STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

ADDENDUM NO. 1

FOR

TRAFFIC SIGNAL REHABILITATION AT VARIOUS LOCATIONS, KAUAI

PROJECT NO. HWY-K-01-15M

The following amendments shall be made to the Bid Documents:

A. <u>SPECIAL PROVISIONS</u>

a. Replace Section 623 – Traffic Signal System dated 1/12/16 with the attached Section 623 – Traffic Signal System dated r04/14/16.

B. PLANS

a. Replace Plan Sheet Nos. 9, 13, 14 and 16 with the attached Plan Sheet Nos. ADD. 9, ADD. 13, ADD. 14, and ADD. 16.

The attached Minutes of the Pre-Bid Meeting and Pre-Bid Meeting Attendance Sheet are provided for your information.

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.

Ford N. Pughigami

Director of Transportation

1	SECTION 623 - TRAFFIC CONTROL SYSTEM
2 3 4	Make the following amendments to said Section:
5 6 7	(I) Amend Subsection 623.02 Materials by adding the following after line 131 to read as follows:
8 9 10	"Light Emitting Diode (LED) Pedestrian-Countdown Signal (PCS) Module, to be State-furnished. 771"
11 12	(II) Amend Subsection 623.03(C)(3) Signal Heads by adding the following after line 233 to read as follows:
13 14 15 16 17	"Remove existing, and install new back-plates for mast-arm mounted heads at one (1) intersection. This work shall be included within the scope of work of the traffic signal system contract item for that intersection."
18 19 20	(III) Amend Subsection 623.03(C)(5) Vehicle Detectors from line 241 to line 247 to read as follows:
21 22 23	"(5) Vehicle Detectors. Existing loop vehicle detectors are to remain in service, unless otherwise directed by the Engineer. No later than 3 weeks following NTP date, submit video detection system product literature to
24 25 26 27 28	the Engineer for review and acceptance. Detection system shall interface with the controller. Furnish and install video detection system at two (2) intersections as indicated on the plans, including operational checks and transfer of warranty to the State. This work shall be included within the scope of work of the traffic signal system contract item for these intersections."
29 30 31 32	(IV) Amend Subsection 623.03(C)(6) Pull Boxes by adding the following after line 253 to read as follows:
33 34 35	"Backfilling, compacting, and constructing minimum 4" thick Class A concrete around new pull box to match the immediate surrounding area shall be considered incidental to the various traffic signal work items."
36 37 38 39	(V) Amend Subsection 623.03(C)(8) Conductors and Cables from line 358 to line 374 to read as follows:
40 41 42 43 44	"Signal light conductors and cables shall not be cut. Waterproof, soldered tap splice shall be the sole method of splicing used. At a minimum, waterproofing shall consist of 2 layers of the following: electrical tape, rubberized tape, and Scotchkote™ or equivalent. Waterproof labeling of specific traffic signal phase shall be affixed at all exposed conductors. Termination in the
45	controller cabinet on the post shall be by pressure connector." HWY-K-01-15M

623-1a

r04/14/16

"(15) Light Emitting Diode (LED) Pedestrian-Countdown Signal (PCS), and Chirping Pedestrian Alarm. Install State-furnished PCS module into Contractor-furnished housing. Install State-furnished chirping alarms at one intersection as indicated on the plans. Arrange with the State representative to pick up PCS module and chirping alarm units at Highways Division Kauai District base yard. This work shall be included within the scope of work of the traffic signal system contract items.

(16) Flashing Yellow Beacon. Remove existing, and install new beacons, Type I standards, and cables at one (1) intersection as shown on the plans. This work shall be included within the scope of work of the traffic signal system contract item for that intersection."

(VII) Amend Subsection 623.03(D) Painting after line 454 to read as follows:

"Repairs to damaged galvanized surfaces of new Type I standards shall be in accordance with Subsection 501.03(G)(2) -Repairing Damaged Zinc-Coated Surfaces. This work shall be considered incidental to the various traffic signal work items.

The following pertains exclusively to existing in-place Type II mast arm standards to remain, including fastening hardware. All surfaces shall be prepared and painted in their original field locations. Remove all traffic signal heads, signs, and associated mounting bands and brackets prior to preparing for painting over the existing galvanized surfaces of standard and mast arm.

All coatings of the specified system shall be manufactured by PPG/Sigma Protective Coatings or equivalent. All materials shall be mixed using a jiffy style power mixer. Primer shall be Amerlock 400 or Amerlock 400/2 (Fast Cure) or equivalent. Top Coat shall be PSX-700 or equivalent. The stripe coat, primer and top-coat shall be contrasting colors to facilitate application and inspection. Paint system technical data, surface preparation details, application, product characteristics, and system compatibility shall be submitted for review and acceptance by the Engineer no less than 2 weeks prior to NTP date. Before commencing work on the painting, 3" by 5" galvanized steel sample plates coated with the production materials to be used shall be submitted for review and acceptance.

