# STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

## ADDENDUM NO. 1

FOR

Maunaloa Highway Resurfacing Vicinity of Keonelele Avenue to Mahana

**PROJECT NO. 460A-01-11MR** 

**DISTRICT OF Molokai** 

ISLAND OF Molokai

FY 2011

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 resurfacing existing pavement; adjusting guardrail post; installation of rumble strips; installation of signs and pavement markings; cleaning of culverts; adjusting monuments; replacing existing guardrail terminal; application of crack seal, reconstructing weakened pavement areas, application of longitudinal joint stabilizer and all incidental work. Estimated construction cost is between \$2million and \$5million."

## **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 pages P-10 through P-13 dated 2/6/2012 with the attached pages P-10 through P-13 dated r3/12/2012

# D. SPECIAL PROVISIONS

- 1. Replace page 312-1a dated 07/01/08 with attached pages 312-1a through 312-2a dated r3/12/12
- 2. Add pages 412-1a through 412-4a dated 3/16/12

# E. PLANS

1. Replace Plan sheet No.6 with the attached Plan Sheet No. ADD.6

# F. PRE-BID MEETING

- 1. Sign-in sheet (see attached)
- 2. Pre-Bid Meeting Minutes (see 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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Instructions for Contractor's Licensing

Special Provisions Title Page

Special Provisions

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Section	Description	Pages
102	Bidding Requirements and Conditions	102-1a – 102-13a
103	Award And Execution Of Contract	103-1a - 103-4a
104	Scope of Work	104-1a - 104-2a
105	Control Of Work	105-1a – 105-3a
106	Material Restrictions and Requirements	106-1a
107	Legal Relations and Responsibility To Public	107-1a
108	Prosecution And Progress	108-1a – 108 <b>-</b> 2a
109	Measurement and Payment	109-1a

	DIVISION 200 EARTHWORK	
Section	Description	Pages
209	Temporary Water Pollution, Dust, and	
	Erosion Control	209-1a

	DIVISION 300 - BASES	
Section	Description	Pages
312	Hot Mix Glassphalt Base Course	312-1a

	DIVISION 400 - PAVEM	ENTS
Section	Description	Pages
401	Hot Mix Asphalt (HMA)Pavement	401-1a - 401-4a
408	Crack Seal	411-2a
412	Longitudinal Joint Stabilization	412-1a -4a

***	DIVISION 600 - INCIDENTAL CONSTR	UCTION
Section	Description	Pages
613	Centerline and Reference Survey Monuments	613-1a
615	Milled Rumble Strip	615-1a
629	Pavement Markings	629-1a – 629-3a

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699	Mobilization	699-1a
099	problization	000 14

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Section	Description	Pages
712	Miscellaneous	
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Requirements of Chapter 104, HRS Wages and Hours of Employees on Public Works Law

Proposal Title Page

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Proposal Schedule	P-10 - P-13
Supplement to Proposal Schedule	. P-14 – P-18
Surety Bid Bond	

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 Hawaii Residents

## **END OF TABLE OF CONTENTS**

460A-01-11MR -2-(Addendum No. 1)

r3/12/12

ITEM NO.	ITEM	APPROX. QUANTITY	TINO	UNIT	AMOUNT
209.1000	209.1000 Installation, Maintenance, Monitoring and Removal of BMP	L.S.	L.S.	L.S.	₩
209.2000	Additional Water Pollution, Dust, and Erosion Control	F.A.	F.A.	ПA	\$ 10,000.00
312.0100	Hot Mix Glassphalt Base Course	1,400	Ton	\$	φ.
401.0400	Hot Mix Asphalt (HMA) Pavement, Mix No. IV	4,000	Ton	\$	↔
408,0100	Crack Seal	F.A.	F.A.	F.A.	\$ 100,000.00
412,0100	Longitudinal Joint Stabilizer	20,000	S. F.	€	<del>60</del>
414.0100	Excavation of Weakened Pavement Areas	675	C.Y.	<del>60</del>	<del>69</del>
415.0100	Cold Planing	Ľ.S.	ĽS.	L.S.	<del>6</del>
603.1900	Clean Existing Culverts	F.A.	F.A.	F.A.	\$ 30,000.00
606.0500	Terminal Section, Type FLEAT 350	Ľ.S.	L.S.	ĽS.	€
606.0600	Guardrail, Strong Post W-Beam with Post	r.S.	ĽS.	L.S.	\$
606.0700	Reset Guardrail	S.	ĽS.	Ľ.S.	\$
613.0100	Adjusting Centerline and Reference Survey Monuments	Ō	Each	₩	\$

