STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ADDENDUM NO. 2
for
FARRINGTON HIGHWAY,
REPLACEMENT OF MAKAHA BRIDGE NO. 3 AND
MAKAHA BRIDGE NO. 3A

FEDERAL-AID PROJECT NO. BR-093-1(20)

November 25, 2020

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

A. NOTICE TO BIDDERS

Prospective bidders are hereby notified that receiving of bids will be re-scheduled for 2:00 P.M., December 11, 2020. The attached NOTICE TO BIDDERS shall be incorporated and made part of the NOTICE TO BIDDERS.

B. SPECIFICATIONS

1. Replace TABLE OF CONTENTS dated 9/17/20 with the attached TABLE OF CONTENTS dated r11/20/20.

2. Replace Section 511 - DRILLED SHAFTS dated 09/18/20 with the attached Section 511 - DRILLED SHAFTS dated r11/20/20.

3. Replace Section 606 - GUARDRAIL dated 8/13/20 with the attached Section 606 - GUARDRAIL dated r11/20/20.

4. Add Section 635 – E-CONSTRUCTION dated r11/20/20.

5. Add Section 671 – PROTECTION OF ENDANGERED SPECIES dated r11/20/20.

6. Replace Wage Rates dated 10/09/2020 with the attached Wage Rates dated 10/30/2020.

C. PROPOSAL

1. Replace PROPOSAL SCHEDULE pages P-8 to P-22 dated 10/12/20 with the attached PROPOSAL SCHEDULE pages P-8 to P-24 dated r11/20/20.

D. PLANS

1. Replace Plan Sheet Nos. 12,13,14,16 to 30, 32, 33, 35, 36, 38, 42, 43, 56, 57, 58, 59, 60, 68, 69, 70, 71, 78, 79, 80 with the attached Plan Sheet Nos. ADD. 12, ADD. 13, ADD. 14, ADD.16 to ADD. 30, ADD. 32, ADD. 33, ADD. 35, ADD. 36, ADD.38, ADD. 42, ADD. 43, ADD. 56, ADD. 57, ADD. 58, ADD. 59, ADD.60, ADD. 68, ADD. 69, ADD. 70, ADD. 71, ADD. 78, ADD 79, ADD. 80.

The following is provided for information:

A. CONTRACTOR'S RFI

The responses to Contractor's RFI are attached for your information.

B. PRE-BID MEETING MINUTES

Attached are the November 2, 2020 Pre-Bid Meeting Notes for your information.

C. AS-BUILT PLANS

Attached are as-built plans of Makaha Bridges.

D. GEOTECHNICAL INVESTIGATION REPORT

Attached is the Geotechnical Investigation Report dated 7/2/20 and Addendum 1 dated 7/21/20.

E. UTILITY AGREEMENTS

Attached are copies of UA No. 2061, UA 2062, UA No. 2063 and UA No. 2064.

Please acknowledge receipt of this Addendum No. 2 by recording the date of its receipt in the space provided on the page P-4.

JADE T. BUTAY
Director of Transportation

NOTICE TO BIDDERS

The receiving of sealed bids for **FARRINGTON HIGHWAY, REPLACEMENT OF MAKAHA BRIDGE NO. 3 AND MAKAHA BRIDGE NO. 3A, FEDERAL-AID PROJECT NO. BR-093-1(20), DISTRICT OF WAIANAE, ISLAND OF OAHU,** in HIePRO, is hereby re-scheduled for 2:00 P.M., December 11, 2020.

_____
JADE T. BUTAY
Director of Transportation

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SECTION 511 – DRILLED SHAFTS

Make the following amendments to said Section:

(I) Amend **511.03(A)(1) Experience Record** by revising lines 53 to 62 to read as follows:

(1) Experience Record. Submit experience record demonstrating the drilled shaft contractor has successfully completed at least three projects in the last ten years, in which an oscillator casing system was used for drilled shafts of diameter and length similar to those shown in the contract documents. The drilled shaft contractor shall have on its payroll, supervisory personnel who have participated in drilled shaft construction, similar to the type proposed, for duration of at least three years within the last 10 years.

(II) Amend **511.03(C)(2)(c) Casing Construction Method.** by revising lines 209 to 215 to read as follows:

(c) Casing Construction Method. Temporary casing that is used in the drilled shaft that is deeper than 20 feet shall be installed with an oscillator method of drilled shaft construction.

(III) Amend **511.03(C)(12)(b)1**. by deleting lines 923 and 924 and replacing with the following:

"1. If the Engineer has reviewed the results of the CSL testing and determines that sufficient anomalies exist that warrant additional integrity testing of the shaft(s), a core sample shall be drilled in accordance with the requirements outlined in 511.03(C)(12)(b)2, 511.03(C)(13) and 511.03(C)(14)."

(IV) Amend **511.04 – Measurement** by deleting lines1009 through 1012 and replacing with the following:

"(K) The Engineer will not measure coring samples if they are required. If the Engineer determines that core samples are required based on the CSL test results, all costs associated with coring of the hole(s) and filling of the holes shall be paid for by the contractor at no cost to the State."

(V) Amend **511.04 – Measurement** by adding the following after line 1017:

"**(M)** The Engineer will pay for CSL Test of Drilled Shafts on a Lump Sum basis in accordance with contract documents. Measurement for payment will not apply.

(N) The Engineer will measure Test Shafts per linear foot in accordance with contract documents."

(IV) Amend **511.05 – Payment** by revising lines 1019 to 1173 to read as follows:

511.05 Payment. The Engineer will pay for the accepted pay items listed below at the contract price per pay unit, as shown in the proposal schedule. Payment will be full compensation for the work prescribed in this section and the contract documents.

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

Pay Item	Pay Unit
Furnishing Drilled Shaft Drilling Equipment (_____)	Lump Sum

The Engineer will pay for:

(A) 60 percent of the contract bid price when drilling equipment is on job site, assembled, and ready to drill foundation shafts.

(B) 40 percent of the contract bid price upon completion of drilling shafts, and placing shaft concrete up to top of shafts.

Obstruction (_____) Hour

The Engineer will pay for:

(A) 80 percent of the contract bid price upon completion of removing the obstruction.

(B) 20 percent of the contract bid price upon removing and disposing of the obstruction.

The maximum payment per designated obstruction shall not exceed 20 times the unit cost for standard excavation or unclassified excavation whichever is less.

Load Test (_____) Each

The Engineer will pay for:

(A) 100 percent of the contract bid price upon completion of testing the load and other related costs to performance of load test.

Drilled Shaft (_____) Linear Foot

The Engineer will pay for:

(A) 60 percent of the contract bid price upon completion of drilling.

(B) 15 percent of the contract bid price upon completion of furnishing, assembling, and placing steel cage.

(C) 15 percent of the contract bid price upon completion of furnishing and placing concrete.

(D) 10 percent of the contract bid price upon completion of removing and disposing of excavated material.

Standard Excavation (_____) Linear Foot

The Engineer will pay for:

(A) 80 percent of the contract bid price upon completion of excavating for drilled shaft by using conventional tools include augers fitted with soil or rock teeth, drilling buckets, and overreaming (belling buckets) attached to drilling equipment.

(B) 20 percent of the contract bid price upon completion of removing and disposing of excavated material.

CSL Test on Drilled Shafts (_____) Lump Sum

The Engineer will pay for installation of CSL test conduits into shaft rebar cage, testing, and preparation of report describing the results of the testing and any recommendations to remediate any discrepancies in the shaft.

Test Shaft L.F.

The Engineer will pay for the construction of the test shafts, in place complete, as described and located in the contract plans."

END OF SECTION 511

SECTION 606 – GUARDRAIL

Make the following amendment to said Section:

(I) Amend **606.04 - Measurement** by replacing lines 116 to 118 to read:

"**606.04 Measurement.** The Engineer will measure guardrail per linear foot in accordance with the contract documents.

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

The Engineer may measure end anchorage, terminal section and transition section:

(1) include in the quantities of guardrail of the respective type and not measured separately"

(II) Amend **606.05 – Payment** by revising lines 120 to 138 to read as follows:

"**606.05 Payment.** The Engineer will pay for the accepted pay items listed below at contract price per pay unit, as shown in the proposal schedule. Payment will be full compensation for the work prescribed in this section and the contract documents.

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

Pay Item	Pay Unit
Guardrail Thrie Beam Transition (_____)	Linear Foot
Guardrail _____	Linear Foot"

END OF SECTION 606

Make the following Section a part of the Standard Specifications:

"SECTION 635 – E-CONSTRUCTION

635.01 Description. This section is for furnishing e-construction software for the Project.

635.02 General Requirements. The Contractor shall:

(A) Provide licenses for the E-Construction platform designated by HDOT.

635.03 Not used.

635.04 Measurement. The Engineer will measure the fee for the license(s) associated with the "E-Construction Program" on a force account basis in accordance with Subsection 109.06 – Force Account Provisions and Compensation.

