

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**

ADDENDUM NO. 1

FOR

**KEKAULIKE AVENUE
REPAIRS AND MAINTENANCE AT VARIOUS LOCATIONS
PROJECT NO. 377A-01-03M
DISTRICT OF MAKAWAO
ISLAND OF MAUI**

FY 2003

Amend the bid documents as follows:

A. TABLE OF CONTENTS

1. Replace pages 1, 2 and 3 dated 5/12/03 with the attached pages 1, 2 and 3 dated 6/16/03.

B. SPECIAL PROVISIONS

1. **Section 603 – Culverts and Storm Drains.**

Replace page 603-7a dated 10/10/98 with the attached page 603-7a dated 6/16/03.

2. **Section 606 – Guardrail.**

The attached pages 606-1a thru 606-4a dated 6/16/03 shall be incorporated and made a part of the Special Provisions.

3. **Section 656 – Relocating Mailbox.**

The attached page 656-1a dated 6/16/03 shall be incorporated and made a part of the Special Provisions.

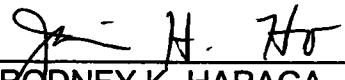
C. PROPOSAL SCHEDULE

1. Replace page P-9 dated 4/15/03 with the attached page P-9 dated 6/16/03.

D. **PLANS**

1. Replace Plan Sheet Nos. 6, 7, 8, 9, 10, 12, 14, 15 and 16 with the attached Plan Sheet Nos. ADD. 6, ADD. 7, ADD. 8, ADD. 9, ADD.10, ADD. 12, ADD. 14, ADD. 15 and ADD. 16.
2. Add the attached Plan Sheet Nos. ADD. 16S-1, ADD. 16S-2, ADD. 16S-3 and ADD. 16S-4.

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.

for 

RODNEY K. HARAGA
Director of Transportation

TABLE OF CONTENTS

Notice to Bidders

Instructions To Bidders

Instructions for Contractor's Licensing

Special Provisions Title Page

Special Provisions

DIVISION 100 - GENERAL PROVISIONS		
Section	Description	Pages
101	Definitions And Terms	101-1a - 101-10a
102	Bidding Requirements and Conditions	102-1a - 102-7a
103	Award And Execution Of Contract	103-1a - 103-3a
104	Scope Of Work	104-1a - 104-10a
105	Control Of Work	105-1a - 105-3a
106	Control Of Material	106-1a - 106-4a
107	Legal Relations and Responsibility To Public	107-1a - 107-6a
108	Prosecution and Progress	108-1a - 108-19a
109	Measurement And Payment	109-1a - 109-15a

DIVISION 200 EARTHWORK		
Section	Description	Pages
201	Clearing And Grubbing	201-1a - 201-3a
202	Removal Of Structures And Obstructions	202-1a - 202-3a
206	Excavation And Backfill For Conduits And Structures	206-1a - 206-9a
209	Water Pollution And Erosion Control	209-1a - 209-6a
210	Dressing Of Shoulders	210-1a

DIVISION 300 - BASES		
Section	Description	Pages
301	Plant Mix Asphalt Concrete Base Course	301-1a - 301-3a
302	Recycled Plant Mix Asphalt Concrete Base Course	302-1a - 302-4a
312	Plant Mix Glassphalt Concrete Base Course	312-1a - 312-4a
313	Controlled Low Strength Material (CLSM) For Utilities and Structures	313-1a - 313-2a

DIVISION 400 – PAVEMENTS		
Section	Description	Pages
401	Asphalt Concrete Pavement	401-1a – 401-19a
407	Bituminous Tack Coat	407-1a – 407-2a

DIVISION 500 – STRUCTURES		
Section	Description	Pages
503	Concrete Structures	503-1a

DIVISION 600 - INCIDENTAL CONSTRUCTION		
Section	Description	Pages
602	Reinforcing Steel	602-1a
603	Culverts and Storm Drains	603-1a - 603-8a
604	Manholes, Inlets And Catch Basins	604-1a - 604-4a
606	Guardrail	606-1a – 606-4a
609	Curb and/or Gutter	609-1a - 609-2a
621	Traffic Control Signs	621-1a - 621-2a
628	Shotcrete	628-1a
629	Pavement Markings	629-1a - 629-7a
636	Field Office and Project Site Laboratory	636-1a - 636-2a
645	Traffic Control Devices	645-1a - 645-13a
656	Relocating Mailbox	656-1a
699	Mobilization	699-1a - 699-2a

DIVISION 700 – MATERIALS		
Section	Description	Pages
702	Bituminous Materials	702-1a
703	Aggregates	703-1a - 703-10a
706	Concrete, Clay, and Plastic Pipe	706-1a
712	Miscellaneous	
	Preformed Pavement Marking Tape	712.53-1a
	Reflective Thermoplastic Compound Pavement Markings	712.55-1a
713	Structural Steel And Related Material	713-1a - 713-3a
717	Cullet And Cullet-Made Materials	717-1a 717-2a

Requirements of Chapter 104, HRS
Wages and Hours of Employees on Public Works Law

Proposal Title Page

Proposal P-1 – P-8

Proposal Schedule P- 9 - P- 10

Supplement to Proposal Schedule P- 11 - P- 14

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

Remove and replace broken culverts or damaged by its operation, with acceptable culverts at no cost to the State.