Addendum No. 1 PROJECT NO. 460A-01-11MR r3/12/2012 P-10

ITEM NO.	ITEM	APPROX. QUANTITY	TINO	UNIT PRICE	AMOUNT
615.0100	Centerline Milled Rumble Strips	L.S.	L.S.	L.S.	\$
615.0200	Shoulder Milled Rumble Strips	L.S.	L.S.	L.S.	σ
615.0300	Edge Line Milled Rumble Strips	Ľ.S.	L.S.	L.S.	€
629,1009	4 - Inch Pavement Striping (Tape, Type II or Thermoplastic Hot Spray) White	L.S.	L.S.	L.S,	€
629.1010	4 - Inch Pavement Striping (Tape, Type I or Thermoplastic Hot Spray) Yellow	Ŀ S	L.S. '	Ľ.S.	₩
629.1012	12 - Inch Pavement Striping (Tape, Type II or Thermoplastic Hot Spray) White	L'S.	L.S.	L.S.	₩.
629.1013	4 - Inch Double Solid Yellow Pavement Striping (Tape, Type I or Thermoplastic Hot Spray)	L.S.	Ľ.S.	L.S.	€
629.2030	Type "C" Pavement Marker	S.	L.S.	L.S.	<u>ө</u>
629.2040	Type "D" Pavement Märker	Ľ.S.	ĽS.	L.S.	\$
629.2060	Type "H" Pavement Marker	Ľ.S.	Ľ.S.	L.S.	₩
629.2070	Type "J" Pavement Marker	L.S.	L.S.	L.S.	₩
101	DDO IECT NO 4804 OF 114MB				

PROJECT NO. 460A-01-11MR r3/12/2012 P-11

Addendum No. 1

	PROPOSAL SCHEDULE				
ITEM NO.	ITEM	APPROX. QUANTITY	LINIU	UNIT	AMOUNT
630.0300	Type "A" Route Marker Assembly With Post	Ľ.S.	L.S.	L.S.	φ
631.3100	Regulatory Sign (10 Sq. Ft. or Less) With Post	L.S.	L.S.	ĽS.	\$
632.4000	Reflector Marker (Rm-3) Yellow With Steel Post	L.S.	L.S.	L.S.	€
632.4200	Reflector Marker (Rm-5) on Existing Guardrail	L'S.	Ľ.S.	L.S.	\$
632.7610	Mile Post Marker And Supplemental Route Number Plate (Bi - Directional) With Post	si Li	Ø J	S. J.	₩
643.0100	Maintenance of Existing Landscape Areas	F.A.	F.A.	F.A.	\$ 5,000.00
645.2000	Traffic Control	Ľ.	L.S.	ĽS.	₩
645.2100	Additional Police Officers, Additional Traffic Control Devices, and Advertisement	F.A.	F.A.	F.A.	\$ 10,000,00
648.0100	Field-Posted Drawings	Ľ. Š.	Ë.S.	L.S.	\$
696,6000	Field Office Trailer (Not to Exceed \$32,000.00)	L.S.	ĽS.	L.S.	€
696.6100	Project Site Laboratory Trailer (Not to Exceed \$22,000.00)	Ľ.S.	ĽS.	ĽS.	φ
696.6200	Maintenance of Trailers	F.A.	F.A.	F.A.	\$ 10,000.00
PROJECT I	PROJECT NO. 460A-01-11MR				

