STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ADDENDUM NO. 1
for

HANA HIGHWAY IMPROVEMENTS
HUELO TO HANA, PHASE 2C

PROJECT NO. 360AB-01-18

DISTRICT OF HANA

ISLAND OF MAUI

2018

The following amendments shall be made to the Bid Documents:

A. NOTICE TO BIDDERS

Amend the **NOTICE TO BIDDERS** as follows:

1. The receiving of sealed proposals for **HANA HIGHWAY IMPROVEMENTS, HUELO TO HANA, PROJECT NO. 360AB-01-18, DISTRICT OF HANA, ISLAND OF MAUI**, at the Contracts Office, Department of Transportation, 869 Punchbowl Street, Honolulu, Hawaii 96813, & Office of the District Engineer – Maui, 650 Palapala Drive, Kahului, Hawaii 96732 scheduled for 2:00 P.M., May 31, 2018, is hereby POSTPONED UNTIL 2:00 P.M., **June 14, 2018**, at which time and place they will be publicly opened and read.

B. SPECIAL PROVISIONS

1. Replace entire **Section 695 – Portable Concrete Barrier and Inertial Barrier Modules** dated "6/10/14" in its entirety with the attached **Section 695 – Portable Concrete Barrier and Inertial Barrier Modules** dated "r5/16/18".

C. PROPOSAL

1. Replace entire **Proposal** page **P-11** through **P-14**, dated "3/28/18" in its entirety with the attached Proposal pages **P-11** through **P-**14, dated "r5/16/18"

D. PLANS

1. Replace sheet **10** with **ADD. 10** dated 6/16/18. Revise revision date "6/16/18" to read "r5/16/18"

2. Replace sheet **11** with **ADD. 11** dated 6/16/18. Revise revision date "6/16/18" to read "r5/16/18"

3. Replace sheet **13** with **ADD. 13** dated 6/16/18. Revise revision date "6/16/18" to read "r5/16/18"

4. Add sheet **ADD. 13S-1** dated 6/16/18. Revise revision date "6/16/18" to read "r5/16/18"

5. Replace sheet **29** with **ADD. 29** dated 6/16/18. Revise revision date "6/16/18" to read "r5/16/18"

6. Replace sheet **30** with **ADD. 30** dated 6/16/18. Revise revision date "6/16/18" to read "r5/16/18"

7. Replace sheet **31** with **ADD. 31** dated 6/16/18. Revise revision date "6/16/18" to read "r5/16/18"

8. Replace sheet **32** with **ADD. 32** dated 6/16/18. Revise revision date "6/16/18" to read "r5/16/18"

The following is provided for information.

E. PRE-BID MEETING

Attached, for your information:

1. Pre-Bid Meeting minutes, attendance list, and written questions from the May 10, 2018 non-mandatory pre-bid meeting.

F. RFI AND RESPONSES

See attached for RFI and responses.

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.

JADE T. BUTAY
Director of Transportation

NOTICE TO BIDDERS

The receiving of sealed proposals for **HANA HIGHWAY IMPROVEMENT, HUELO TO HANA, PROJECT NO. 360AB-01-18, DISTRICT OF HANA, ISLAND OF MAUI**, at the Contracts Office, Department of Transportation, 869 Punchbowl Street, Honolulu, Hawaii 96813, & Office of the District Engineer – Maui, 650 Palapala Drive, Kahului, Hawaii 96732 scheduled for 2:00 P.M., May 31, 2018, is hereby POSTPONED UNTIL 2:00 P.M., **June 14, 2018**, at which time and place they will be publicly opened and read.

JADE T. BUTAY
Director of Transportation

Make this Section a part of the Standard Specifications:

"SECTION 695 - PORTABLE CONCRETE BARRIER AND INERTIAL BARRIER SYSTEM

695.01 Description. This section is for furnishing, hauling, installing, maintaining, relocating, and subsequently removing portable concrete barriers and inertial barrier systems according to the contract documents.

695.02 Materials.

(A) Portable Concrete Barriers. Materials shall meet the requirements specified in the following subsections of Division 700 - Materials.

