Professional Agreement Invoice and Progress Report

Idaho Transportation Department

ITD 0771 (Rev. 01-17)

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		Project Name		Date
	ITD RP 235		ITD AASHTOWare Pavement ME Design		6/19/17

Agreement Administrator	Progress Report Number	Agreement Number
Ned Parrish	KLK572-26-A	UI-15-04

Consultant's Name	Report/Billing Period (From and To)
	5/1/17-6/19/17

Prompt Payment To Subconsultant(s) Verified	Authorization Number	Invoice Number
☐ Yes ☐ No		Invoice 21-A

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 the first half of June 2017 included:
- Continue working on the calibration of Fatigue models.
- Complete the analysis of cracking data using Video Log Files for seven projects from D1.
- Statistical evaluation of the calibrated rutting models. Results show that the developed factors have least bias. More trial runs will be made to improve precision.
- Creep compliance and IDT testing of two more mixes is completed. Still two more mixes to be tested to complete Task 4 of the project.

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.
As reported last month, Tasks 1 through 4 are almost complete. Major work is now focused on Tasks 5, which involves analysis of cracking data from Video Files.

Work progress so far is estimated by about 73% complete..

List Information Required from ITD to Avoid Delays

None at this time

List Changes in Scope or Complexity that Requires a Supplemental Agreement or Time Adjustments

None at this time

Printed Name	Title	Consultant's Signature
Fouad Bayomy	Principal Investigator	

Distribution: DRI (Original) - Project File   Copy - Prime Consultant

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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
				26-A	UI-15-04

Agreement Time	Time Passed		Percent of Agreement Time Elapsed	Percent of Work Completed
36 months	26		72.23%	73%

Original Agreement Amount	Supplemental(s)	Current Agreement Amount	Payments (Including this Payment)	Percent of Agreement Dollars Paid
$338,036.53	$0.00	$338,036.53	$182,539.02	54.00%

Prompt Payment To Subconsultant(s) Verified ☐ Yes ☐ No	**Fixed Fee**	This Invoice $	To Date $	Negotiated $

If There is a Significant Variance Between the Percentages, Please Explain

Consultant Invoice Number	This Payment Amount
Invoice 21-A	$12,277.23

Report Reviewed By	Review Date

Consultant Performance   To Be Completed Monthly by the Agreement Administrator

Work planned for this period was completed ☐ Yes ☐ No	Quality of work was completed satisfactory ☐ Yes ☐ No	Discussed performance with Consultant ☐ Yes ☐ 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 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	2015 May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2016 Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2017 Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2018 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%				5%				3%											
Task 2	Evaluate the design inputs required for the ME Software				10%			10%	5%	20%	20%		10%(green)	10%	5%			10%							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%		This T	10%	5%			5%	5%		5%											
Task 4	Conduct Creep Compliance and IDT Testing		5%		5%	5%	5%	5%		5%		2%	2%		15%	20%	25%		2%	5%			2%	2%	2%	2%	5%	Submittal #4 Postponed to end of summer 2017									
Task 5	Develop a performance database for the ME calibration for the selected sections														7%	10%	25%		10%	15%		8%	5%	5%	5%	2%	5%	Submittal #5 Postponed to end of summer 2017									
Task 6	Run the software with the assembled database																	25%	5%	5%	5%	10%	15%	5%	5%	5%				6							
Task 7	Development and Validation of Idaho calibration factors																	10%				5%	5%	5%	5%	15%				7							
Task 8	Summary of findings and recommendations																													8							
Task 9	Prepare and conduct training workshop																														9						
Task 10	Final Report																																				
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																																				10

▮ = Indicates Submittal # to ITD (green)