STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

ADDENDUM NO. 1

FOR

Kula Highway Pavement Preventive Maintenance Thompson Road towards Ulupalakua

PROJECT NO. 37E-01-12M

DISTRICT OF MAKAWAO

ISLAND OF MAUL

FY 2012

Amend the bid documents as follows:

A. NOTICE TO BIDDERS

1. Revise the third paragraph on page NB-1 to read as follows:

"The project includes cold planning, reconstruction weakened pavement areas, resurfacing of existing pavement, striping and installing pavement markings and signing, application of longitudinal joint stabilizer and adjusting survey monuments. Estimated construction cost is \$ 1 million and \$ 5 million."

B. TABLE OF CONTENTS

1. Replace entire TOC dated 8/22/11 with the attached TOC dated r3/12/12.

C. PROPOSAL SCHEDULE

1. Replace page P-10 thru P-12 dated 12/1/11 with the attached page P-10 thru P-12 dated r3/12/12

D. SPECIFICATIONS

1. Add pages 412-1a thru 412-4a dated 3/16/12

E. PLANS

1. Replace Plan Sheet No.7 with attached Plan Sheet No. ADD 7.

E. PRE-BID MEETING

- 1. Sign-in sheet (attached)
- 2 .Meeting minutes (attached)

Please acknowledge receipt of this Addendum No.1 by recording the date of its receipt in the space provided on Page P-4 of the Proposal.

GLENN M. OKIMOTO, Ph.D. Director of Transportation

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Notice to Bidders

Instructions for Contractor's Licensing

Special Provisions Title Page

Special Provisions

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- W	DIVISION 600 - INCIDENTAL CONSTRUCTION		
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Sample Form Title Page

Contract

Performance Bond (Surety)

Performance Bond

Labor and Material Payment Bond (Surety)

Labor and Material Payment Bond

Chapter 104, HRS Compliance Certificate

Certification of Compliance for Final Payment

Certification of Compliance for Employment of State Residents

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37E-01-12M

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(Addendum No. 1)

r3/12/12

TEM NO.					
	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
209.1000 Inst	Installation, Maintenance, Monitoring, and Removal of BMP	L.S.	L.S.	L.S.	\$
209.2000 Adc	Additional Water Pollution, Dust, and Erosion Control	F.A.	F.A.	F.A.	\$ 5,000.00
312.0100 Hot	Hot Mix Glassphalt Base Course	100	Tons	€	\$
401.0100 Hot	Hot Mix Asphalt (HMA) Pavement, Mix No. IV	4,827	Tons	σ.	\$
412.0100 Lon	Longitudinal Joint Stabilizer	43,296	Sq. Ft.	Ф.	\$
414.0100 Exc	Excavation of Weakened Pavement	45	C.Y.	\$	<u>ө</u>
415.0100 Col	Cold Planing	Ľ.S.	L.S.	L.S.	6
613.0100 Adji	Adjusting Reference Survey Monument	γ	Each	\$	₩
629.1010 4-1	4 - Inch Pavement Striping (Tape, Type II or Thermo- plastic Extrusion) White	L.S. ·	Ľ.S.	s. L.S.	€
629.1012 12.	12 - Inch Pavement Striping (Tape, Type II or Thermo- plastic Extrusion) White	L.S.	L.S.	F.	₩
629.1013 4-	4 - Inch Double Solid Yellow Pavement Striping (Tape, Type I or Thermoplastic Extrusion)	L.S.	L.S.	r.S.	₩
629.2010 Typ	Type "C" Pavement Marker	L.S.	L.S.	L.S.	\$
629.2020 Typ	Type "D" Pavement Marker	L.S.	L.S.	L.S.	\$

Addendum No. 1

Addendum No. 1

	PROPC	PROPOSAL SCHEDULE	EDULE			
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT	AMOUNT	
643.0100	Maintenance of Existing Landscaped Areas	F.A.	F.A.	F.A.	\$ 32,000.00	
645.0200	Traffic Control	L.S.	L.S.	ËS	, €Φ	
645.2100	Additional Police Officers, Additional Traffic Control Devices, And Advertisement	F.A.	Ä.Ä.	F.A.	\$ 20,000.00	
648.0100	Field-Posted Drawings	L.S.	L.S.	L.S.	φ.	
696.0000	Field Office Trailer (Not to Exceed \$32,000.00)	L.S.	Ľ.S.	S. S.	€	
696.2000	Maintenance of Trailers	F,A.	F.A.	F.A.	\$ 10,000.00	
699.1000	Mobilization (Not to exceed 6% of the Sum of all items excluding the bid price of this item)	S.	S. Li	L.S.	ь	
	Sum of All Items				€	
	NOTE: Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid.	e to do so may	be grounds for 1	ejection of bid.		