635.05 Payment. The Engineer will pay for the fee for the license for the E-construction Program on a force account basis in accordance with Subsection 109.06 – Force Account Provisions and Compensation. Payment will be full compensation for the "E-Construction" licensing fee as prescribed in this section and contract documents. The actual amount to be paid will be the sum shown on the accepted force account records whether this sum be more or less than the estimated amount allocated in the proposal schedule."

Pay Item	Pay Unit
E-Construction license	Force Account

END SECTION

Make the following section a part of the Standard Specifications:

"SECTION 671 – PROTECTION OF ENDANGERED SPECIES

671.01 Description. The endangered Hawaiian Stilt (Ae`o, Himantopus mexicanus knudseni), the endangered Hawaiian hoary Bat (`Ope`ape`a, *Lasiurus cinereus semotus*), the threatened Green sea turtle (Honu, Chelonia mydas), endangered Hawksbill sea turtle (Honu`ea, Eretmochelys) and endangered Hawaiian Monk seal (Neomonachus schauinslandi) are in the general vicinity of the proposed project that may transit or visit the proposed project. The contractor shall protect these endangered species throughout the construction duration.

671.02 Materials. None

671.03 Construction.

(A) Pre-Construction and Construction Requirements. Comply with the following conditions:

(1) Ae`o forage for prey in shallow water (preference in water less than 9 inches), mudflats and in grassy areas adjacent to wetlands. Ae`o nests are located on exposed ground, often mudflats, sometimes interspersed with low vegetation. The nest is a simple scrape, sometimes with small stones around the edge. They appear to select sites with little to no cover surrounding the nest. Nesting season extends from February to August, varies among years. Impacts to Ae`o include noise, habitat loss and habitat degradation. Mitigation measures include the following:

(a) Perform a biological survey by a biologists prior to construction to determine presence of ae`o or active nests.

(b) Perform biological monitoring of the project site by the Contractor who shall be trained by the project's biologist consultant. Biological monitoring shall take place during all construction or earth moving activities to ensure that ae'o and active nests are not adversely impacted.

(c) If an ae'o is observed within the project site, or flies into the site while construction activities are occurring, the biological monitor shall halt all activities within 100 feet of the individuals(s). Work shall not resume until they leave the area.

(d) Establish and maintain a 100-foot buffer around all active nests and/or broods until the chicks have

fledged. No potentially disruptive activities or habitat alteration shall occur within this buffer.

(e) Prepare a post-construction report and submit to the United States Fish and Wildlife Service (USFWS) within 30 days upon completion of the project. The report should include the results of the aeʻo survey by the biologist and monitoring activities by the Contractor, the location and outcome of documented nests, and any other relevant information.

(2) The Opeʻapeʻa roosts in both exotic and native woody vegetation and will leave young unattended in "nursery" trees and shrubs when they forage during the birthing and pup rearing season (June 1 through September 15). If trees or shrubs suitable for roosting are cleared during the breeding season, there is a risk that the young could inadvertently be harmed or killed. To minimize impacts to the ʻōpeʻapeʻa: Woody plants greater than 15 feet tall shall not be disturbed, removed, or trimmed during the birthing and pup rearing season (June 1 through September 15).

(3) Honu and honuʻea

The honu and honuʻea are susceptible to artificial lighting that can disorient hatchlings away from the ocean. The adult females come ashore to nest on beaches from May through September, peaking in June and July. Optimal nesting habitat is a dark beach free of barriers that restrict their movement. Nesting turtles may be deterred from approaching or laying successful nests on lighted or disturbed beaches. If they do come ashore, they may become disoriented by artificial lighting, leading to exhaustion and placement of a nest in an appropriate location (such as at or below the high tide line where nests are unlikely to be successful). Hatchlings that emerge from unprotected nests may be disoriented by artificial lighting. In addition, construction on, or in the vicinity of, beaches can result in sand and sediment compaction, sea turtle nest destruction, beach erosion, and contaminant and nutrient runoff. To minimize impacts to the honu and honuʻea, the following measures will be implemented:

(a) A qualified biologist will survey the areas within 300 feet of the project site to ensure that no honu, honuʻea, or nests (nesting occurs between May to October) are present prior to the start of work each

day. The biologist shall also make visual surveys prior to re- initiation of work following any break of more than 30 minutes as well as performing periodic surveys throughout the workday.

(b) If either species are found within the project area, or come within 150 feet of the project area while construction is occurring, all potential disruptive activities (including human activity, mechanical or construction disturbance) will be stopped until the animal(s) voluntarily leave the area. In the event they enter the project area and activity cannot be halted, conduct observations and immediately contact NOAA/NMFS turtle hotline at (808) 983-5730.

(c) If there is evidence of nesting activities or active nests in the vicinity or the proposed project, a 100-foot buffer will be maintained in which no work activities will be allowed. When entering and exiting the site, heavy equipment and vehicle operator will use the same path as the day before to minimize the footprint of the project.

(d) No nighttime work will occur during the nesting season. If lighting is used, light shields will be completely opaque, sufficiently large, and positioned so that the bulb is only visible from below and that light from the shielded source cannot be seen from the beach.

(e) Any construction-related debris that may pose an entanglement threat will be removed from the project site if not actively being used, and at the conclusion of the project. No project-related materials should be stockpiled in the intertidal zone, reef flats, or stream channels.

(4) Hawaiian monk seal

The areas of critical habitat for Hawaiian monk seals includes the marine environment with a seaward boundary that extends from the 200-meter depth contour line (relative to mean lower low water), including the seafloor and all subsurface waters and marine habitat within 10 meters (approximately 30 feet) of the seafloor, through the water's edge 5 meters (approximately 15 feet) from the waters edge. Impacts to the Hawaiian monk seal include disturbance from human activity and equipment operation, exposure to elevated turbidity and exposure to

waste and discharges. Mitigation measures to reduce impact include:

(a) Prohibiting equipment or material from entering the ocean or coming closer than 200 feet from marine waters.

(b) A qualified biologist will survey the areas within 300 feet of the project site to ensure that no Hawaiian monk seal are present prior to the start of work each day. The biologist shall also make visual surveys prior to re- initiation of work following any break of more than 30 minutes as well as performing periodic surveys throughout the workday.

(5) The Contractor shall implement Best Management Practices (BMPS) and Water Pollution and Erosion Control measures to minimize turbidity potential.

(B) Compliance Requirements. The Contractor shall protect Ae`o, Ope`ape`a , Honu`ea, Honu and Hawaiian monk seal for the duration of construction. Failure to comply with the construction requirements, harm or a taking of an individual during the construction duration shall be enforceable by the U.S. Fish and Wildlife Service as set forth by the Endangered Species Act. Resultant penalties and/or fines shall be at the Contractors expense without cost or liability to the State.

671.04 Measurement. The Engineer will measure the work required for the protection of endangered species on a force account basis in accordance with Subsection 109.06 – Force Account Provisions and Compensation and as ordered by the Engineer.

671.05 Payment. The Engineer will pay for the accepted protection of endangered species on a force account basis in accordance with Subsection 109.06 – Force Account Provisions and Compensation. Payment will be full compensation for the work prescribed in this section, by the Engineer, and in the contract documents.

The Engineer will pay for the following pay item when included in the proposal schedule:

Pay Item	Pay Unit
Protection of Endangered Species	Force Account

An estimated amount may be allocated in the proposal schedule under "Protection of Endangered Species", but the actual amount to be paid will be the sum shown on the accepted force account records, whether this sum be more or less than the estimated amount allocated in the proposal schedule."

END OF SECTION 671

"General Decision Number: HI20200001 10/30/2020

Superseded General Decision Number: HI20190001

State: Hawaii

Construction Types: Building, Heavy (Heavy and Dredging), Highway and Residential

Counties: Hawaii Statewide.