Reinforcing Steel	709.01
Reflector Marker	712.21
Preformed Pavement Marking Tape	712.53
Structural Steel	713.01
Bolts and Nuts	713.03

(B) Inertial Barrier Systems (Portable Concrete Barrier End Treatment).

(1) Container. The Inertial Barrier shall consist of modules in 200, 400, 700, 1400, and 2100 lbs. sizes. 200, 400, 700 and 1400 lbs. modules shall consist of a container molded in one piece with a minimum capacity of 21 cubic feet. The material shall be durable, weatherproof, and shall be formulated to resist deterioration from ultraviolet rays. The color shall be yellow. This model must be of continuous molded construction and be nestable. The modules shall be designed and manufactured from a frangible polyethylene material which shall shatter upon impact to permit dispersion of the sand mass container within.

(2) Lid. Each module shall have a black lid which locks securely over the top lip of the outer container. Material shall be durable, weatherproof, and shall be formulated to resist deterioration from ultraviolet rays.

(3) Insert. All 200, 400 and 700 lbs. modules will require a cone-shaped supporting insert used to support various sand masses. Cone inserts shall be of one-piece molded construction and be nestable.

(4) Sand. Sand placed into these modules should be washed concrete sand conforming to ASTM-C-33 or equal.

Each Inertial Barrier System array shall be configured to provide a satisfactory average rate of deceleration (8 g's maximum preferred for each row) for errant vehicles in the weight ranges of 1810 to 4410 lbs. The inertial barrier system shall meet the requirements of NCHRP 350 for Test Level 3 for non-redirective gating crash cushions. For impact vehicles weighing between 1810 and 4410 lbs. and traveling at speeds of up to 62 mph, the maximum 24-inch occupant fail space velocity shall be less than 39 ft/sec and the vehicles' highest 10 millisecond occupants' ride-down acceleration shall be less than 20 g's.

The center of gravity of each properly filled module shall be at a height which will aid in controlling the pitch of standard passenger vehicles.

The components of the modules shall interface to prevent leakage of sand contained therein. The interface shall, however, permit drainage of excess water contained within the sand mass.

695.03 Construction Requirements.

(A) Portable Concrete Barriers.

(1) Fabrication. Construct the contractor furnished portable concrete barriers in accordance with contract plans and as modified herein. The barriers shall be in 20 - foot segments. The identification and date of design shall be placed at the location shown in the plans. Modify date of design "Oct 2001" to "Oct 2001A". Prior to fabrication of the portable concrete barrier, submit detailed shop drawings to the Engineer for acceptance.

(a) Forms. Forms shall be according to Section 503 - Concrete Structures.

(b) Concrete. Use 5000 psi concrete with synthetic structural fiber reinforcement (structural fiber). Use an amount of structural fiber that will result in an average residual strength of 265 pounds per square inch. ASTM C1399 shall determine average residual strength. Structural fiber shall be a system made of a twisted bundle combination of fully-oriented non-fibrillation monofilament and a fibrillating copolymer/polypropylene network fiber system. All material shall be 100% virgin material and shall be non-corrosive, non-magnetic and be 100% alkali proof. The fibers shall have a tensile strength not less than 90 ksi. Structural fiber shall have a nominal length of 2-¼", gray in color to match the concrete and comply with or exceed ASTM C-1116. It shall have an aspect ratio (length divided by the equivalent diameter of the fiber) between 115 and

165. The Engineer has determined and accepted that 7.5 pounds of Forta Ferro® fiber per cubic yard of concrete will result in 265 pounds per square inch average residual strength. When structural fiber is specified in pounds per cubic yard of concrete, it shall mean the specified dosage is an amount of Forta Ferro® fiber that will provide the required average residual strength. The dosage of another manufacture's structural fiber may not have the same results and shall be adjusted and accounted for. No additional compensation will be granted for the additional weight of fiber.

(c) Placing Concrete. Moisten the form thoroughly and immediately prior to the placing of the concrete. Place the concrete in accordance with Section 503 - Concrete Structures.

(d) Curing. Steam or water-cure the portable concrete barriers in accordance with Subsection 504.03(G) - Curing.