Addendum No. 1 PROJECT NO. 460A-01-11MH r3/12/2012 P-12

PROJECT NO. 460A-01-11MR r3/12/2012 P-13

Addendum No. 1

1					
2 3	· · · · · · · · · · · · · · · · · · ·				
4 5 6	(i) Amend Section 312.03(C) Compaction by revising the secon paragraph, from line 102 to 105, to read as follows:			nd	
7 8 9 10 11		"Compact mixture immediately upon completion of spreading operations to density of not less than 92.0 percent of maximum theoretical specific gravity in accordance with AASHTO T 209, modified by deletion of Supplemental Procedure for Mixtures Containing Porous Aggregate."			
13 14 15 16	(11)	Amen follow	d <b>Section 312.04 Measurement</b> , from line 116 to 117 to read as:	as	
17	"312.0	04	Measurement.		
18 19 20 21 22		(A) with c	The Engineer will measure HMGB course per ton in accordange ontract documents."	ce	
23 24	(III) follow		d Section 312.05 Payment, from line 119 to 139, to read	as	
25 26 27 28 29	Paym	below ent wil	<b>Payment.</b> The Engineer will pay for the accepted pay iter at the contract price per pay unit, as shown in the proposal schedu I be full compensation for the work prescribed in this section and the uments.	le.	
30 31 32	The Engineer will pay of the following pay item when included in the proposal schedule:			he	
33 34 35			Pay Item Pay U	nit	
36 37 38		(A)	Hot Mix Glassphalt Base Course T	on	
39 40 41 42			(1) 80% of the contract unit price upon completion of submitti a job-mix formula acceptable to the Engineer; preparing t surface, spreading, and finishing the mixture; and compacting t mixture by rolling;	he	
43 44 45			(2) 20% of the contract unit price upon completion of cutti samples from the compacted pavement for testing; placing a		

46	compacting the sampled area with new material conforming to the
47	surrounding area; protecting the pavement; and final analysis."
48	
49	
50	
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· 58	
59	
60	
61	
62	END OF SECTION 312

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1	Add Section 412 - Longitudinal Joint Stabilization:						
2 3	"SECTION 412 - LONGITUDINAL JOINT STABILIZATION						
4 5	412.01 Description.	This work includes furnishing	and placing lo	ongitudinal			
6 7	joint stabilizer on hot mix as	sphalt concrete pavements.					
8	412.02 Material. The	longitudinal joint stabilizer sha	all meet the foll	lowing:			
9 10 11 12	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.						
13 . 14 . 1-	Emulsion	Test Method	Requirem Min	ents Max			
15 16 17 18	Residue, % W <sup>1</sup> Miscibility <sup>2</sup> Particle Charge	ASTM D 244 (Mod) ASTM D 244 (Mod) ASTM D 244	39 No Coagu Positive	44			
19 20	Residue from Distillati						
21	Flash Point, COC °C	ASTM D 92	200	-			
22	Viscosity @ 60°C, cSt		100	200			
23	Asphaltenes, %w	ASTM D 2006-70	-	1.00			
24	Maltene Dist. Ratio	ASTM D 2006-70	0.2	8.0			
25	5						
26	$PC + A_1$						
27	$S + A_2$						
28	PC/S Ratio <sup>5</sup>	D 2006-70	0.5	_			
29	Saturated Hydrocarbo	one 9 <sup>5</sup> D 2006-70	21	28			
30 31	Salurated Hydrocarbo	nis, 5 D 2000-70		20			
32	<u>Polymer</u>						
33	<u>r olymer</u> Charge		Positive				
34	Monomer Ratio, Buta	diene/Styrene	76/24				
35		63					
36	Solids Content, percent by weight Coagulum on 80 mesh screen						
37	Maximum perc	0.1					
38	Mooney Viscosity of F	0,,					
39	(ML 4 @ 212°F	100					
40	pH of Polymer	,	5.0				
41	Weight per gallon		0.0				
41 42	<b>9</b> , <b>9</b>	63% solids content	7.94				
42	vvei poulids 💩	5 GG 70 GOILGG COLLEGIC	7.07				

<sup>&</sup>lt;sup>1</sup> 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.

43

44

45

46 47

48

460-01-11MR 412-1a (Addendum No. 1)

3/16/12

<sup>&</sup>lt;sup>2</sup> Test procedure identical with ASTM D 244 except that .02 Normal Calcium