BUILDING CONSTRUCTION PROJECTS; RESIDENTIAL CONSTRUCTION PROJECTS (consisting of single family homes and apartments up to and including 4 stories); HEAVY AND HIGHWAY CONSTRUCTION PROJECTS AND DREDGING

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.80 for calendar year 2020 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.80 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate,if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/03/2020
1	01/31/2020
2	02/07/2020
3	02/21/2020
4	03/06/2020
5	03/20/2020
6	04/03/2020
7	07/24/2020
8	08/21/2020
9	08/28/2020
10	09/18/2020
11	09/25/2020
12	10/02/2020
13	10/09/2020
14	10/16/2020
15	10/30/2020

ASBE0132-001 08/31/2015

	Rates	Fringes

Asbestos Workers/Insulator		
Includes application of all insulating materials, protective coverings, coatings and finishes to all types of mechanical systems. Also the application of firestopping material for wall openings and penetrations in walls, floors, ceilings and curtain walls	$ 39.65	23.50

BOIL0627-005 01/01/2013

	Rates	Fringes
BOILERMAKER	$ 35.20	27.35

BRHI0001-001 08/31/2020

	Rates	Fringes
BRICKLAYER		
Bricklayers and Stonemasons	$ 45.95	29.59
Pointers, Caulkers and Weatherproofers	$ 46.21	29.59

BRHI0001-002 08/31/2020

	Rates	Fringes
Tile, Marble & Terrazzo Worker		
Terrazzo Base Grinders	$ 41.69	28.11
Terrazzo Floor Grinders and Tenders	$ 40.14	28.11
Tile, Marble and Terrazzo Workers	$ 43.50	28.11

CARP0745-001 08/31/2020

	Rates	Fringes
Carpenters:		
Carpenters; Hardwood Floor Layers; Patent Scaffold Erectors (14 ft. and over); Piledrivers; Pneumatic Nailers; Wood Shinglers and Transit and/or Layout Man	$ 50.50	23.59
Millwrights and Machine Erectors	$ 50.75	23.59
Power Saw Operators (2 h.p. and over)	$ 50.65	23.59

CARP0745-002 08/31/2020

	Rates	Fringes
Drywall and Acoustical Workers and Lathers	$ 50.50	23.59

ELEC1186-001 08/23/2020

	Rates	Fringes
Electricians:		
Cable Splicers	$ 56.71	31.16
Electricians	$ 51.55	29.58
Telecommunication worker	$ 32.69	12.96

ELEC1186-002 08/23/2020

	Rates	Fringes
Line Construction:		
Cable Splicers	$ 56.71	31.16
Groundmen/Truck Drivers	$ 38.66	25.63
Heavy Equipment Operators	$ 46.40	28.00
Linemen	$ 51.55	29.58
Telecommunication worker	$ 32.69	12.96

ELEV0126-001 01/01/2020

	Rates	Fringes
ELEVATOR MECHANIC	$ 61.14	34.765

a. VACATION: Employer contributes 8% of basic hourly rate for 5 years service and 6% of basic hourly rate for 6 months to 5 years service as vacation pay credit.

b. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day and Christmas Day.

ENGI0003-002 09/03/2018

	Rates	Fringes
Diver (Aqua Lung) (Scuba))		
Diver (Aqua Lung) (Scuba) (over a depth of 30 feet)	$ 66.00	31.26
Diver (Aqua Lung) (Scuba) (up to a depth of 30 feet)	$ 56.63	31.26
Stand-by Diver (Aqua Lung) (Scuba)	$ 47.25	31.26
Diver (Other than Aqua Lung)		
Diver (Other than Aqua Lung)	$ 66.00	31.26
Diver Tender (Other than Aqua Lung)	$ 44.22	31.26
Stand-by Diver (Other than Aqua Lung)	$ 47.25	31.26
Helicopter Work		
Airborne Hoist Operator for Helicopter	$ 45.80	31.26
Co-Pilot of Helicopter	$ 45.98	31.26
Pilot of Helicopter	$ 46.11	31.26
Power equipment operator - tunnel work		
GROUP 1	$ 42.24	31.26
GROUP 2	$ 42.35	31.26
GROUP 3	$ 42.52	31.26
GROUP 4	$ 42.79	31.26
GROUP 5	$ 43.10	31.26

GROUP 6	$ 43.75	31.26
GROUP 7	$ 44.07	31.26
GROUP 8	$ 44.18	31.26
GROUP 9	$ 44.29	31.26
GROUP 9A	$ 44.52	31.26
GROUP 10	$ 44.58	31.26
GROUP 10A	$ 44.73	31.26
GROUP 11	$ 44.88	31.26
GROUP 12	$ 45.24	31.26
GROUP 12A	$ 45.60	31.26
Power equipment operators:		
GROUP 1	$ 41.94	31.26
GROUP 2	$ 42.05	31.26
GROUP 3	$ 42.22	31.26
GROUP 4	$ 42.49	31.26
GROUP 5	$ 42.80	31.26
GROUP 6	$ 43.45	31.26
GROUP 7	$ 43.77	31.26
GROUP 8	$ 43.88	31.26
GROUP 9	$ 43.99	31.26
GROUP 9A	$ 44.22	31.26
GROUP 10	$ 44.28	31.26
GROUP 10A	$ 44.43	31.26
GROUP 11	$ 44.58	31.26
GROUP 12	$ 44.94	31.26
GROUP 12A	$ 45.30	31.26
GROUP 13	$ 42.22	31.26
GROUP 13A	$ 42.49	31.26
GROUP 13B	$ 42.80	31.26
GROUP 13C	$ 43.45	31.26
GROUP 13D	$ 43.77	31.26
GROUP 13E	$ 43.88	31.26

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Fork Lift (up to and including 10 tons); Partsman (heavy duty repair shop parts room when needed).

GROUP 2: Conveyor Operator (Handling building material); Hydraulic Monitor; Mixer Box Operator (Concrete Plant).

GROUP 3: Brakeman; Deckhand; Fireman; Oiler; Oiler/Gradechecker; Signalman; Switchman; Highline Cableway Signalman; Bargeman; Bunkerman; Concrete Curing Machine (self-propelled, automatically applied unit on streets, highways, airports and canals); Leveeman; Roller (5 tons and under); Tugger Hoist.

GROUP 4: Boom Truck or dual purpose ""A"" Frame Truck (5 tons or less); Concrete Placing Boom (Building Construction); Dinky Operator; Elevator Operator; Hoist and/or Winch (one drum); Straddle Truck (Ross Carrier, Hyster and similar).

GROUP 5: Asphalt Plant Fireman; Compressors, Pumps, Generators and Welding Machines (""Bank"" of 9 or more, individually or collectively); Concrete Pumps or Pumpcrete Guns; Lubrication and Service Engineer (Grease Rack); Screedman.

GROUP 6: Boom Truck or Dual Purpose ""A""Frame Truck (over 5 tons); Combination Loader/Backhoe (up to and including 3/4 cu. yd.); Concrete Batch Plants (wet or dry); Concrete Cutter, Groover and/or Grinder (self-propelled unit on streets, highways, airports, and canals); Conveyor or Concrete Pump (Truck or Equipment Mounted); Drilling

Machinery (not to apply to waterliners, wagon drills or jack hammers); Fork Lift (over 10 tons); Loader (up to and including 3 and 1/2 cu. yds); Lull High Lift (under 40 feet); Lubrication and Service Engineer (Mobile); Maginnis Internal Full Slab Vibrator (on airports, highways, canals and warehouses); Man or Material Hoist; Mechanical Concrete Finisher (Large Clary, Johnson Bidwell, Bridge Deck and similar); Mobile Truck Crane Driver; Portable Shotblast Concrete Cleaning Machine; Portable Boring Machine (under streets, highways, etc.); Portable Crusher; Power Jumbo Operator (setting slip forms, etc., in tunnels); Rollers (over 5 tons); Self-propelled Compactor (single engine); Self-propelled Pavement Breaker; Skidsteer Loader with attachments; Slip Form Pumps (Power driven by hydraulic, electric, air, gas, etc., lifting device for concrete forms); Small Rubber Tired Tractors; Trencher (up to and including 6 feet); Underbridge Personnel Aerial Platform (50 feet of platform or less).

GROUP 7: Crusher Plant Engineer, Dozer (D-4, Case 450, John Deere 450, and similar); Dual Drum Mixer, Extend Lift; Hoist and/or Winch (2 drums); Loader (over 3 and 1/2 cu. yds. up to and including 6 yards.); Mechanical Finisher or Spreader Machine (asphalt), (Barber Greene and similar) (Screedman required); Mine or Shaft Hoist; Mobile Concrete Mixer (over 5 tons); Pipe Bending Machine (pipelines only); Pipe Cleaning Machine (tractor propelled and supported); Pipe Wrapping Machine (tractor propelled and supported); Roller Operator (Asphalt); Self-Propelled Elevating Grade Plane; Slusher Operator; Tractor (with boom) (D-6, or similar); Trencher (over 6 feet and less than 200 h.p.); Water Tanker (pulled by Euclids, T-Pulls, DW-10, 20 or 21, or similar); Winchman (Stern Winch on Dredge).

GROUP 8: Asphalt Plant Operator; Barge Mate (Seagoing); Cast-in-Place Pipe Laying Machine; Concrete Batch Plant (multiple units); Conveyor Operator (tunnel); Deckmate; Dozer (D-6 and similar); Finishing Machine Operator (airports and highways); Gradesetter; Kolman Loader (and similar); Mucking Machine (Crawler-type); Mucking Machine (Conveyor-type); No-Joint Pipe Laying Machine; Portable Crushing and Screening Plant; Power Blade Operator (under 12); Saurman Type Dragline (up to and including 5 yds.); Stationary Pipe Wrapping, Cleaning and Bending Machine; Surface Heater and Planer Operator, Tractor (D-6 and similar); Tri-Batch Paver; Tunnel Badger; Tunnel Mole and/or Boring Machine Operator Underbridge Personnel Aerial Platform (over 50 feet of platform).