(e) Handling. Do not handle the portable concrete barriers until the concrete has attained a compressive strength of more than 3,000 pounds per square inch. Use the lifting holes to hoist the portable concrete barrier. Do not use the drainage slots that are located at the bottom of the barrier to lift or move barricades. Repair or replace units damaged by improper handling at no increase in contract price and contract time.

The Engineer will permit stacking of precast units with prior acceptance by the Engineer of the method to be employed by the Contractor.

(f) Accessories. Furnish, install maintain one RM-2 reflector marker on top of the concrete barrier (not RM-3 as shown on the Standard Plan), a longitudinal 4-inch by 20 feet permanent preformed pavement marking tape, Type I (color to match appropriate roadway pavement stripe) on the lower sloped side of the barrier facing traffic, and a steady burn amber lamp on each barrier unit. The longitudinal 4-inch permanent preformed pavement marking tape shall be installed on a surface that has the tape's manufacturer's recommended primer applied to it in a manner acceptable to the manufacturer and the Engineer.

Type II Barricade with a steady burn amber lamp on each barricade in accordance with MUTCD Chapter 6.

(g) Ownership. Upon completion of the project, the portable concrete barriers and the portable concrete barrier

end treatments shall become the property of the Department of Transportation, Highways Division, Maui District. Prior to fabrication of the portable concrete barrier, submit detailed shop drawings to the Engineer for acceptance.

(2) Installation. Erect all units as shown on the contract documents or as specified by the Engineer. Set the units in a vertical position, closely following the roadway grade. The units shall have a maximum of 1/4-inch offset in any direction between adjacent panels at the connections.

Horizontal alignment of the panels shall be such that any panel is not out of alignment by more than 1/2-inch from straight line. Furnish and install steel pins for connecting the barrier sections according to contract documents.

Do not leave barrier ends exposed to traffic, and shall provide treatment that complies with NCHRP 350 Test Level 3 criteria. Do not mix portable concrete barriers not constructed in accordance with the October 2001A design with barriers with newly constructed units within the same barrier installation.

Relocate any units or existing barriers during construction at the locations shown in the contract documents or as ordered by the Engineer.

Upon completion of the work, clean, repair, remove, haul, off load and store all units at the location shown in the contract documents or as ordered by the Engineer. If the final designation is not available when the units are ready to be removed, haul the units to an interim location or to an alternate Engineer designated location at no additional cost to the State.

The cleaning and repair of the units shall be performed regardless of cause, such as accidents, 'wear and tear' or improper handling by the Contractor during use. Repair all damaged unit back to its original configuration, i.e., undamaged condition. A damaged unit that, in the judgment of the Engineer, is considered irreparable shall be replaced with a new unit at no increase in contract price or contract time. The Engineer will inspect and find if all units are acceptable at the storage area designated in the contract documents or at a location designated by the Engineer. Any unit that is not cleaned or repaired to an acceptable condition shall be removed from the designated storage site and not returned until is made acceptable.

(3) Type II Barricades. Furnish, install and maintain Type II Barricades with lamp as channelizing devices. Spacing shall be in accordance with the requirements of MUTCD part 6. Their position shall comply with MUTCD Typical Application 5, found in part 6.

(B) Inertial Barrier System (Portable Concrete Barrier End Treatment).

(1) The portable concrete barrier end treatment shall be a non-redirective, energy-absorbing terminal providing impact protection. It shall meet NCHRP 350, Test Level 3 criteria for Non-Redirective Crash Cushions, as accepted by FHWA. Submit a brochure of the product to be used for acceptance by the Engineer prior to ordering the end treatment.

(2) The portable concrete barrier end treatment shall be designed for easy attachment to and removal from the end of the concrete barrier. The nose of the system shall be equipped with a chevron sign, a crash cushion object marker (CCOM) which shall be reversible to match the corresponding traffic direction.

(3) Installation and use of the end treatment shall be consistent with shy-line and placement guidelines specified in the current edition of the AASHTO Roadside Design Guide.

(4) Provide, install, and maintain a NCHRP 350 compliant end treatment compatible with the barrier units. The end treatment shall be attached and installed in compliance with the manufacturers instructions. If requested by the Engineer, provide three copies of the maintenance and operational manual for the end treatments along with an instructional class for State personnel on the installation and removal of the end treatment.

