

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

**ADDENDUM NO. 1
for
HAWAII BELT ROAD
HAMAKUA COAST BRIDGE REPAIRS
(WAILUKU, HAKALAU AND NANUE STREAM BRIDGES)**

PROJECT NO. 19HK-01-22M

OCTOBER 25, 2021

This addendum shall make the following amendments to the Bid Documents:

A. SPECIFICATIONS

1. Replace Section 501 – STEEL STRUCTURES dated 9/27/21 with the attached Section 501 – STEEL STRUCTURES dated 10/22/21.

B. PROPOSAL

1. Replace PROPOSAL SCHEDULE Pages P-11 through P-12 dated 9/7/21 with the attached PROPOSAL SCHEDULE Pages P-11 through P-12 dated 10/22/21.

The following is provided for information:

A. PRE-BID MEETING MINUTES

Attached are the October 12, 2021 Pre-Bid Meeting Notes for your information.

B. CONTRACTOR'S RFI

Responses to Contractor's RFI are attached 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.



JADE T. BUTAY
Director of Transportation

SECTION 501 - STEEL STRUCTURES

Make the following amendments to said Section:

(I) Amend **Section 501.01 Description** by adding the following paragraph after line 8 to read as follows:

“This section shall also apply to modifications of existing steel superstructure and substructure elements according to the contract documents including cleaning and painting.”

(II) Amend **Section 501.03 (A) Shop Plans** by adding the following after line 82:

“(9) Calculations, locations, and details of temporary bracing at each stage of fabrication and installation. Details shall include removal of the temporary members and restoration of the existing members including painting.”

(III) Amend **Section 501.03 (E)(11) Bolted Connections** by revising the second paragraph between lines 218 to 220 to read as follows:

“Use bolts that are long enough to extend entirely through nut, but not by more than ½ thickness of nut. Use two nuts for bolts in tension.”

(IV) Amend **Section 501.03 (E)(11) Bolted Connections** by revising subparagraph (c), lines 248 to 263 to read as follows:

“All bolt assemblies which connect steel to steel shall be TnA 144 – Type 1 Torque-and-Angle Fixed-Spline Structural bolt assembly. Bolts shall conform to ASTM A325, Grade 144. Nuts shall conform to ASTM A563 and washers shall conform to ASTM F436. All nuts shall be lubricated with Clean Lube, acrylic latex-based lubricant in accordance with ASTM A563. Bolt, nut, and washer assembly shall be supplied from one manufacturer as a complete assembly and shall be galvanized.”

(V) Amend **Section 501.03 (E)(11) Bolted Connections** by revising subparagraph (d), lines 265 to 266 to read as follows:

“Position bolt assembly at splice plate locations of fascia girders such that nut is located on interior face.”

(VI) Amend **Section 501.03 (F) Painting** between lines 270 to 461 to read as follows:

“(1) **General.** Refer to Special Provisions Section 697 for all painting requirements.”

(VII) Amend **Section 501.04 Measurement** by revising lines 511 to 513 to read as follows:

“501.04 Measurement. Structural Steel will be paid on a lump sum basis. Measurement for payment will not apply.

Oversized Hardware will be paid on a force account basis in accordance with Subsection 109.06 – Force Account Provisions and Compensation.

Doubler Plates will be paid on a force account basis in accordance with Subsection 109.06 – Force Account Provisions and Compensation.

Temporary Bracing will be paid on a force account basis in accordance with Section 109.06 - Force Account Provisions and Compensation”

(VIII) Amend **Section 501.05 Payment** by revising lines 514 to 524 to read as follows:

“501.05 Payment. The Engineer will pay for the accepted structural steel on a contract lump sum basis. Payment will be full compensation for the work prescribed in this section and the contract documents.

The Engineer will pay for the accepted Oversized Hardware on a force account basis in accordance with Subsection 109.06 – Force Account Provisions and Compensation.

The Engineer will pay for the accepted Doubler Plates on a force account basis in accordance with Subsection 109.06 Force Account Provisions and Compensation.

The Engineer will pay for the accepted Temporary Bracing on a force account basis in accordance with Subsection 109.06 – Force Account Provisions and Compensation.

Pay Item	Pay Unit
Structural Steel - _____	Lump Sum
Oversized Hardware - _____	Force Account
Doubler Plates - _____	Force Account
Temporary Bracing	Force Account”