Paint only thoroughly dry surfaces and only during periods of favorable weather. Painting will not be allowed when atmospheric temperature is below 40 degrees Fahrenheit, or when relative humidity is above 85 percent. Do not paint when the air adjacent to the surface contains a fog, mist, dust, or other

 particulate matter. Do not perform coating operations during winds in excess of 15 mph. Record ambient weather condition in 2 hour intervals. Remove and replace fresh paint damaged by bad weather and moisture.

Thinners or additives shall be those recommended by the coating manufacturer. Thinner shall be primarily used for cleaning equipment. Thinner may not be added in amounts exceeding the limits recommended in the manufacturer's product data sheets.

Inspect surfaces to verify suitability of the surfaces to receive paints prior to the commencement of surface preparation and paint application. Establish an initial average applied DFT of the galvanizing using equipment described in SSPC-PA-2. Submit a written report to the Engineer describing any condition that may affect proper application or overall performance.

If the Engineer orders precautionary or corrective measures to prevent dust, dirt, and other foreign matter from touching freshly painted surfaces, or to prepare surfaces for painting, provide these measures at no increase in contract price or contract time.

Protect pedestrian, vehicular, and other traffic from injuries or damage from spatters, splashes, or smirches of paint or paint materials.

Remove areas of light corrosion using 80-grit sandpaper, to the satisfaction of the Engineer. Mark and notify the Engineer of all locations. Wipe down all surfaces to be painted using Prep 88 biodegradable cleaner or equivalent, in accordance with SSPC-SP-1 (Solvent Cleaning) or SSPC-SP12 / NACE 5 LPWC (low pressure water cleaning). Water break test may be performed to ensure removal of contaminants. Apply paint primer no more than 8 hours following solvent cleaning.

Coating Coverage and Continuity: a.) Stripe Coat: Apply a stripe coat by brush to edges, crevices, bolt heads, welds, and pits or other surface continuities prior to the application of the prime coat. Apply coatings to all surfaces with special attention to hard-to-reach areas such as underneath support brackets, back to back angles, skip welding or deep pits. All coats shall have a smooth surface and be free from dry-spray, overspray, and orange peel. Pinholes, bubbles, and misses are not acceptable. Brush out runs and sags while material is still wet.

Dry Film Thickness: Ferrous Metal Substrate: Apply each coat to the thickness specified in the accompanying table(s). Calibration of gauges and frequency shall be in accordance with SSPCPA-2. Disputes shall be resolved using a Tooke Gauge. Damage created by the Tooke Gauge shall be repaired at

134 135	no increase in contract price or contract time. Keep written record of all DFT readings and provide copy to the Engineer upon request.					
136						
137	Apply additional coat(s) to all surfaces having less dry film thickness					
138	specified, at no increase in contract price or contract time. Maximum dry film					
139	thickness shall not exceed 20.0 mils for the exterior coating system. DFT of the					
140	prime coat shall be 6.0 to 8.0 mils. DFT of the top coat shall be 5.0 to 7.0 mils.					
141						
142	Repair all damaged or deficient coatings prior to project completion.					
143	Preparation of localized damage area: Power tool clean the damaged area in					
144	accordance with the appropriate power tool cleaning specification, SSPC-SP-3					
145	"Power Tool Cleaning". Exercise special care to maintain the specified thickness					
146	of the system in the overlapped area onto the existing intact coat.					
147						
148	Notify the Engineer to ensure that all painted surfaces are thoroughly dry					
149	and acceptable, prior to re-installing mounting bands, brackets and fastening					
150	hardware."					
151						
152	(VIII) Amend Subsection 623.03(G) Other Services from lines 493 to 555 to					
153	read as follows:					
154						
155	G) Other Services.					
156	(4) Device we the following					
157 158	(1) Perform the following:					
159	(a) Make soldered taps in pull boxes and cabinet					
160	locations pertaining to signal heads, pedestrian buttons,					
161	vehicle detectors, preemption detectors, and interconnect					
162	circuits.					
163						
164	(b) Install and program controller timings and conflict					
165	monitor cards.					
166						
167	(c) Before leaving factory, conduct, or have supplier					
168	conduct documented factory testing in accordance with					
169	CALTRANS requirements for each controller and cabinet. Dry-store controller assemblies. Perform second					
170	Dij otoro controllor decement					
171	documented diagnostic testing procedure. If factory testing					
172	is satisfactory, cycle controller assembly through eight vehicle phases and four pedestrian phases for 120					
173	continuous hours before field installation.					
174 175	Continuous nours before field installation.					
176	Test and document validation of controller, cabinet					
177	output and input, C1/C2/C20 operations, load switches,					
178	detector cards, dc cards, modems, flash condition, time					
179	source, preemption system, and conflict monitor. Have					
	HWY-K-01-15M					
	623-4a r04/14/16					