49	Chloride solution shall be used in place of distilled water.				
50	F				
51	<sup>5</sup> Chemical composition by ASTM D 2006-70				
52	$PC = Polar Compounds$ $A_1 = First Acidaffins$ $A_2 = Second Acidaffins$				
53	S = Saturated Hydrocarbons				
54					
55	Submit certificate of compliance for longitudinal joint stabilizer accompanied by				
56	substantiating test data.				
57					
58	412.03 Construction.				
59					
60	(A) Test Strip. Prior to production, spread longitudinal joint stabilizer at				
61	various application rates between 0.07 to 0.25 gallons per square yard to				
62	determine the rate of application where the longitudinal joint stabilizer has				
63	the capability to fully penetrate the asphalt pavement surface and be				
64	absorbed within 30 minutes of application. No surface coating shall remain				
65	within 30 minutes of application. Apply longitudinal joint stabilizer under				
66	typical project environmental conditions at a test strip location determined by				
67	the Engineer. Manufacturer's representative shall be present for				
68	determination of application rate.				
69	determination of application rates.				
70	(B) Weather Limitations. Application of longitudinal joint stabilizer will				
71	not be allowed under the following conditions:				
71 72	not be anowed under the following demandria.				
	(1) On wet surfaces, as determined by the Engineer.				
73 74	(1) On wet surfaces, as determined by the Engineer.				
	(2) When <u>surface</u> temperature is below 40 degrees Fahrenheit.				
75	(2) When sanace temperature is below 40 degrees ramemon.				
76	(3) When weather conditions prevent proper method of				
77 78	construction.				
79	CONSTRUCTION.				
7 <i>9</i> 80	(C) Equipment.				
81	(C) Equipment:				
82	(1) General. Keep equipment, tools, and machinery clean and				
83	maintained in satisfactory condition.				
84	maintained in Satisfactory Containon.				
85	(2) Longitudinal Joint Stabilizer Application Equipment. Use a				
	self-propelled distributor truck with pneumatic tires or other approved				
86 87	applicator to spread the longitudinal joint stabilizer. The distributor				
88	truck or applicator shall be designed and equipped to distribute the				
89	longitudinal joint stabilizer uniformly on variable widths of surface at				
90	readily determined and controlled rates from 0.07 to 0.25 gallons per				
91	square yard of surface. Variation from any specified rate shall not				
91 92	exceed five percent.				
92 93	CAUCOU IIVO POTOCITI.				
93 94	Distributor truck or applicator shall include full circulation spray bars,				
94 95	pump tachometer, volume measuring device and a hand hose				
96	attachment suitable for applying longitudinal joint stabilizer manually				
50	460-01-11MR				
	412-2a 3/16/12				
	TIE EU				

(Addendum No. 1)

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	various treatment wattie.
112	(D) Application of Longitudinal Joint Stabilizer. Whenever practical,
113	apply the longitudinal joint stabilizer within 24 hours of completion of the
	pavement section and before the pavement is opened to traffic. Apply the
114	
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	
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	
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	
134	412.04 Measurement. The Engineer will measure longitudinal joint stabilizer
135	per square foot in accordance with the contract documents.
136	
137	412.05 Payment. The Engineer will pay for the accepted longitudinal joint
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
140	contract documents.
141	
142	The Engineer will pay for the following pay item when included in the
143	proposal schedule:
144	

145	Pay Item	Pay Unit
146		
147	Longitudinal Joint Stabilizer	Square Foot
148		·
149	The Engineer will pay 100 percent of the	ne contract bid price upon completion
150	of the longitudinal joint stabilizer application."	
151		
152		
153		
154		
155		
156	END OF SECTI	ON 412

# Pre-Bid Meeting Minutes

Project: Maunaloa Highway Resurfacing, Vicinity of Keonelele to Mahana

Project No.: 460A-01-11MR

- 1. Pre-bid meeting was held on March 12, 2012 at 10:00 A.M in the Maui District Conference Room at 650 Palapala Drive, Kahului. The participants were: David Ortega, of Maui Paving LLC, Brett Ueno of Maui Master, Fred Gutierrez and Crisanto Ragasa of State Highways
- 2. Scope of project was discussed and then opened floor for questions.
- 3. Contractors recommended changing the payment item of Hot Mix Glassphalt Base Course from lump sum to ton. Response: Changes will address in addendum No.1
- 4. The description on the proposal states that the mobilization is not to exceed 10%. However, the description in the spees states that the calculation for mobilization is not to exceed 6%. Response: Changes will address in addendum No 1
- 5. The Contractors were reminded that there will be an additional item in the proposal schedule and a typical section will be added in the project plans for "Longitudinal Joint Stabilizer." This will be included in Addendum No. 1

6. Meeting was adjourned at 10:30 A.M.

Respectfully Submitted,

Crisanto Ragasa Design Engineer

### SIGN IN SHEET - PRE-BID MEETING

March 12, 2012 @ 10:00 am MAUI DISTRICT OFFICE

Maunaloa Highway Resurfacing Vicinity of Keonelele Avenue to Mahana Project No. 460A-01-11MR

NAME

COMPANY

PH. NO./FAX

E-MAIL

1. Crisanto Ragasa

DOT

873-3553/873-3544

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4. Brett Ueno

3. David Ostega Mai Pawing LLC 8772755

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SFRED GUTIERREZ, DOT 873-3535/3390 FRED. C. GUTIERREZQHAWAN-SON