(5) Haul the portable concrete barrier end treatment to the project site. Prepare the beds and set the portable concrete barrier end treatment at a location shown in the contract documents or as directed by the Engineer.

(6) Furnish, install, and maintain attachment for connecting the portable concrete barrier end treatment to the barrier unit.

(7) Furnish install and maintain crash cushion object marker (CCOM) on each portable concrete barrier end treatment in accordance with the contract documents.

(8) Relocate the portable concrete barrier end treatment during construction at the locations shown in the contract documents or as ordered by the Engineer.

(9) Upon completion of the work, clean, repair, remove, haul, off load and store the portable concrete barrier end treatment at the location shown in the contract documents or as ordered by the

Engineer. If the final destination is not available when the units are ready to be removed, haul the units to an interim location or to an alternate Engineer designated location at no increase in contract price or contract time.

The cleaning and repair of the portable concrete barrier end treatments shall be performed regardless of cause, such as 'wear and tear' or improper handling by the Contractor during use. Repair shall include replacement of all damaged portions of the portable concrete barrier end treatment back to its original configuration. A portable concrete barrier end treatment damaged that, in the judgment of the Engineer, is considered irreparable shall be replaced with a new portable concrete barrier end treatment at no increase in contract price or contract time. All portable concrete barrier end treatments will be inspected and found acceptable by the Engineer before returning them to the area designated in the contract documents or as directed by the Engineer.

(10) The portable concrete barrier end treatment shall become the property of the Contractor after project completion.

(C) Pavement Striping and Markers for Lane Shifting.

Furnish and install pavement striping and markings according to Section 629 - Pavement Markings, Subsection 629.03(C). Do not use temporary pavement striping and markers. Striping shall be done in accordance with the contract documents or as directed by the Engineer. If no striping plan is provided, submit striping plan for review and acceptance by the Engineer a minimum of14 days prior to the setting of the units. Upon completion of the contract work, remove the lane shift striping and markers, and restore original striping and markers in accordance with the contract documents or as directed by the Engineer.

695.04 Method of Measurement. The Engineer will measure portable concrete barriers.

The Engineer will not measure installing, maintaining, and subsequently removing lane shift pavement striping and markers for payment.

695.05 Basis of Payment. The Engineer will pay for the accepted portable concrete barriers on a contract price per pay unit, as shown in the proposal schedule. The price includes full compensation for work prescribed in this section and the contract documents.

The Engineer will not pay for the accepted installing, maintaining, relocating, and subsequently removing the portable concrete barriers separately. The Engineer shall consider the cost for the accepted installing, maintaining, relocating, and subsequently removing the portable concrete barriers as included in the contract price of the contractor furnished portable concrete barriers. The price includes full compensation for preparing beds; hauling and setting portable concrete barriers; installing connector pins; maintaining reflector markers, lamps, and permanent preformed pavement marking tape; cleaning and relocating portable concrete barriers during construction; cleaning and hauling the portable concrete barriers after completion of the project to the Maui District Baseyard or to a place designated by the Engineer; and furnishing labor, materials, tools, equipment and incidentals necessary to complete the work.

The Engineer will not pay for the accepted inertial barrier modules separately. The Engineer shall consider the cost for the accepted inertial barrier modules as included in the contract price of the portable concrete barriers. The price includes full compensation for the work prescribed in this section and the contract documents.

The Engineer will not pay for the accepted installing, maintaining, relocating, and subsequently removing the inertial barrier modules separately. The Engineer shall consider the cost for the accepted installing, maintaining, relocating, and subsequently removing the inertial barrier modules as included in the contract price of the portable concrete barriers. The price includes full compensation for submitting a list of materials and equipment to be incorporated in the work; grading and compacting the ground; furnishing, assembling, and installing an inertial barrier system; relocating inertial barrier modules to locations specified in the contract; filling each installed inertial barrier module with sand; removal and disposal of sand; cleaning and hauling the empty modules to the designated locations or as directed by the engineer upon completion of the project, and furnishing labor, materials, tools, equipment and incidentals necessary to complete the work.