180 181 182 183	necessary testing hardware and softwa accurate and dependable test and validation displays, controller and cabinet function monitor certification.	of output signal			
184 185 186 187 188	(d) Install controller assembly including seals, grout, rerouted cables, extended ground wires, signal cables, and other adjustional systems.	power cables, stments to base,			
189 190 191 192 193 194	(e) Remove and properly dispose of extendards, signal heads, traffic signal assemblies, meter pedestals, pull boxed conductors and hardware that have been repat no cost to the State.	s, pushbutton s, back-plates,			
195 196 197	(IX) Amend Subsection 623.04 Measurement to add the line 579:	e following after			
198 199 200 201 202	"Paint repairs to Type II standard and mast arm will be contract lump sum basis. Measurement for payment will not apply (X) Amend Subsection 623.05 Payment to read as follows:	y."			
203 204 205 206 207	"623.05 Payment. The Engineer will pay for the accepted traffic signal system, and paint repairs to Type II standard and mast arm, on a contract lump sum basis. Payment will be full compensation for the work prescribed in this section and the contract documents.				
208 209 210	The Engineer will pay for the following pay items when included in the proposal schedule:				
211	Pay Item	Pay Unit			
212 213	Traffic Signal System	Lump Sum			
214 215 216 217	Paint Repairs to Type II Standard and Mast Arm	Lump Sum"			
218					

MINUTES OF THE PRE-BID MEETING

PROJECT:

Traffic Signal Rehabilitation at Various Locations, Kauai

Districts of Lihue, Koloa and Waimea

Island of Kauai

PROJECT NO.:

HWY-K-01-15M

LOCATION:

1720 Haleukana Street

Lihue, Kauai, Hawaii

DATE & TIME:

April 12, 2016 at 9:00 A.M.

IN ATTENDANCE: Fred Reyes

HDOT – HWY-K

Kurt Tachibana

HDOT – HWY-K

Edward Lantry

HDOT – HWY-K

Curt Allison

Coating Works Hawaii, Inc.

Juan Uribe

American Electric Ron's Electric, Inc.

Randall Nishimura Ron's El

The meeting started at 9:05 A.M. HWY-K Project Manager, Fred Reyes began the meeting with a brief overview of the background and scope of work.

The following were raised at the meeting:

Question 1: How many working days are allowed for this project?

Response: 150 working days. Refer to Page P-1 of the Special Provisions.

Question 2: Has the paint specification changed from previous Project No. HWY-K-01-13M?

Response: The same paint specification is being used as for the previous project. Refer to Section 623 Traffic Signal System of the Special Provisions.

HDOT stated that night shift work will be required for such work tasks as changing out the controller and painting of overhead mast arm. Contractor should be aware of the nonight-work allowed seabird fallout season from September 15 through December 15, annually.

HDOT stated that stated although the Cable Schedule table shows quantities of various conductor cables, these quantities are approximate only. Contractor's attention is directed to Traffic Signal Note No. 5 on plan Sheet 7.

HDOT stated that all requests for information (RFI) need to be submitted 10 or more days prior to bid opening.

With no further questions or comments, the pre-bid meeting was adjourned at 9:27 A.M.

The minutes of the meeting will be distributed in Addendum No. 1 to the Contract Plans. Contractors will be notified when Addendum No. 1 will be available for pick up.

PRE-BID CONFERENCE ATTENDANCE LIST

PROJ. NO.: HWY-K-01-15M	PROJECT NAME: TRAFF	C SIGNAL REHABILITATION AT VARIOU	S LOCATIONS, KAUAI	
DATE: APRIL 12, 2016	TIME:9:00 AM	LOCATION: 1720 HALEUKANA STREET, LIHUE, KAUAI, HAWAII 96766		
CALLED BY: FRED REYES				
PLEASE PRINT			1	l .
PARTICIPANT	COMPANY / ORGANIZATION	ADDRESS (Incl. City and Zip Code)	EMAIL (print clearly)	PHONE / FAX
1 Fred Reyer	HDOTKANA! HWY	1720 Haleukana St.	fred rever pomini	
,	HDOT/Huy Rovas	. 71	Pdward lange	635-1550 635-85458
3 CINET, AllisON	COATING WORKS HAWASI INC	2/00	CLIRT & CONTINGUORES HAWAII. COM	635-8545 245-8118 FAX
AN Wan Chebr	American Elegic	1865 Haleukan St.	Junberamerican electric	.cc 342-0199
5 Kurt Tudilbana	201			
//	Rows Electric luc	1840A LELEIDAA St.	rousvally Quanti	245-4611
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