GROUP 9: Combination Mixer and Compressor (gunite); Do-Mor Loaderand Adams Elegrader; Dozer (D-7 or equal); Wheel and/or Ladder Trencher (over 6 feet and 200 to 749 h.p.).

GROUP 9A: Dozer (D-8 and similar); Gradesetter (when required by the Contractor to work from drawings, plans or specifications without the direct supervision of a foreman or superintendent); Push Cat; Scrapers (up to and including 20 cu. yds); Self-propelled Compactor with Dozer; Self-Propelled, Rubber-Tired Earthmoving Equipment (up to and including 20 cu. yds) (621 Band and similar); Sheep's Foot; Tractor (D-8 and similar); Tractors with boom (larger than D-6, and similar).

GROUP 10: Chicago Boom; Cold Planers; Heavy Duty Repairman or Welder; Hoist and/or Winch (3 drums); Hydraulic Skooper

(Koehring and similar); Loader (over 6 cu. yds. up to and including 12 cu. yds.); Saurman type Dragline (over 5 cu. yds.); Self-propelled, rubber-tired Earthmoving Equipment (over 20 cu. yds. up to and including 31 cu. yds.) (637D and similar); Soil Stabilizer (P & H or equal); Sub-Grader (Gurries or other automatic type); Tractors (D-9 or equivalent, all attachments); Tractor (Tandem Scraper); Watch Engineer.

GROUP 10A: Boat Operator; Cable-operated Crawler Crane (up to and including 25 tons); Cable-operated Power Shovel, Clamshell, Dragline and Backhoe (up to and including 1 cu. yd.); Dozer D9-L; Dozer (D-10, HD41 and similar) (all attachments); Gradall (up to and including 1 cu. yd.); Hydraulic Backhoe (over 3/4 cu. yds. up to and including 2 cu. yds.); Mobile Truck Crane Operator (up to and including 25 tons) (Mobile Truck Crane Driver Required); Self-propelled Boom Type Lifting Device (Center Mount) (up to and including 25 tons) (Grove, Drott, P&H, Pettibone and similar; Trencher (over 6 feet and 750 h.p. or more); Watch Engineer (steam or electric).

GROUP 11: Automatic Slip Form Paver (concrete or asphalt); Band Wagon (in conjunction with Wheel Excavator); Cable-operated Crawler Cranes (over 25 tons but less than 50 tons); Cable-operated Power Shovel, Clamshell, Dragline and Backhoe (over 1 cu. yd. up to 7 cu. yds.); Gradall (over 1 cu. yds. up to 7 cu. yds.); DW-10, 20, etc. (Tandem); Earthmoving Machines (multiple propulsion power units and 2 or more Scrapers) (up to and including 35 cu. yds.,"" struck"" m.r.c.); Highline Cableway; Hydraulic Backhoe (over 2 cu. yds. up to and including 4 cu. yds.); Leverman; Lift Slab Machine; Loader (over 12 cu. yds); Master Boat Operator; Mobile Truck Crane Operator (over 25 tons but less than 50 tons); (Mobile Truck Crane Driver required); Pre-stress Wire Wrapping Machine; Self-propelled Boom-type Lifting Device (Center Mount) (over 25 tons m.r.c); Self-propelled Compactor (with multiple-propulsion power units); Single Engine Rubber Tired Earthmoving Machine (with Tandem Scraper); Tandem Cats; Trencher (pulling attached shield).

GROUP 12: Clamshell or Dipper Operator; Derricks; Drill Rigs; Multi-Propulsion Earthmoving Machines (2 or more Scrapers) (over 35 cu. yds ""struck""m.r.c.); Operators (Derricks, Piledrivers and Cranes); Power Shovels and Draglines (7 cu. yds. m.r.c. and over); Self-propelled rubber-tired Earthmoving equipment (over 31 cu. yds.) (657B and similar); Wheel Excavator (up to and including 750 cu. yds. per hour); Wheel Excavator (over 750 cu. yds. per hour).

GROUP 12A: Dozer (D-11 or similar or larger); Hydraulic Excavators (over 4 cu. yds.); Lifting cranes (50 tons and over); Pioneering Dozer/Backhoe (initial clearing and excavation for the purpose of providing access for other equipment where the terrain worked involves 1-to-1 slopes that are 50 feet in height or depth, the scope of this work does not include normal clearing and grubbing on usual hilly terrain nor the excavation work once the access is provided); Power Blade Operator (Cat 12 or equivalent or over); Straddle Lifts (over 50 tons); Tower Crane, Mobile; Traveling Truss Cranes; Universal, Liebher, Linden, and similar types of Tower Cranes (in the erection, dismantling, and moving of equipment there shall be an additional Operating Engineer or Heavy Duty Repairman);

Yo-Yo Cat or Dozer.

GROUP 13: Truck Driver (Utility, Flatbed, etc.)

GROUP 13A: Dump Truck, 8 cu.yds. and under (water level); Water Truck (up to and including 2,000 gallons).

GROUP 13B: Water Truck (over 2,000 gallons); Tandem Dump Truck, over 8 cu. yds. (water level).

GROUP 13C: Truck Driver (Semi-trailer. Rock Cans, Semi-Dump or Roll-Offs).

GROUP 13D: Truck Driver (Slip-In or Pup).

GROUP 13E: End Dumps, Unlicensed (Euclid, Mack, Caterpillar or similar); Tractor Trailer (Hauling Equipment); Tandem Trucks hooked up to Trailer (Hauling Equipment)

BOOMS AND/OR LEADS (HOURLY PREMIUMS):

The Operator of a crane (under 50 tons) with a boom of 80 feet or more (including jib), or of a crane (under 50 tons) with leads of 100 feet or more, shall receive a per hour premium for each hour worked on said crane (under 50 tons) in accordance with the following schedule:

Booms of 80 feet up to but not including 130 feet or Leads of 100 feet up to but not including 130 feet	0.50
Booms and/or Leads of 130 feet up to but not including 180 feet	0.75
Booms and/or Leads of 180 feet up to and including 250 feet	1.15
Booms and/or Leads over 250 feet	1.50

The Operator of a crane (50 tons and over) with a boom of 180 feet or more (including jib) shall receive a per hour premium for each hour worked on said crane (50 tons and over) in accordance with the following schedule:

Booms of 180 feet up to and including 250 feet	1.25
Booms over 250 feet	1.75

ENGI0003-004 09/04/2017

	Rates	Fringes
Dredging: (Boat Operators)		
Boat Deckhand	$ 41.22	30.93
Boat Operator	$ 43.43	30.93
Master Boat Operator	$ 43.58	30.93
Dredging: (Clamshell or Dipper Dredging)		
GROUP 1	$ 43.94	30.93
GROUP 2	$ 43.28	30.93
GROUP 3	$ 42.88	30.93
GROUP 4	$ 41.22	30.93
Dredging: (Derricks)		
GROUP 1	$ 43.94	30.93
GROUP 2	$ 43.28	30.93

GROUP 3.....$ 42.88 30.93
GROUP 4.....$ 41.22 30.93
Dredging: (Hydraulic Suction Dredges)
GROUP 1.....$ 43.58 30.93
GROUP 2.....$ 43.43 30.93
GROUP 3.....$ 43.28 30.93
GROUP 4.....$ 43.22 30.93
GROUP 5.....$ 37.88 26.76
Group 5.....$ 42.88 30.93
GROUP 6.....$ 37.77 26.76
Group 6.....$ 42.77 30.93
GROUP 7.....$ 36.22 26.76
Group 7.....$ 41.22 30.93

CLAMSHELL OR DIPPER DREDGING CLASSIFICATIONS

GROUP 1: Clamshell or Dipper Operator.
GROUP 2: Mechanic or Welder; Watch Engineer.
GROUP 3: Barge Mate; Deckmate.
GROUP 4: Bargeman; Deckhand; Fireman; Oiler.

HYDRAULIC SUCTION DREDGING CLASSIFICATIONS

GROUP 1: Leverman.
GROUP 2: Watch Engineer (steam or electric).
GROUP 3: Mechanic or Welder.
GROUP 4: Dozer Operator.
GROUP 5: Deckmate.
GROUP 6: Winchman (Stern Winch on Dredge)
GROUP 7: Deckhand (can operate anchor scow under direction of Deckmate); Fireman; Leveeman; Oiler.

DERRICK CLASSIFICATIONS

GROUP 1: Operators (Derricks, Piledrivers and Cranes).
GROUP 2: Saurman Type Dragline (over 5 cubic yards).
GROUP 3: Deckmate; Saurman Type Dragline (up to and including 5 yards).
GROUP 4: Deckhand, Fireman, Oiler.

