ITD 0771 (Rev. 10-06) itd.idaho.gov

### **Professional Agreement Invoice and Progress Report**



Idaho Transportation Department

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	Due in at Nivershau			Dusingst Names	Dete						
Key Number	Project Number			Project Name		Date					
	ITD RP 235			ITD AASHTOWare Pavem	ient ME Design	3/6/2017					
Agreement Adminis	strator		Progress Re	port Number	Agreement Number	per					
Ned Parrish			KLK572-2	2	UI-15-04						
Consultant					Report/Billing Period (From and To)						
					2/1/17-2/28/17						
Certification of Pay	ment Submitted	Certification Date	PSAI	Number							
		Continoution Buto	0, ( )	Nambor							
_					Invoice 16						
•	•	•									
	•	,									
			nodels for t	ne HMA and unbound layer	s. We run the initial	calibration values					
•	•		d total								
•	•		•								
			•	•							
•	•										
- Installed signa	al conditioner a	nd LVDT's for MTS te	sting syste	m, and keep updating Litera	ature review.						
Summary of Work	Completed to Date	(Milestones Completed an	d Dates)								
-			•								
So far, we have	done several	trials on calibration us	ing data fro	om some projects from Dist	ricts 1, 2 and 3, Tear	m is actively					
procuring proje	cts from ITD di										
<ul> <li>Using the sensitivity analysis to make trial runs for the fatigue-cracking model.</li> <li>Recruited an additional project from D6. Expecting 4 more projects from D6.</li> <li>Meeting at ITD to acquire Video data files for Performance data.</li> <li>Installed signal conditioner and LVDT's for MTS testing system, and keep updating Literature review.</li> <li>Summary of Work Completed to Date (Milestones Completed and Dates)</li> <li>Please refer to the attached Gantt Chart.</li> <li>So far, we have done several trials on calibration using data from some projects from Districts 1, 2 and 3. Team is actively procuring projects from ITD districts. Material Testing System (MTS) machine is ready to resume testing for IDT and Creep Compliance Tests.</li> <li>Work completed is estimated by about 62%</li> <li>Information Required from ITD to Avoid Delays</li> <li>Asset management team and the profiler crew at ITD are working with the UI project team to procure video files of performance data. Timely help is greatly appreciated.</li> </ul>											
-		*									
			D are work	ing with the UI project team	to procure video file	es of performance					
data. Timely ne	ip is greatiy ap	preciated.									
Certification of Payment Submitted   Certification Date   PSA Number   Invoice Number   Invoice Number   Invoice 18											
List Changes in Sc	one or Complexity	Requiring a Supplemental	Agreement or	· Time Adjustments							
gee ee	ope or complement		g	· ·····o · · · · · · · · · · · · · · ·							
Consultant's Signa	ture			Printed Name and Title							
				Fouad Bayomy, Principa	I Investigator						
Consultant's Signature  Printed Name and Title  Fouad Bayomy, Principal Investigator											

ITD 0771 (Rev. 10-06) itd.idaho.gov

## **Professional Agreement Invoice and Progress Report**

Idaho Transportation Department

	This pa	ge must b	e filled out	by the	Agreement	Administrator.
--	---------	-----------	--------------	--------	-----------	----------------