The Engineer will not pay for the accepted pavement striping and markers for lane shifting separately. The Engineer will consider the cost for the accepted pavement striping and markings for lane shifting as included in the contract price of the portable concrete barriers. The price includes full compensation for submitting the striping plans; removing the existing pavement striping and markers; installing the lane shift pavement striping and markers; removing the lane shift striping and markers; and restore original striping and markers according to the contract or as directed by the Engineer; and furnishing labor, materials, tools, equipment and incidentals necessary to complete the work.

The Engineer will pay for each of the following pay items when included in the proposal schedule:

Portable Concrete Barrier	Each

The Engineer will make partial payments as follows:

(1) Pay 40% of the amount bid when the barrier are furnished and delivered to the jobsite and prepared the ground for installation.

(2) Pay 20% of the amount bid when the barrier are assembled and installed at the initial location shown in the contract documents.

(3) Divide 30% of the amount bid by the number of months remaining in the contract. Pay that percentage each month, when barriers are satisfactorily relocated and maintained during construction, and damaged barriers replace.

(4) Pay the remainder of the contract amount upon removal and delivery of the barriers and modules after completion of the project or as directed by the Engineer."

END OF SECTION 695

PROPOSAL SCHEDULE					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
201.0100	Clearing and Grubbing	L.S.	L.S.	L.S.	$_____
202.0200	Removal of Existing Pavement	L.S.	L.S.	L.S.	$_____
202.0300	Removal of Existing Concrete Sidewalk	L.S.	L.S.	L.S.	$_____
202.0400	Removal of Existing Bush	L.S.	L.S.	L.S.	$_____
202.0500	Removal of Existing Signs	L.S.	L.S.	L.S.	$_____
202.0600	Removal of Existing Earth Berm	L.S.	L.S.	L.S.	$_____
202.0900	Removal of Existing Object Markers	L.S.	L.S.	L.S.	$_____
203.0100	Roadway Excavation	352	CY	$_____	$_____
205.1000	Structural Excavation for Initial and Final Wall Facing	L.S.	L.S.	L.S.	$_____
206.2020	Excavation for Outlet Structure	L.S.	L.S.	L.S.	$_____
206.2030	Excavation for 24" Drainline	L.S.	L.S.	L.S.	$_____
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.	F.A.	$ 42,500.00
304.1000	Aggregate Base	L.S.	L.S.	L.S.	$_____

PROPOSAL SCHEDULE					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
401.0400	HMA Pavement, Mix No. IV	514	TON	$_____	$_____
401.0500	HMA Pavement Under Guardrail, Mix No. IV, for Guardrail Mow Strip	55	TON	$_____	$_____
415.1000	Cold Planing	L.S.	L.S.	L.S.	$_____
503.1000	Concrete for Outlet Structure	L.S.	L.S.	L.S.	$_____
508.0100	Cement Rubble Masonry	L.S.	L.S.	L.S.	$_____
602.1000	Reinforcing Steel for Initial and Final Wall Facing	L.S.	L.S.	L.S.	$_____
602.2000	Reinforcing Steel for Outlet Structure	L.S.	L.S.	L.S.	$_____
603.6100	24-Inch Reinforced Concrete Pipe, Class 3	L.S.	L.S.	L.S.	$_____
603.7000	Bed Course Material for Culvert	L.S.	L.S.	L.S.	$_____
604.5000	Type 1A-9P Inlet, 4 Feet to 4.99 Feet	2	EA	$_____	$_____
606.3110	Guardrail, Type 3 W-Beam with Strong Posts	L.S.	L.S.	L.S.	$_____
606.7000	Terminal Section, Type A Flare	L.S.	L.S.	L.S.	$_____
606.7010	Terminal Section, Type G	L.S.	L.S.	L.S.	$_____
606.7020	Terminal Section, Modified Type G	L.S.	L.S.	L.S.	$_____