ENGI0003-044 09/03/2018

	Rates	Fringes
Power Equipment Operators (PAVING)		
Asphalt Concrete Material Transfer	$ 42.92	32.08
Asphalt Plant Operator	$ 43.35	32.08
Asphalt Raker	$ 41.96	32.08
Asphalt Spreader Operator	$ 43.44	32.08
Cold Planer	$ 43.75	32.08
Combination Loader/Backhoe (over 3/4 cu.yd.)	$ 41.96	32.08
Combination Loader/Backhoe (up to 3/4 cu.yd.)	$ 40.98	32.08
Concrete Saws and/or Grinder (self-propelled unit on streets, highways, airports and canals)	$ 42.92	32.08
Grader	$ 43.75	32.08
Laborer, Hand Roller	$ 41.46	32.08
Loader (2 1/2 cu. yds. and		

under).....	$ 42.92	32.08
Loader (over 2 1/2 cu. yds. to and including 5 cu. yds.).....	$ 43.24	32.08
Roller Operator (five tons and under).....	$ 41.69	32.08
Roller Operator (over five tons).....	$ 43.12	32.08
Screed Person.....	$ 42.92	32.08
Soil Stabilizer.....	$ 43.75	32.08

IRON0625-001 09/01/2019

	Rates	Fringes
Ironworkers:.....	$ 41.50	37.55

a. Employees will be paid $.50 per hour more while working in tunnels and coffer dams; $1.00 per hour more when required to work under or are covered with water (submerged) and when they are required to work on the summit of Mauna Kea, Mauna Loa or Haleakala.

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* LABO0368-001 09/02/2020

	Rates	Fringes
Laborers:		
Driller.....	$ 39.70	22.68
Final Clean Up.....	$ 29.65	18.17
Gunite/Shotcrete Operator and High Scaler.....	$ 38.55	21.52
Laborer I.....	$ 38.70	22.68
Laborer II.....	$ 36.10	22.68
Mason Tender/Hod Carrier....	$ 39.20	22.68
Powderman.....	$ 39.05	21.52
Window Washer (bosun chair).	$ 38.20	22.68

LABORERS CLASSIFICATIONS

Laborer I: Air Blasting run by electric or pneumatic compressor; Asphalt Laborer, Ironer, Raker, Luteman, and Handroller, and all types of Asphalt Spreader Boxes; Asphalt Shoveler; Assembly and Installation of Multiplates, Liner Plates, Rings, Mesh, Mats; Batching Plant (portable and temporary); Boring Machine Operator (under streets and sidewalks); Buggymobile; Burning and Welding; Chainsaw, Faller, Logloader, and Bucker; Compactors (Jackson Jumping Jack and similar); Concrete Bucket Dumpman; Concrete Chipping; Concrete Chuteman/Hoseman (pouring concrete) (the handling of the chute from ready-mix trucks for such jobs as walls, slabs, decks, floors, foundations, footings, curbs, gutters, and sidewalks); Concrete Core Cutter (Walls, Floors, and Ceiling); Concrete Grinding or Sanding; Concrete: Hooking on, signaling, dumping of concrete for treme work over water on caissons, pilings, abutments, etc.; Concrete: Mixing, handling, conveying, pouring, vibrating, otherwise placing of concrete or aggregates or by any other process; Concrete: Operation of motorized wheelbarrows or buggies or machines of similar character, whether run by gas, diesel, or electric power; Concrete Placement Machine Operator: operation of Somero Hammerhead, Copperheads, or similar machines; Concrete Pump Machine (laying, coupling, uncoupling of all connections and cleaning of equipment); Concrete and/or Asphalt Saw (Walking or Handtype) (cutting walls or flatwork) (scoring

old or new concrete and/or asphalt) (cutting for expansion joints) (streets and ways for laying of pipe, cable or conduit for all purposes); Concrete Shovelers/Laborers (Wet or Dry); Concrete Screeding for Rough Strike-Off: Rodding or striking-off, by hand or mechanical means prior to finishing; Concrete Vibrator Operator; Coring Holes: Walls, footings, piers or other obstructions for passage of pipes or conduits for any purpose and the pouring of concrete to secure the hole; Cribbers, Shorer, Lagging, Sheeting, and Trench Jacking and Bracing, Hand-Guided Lagging Hammer Whaling Bracing; Curbing (Concrete and Asphalt); Curing of Concrete (impervious membrane and form oiler) mortar and other materials by any mode or method; Cut Granite Curb Setter (setting, leveling and grouting of all precast concrete or stone curbs); Cutting and Burning Torch (demolition); Dri Pak-It Machine; Environmental Abatement: removal of asbestos, lead, and bio hazardous materials (EPA and/or OSHA certified); Falling, bucking, yarding, loading or burning of all trees or timber on construction site; Forklift (9 ft. and under); Gas, Pneumatic, and Electric tools; Grating and Grill work for drains or other purposes; Green Cutter of concrete or aggregate in any form, by hand, mechanical means, grindstone or air and/or water; Grout: Spreading for any purpose; Guinea Chaser (Grade Checker) for general utility trenches, sitework, and excavation; Headerboard Man (Asphalt or Concrete); Heat Welder of Plastic (Laborers' AGC certified workers) (when work involves waterproofing for waterponds, artificial lakes and reservoir) heat welding for sewer pipes and fusion of HDPE pipes; Heavy Highway Laborer (Rigging, signaling, handling, and installation of pre-cast catch basins, manholes, curbs and gutters); High Pressure Nozzleman - Hydraulic Monitor (over 100# pressure); Jackhammer Operator; Jacking of slip forms: All semi and unskilled work connected therewithin; Laying of all multi-cell conduit or multi-purpose pipe; Magnesite and Mastic Workers (Wet or Dry)(including mixer operator);Mortar Man; Mortar Mixer (Block, Brick, Masonry, and Plastering); Nozzleman (Sandblasting and/or Water Blasting): handling, placing and operation of nozzle; Operation, Manual or Hydraulic jacking of shields and the use of such other mechanical equipment as may be necessary; Pavement Breakers; Paving, curbing and surfacing of streets, ways, courts, under and overpasses, bridges, approaches, slope walls, and all other labor connected therewith; Pilecutters; Pipe Accessment in place, bolting and lining up of sectional metal or other pipe including corrugated pipe; Pipelayer performing all services in the laying and installation of pipe from the point of receiving pipe in the ditch until completion of operation, including any and all forms of tubular material, whether pipe, HDPE, metallic or non-metallic, conduit, and any other stationary-type of tubular device used for conveying of any substance or element, whether water, sewage, solid, gas, air, or other product whatsoever and without regard to the nature of material from which tubular material is fabricated; No-joint pipe and stripping of same, Pipewrapper, Caulker, Bander, Kettlemen, and men applying asphalt, Laykold, treating Creosote and similar-type materials (6-inch) pipe and over); Piping: resurfacing and paving of all ditches in preparation for laying of all pipes; Pipe laying of lateral sewer pipe from main or side sewer to buildings or structure (except Contactor may direct work be done under proper supervision); Pipe laying, leveling and marking of the joint used for main or side sewers and storm sewers; Laying of all clay, terra cotta,

ironstone, vitrified concrete, HDPE or other pipe for drainage; Placing and setting of water mains, gas mains and all pipe including removal of skids; Plaster Mortar Mixer/Pump; Pneumatic Impact Wrench; Portable Sawmill Operation: Choker setters, off bearers, and lumber handlers connected with clearing; Posthole Digger (Hand Held, Gas, Air and Electric); Powderman's Tender; Power Broom Sweepers (Small); Preparation and Compaction of roadbeds for railroad track laying, highway construction, and the preparation of trenches, footings, etc., for cross-country transmission by pipelines, electrical transmission or underground lines or cables (by mechanical means); Raising of structure by manual or hydraulic jacks or other methods and resetting of structure in new locations, including all concrete work; Ramming or compaction; Rigging in connection with Laborers' work (except demolition), Signaling (including the use of walkie talkie) Choke Setting, tag line usage; Tagging and Signaling of building materials into high rise units; Riprap, Stonepaver, and Rock Slinger (includes placement of stacked concrete, wet or dry and loading, unloading, signaling, slinging and setting of other similar materials); Rotary Scarifier (including multiple head concrete chipping Scarifier); Salamander Heater, Drying of plaster, concrete mortar or other aggregate; Scaffold Erector Leadman; Scaffolds: (Swing and hanging) including maintenance thereof; Scaler; Septic Tank/Cesspool and Drain Fields Digger and Installer; Shredder/Chipper (tree branches, brush, etc.); Stripping and Setting Forms; Stripping of Forms: Other than panel forms which are to be re-used in their original form, and stripping of forms on all flat arch work; Tampers (Barko, Wacker, and similar type); Tank Scaler and Cleaners; Tarman; Tree Climbers and Trimmers; Trencher (includes hand-held, Davis T-66 and similar type); Trucks (flatbed up to and including 2 1/2 tons when used in connection with on-site Laborers'work; Trucks (Refuse and Garbage Disposal) (from job site to dump); Vibra-Screed (Bull Float in connection with Laborers' work); Well Points, Installation of or any other dewatering system.