(F) Cleaning Culverts. Clean culverts according the contract and as specified by the Engineer.

603.04 Method of Measurement. The Engineer will measure the bed course material per cubic yard.

The Engineer will measure culverts per linear foot complete in place. The Engineer will measure culvert with sloped or skewed ends along its invert. The Engineer will include branch connections and elbows in the length measurement for the culvert.

The Engineer will measure culvert cleaning on a force account basis according to the contract and as specified by the Engineer.

603.05 Basis of Payment. The Engineer will pay for the accepted bed course material at the contract unit price per cubic yard. The price includes full compensation for furnishing, placing, and compacting the bed course material; and furnishing labor, material, tools, equipment, and incidental necessary to complete the work.

The Engineer will pay for the accepted culvert at the contract unit price per linear foot complete in place. The price includes full compensation for diverting the water temporarily; removing solid rock; backfilling and compacting the trench; restoring A. C. pavement structure; furnishing, laying, and joining the pipe; furnishing labor, material, tools, equipment, and incidental necessary to complete the work.

The Engineer will pay for the culvert cleaning on a force account basis. The Engineer will compute the actual amount as set forth in Subsection 109.04 - Extra and Force Account Work. The price includes full compensation for materials, tools, equipment, labor, and incidentals necessary to complete the work.

The Engineer will make payment under:

Pay Item	Pay Unit
Bed Course Material for Culvert	Cubic Yard
_____ - Inch Reinforced Concrete Pipe, Class _____ or _____ - Inch High Density Polyethylene Pipe, Type _____	Linear Foot
Culvert Cleaning	Force Account

Amend **Section 606 - Guardrail** to read as follows:

"SECTION 606 - GUARDRAIL

606.01 Description. This work includes installing guardrails according to the contract.

The contract designates the types of guardrails as Type 3 Beam Type Guardrail

The construction of guardrails includes the assembly and erection of component parts at the locations shown in the contract or as specified by the Engineer.

606.02 Materials. Materials shall conform to the following:

Joint Fillers	705.01
Reinforcing Steel	709.01
Metal Beam Rail	710.04
Guardrail Posts	710.07
Guardrail Hardware	710.08

Furnish zinc-coated steel post and zinc-coated steel rail beam for the Type 3 Beam Type Guard Rail. Do not mix the type of steel posts within the project.

When the location of manufacturing plants allows, the Engineer may inspect the plants periodically for compliance with specified manufacturing methods. The Engineer may get samples of materials for laboratory testing for compliance with material quality requirements. This may be the basis for acceptance of manufacturing lots regarding quality.

The condition of materials will be subject to inspection for acceptance before or during incorporation of materials into the work.

606.03 Construction Requirements. Repair zinc-coated base metal surfaces that the Contractor exposes, drills, threads, cuts according to 501.03(G)(2) - Repairing of Damaged Zinc-coated Surfaces.

Preserve and protect existing facilities that the Contractor may affect by the guardrail installation. Replace the guardrails that the Contractor damages due to its operation at no cost to the State.

(A) Beam Type Guard Rail.

(1) Posts. When using a suitable method, the Contractor may drive only steel posts, except those with anchors, into the ground. Maintain an accurate vertical alignment and shall not deform the steel post.

Set the wood and steel posts with anchors plumb in hand or mechanically dug holes. Backfill post holes with acceptable material placed in layers and compact thoroughly.

Set the posts vertically in the ground to the approximate depth shown in the contract. The posts, after backfilling or driving, shall be in accurate alignment with their tops at the required grade.

The Contractor may vary the guardrail post locations shown in the contract to ease clearing utility lines or to produce smooth transitions. Request such variance for acceptance by the Engineer. The Contractor may not vary the guardrail post locations of terminal sections.

When the contract requires additional bolts and holes on posts, drill the additional bolt holes and furnish the bolts for proper installation. Drill, furnish, and install this additional bolts at no cost to the State.

Do not make the additional bolt holes in posts by burning with a torch or other method or device. Manufacture or drill the holes in the posts.

Apply a preservation treatment to the wood posts and blocks according to Section 714 - Structural Timber and Related Materials.

Where field cutting or boring is done after treatment, thoroughly swab, spray, or brush the cuts and holes with two applications of preservatives accepted by the Engineer.

(2) Rail Elements. Install the rail elements that results in a smooth, continuous installation. Draw the bolts, except adjustment bolt, tight. Bolts shall be of sufficient length to extend beyond the nuts.

When the contract requires setting the guardrail posts at non-standard spacing, cut the rail elements and drill bolt holes as necessary for proper installation.

Do not make the additional bolt holes by burning with a torch or other method or device.

The Contract does not require paint on zinc-coated steel railing.