Addendum No. 1

1 2 3

"SECTION 412 - LONGITUDINAL JOINT STABILIZATION

4 5

412.01 Description. This work includes furnishing and placing longitudinal joint stabilizer on hot mix asphalt concrete pavements.

6 7 8

412.02 Material. The longitudinal joint stabilizer shall meet the following:

9 10

11

The longitudinal joint stabilizer shall be polymerized cationic emulsion composed of a maltene petroleum resin oil base and SBR co-polymer uniformly emulsified with water.

12 13

13				
14	<u>Emulsion</u>	Test Method	Requireme	
.15	1		Min	Max
16	Residue, % W ¹	ASTM D 244 (Mod)	39	44
17	Miscibility ²	ASTM D 244 (Mod)	No Coagula	ation
18	Particle Charge	ASTM D 244	Positive	
19				
20	Residue from Distillation			
21	Flash Point, COC °C	ASTM D 92	200	-
22	Viscosity @ 60°C, cSt	ASTM D 445	100	200
23	Asphaltenes, %w	ASTM D 2006-70	-	1.00
24	Maltene Dist. Ratio	ASTM D 2006-70	0.2	8.0
25	_			
26	<u>PC + A₁⁵</u> S + A ₂			
27	$S + A_2$			
28	5			
29	PC/S Ratio ⁵	D 2006-70	0.5	-
30	Saturated Hydrocarbons, S	S° D 2006-70	21	28
31				
32	<u>Polymer</u>			
33	Charge		Positive	
34	Monomer Ratio, Butadiene	•	76/24	
35	Solids Content, percent by	63		
36	Coagulum on 80 mesh scr			
37	Maximum percent b		0.1	
38	Mooney Viscosity of Polym			
39	(ML 4 @ 212°F) mir	nimum	100	
40	pH of Polymer		5.0	
41	Weight per gallon			
42	Wet pounds @ 63%	solids content	7.94	
43				

43 44

46 47 48

45

¹ ASTM D 244 Evaporation test for percent of residue is made by heating 100 gram sample to 149°C (300°F) until foaming ceases, then cool immediately and calculate results.

² Test procedure identical with ASTM D 244 except that .02 Normal Calcium

49	Chlorid	e solution shall be used in place of distilled water.
50 51 52 53	PC = P	nical composition by ASTM D 2006-70 colar Compounds $A_1 = First \ Acidaffins$ $A_2 = Second \ Acidaffins$ turated Hydrocarbons
54 55 56	Submit certi substantiatir	ficate of compliance for longitudinal joint stabilizer accompanied by ag test data.
57 58	412.03 C	onstruction.
59 60 61 62 63 64 65 66	detern the control absorting withing typicathe	Test Strip. Prior to production, spread longitudinal joint stabilizer at us application rates between 0.07 to 0.25 gallons per square yard to mine the rate of application where the longitudinal joint stabilizer has capability to fully penetrate the asphalt pavement surface and be bed within 30 minutes of application. No surface coating shall remain a 30 minutes of application. Apply longitudinal joint stabilizer under all project environmental conditions at a test strip location determined by Engineer. Manufacturer's representative shall be present for minutes of application rate.
68 69		mination of application rate.
70 71	(B) not be	Weather Limitations. Application of longitudinal joint stabilizer will e allowed under the following conditions:
72 73 74		(1) On wet surfaces, as determined by the Engineer.
75		(2) When <u>surface</u> temperature is below 40 degrees Fahrenheit.
76 77 78		(3) When weather conditions prevent proper method of construction.
79 80	(C)	Equipment.
81 82 83 84		(1) General. Keep equipment, tools, and machinery clean and maintained in satisfactory condition.
85 86 87 88 89 90 91 92		(2) Longitudinal Joint Stabilizer Application Equipment. Use a self-propelled distributor truck with pneumatic tires or other approved applicator to spread the longitudinal joint stabilizer. The distributor truck or applicator shall be designed and equipped to distribute the longitudinal joint stabilizer uniformly on variable widths of surface at readily determined and controlled rates from 0.07 to 0.25 gallons per square yard of surface. Variation from any specified rate shall not exceed five percent.
94 95 96		Distributor truck or applicator shall include full circulation spray bars, pump tachometer, volume measuring device and a hand hose attachment suitable for applying longitudinal joint stabilizer manually