PROPOSAL SCHEDULE					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
628.1000	Sculpted and Stained Shotcrete	562	SY	$_____	$_____
629.1010	4-Inch Pavement Striping (Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$_____
629.2020	Type C Pavement Marker	L.S.	L.S.	L.S.	$_____
629.2030	Type D Pavement Marker	L.S.	L.S.	L.S.	$_____
631.1000	Regulatory Sign (10 Square Feet or Less)	L.S.	L.S.	L.S.	$_____
631.2000	Warning Sign (10 Square Feet or Less)	L.S.	L.S.	L.S.	$_____
631.3000	Relocation of Existing Regulatory Sign	L.S.	L.S.	L.S.	$_____
631.4000	Relocation of Existing Warning Sign	L.S.	L.S.	L.S.	$_____
632.1000	Type III Object Marker	L.S.	L.S.	L.S.	$_____
645.0100	Traffic Control	L.S.	L.S.	L.S.	$_____
645.0200	Additional Police Officers, Additional Traffic Control Devices, and Advertisement	F.A.	F.A.	F.A.	$ 56,500.00
648.0100	Field Posted Drawings	L.S.	L.S.	L.S.	$_____
657.1000	Soil Nail Installation	L.S.	L.S.	L.S.	$_____
675.0100	Vegetative Geotextile for Erosion Control Applications	L.S.	L.S.	L.S.	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
695.0100	Portable Concrete Barriers	40	EA	$_____	$_____
696.0100	Field Office Trailer (Not to exceed $32,000.00)	L.S.	L.S.	L.S.	$_____
696.0200	Maintenance of Trailer	F.A.	F.A.	F.A.	$ 20,000.00
699.1000	Mobilization (Not to exceed 6 Percent of the sum of all items excluding bid price of this item)	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 bid.

WILSON OKAMOTO CORPORATION

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7976-01
May 11, 2018

PRE-BID MEETING MINUTES MEMO

SUBJECT: HANA HIGHWAY IMPROVEMENTS, PHASE 2C, HUELO TO HANA
PROJECT NO. 360AB-01-18

PERSONS PRESENT: See attached sign-in sheet.

MEETING DATE: Began 10:30 am May 10, 2014
Ended 10:50 am

MEETING LOCATION: DOT-Maui District

INFORMATION ITEMS:

1. Fred Gutierrez reviewed the Contract and noted that questions must be submitted in writing at least 14 calendar days prior to bid opening. Questions received less than 14 days prior to bid opening will not be considered.
2. Fred reviewed the scope of the project and different project sites and noted that this project is a re-package Phase 2B which was advertised and cancelled last year.
3. Brian Lock also reviewed the scope of the project and noted:
   a. Safety improvements; new guardrail, slope stabilization through soil nail walls at MP 8.1 and 19.0; drainage improvements; restriping and resigning.
   b. There is an approved NPDES permit for construction activities that expires on September 23, 2019.
   c. Contractors should review qualification and submittal requirements for Section 628 Shotcrete and Section 657 Soil Nail Retaining Wall.
   d. Take note of the limited access of Hana Highway.
   e. Due to recent updates to DOT guardrail details, revised guardrail detail sheets will be provided in a subsequent Addendum.

QUESTIONS:

1. See attached.
   Response: Responses will be provided in a subsequent Addendum.

Prepared by: Brian Lock, Wilson Okamoto Corporation

PRE-BID MEETING SIGN IN SHEET

HANA HIGHWAY IMPROVEMENTS
PHASE 2C, HUELO TO HANA
PROJECT NO. 360AB-01-18
DISTRICT OF HANA
ISLAND OF MAUI

THURSDAY, MAY 10, 2018 AT 10:30 AM
MAUI DISTRICT OFFICE CONFERENCE ROOM

NAME	COMPANY	PHONE NO./FAX NO.	EMAIL
Fred Gutierrez	HDOT Maui District	(808) 873-3419	fred.c.gutierrez@hawaii.gov
Ervin Pigao	HDOT Maui District	(808) 873-3535	ervin.anthony.pigao@hawaii.gov
Mike Nakashima	HDCC	281-2233	mnakashima@hdcc.com
Richard Haile	HDCC	286-3450	rhaile@hdcc.com
PETERSON, BRYCE	KIEWIT	495-6244	bryce.peterson@kiewit.com
BRIAN LOCK	WILSON OKAMOTO CORP	808 946 2277	BLOCK@WILSONOKAMOTO.COM

PROJECT: HANA HIGHWAY IMPROVEMENTS,PHASE 2C, HUELO TO HANA
PROJECT NO: 360AB-01-18
SUBJECT: PRE-BID MEETING -REQUEST FOR INFORMATION
DATE AND TIME: MAY 10,2018/ 10:30 A.M., MAUI DISTRICT CONFERENCE ROOM
CONTRACTOR:

No.	Questions
1	Special Provision 695 says Inertial Barrier System will be paid for by "EACH." There is no bid item for Inertial Barrier System.