Ney Mullibei	ey Number Program (Work Authority) Progress Report Number Agreement Number												
1	Program (wo	K Authority)	22	кероп минье			JI-15-04	IUIIIDEI					
Description of Dr.			22					o down Data					
Report Reviewed By							Ke	eview Date					
The Following was Initi	-+04												
The Following was min	ateu												
Status Danart													
Status Report		<sup>4</sup> > = = = = = = = = = = = = = = = = = =	-11 A groo			de d for po	The	avected nero					
A completed status measurements of p					recomm	iended for pa	yment. The	requested perce	entage				
Agreement Time		•	•		largant of A	Agreement Time	Elapsod Da	rcent of Work Comp	lotod				
						1.12%	Elapseu   Fe	62%	ieteu				
36 months	ent Agreement Am		yments (Including	r this Dovernort	ent Dollars Paid								
				•			j this Payment)						
\$338,036.53	\$0.00			8,036.53		46,430.05	To Data		43.32%				
Certification of Paymer		Certification Date	Э	Fixed Fee	This Invo		To Date	Negotiat	ea				
Yes No					\$		\$	\$					
If There is a Significant	Variance Bet	veen the Percen	tages, Pleas	se Explain									
1													
				Ten.									
Consultant Invoice Nur	nber				Payment A	Amount							
Consultant Invoice Nur Invoice 18	nber				Payment <i>A</i> ,292.87	Amount							
Invoice 18				\$12	,292.87				-1d				
Invoice 18  Progress Pa	nyment:			\$12	,292.87 ns have	been review		vice amount che					
Invoice 18  Progress Paprogress is su	nyment: I	d, significant	material	\$12, ment provision expenses hav	,292.87 ns have ve suppo	been review	tation (recei	ipts), and the co	sts billed are				
Invoice 18  Progress Paprogress is su	nyment: I	d, significant	material	\$12, ment provision expenses hav	,292.87 ns have ve suppo	been review	tation (recei		sts billed are				
Progress Pa progress is su project related	ayment: I ubstantiated d and repre	d, significant esent the wor	material k accomp	ment provision expenses hav plished. I her	,292.87 ns have ve suppo eby app	been review ort document rove the pro	tation (receingress estim	ipts), and the co	sts billed are				
Progress Pa progress is su project related  Final Payme assets acquir	ayment: I ubstantiated and represent: I certifyed have be	d, significant esent the work that all worken delivered	material rk accomposed with a composed with a	ment provision expenses have plished. I here he terms of the received, an	ns have ve supporteby app	been review ort document rove the pro- ment has been	tation (receingress estiments)  an satisfactoness receive	ipts), and the co ate for payment rily completed, a ed, and the proje	sts billed are . any capital				
Progress Pa progress is su project related  Final Payme	ayment: I ubstantiated and represent: I certifyed have be	d, significant esent the work that all worken delivered	material rk accomposed with a composed with a	ment provision expenses have plished. I here he terms of the received, an	ns have ve supporteby app	been review ort document rove the pro- ment has been	tation (receingress estiments)  an satisfactoness receive	ipts), and the co ate for payment rily completed, a ed, and the proje	sts billed are any capital				
Progress Pa progress is su project related  Final Payme assets acquir	ayment: I ubstantiated and represent: I certified have been decosts ver	d, significant esent the work that all worken delivered	material rk accomp c under the l or value c performe	ment provision expenses have plished. I here he terms of the received, an	ns have ve supporteby app	been review ort document rove the pro- ment has been of indebtedra final paymen	tation (receingress estiments at satisfacton ess receivent under the	ipts), and the co ate for payment rily completed, a ed, and the proje	sts billed are any capital				

#### KLK572\_PR#22\_Feb 2017

## **RP 235 (KLK 572)**

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

		Year ## 2016 2017										2018														
Task No	Task Description	Month	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Ар
		Elapsed Month	1	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
ock 1 l	Review of the ME software distress prediction models for Flexible Pavements						10%				5%															
יסבור כי	Evaluate the design inputs required for the ME Software Identify and select the pavement sections for the calibration			5%			10%																			
ock 3 l				17%	5%		This 1	10%	5%			5%														
ask 4	Conduct Creep Compliance a	nd IDT Testing		15%	20%	25%			2%	5%		2%				4										
ack E	Develop a performance datab calibration for the selected se			7%	10%	25%			10%	15%	8%	5%				5										
ask 6	Run the software with the ass database	sembled					25%	5%	5%	5%	10%	15%							6							
'ack 7	Development and Validation calibration factors	of Idaho					10%				5%	5%							7							
ask 8	Summary of findings and reco	ommendations																	8							
ask 9	Prepare and conduct training	workshop																		9						
ask 10									Fir	al Re	port															
а	Submit Outline for ITD to Rev	iew																								
a	Meet ITD to discuss outline																									
С	Prepare report and send draf reviewer	t to peer																								
d	Send draft to report editor																									
e	Submit draft of required outp	out																								
f	ITD / FHWA Review																									
g	Final Report due to ITD																									10
J	Final Report due to ITD  Indicates Submittal # to ITD																									