoice \$	To Date \$
Negotiated \$			
If There is a Significant Variance Between the Percentages, Please Explain			
Consultant Invoice Number 9		This Payment Amount \$911.05	
Report Reviewed By			Review Date

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

Work planned for this period was completed <input type="checkbox"/> Yes <input type="checkbox"/> No	Quality of work was completed satisfactory <input type="checkbox"/> Yes <input type="checkbox"/> No	Discussed performance with Consultant <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
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## RP 268 (KLK 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		
		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		
<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%																	
<b>Task 3</b>	Identify and select the pavement sections for the calibration						15%	50%	10%	5%	5%																
<b>Task 4</b>	Develop a performance database for the ME calibration for the selected sections								5%	5%																	
<b>Task 5</b>	Run the software with the assembled database																										
<b>Task 6</b>	Develop Idaho calibration factors																										
<b>Task 7</b>	Develop Implementation Guidelines and Training Workshop																										
<b>Task 8</b>	Final Report Preparation and Submittal																										
<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>					<b>#4</b>				<b>#5</b>	<b>#6</b>