Laborer II: Asphalt Plant Laborer; Boring Machine Tender; Bridge Laborer; Burning of all debris (crates, boxes, packaging waste materials); Chainman, Rodmen, and Grade Markers; Cleaning, clearing, grading and/or removal for streets, highways, roadways, aprons, runways, sidewalks, parking areas, airports, approaches, and other similar installations; Cleaning or reconditioning of streets, ways, sewers and waterlines, all maintenance work and work of an unskilled and semi-skilled nature; Concrete Bucket Tender (Groundman) hooking and unhooking of bucket; Concrete Forms; moving, cleaning, oiling and carrying to the next point of erection of all forms; Concrete Products Plant Laborers; Conveyor Tender (conveying of building materials); Crushed Stone Yards and Gravel and Sand Pit Laborers and all other similar plants; Demolition, Wrecking and Salvage Laborers: Wrecking and dismantling of buildings and all structures, with use of cutting or wrecking tools, breaking away, cleaning and removal of all fixtures, All hooking, unhooking, signaling of materials for salvage or scrap removed by crane or derrick; Digging under streets, roadways, aprons or other paved surfaces; Driller's Tender; Chuck Tender, Outside Nipper; Dry-packing of concrete (plugging and filling of she-bolt holes); Fence and/or Guardrail Erector: Dismantling and/or re-installation of all fence; Finegrader; Firewatcher; Flagman (Coning,

preparing, stablishing and removing portable roadway barricade devices); Signal Men on all construction work defined herein, including Traffic Control Signal Men at construction site; General Excavation; Backfilling, Grading and all other labor connected therewith; Digging of trenches, ditches and manholes and the leveling, grading and other preparation prior to laying pipe or conduit for any purpose; Excavations and foundations for buildings, piers, foundations and holes, and all other construction. Preparation of street ways and bridges; General Laborer: Cleaning and Clearing of all debris and surplus material. Clean-up of right-of-way. Clearing and slashing of brush or trees by hand or mechanical cutting. General Clean up: sweeping, cleaning, wash-down, wiping of construction facility and equipment (other than ""Light Clean up (Janitorial) Laborer. Garbage and Debris Handlers and Cleaners. Appliance Handling (job site) (after delivery unlading in storage area); Ground and Soil Treatment Work (Pest Control); Gunite/Shotcrete Operator Tender; Junk Yard Laborers (same as Salvage Yard); Laser Beam ""Target Man"" in connection with Laborers' work; Layout Person for Plastic (when work involves waterproofing for waterponds, artificial lakes and reservoirs); Limbers, Brush Loaders, and Pilers; Loading, Unloading, carrying, distributing and handling of all rods and material for use in reinforcing concrete construction (except when a derrick or outrigger operated by other than hand power is used); Loading, unloading, sorting, stockpiling, handling and distribution of water mains, gas mains and all pipes; Loading and unloading of all materials, fixtures, furnishings and appliances from point of delivery to stockpile to point of installation; hooking and signaling from truck, conveyance or stockpile; Material Yard Laborers; Pipelayer Tender; Pipewrapper, Caulker, Bander, Kettlemen, and men applying asphalt, Laykold, Creosote, and similar-type materials (pipe under 6 inches); Plasterer Laborer; Preparation, construction and maintenance of roadbeds and sub-grade for all paving, including excavation, dumping, and spreading of sub-grade material; Prestressed or precast concrete slabs, walls, or sections: all loading, unloading, stockpiling, hooking on of such slabs, walls or sections; Quarry Laborers; Railroad, Streetcar, and Rail Transit Maintenance and Repair; Roustabout; Rubbish Trucks in connection with Building Construction Projects (excluding clearing, grubbing, and excavating); Salvage Yard: All work connected with cutting, cleaning, storing, stockpiling or handling of materials, all cleanup, removal of debris, burning, back-filling and landscaping of the site; Sandblasting Tender (Pot Tender): Hoses and pots or markers; Scaffolds: Erection, planking and removal of all scaffolds used for support for lathers, plasters, brick layers, masons, and other construction trades crafts; Scaffolds: (Specially designed by carpenters) laborers shall tend said carpenter on erection and dismantling thereof, preparation for foundation or mudsills, maintenance; Scraping of floors; Screeds: Handling of all screeds to be reused; handling, dismantling and conveyance of screeds; Setting, leveling and securing or bracing of metal or other road forms and expansion joints; Sheeting Piling/trench shoring (handling and placing of skip sheet or wood plank trench shoring); Ship Scalers; Shipwright Tender; Sign Erector (subdivision traffic, regulatory, and street-name signs); Sloper; Slurry Seal Crews (Mixer Operator, Applicator, Squeegee Man, Shuttle Man, Top Man); Snapping of wall ties and removal of tie rods; Soil Test operations of semi and unskilled labor

such as filling sand bags; Striper (Asphalt, Concrete or other Paved Surfaces); Tool Room Attendant (Job Site); Traffic Delineating Device Applicator; Underpinning, lagging, bracing, propping and shoring, loading, signaling, right-of-way clearance along the route of movement, The clearance of new site, excavation of foundation when moving a house or structure from old site to new site; Utilities employees; Water Man; Waterscape/Hardscape Laborers; Wire Mesh Pulling (all concrete pouring operations); Wrecking, stripping, dismantling and handling concrete forms an false work.

LABO0368-002 09/01/2020

	Rates	Fringes
Landscape & Irrigation Laborers		
GROUP 1	$ 26.40	14.25
GROUP 2	$ 27.40	14.25
GROUP 3	$ 21.70	14.25

LABORERS CLASSIFICATIONS

GROUP 1: Installation of non-potable permanent or temporary irrigation water systems performed for the purposes of Landscaping and Irrigation architectural horticultural work; the installation of drinking fountains and permanent or temporary irrigation systems using potable water for Landscaping and Irrigation architectural horticultural purposes only. This work includes (a) the installation of all heads, risers, valves, valve boxes, vacuum breakers (pressure and non-pressure), low voltage electrical lines and, provided such work involves electrical wiring that will carry 24 volts or less, the installation of sensors, master control panels, display boards, junction boxes, conductors, including all other components for controllers, (b) and metallic (copper, brass, galvanized, or similar) pipe, as well as PVC or other plastic pipe including all work incidental thereto, i.e., unloading, handling and distribution of all pipes fittings, tools, materials and equipment, (c) all soldering work in connection with the above whether done by torch, soldering iron, or other means; (d) tie-in to main lines, thrust blocks (both precast and poured in place), pipe hangers and supports incidental to installation of the entire irrigation system, (e) making of pressure tests, start-up testing, flushing, purging, water balancing, placing into operation all irrigation equipment, fixtures and appurtenances installed under this agreement, and (f) the fabrication, replacement, repair and servicing oflandscaping and irrigation systems. Operation of hand-held gas, air, electric, or self-powered tools and equipment used in the performance of Landscape and Irrigation work in connection with architectural horticulture; Choke-setting, signaling, and rigging for equipment operators on job-site in the performance of such Landscaping and Irrigation work; Concrete work (wet or dry) performed in connection with such Landscaping and Irrigation work. This work shall also include the setting of rock, stone, or riprap in connection with such Landscape, Waterscape, Rockscape, and Irrigation work; Grubbing, pick and shovel excavation, and hand rolling or tamping in connection with the performance of such Landscaping and Irrigation work; Sprigging, handseeding,

and planting of trees, shrubs, ground covers, and other plantings and the performance of all types of gardening and horticultural work relating to said planting; Operation of flat bed trucks (up to and including 2 1/2 tons).:

GROUP 2. Layout of irrigation and other non-potable irrigation water systems and the layout of drinking fountains and other potable irrigation water systems in connection with such Landscaping and Irrigation work. This includes the layout of all heads, risers, valves, valve boxes, vacuum breakers, low voltage electrical lines, hydraulic and electrical controllers, and metallic (coppers, brass, galvanized, or similar) pipe, as well as PVC or other plastic pipe. This work also includes the reading and interpretation of plans and specifications in connection with the layout of Landscaping, Rockscape, Waterscape, and Irrigation work; Operation of Hydro-Mulching machines (sprayman and driver), Drillers, Trenchers (riding type, Davis T-66, and similar) and fork lifts used in connection with the performance of such Landscaping and Irrigation work; Tree climbers and chain saw tree trimmers, Sporadic operation (when used in connection with Landscaping, Rockscape, Waterscape, and Irrigation work) of Skid-Steer Loaders (Bobcat and similar), Cranes (Bantam, Grove, and similar), Hoptos, Backhoes, Loaders, Rollers, and Dozers (Case, John Deere, and similar), Water Trucks, Trucks requiring a State of Hawaii Public Utilities Commission Type 5 and/or type 7 license, sit-down type and ""gang"" mowers, and other self-propelled, sit-down operated machines not listed under Landscape & Irrigation Maintenance Laborer; Chemical spraying using self-propelled power spraying equipment (200 gallon capacity or more).