END OF SECTION 501

PROPOSAL SCHEDULE

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
209.1000	Installation, Maintenance, Monitoring, and Removal of BMP and Work Platform – Wailuku Bridge	L.S.	L.S.	L.S.	\$ _____
209.2000	Installation, Maintenance, Monitoring, and Removal of BMP and Work Platform – Hakalau Bridge	L.S.	L.S.	L.S.	\$ _____
209.3000	Installation, Maintenance, Monitoring, and Removal of BMP and Work Platform – Nanue Bridge	L.S.	L.S.	L.S.	\$ _____
501.1000	Structural Steel – Wailuku Bridge Repairs	L.S.	L.S.	L.S.	\$ _____
501.2000	Structural Steel – Hakalau Bridge Repairs	L.S.	L.S.	L.S.	\$ _____
501.2200	Doubler Plates – Hakalau Bridge	F.A.	F.A.	F.A.	\$50,000.00
501.3000	Structural Steel – Nanue Bridge Repairs	L.S.	L.S.	L.S.	\$ _____
501.3100	Oversized Hardware – Nanue Bridge	F.A.	F.A.	F.A.	\$5,000.00
501.4100	Temporary Bracing	F.A.	F.A.	F.A.	\$80,000.00
648.1000	Field-Posted Drawings	L.S.	L.S.	L.S.	\$ _____
697.1000	Clean and Paint Structural Steel Members – Wailuku Bridge	L.S.	L.S.	L.S.	\$ _____
697.2000	Clean and Paint Structural Steel Members – Hakalau Bridge	L.S.	L.S.	L.S.	\$ _____
697.3000	Clean and Paint Structural Steel Members – Nanue Bridge	L.S.	L.S.	L.S.	\$ _____
699.1000	Mobilization (Not to exceed 6 percent of the sum of all items excluding bid price of this and force account items)	L.S.	L.S.	L.S.	\$ _____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
Sum of All Items					\$ _____
NOTE: Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid.					

**HAWAII BELT ROAD
HAMAKUA COAST BRIDGE REPAIRS
(WAILUKU, HAKALAU AND NANUE STREAM BRIDGES)**

PROJECT NO. 19HK-01-22M

**PRE-BID MEETING NOTES
OCTOBER 12, 2021**

The following notes are from the Hawaii Department of Transportation (HDOT) pre-bid meeting with prospective bidders for the Hawaii Belt Road, Hamakua Coast Bridge Repairs (Wailuku, Hakalau and Nanue Stream Bridges) project.

The meeting was conducted virtually via Microsoft Teams at 10:00 am.

All attendees were notified of the following:

- All traffic control will be provided by the HDOT Hawaii District Office. Contractor is to coordinate with them at least 11 days prior to any lane closures.
- The Contractor is prohibited from accessing the water under the Wailuku Stream bridge and the ground under the Hakalau and Nanue Stream bridges. All access to do repairs must be from the top of the bridge or from a temporary work platform.
- The bid opening date is still set for November 4, 2021 at 2:00pm.
- Please submit all RFIs thru HlePRO by October 21, 2021.

Attendance List: HDOT
 KSF, Inc.
 Abhe & Svoboda

The meeting ended at 10:05 am.

All items discussed at this meeting are for clarification only. The bid documents shall govern over anything said at the meeting and discrepancies shall be clarified in Addendum No. 1.

Contractor's RFI:

1. I wanted to see if a company with C contractors license specializing in Structural steel/ welding could bid on this project.

The project's scope of work involves multiple license classifications, thus a Contractor's "A" license will be required.

2. Sheet SB0.1 and SC0.1 states: "The contractor shall be entirely responsible for the stability of the bridge and integrity of the members during construction. The addition of temporary bracing prior to removal and replacement of the bridge elements shall be anticipated. At a minimum, the temporary bracing shall have equal or greater strength and stiffness than the member it is replacing. The temporary bracing plan and calculations, stamped..." Please confirm that the Structural Engineer shall analyze only for the temporary bracing of the members to be replaced and not the entire bridge.

That is correct.

3. Can hanging scaffolding be anchored to guardrails/barriers of Hakalau and Nanue bridge? If so, please provide a maximum allowable load for scaffolding.

That would be acceptable. The contractor shall hire a structural engineer licensed in the State of Hawaii to design the scaffolding and check the appropriate bridge members. The plans and calculations stamped by the structural engineer shall be submitted to the Engineer for approval.

4. Sheet SA0.1, structural general note 3.A.1.d states "All structural steel shall be hot-dip zinc galvanized after fabrication." This requirement is not mentioned in sheets SB0.1 and SC0.1. Please confirm for Hakalau and Nanue, hot-dip zinc galvanized is not required.

Only painting is required for Hakalau and Nanue. Hot dip zinc galvanizing is only required for Wailuku.

5. Please confirm if there would be welding on the "right side" of the detail DB14/15E Section (Sheet SC3.2), same as what is shown on the "left side" size 3/16 weld.

Yes, the welding on the right side also applies to the left side. And the welding on the left side also applies to the right side. That is the intent for everything and the meaning of the symmetrical about the centerline.

6. Sheet SB 3.1~3.3 shows angle L4"x3"x5/16" with a length of 30'~35', will field splicing be allowed? If so, please provide splicing detail.

Yes, a full penetration butt weld can be used to splice the angle.

7. Please provide pre-bid meeting minutes.

Pre-bid meeting minutes are included in Addendum No. 1.

8. Sheet SB0.1 and SC0.1 states: "The contractor shall be entirely responsible for the stability of the bridge and integrity of the members during construction. The addition of temporary bracing prior to removal and replacement of the bridge elements shall be anticipated. At a minimum, the temporary bracing shall have equal or greater strength and stiffness than the member it is replacing. The temporary bracing plan and calculations, stamped..." The bridge is not accessible to determine the extent of the damages and the temporary bracing of the member to be replaced is unknown. Although the Contractor can price the design work for this level of effort, the construction portion cannot be determined during the bid period until an Engineer is able to view the structure up close to complete it's design. Contractor suggests that a force account item, for the construction of the temporary members be allocated, so that all bids can be compared equally and the state does not pay for excessive risk for this work.

A Force Account pay item will be added.