RFI AND RESPONSES

RFI 1A – Could you confirm that the Contract Time will be computed on a Working Day basis and adjustments to the Completion Time will be granted for the rainy (inclement) weather common to the site of the proposed work?

RFI 1A Response: Confirmed. Refer to specifications.

RFI 1B – Could you clarify whether the Soil Nail Contractor (selected by the Prime Contractor) will be permitted to submit his Qualifications to the Engineer for review and approval prior to issuance of the NTP?

RFI 1B Response: Yes, qualifications may be submitted to the Engineer after Contract Award and prior to Notice to Proceed.

RFI 1C – Will it be acceptable to have the Engineer require prospective Soil Nail Contractors to submit their qualifications (as provided in §102.01) for his review and approval prior to the Bid Opening Date (BOD) for the purpose of issuing a list of "pre-qualified" Soil Nail Contractors to prospective Prime Bidders prior to the BOD?

RFI 1C Response: Contract will be awarded according to Special Provision Section 102 – Bidding Requirements and Conditions.

RFI 1D - Could you confirm that the Engineer will select the Production Soil Nails to be proof tested prior to installation of all the Soil Nails in the current lift to expedite the testing timeline and the completion of the work in the shortest time possible?

RFI 1D Response: Testing nails shall be selected after installation by the Engineer and the selection of the testing nails could be done along the progress of the construction to expedite the testing timeline.

RFI 1E - Could you clarify whether the Engineer will permit the Soil Nail Contractor to order materials for the work based on the quantities in the Bid Documents to avoid delays in the procurement timeline?

RFI 1E Response: Pre-ordering materials prior to the pre-production program may be permitted provided no cost change if the production nails are required to be lengthened and shortened.

RFI 1F - If the Soil Nail Contractor is permitted to order materials for the work based on preliminary quantities, could you confirm that adjustments to the bar lengths by field coupling and/or splicing of the Soil Nail bars in accordance with the manufacturer's recommendations will be permissible?

RFI 1F Response: Coupling and/or splicing may be permitted provided the manufacturer certifies the details and corrosion protection with approval by the Engineer.

RFI 1G - Could you clarify whether the Soil Nail Contractor will be permitted to provide the submittals required by §657.05 to the Engineer for review and approval prior to issuing an NTP?

RFI 1G Response: Submittals may be forwarded to the Engineer after Contract Award and prior to Notice to Proceed.

RFI 2 - Could you clarify whether a hole diameter other than 8" will be acceptable?

RFI 2 Response: Minimum 8-inch diameter bore hole for the soil nail.

RFI 3 - In addition to the boring logs, can we be provided a copy of the subsurface exploration report in its entirety, preferably in a digital format such as pdf?

RFI 3 Response: Subsurface exploration report is not available for review by Contractors.

RFI 4A – Could you confirm a total of 5 (Five) verification tests will be required?

RFI 4A Response: Correct. On S1.2, the callout should be "Pre-Production Sacrificial/Verification Test Nail #2".

RFI 4B – Could you clarify/confirm the 5 (Five) verification tests will be performed on 2 sacrificial test nails plus 3 production soil nails?

RFI 4B Response: Correct.

RFI 4C – Could you confirm proof testing of 20 (Twenty) soil nails equal to 10% of 204 production nails will be required?

RFI 4C Response: Proof testing of 21 soil nails will be required.

RFI 5 – Could you provide more details regarding the access and assistance to be furnished the Engineer at this difficult work site?

RFI 5 Response: We envision that the strain gauges will be installed onto the soil nail bars at the staging area and the contractor should be protected them from damage during transporting to the site.