GROUP 3: Maintenance of trees, shrubs, ground covers, lawns and other planted areas, including the replanting of trees, shrubs, ground covers, and other plantings that did not ""take"" or which are damaged; provided, however, that re-planting that requires the use of equipment, machinery, or power tools shall be paid for at the rate of pay specified under Landscape and Irrigation Laborer, Group 1; Raking, mowing, trimming, and runing, including the use of ""weed eaters"", hedge trimmers, vacuums, blowers, and other hand-held gas, air, electric, or self-powered tools, and the operation of lawn mowers (Note: The operation of sit-down type and ""gang"" mowers shall be paid for at the rate of pay specified under Landscape & Irrigation Laborer, Group 2); Guywiring, staking, propping, and supporting trees; Fertilizing, Chemical spraying using spray equipment with less than 200 gallon capacity, Maintaining irrigation and sprinkler systems, including the staking, clamping, and adjustment of risers, and the adjustment and/or replacement of sprinkler heads, (Note: the cleaning and gluing of pipe and fittings shall be paid for at the rate of pay specified under Landscape & Irrigation Laborer(Group 1); Watering by hand or sprinkler system and the peformance of other types of gardening, yardman, and horticultural-related work.

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* LABO0368-003 09/02/2020

	Rates	Fringes
Underground Laborer		
GROUP 1	$ 39.30	22.68

GROUP 2	$ 40.80	22.68
GROUP 3	$ 41.30	22.68
GROUP 4	$ 42.30	22.68
GROUP 5	$ 42.55	22.68
GROUP 6	$ 42.65	22.68
GROUP 7	$ 42.90	22.68

GROUP 1: Watchmen; Change House Attendant.

GROUP 2: Swamper; Brakeman; Bull Gang-Muckers, Trackmen; Dumpmen (any method); Concrete Crew (includes rodding and spreading); Grout Crew; Reboundmen

GROUP 3: Chucktenders and Cabletenders; Powderman (Prime House); Vibratorman, Pavement Breakers

GROUP 4: Miners - Tunnel (including top and bottom man on shaft and raise work); Timberman, Retimberman (wood or steel or substitute materials thereof); Blasters, Drillers, Powderman (in heading); Microtunnel Laborer; Headman; Cherry Pickerman (where car is lifted); Nipper; Grout Gunmen; Grout Pumpman & Potman; Gunite, Shotcrete Gunmen & Potmen; Concrete Finisher (in tunnel); Concrete Screed Man; Bit Grinder; Steel Form Raisers & Setters; High Pressure Nozzleman; Nozzleman (on slick line); Sandblaster-Potman (combination work assignment interchangeable); Tugger

GROUP 5: Shaft Work & Raise (below actual or excavated ground level); Diamond Driller; Gunite or Shotcrete Nozzleman; Rodman; Groundman

GROUP 6: Shifter

GROUP 7: Shifter (Shaft Work & Raiser)

PAIN1791-001 01/01/2020

	Rates	Fringes
Painters:		
Brush	$ 38.90	30.59
Sandblaster; Spray	$ 38.90	30.59

PAIN1889-001 07/01/2020

	Rates	Fringes
Glaziers	$ 39.50	34.85

PAIN1926-001 03/03/2020

	Rates	Fringes
Soft Floor Layers	$ 36.65	31.29

PAIN1944-001 01/05/2020

	Rates	Fringes
Taper	$ 43.10	29.90

PLAS0630-001 09/02/2019

	Rates	Fringes

PLASTERER.....$ 42.64 30.58

PLAS0630-002 09/02/2019

	Rates	Fringes
Cement Masons:		
Cement Masons	$ 41.10	30.68
Trowel Machine Operators	$ 41.25	30.68

PLUM0675-001 07/05/2020

	Rates	Fringes
Plumber, Pipefitter, Steamfitter & Sprinkler Fitter	$ 47.23	27.63

ROOF0221-001 09/06/2020

	Rates	Fringes
Roofers (Including Built Up, Composition and Single Ply)	$ 41.80	20.50

SHEE0293-001 09/02/2018

	Rates	Fringes
Sheet metal worker	$ 42.55	27.44

SUHI1997-002 09/15/1997

	Rates	Fringes
Drapery Installer	$ 13.60	1.20
FENCE ERECTOR (Chain Link Fence)	$ 9.33	1.65