(3) Existing Guardrail. The Contractor shall be responsible for verifying underground facilities such as utilities ducts, cables, and pipes in locations where the Contractor will drive guardrail posts. Repair damages done to the facilities despite the location or if shown in the contract at no cost to the State.

When removing the existing guardrails, backfill and compact the holes with suitable material. Grade and compact the shoulder area before installing the new guardrails and posts.

Reinstallation of guardrail shall be according to Subsection 606.03(A).

When replacing the existing guardrails with new guardrails and posts, do not leave an unprotected opening in the guardrail system of more than 500 linear feet. Also, after each work day, protect the areas not yet completed with physical barriers according to the latest MUTCD.

606.04 Method of Measurement. The Engineer will measure guardrail per linear foot.

The Engineer will measure from center to center of end posts. When making end connections to masonry or steel structures, the Engineer will measure to the face of such structures.

The Engineer will measure end anchorage, terminal section and transition section as units of each kind.

606.05 Basis of Payment. The Engineer will pay for the accepted guardrail at the contract unit price per linear foot complete in place. The price includes full compensation for grading and compacting the shoulder area; installing physical barrier; furnishing and installing the guardrails; and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work.

The Engineer will pay for the accepted end anchorage, terminal section and transition section at the contract unit price per each complete in place. The price includes full compensation for removing existing guardrails and posts; filling of post holes; grading and compacting the shoulder area; installing physical barrier; furnishing and installing the end anchorage, terminal section and transition section; and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work.

The Engineer will make payment under:

Pay Item	Pay Unit
Guardrail _____	Linear Foot
Terminal Section Type _____	Each

END OF SECTION

Make the following section a part of the Standard Specifications:

"SECTION 656 – RELOCATING MAILBOX

656.01 Description. This section is for relocating mailbox according to the contract.

656.02 Materials. All materials, necessary to erect the mailbox complete in place, shall conform to the standards of the United States Postal Service.

656.03 Construction Requirements. Relocate the existing mailbox as shown in the contract plans. Construction requirements shall follow the latest version of the AASHTO Roadside design guide and AASHTO requirements for "A Guide on Erection of Mail Boxes on State Highways".

Mailbox supports shall be two (2) inch diameter standard steel or aluminum pipe post imbedded two (2) feet into the ground. The Contractor shall follow the multiple support system installation as described in the AASHTO guidelines. A copy of the guideline may be requested from the State Department of Transportation, Highways Division.

656.04 Method of Measurement. The Engineer will measure for relocating the mailbox per each assembly.

656.05 Basis of Payment. The Engineer will pay for the accepted relocation of the existing mailbox at the contract unit price per each assembly. The price includes full compensation for furnishing equipments; tools and materials for the construction the mailbox turn out, erection of new mailbox supports, installation of mailboxes and all incidentals necessary to complete the mailbox relocation.

The Engineer will make payment under:

Pay Item	Pay Unit
Relocating Mailbox	Assembly"

END OF SECTION

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
206.2020	Structure Excavation for Drainage System	67	C.Y.	\$ _____	\$ _____
209.1000	Water Pollution and Erosion Control	F.A.	F.A.	F.A.	15,000.00
503.0020	Concrete for Drainage System (Class A)	6	C.Y.	\$ _____	\$ _____
508.1000	Cement Rubble Masonry	3	C. Y.	\$ _____	\$ _____
603.0010	Bed Course Material for Culvert	15	C.Y.	\$ _____	\$ _____
603.0100	Culvert Cleaning	F.A.	F.A.	F.A.	20,000.00
603.1011	24-Inch Reinforced Concrete Pipe, CI III or 24-Inch High Density Polyethelene Pipe Type S	70	L.F.	\$ _____	\$ _____
604.4550	Adjusting Water Valve Box Frame and Cover	2	Each	\$ _____	\$ _____
604.5400	Type 121414P Grated Drop Inlet, 4.00 ft. to 4.99 ft.	3	Each	\$ _____	\$ _____
606.3110	Guardrail, Strong Post W-Beam with 8-foot Post	120	L.F.	\$ _____	\$ _____
606.7000	Terminal Section Type G	2	Each	\$ _____	\$ _____
609.2213	Gutter, Type 7 (121414)	690	L.F.	\$ _____	\$ _____
621.7200	Construction Sign with Two Posts	4	Each	\$ _____	\$ _____
628.0100	3-Inch Shotcrete for Slope Protection	270	S.Y.	\$ _____	\$ _____
636.2000	Maintenance of Field Office and Project Site Laboratory	F.A.	F.A.	F.A.	15,000.00
645.2000	Additional Police Officers and/or Additional Traffic Control Devices	F.A.	F.A.	F.A.	20,000.00
656.0100	Relocating Mailbox	2	Assembly	\$ _____	\$ _____
699.1000	Mobilization (Not to Exceed 10% of the Sum of All Items excluding the bid price for this item and Force Account Items.)	L.S.	L.S.	L.S.	\$ _____
Sum of all Items					\$ _____
NOTE: Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bids.					