RFI 6 – Could you clarify/confirm the 75% payment will be made on a pro-rata basis as each soil nail is accepted?

RFI 6 Response: The 75% payment is pro-rata of the total quantity of nails installed as each soil nail is accepted. The final 25% will be held until all nails have been installed, tested, and accepted and work area has been cleaned.

RFI 7A – Could you confirm the grout must contain a maximum of 4 Gallons of water per sack of cement, which is equal to a W:C ratio of .35:1?

RFI 7A Response: Correct.

RFI 7B - Could you clarify whether a differing mix design (other than per Note 4C) will be acceptable if it meets the specified compressive strength and other relevant requirements of the Project Documents?

RFI 7B Response: Contractor should bid job assuming grout mix design as stipulated in Contract Drawings. Alternative grout mix may be proposed for substitution request if equal to or better. Engineer will determine if equal to or better.

RFI 8A - Could you confirm ASTM A934 is the applicable standard for epoxy coating of the soil nail bars?

RFI 8A Response: Yes, ASTM A934 is the applicable standard for epoxy coating of the soil nail bars.

RFI 8B - Will it be permissible to furnish the soil nail bars in sections to be joined together in the field to provide the required length(s) by employing couplers and procedures in compliance with the manufacturer's recommendations?

RFI 8B Response: No.

RFI 8C - Could you confirm the bars are to be epoxy coated and the associated hardware is to be hot-dip galvanized?

RFI 8C Response: Yes, the soil nail bar is to be epoxy coated and all associated hardware is to be hot-dip galvanized.

RFI 9 - Will it be permissible to furnish the soil nail bars using Grade 75 (ASTM A615) material with published yield and ultimate strengths of approximately (slight variations between manufacturers) 95 kips and 127 kips?

RFI 9 Response: It may be considered, subject to approval by the Engineer, provided yield strength is equivalent to #10 bar Grade 60.

RFI 10A - Can you (HIDOT) provide information on the most "stringent" of the limitations on the sizes and weights of vehicles allowable on the route via "The Road to Hana" to the site?

RFI 10A Response: Vehicle size and weight limited to 10 Tons along State Highway, Route 360.

RFI 10B - What are the permissible working hours and road blockage hours at the site?

RFI 10B Response: For permissible working hours, see Standard Specification Section 107. Follow traffic control plan for single-lane alternating traffic during working hours. Intermittent, short-duration (a few minutes) road closure is allowed.

RFI 11A - Is a shop drawing submittal required for the soil nail bars?

RFI 11A Response: Yes, please submit soil nail bar shop drawings along with all other required submittals as stated in Special Provision Section 657.05.

RFI 11B - Could you confirm that the corrugated plastic sheathing is to extend a minimum 3" into the 4" Initial Shotcrete Facing? Will field trimming of the plastic sheathing be permitted?

RFI 11B Response: Yes, corrugated plastic sheathing shall extend a minimum 3-inches into the initial shotcrete facing. Field trimming of the plastic sheathing will be permitted.

RFI 11C - Could you clarify the requirements of the Certificate of Compliance stipulated in §657.05F relative to the Soil Nail Centralizers?

RFI 11C Response: The certificate of compliance shall meet the requirements of Special Provision 657.03(B)(3).

RFI 12 – Special Provision 695 says Inertial Barrier System will be paid for by "EACH". There is not bid item for Inertial Barrier System.

RFI 12 Response: Inertial Barrier Systems shall be incidental to Special Provision Section 695. See Addendum No. 1.

RFI 13 – Will it be permissible to stage equipment within the various turn-outs along Hana Highway.

RFI 13 Response: Equipment staging shall be allowed within turn-outs in the Project vicinity and within DOT Right-of-way, and shall be communicated and coordinated with Maui District DOT.

RFI 14 – Please clarify the difference between the two bid items 206.2020 Excavation for Outlet Structure and 206.2030 Excavation for 24" Outlet Structure

RFI 14 Response: See Addendum No. 1.

RFI 15 – Special Provision 695 says Inertial Barrier System will be paid for by "Each". There is no bid item for Inertial Barrier System.

RFI 15 Response: See Addendum No. 1.

End of RFI Responses