97	to cover areas inaccessible to the distributor. The application of the
98	longitudinal joint stabilizer shall be controlled by a computerized
99	control system that maintains a constant application rate regardless of
100	the forward speed of the distributor unit. The distributor truck or
101	applicator shall be equipped to circulate and agitate the joint stabilizer
102	within the tank.
103	
104	Check distributor equipment, accuracy of application rate and
105	distribution uniformity when directed by the Engineer.
106	
107	(3) Sand Application Equipment. Use a truck equipped with a
108	spreader that allows the sand to be uniformly distributed on the
109	pavement. The spreader shall be adjustable so as to accommodate
110	various treatment widths.
111	
. – – 112	(D) Application of Longitudinal Joint Stabilizer. Whenever practical,
113	apply the longitudinal joint stabilizer within 24 hours of completion of the
114	pavement section and before the pavement is opened to traffic. Apply the
115	longitudinal joint stabilizer at the temperature recommended by the
116	manufacturer and at the pressure required for proper distribution so all points
117	of the area to be treated receive uniform distribution. Commence distribution
118	with a running start to ensure full rate of spread over the entire area to be
119	treated. Areas inaccessible to the distributor or inadvertently missed shall
120	receive additional treatment by hand sprayer application.
121	receive additional treatment by hand sprayer application.
122	Grades or super elevations that may cause excessive runoff shall have the
123	required amounts of longitudinal joint stabilizer applied in two applications.
124	Where more than one application is to be made, apply succeeding
125	applications as directed by the Engineer once penetration of the preceding
126	application is complete.
127	application is complete.
128	(E) Application of Sand. If a significant amount of longitudinal joint
129	stabilizer residue remains on the surface of the treated area after a 30
130	minute period or if blotting of misapplied joint stabilizer is required, apply a
131	light coating of dry sand to the surface. Sweep and remove sand prior to
132	opening the area to traffic.
133	opening the area to trainc.
134	412.04 Measurement. The Engineer will measure longitudinal joint stabilizer
	per square foot in accordance with the contract documents.
135 136	per square root in accordance with the contract documents.
	412.05 Payment. The Engineer will pay for the accepted longitudinal joint
137	
138	stabilizer at the contract unit price basis, as shown in the proposal schedule.
139	Payment will be full compensation for the work prescribed in this section and the contract documents.
140	contract documents.
141	The Engineer will now for the following now item when included in the
142	The Engineer will pay for the following pay item when included in the
143	proposal schedule:

143 144

Pay Unit	Pay Item	145	
·		146	
Square Foot	Longitudinal Joint Stabilizer	147	
		148	
The Engineer will pay 100 percent of the contract bid price upon completio			
on."	of the longitudinal joint stabilizer a	150	
		151	
		152	
	•	153	
		154	
		155	
CTION 412	END (156	

Minutes of Pre-bid Meeting

Project: Kula Highway Pavement Preventive Maintenance Thompson Road Thompson Road towards Ulupalakua

Project No. 37E-01-12M

1. Pre-Bid meeting was held on March 12, 2012 at 11:00 AM at the Maui District Conference Room at 650 Palapala Drive, Kahului. The participants were:

Alejandro Reboron – DOT Crisanto Ragasa – DOT David Ortega – Maui Paving Brett Ueno – Maui Master Builders Imelda Mawae – JMPaving

- 2. Scope of work was discussed and then opened floor for discussions.
- 3. Informed the contractors that there will be an additional item in the proposal and a typical section will be added in the project plans for "Longitudinal JointStabilizer". This will be included in Addendum No.1
- 4. Meeting was adjourned @ 11:15 AM.

Respectfully Submitted,

Alejandro Reboron Design Engineer

SIGN IN SHEET - PRE-BID MEETING

March 12, 2012, @11:00 AM MAUI DISTRICT OFFICE

Project: Kula Highway Pavement Preventive Maintenance, Thompson Road towards Ulupalakua Project No. 37E-01-12M

NAME	COMPANY	PH, NO./FAX	E-MAIL
1. Alejandro Reboron 2. Cavid OH200 3. Breff Ulino Man		873-3535/873-3544 9779-755 us 269-2207	Alejandro.S.Reboron @hawaii.gov. dol-fæga@grow pichficovp. Com bratt umo Cgmil.com
4. Imelda Mawae 5. CRIS RABASA	Jiu laving bot		awljag@gmail.com. crismio.122GASA@HAWAII.com
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7.			
8,			
9.			