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within

the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in

the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
201.0110	Clearing and Grubbing	2.8	AC	$ _____	$_____
202.0100	Removal of Trees	16	EA	$ _____	$_____
202.0102	Removal of Existing Metal Guardrails (Bridge 3)	L.S.	L.S.	L.S.	$_____
202.0103	Removal of Existing Metal Guardrails (Bridge 3A)	L.S.	L.S.	L.S.	$_____
202.0104	Removal of Concrete Channel Liner (Bridge 3)	L.S.	L.S.	L.S.	$_____
202.0105	Removal of Bypass Road (Including AC Pavement, Base Course, and Embankment Material)	4,600	S.Y.	$ _____	$_____
202.0106	Removal of Temporary By-pass Road Bridge and Abutments (Bridge 3A)	L.S.	L.S.	L.S.	$_____
202.0201	Removal of 18 Inch Drain Pipe	L.S.	LS	LS	$_____
202.0202	Removal of Temporary 24-Inch Drain Pipe	L.S.	L.S.	L.S.	$_____
202.0203	Removal of Temporary Storm Drain Manhole (Type B)	L.S.	L.S.	L.S.	$_____
202.0204	Removal of Steel Sheet Piles, Walers and Tie Rods	L.S.	L.S.	L.S.	$_____
202.0205	Removal of Temporary 8-Inch Water line	540	L.F.	$ _____	$_____
202.0206	Removal of Regulatory, Warning and Miscellaneous Signs and Posts	5	EA	$ _____	$_____
202.0207	Removal of 6-60 Inch Temporary Culverts	L.S.	L.S.	L.S.	$_____
202.0208	Removal of Portable Barrier and Construction End Treatment	L.S.	L.S.	L.S.	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
202.0209	Removal of Interim Pavement Striping and Markers, and Signs	L.S.	L.S.	L.S.	$_____
202.0210	Removal of 12-Inch Water line	275	L.F.	$ _____	$_____
202.0211	Removal of 8-Inch Water line	85	L.F.	$ _____	$_____
202.0212	Removal of 6-Inch Water line	35	L.F.	$ _____	$_____
202.0420	Removal of Rock Wall and Sliding Gate	L.S.	L.S.	L.S.	$_____
202.0430	Removal of AC Driveway	57	S.Y.	$ _____	$_____
202.0431	Removal of AC Pavement	2,800	S.Y.	$ _____	$_____
202.0440	Removal of Riprap	L.S.	L.S.	L.S.	$_____
202.0441	Removal of 12-Inch Drain Pipe	L.S.	L.S.	L.S.	$_____
202.0442	Removal of Railroad Piers and Abutments	L.S.	L.S.	L.S.	$_____
202.0443	Removal of Bus Shelter and Concrete Pad	L.S.	L.S.	L.S.	$_____
202.0445	Removal of Striping and Markers	L.S.	L.S.	L.S.	$_____
202.0446	Removal of Kennel	L.S.	L.S.	L.S.	$_____
202.1070	Removal of Existing Timber Bridge Deck, Piers, Pier and Abutment Foundations, and Railings (Bridge 3)	L.S.	L.S.	L.S.	$_____
202.1080	Removal of Existing Timber Bridge Deck, Piers, Pier and Abutment Foundations, and Railings (Bridge 3A)	L.S.	L.S.	L.S.	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
203.0100	Roadway Excavation	2,790	C.Y.	$ _____	$_____
204.0100	Trench Excavation for 8" Water line	120	C.Y.	$ _____	$_____
204.0110	Trench Backfill for 8" Water line	L.S.	L.S.	L.S.	$_____
204.0200	Trench Excavation for 12-Inch Water line	75	C.Y.	$ _____	$_____
204.0210	Trench Backfill for 12" Water line	L.S.	L.S.	L.S.	$_____
205.6100	Structure Excavation for By-pass Road Abutments (Within Footprint of Abutment Footings Only)	L.S.	L.S.	L.S.	$_____
205.6200	Structure Excavation for Abutments and Pile Caps (within footprint of abutment footings only) Bridge 3	L.S.	L.S.	L.S.	$_____
205.6210	Structure Excavation for Abutments and Pile Caps (within footprint of abutment footings only) Bridge 3A	L.S.	L.S.	L.S.	$_____
205.6220	Structure Excavation for Endwalls and Footings (Bridge 3)	L.S.	L.S.	L.S.	$_____
205.6230	Structure Excavation for Endwalls and Footings (Bridge 3A)	L.S.	L.S.	L.S.	$_____
205.6240	Structure Excavation for 10 Ft. Wide Overexcavation Along Abutments (Bridge 3)	L.S.	L.S.	L.S.	$_____
205.6250	Structure Excavation for 10 Ft. Wide Overexcavation Along Abutments (Bridge 3A)	L.S.	L.S.	L.S.	$_____
205.6300	Structure Excavation for Pier Pile Cap (Bridge 3)	L.S.	L.S.	L.S.	$_____
205.6400	Structure Excavation for Approach Slabs (Bridge 3)	L.S.	L.S.	L.S.	$_____
205.6410	Structure Excavation for Approach Slabs (Bridge 3A)	L.S.	L.S.	L.S.	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
205.7200	Structure Backfill for By-Pass Road	L.S.	L.S.	L.S.	$_____
205.7210	Structure Backfill for By-Pass Abutments	L.S.	L.S.	L.S.	$_____
205.7215	Structure Backfill for Abutments and Endwalls (Bridge 3)	L.S.	L.S.	L.S.	$_____
205.7220	Structure Backfill for Abutments and Endwalls (Bridge 3A)	L.S.	L.S.	L.S.	$_____
205.7230	Structure Backfill for Pier (Bridge 3)	L.S.	L.S.	L.S.	$_____
205.8000	Filter Material (Bridge 3)	L.S.	L.S.	L.S.	$_____
205.8100	Filter Material (Bridge 3A)	L.S.	L.S.	L.S.	$_____
205.8200	Filter Material (Grouted Rubble Paving, Bridge 3)	L.S.	L.S.	L.S.	$_____
205.8210	Filter Material (Grouted Rubble Paving, Bridge 3A)	L.S.	L.S.	L.S.	$_____
205.8220	Filter Material (Dumped Riprap, Bridge 3)	L.S.	L.S.	L.S.	$_____
205.8230	Filter Material (Dumped Riprap, Bridge 3A)	L.S.	L.S.	L.S.	$_____
206.0210	Excavation for 24-Inch Drain Pipe	172	C.Y.	$ _____	$_____
206.2020	Excavation for Drainage Structures	L.S.	L.S.	L.S.	$_____
206.2025	Excavation for Unsuitable Material	ALLOW.	ALLOW.	ALLOW.	$ 10,000.00
207.0100	Ditch and Channel Excavation (Bridge 3)	2,500	C.Y.	$ _____	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
207.0200	Ditch and Channel Excavation (Bridge 3A)	2,100	C.Y.	$ _____	$_____
209.0110	Installation, Maintenance, Monitoring, and Removal of BMP	L.S.	L.S.	L.S.	$_____
209.1100	Additional Water Pollution, Dust, and Erosion Control	F.A.	F.A.	F.A.	$ 150,000.00
301.0100	Hot Mix Asphalt Base Course	1,790	TON	$ _____	$_____
304.1000	Aggregate Base	1,047	C.Y.	$ _____	$_____
304.1100	Aggregate Base (for Approach Slabs, Bridge 3)	50	C.Y.	$ _____	$_____
304.1200	Aggregate Base (for Approach Slabs, Bridge 3A)	50	C.Y.	$ _____	$_____
304.1300	Aggregate Base (4" thick PCC Pavement)	93	CY	$ _____	$_____
304.1400	Aggregate Base (Concrete Sidewalk)	9	CY	$ _____	$_____
304.1500	Aggregate Base (By-pass Road)	625	CY	$ _____	$_____
304.1600	Aggregate Base (for Channel Slab, Bridge No. 3)	70	CY	$ _____	$_____
305.1110	Aggregate Subbase	1,047	C.Y.	$ _____	$_____
306.0100	Untreated Permeable Base Course	L.S.	L.S.	L.S.	$_____
401.0400	HMA Pavement, Mix No. IV	1,345	TON	$ _____	$_____
401.0410	HMA Pavement, Mix No. IV (Access Road and Driveway)	105	TON	$ _____	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
411.1115	11-Inch Concrete Pavement	28	C.Y.	$ _____	$_____
411.2201	4-Inch Concrete Pavement	185	C.Y.	$ _____	$_____
415.0110	Cold Planing	600	S.Y.	$ _____	$_____
501.0200	Stainless Steel Supports for 12-Inch Waterline (Bridge No. 3)	L.S.	L.S.	L.S.	$_____
501.0210	Stainless Steel Supports for 12-Inch Waterline (Bridge No. 3A)	L.S.	L.S.	L.S.	$_____
501.0213	Structural Steel - Double Channel Walers, Installed (Bridge 3)	11,700	POUND	$ _____	$_____
501.0214	Structural Steel - Tie Rods and Hardware, Installed By-Pass Road (Bridge 3)	L.S.	L.S.	L.S.	$_____
501.0215	Structural Steel - HSS 4 x 4 Struts to be welded to walers	370	POUND	$ _____	$_____
501.0216	Structural Steel - Tie Rods and Hardware for Endwalls, Installed (Bridge 3)	L.S.	L.S.	L.S.	$_____
502.3100	Bus Shelter	L.S.	L.S.	L.S.	$_____
503.1080	Concrete in By-Pass Road Bridge Abutments and Wingwalls (Bridge 3A)	90	C.Y.	$ _____	$_____
503.1081	Concrete in Bridge Abutment Stem Walls (Bridge 3)	88	C.Y.	$ _____	$_____
503.1082	Concrete in Bridge Abutment Pile Caps (Bridge 3)	65	C.Y.	$ _____	$_____
503.1083	Concrete in Bridge Abutment Stem Walls (Bridge 3A)	102	C.Y.	$ _____	$_____
503.1084	Concrete in Bridge Abutment Pile Caps (Bridge 3A)	65	C.Y.	$ _____	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
503.1085	Concrete in Endwalls (Bridge 3)	34	C.Y.	$ _____	$_____
503.1086	Concrete in Endwall Footings (Bridge 3)	24	C.Y.	$ _____	$_____
503.1087	Concrete in Endwalls (Bridge 3A)	34	C.Y.	$ _____	$_____
503.1088	Concrete in Endwall Footings (Bridge 3A)	24	C.Y.	$ _____	$_____
503.1089	Concrete in Pier Cap (Bridge 3)	23	C.Y.	$ _____	$_____
503.1090	Concrete in By-Pass Road In-Fill Walls (Bridge 3)	30	C.Y.	$ _____	$_____
503.1091	Concrete in Pier Columns (Bridge 3)	10	C.Y.	$ _____	$_____
503.1092	Concrete in Pier Pile Cap (Bridge 3)	33	C.Y.	$ _____	$_____
503.1093	Concrete in Bridge Approach Slabs (Bridge 3)	104	C.Y.	$ _____	$_____
503.1094	Concrete in Bridge Approach Slabs (Bridge 3A)	104	C.Y.	$ _____	$_____
503.1095	Concrete in Deck Topping Slab and Edge Beams (Bridge 3)	108	C.Y.	$ _____	$_____
503.1096	Concrete in Deck Topping Slab and Edge Beams (Bridge 3A)	82	C.Y.	$ _____	$_____
503.1097	Concrete in Channel Slab (Bridge 3)	150	C.Y.	$ _____	$_____
503.1098	Concrete in 8" dia. Waterline encasement, Incl. Reinforcing Steel	20	C.Y.	$ _____	$_____
503.2050	Concrete in Reaction Blocks, Test Blocks, Jackets and Reaction Beams (Temporary 8-Inch Waterline)	4	C.Y.	$ _____	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
503.2051	Concrete in Reaction Blocks, Test Blocks, Jackets and Reaction Beams	3	C.Y.	$ _____	$_____
503.6010	Dog Kennel	L.S.	L.S.	L.S.	$_____
504.7400	Prestressed Concrete Plank, Interior, Qty. 14 (Bridge 3) ((14) 4'-10" Wide x 48'-6 1/2" Long)	680	L.F.	$ _____	$_____
504.7410	Prestressed Concrete Plank, Exterior, Qty. 4 (Bridge 3) ((4) 4'-10" Wide x 48'-6 1/2" Long)	194	L.F.	$ _____	$_____
504.7420	Prestressed Concrete Plank, Interior (Bridge 3A) ((7) 4'-10" Wide x 68'-6" Long)	480	L.F.	$ _____	$_____
504.7430	Prestressed Concrete Plank, Exterior (Bridge 3A) ((2) 4'-10" Wide x 68'-6" Long)	137	L.F.	$ _____	$_____
505.0500	Bridge 3 By-Pass Structural Steel H-Piles Driven	520	L.F.	$ _____	$_____
505.0501	Bridge 3 Structural Steel H-piles, Piles Furnished	555	LF	$ _____	$_____
505.0510	Bridge 3A By-Pass Structural Steel H-Piles Driven	270	L.F.	$ _____	$_____
507.0100	Bridge 3 By-Pass Road Metal Pedestrian Bridge Railing	160	L.F.	$ _____	$_____
507.5000	Bridge 3 Concrete Bridge Railing	209	L.F.	$ _____	$_____
507.5100	Bridge 3A Concrete Bridge Railing	145	L.F.	$ _____	$_____
507.7500	Bridge 3 Concrete End Posts	80	L.F.	$ _____	$_____
507.7510	Bridge 3A Concrete End Posts	80	L.F.	$ _____	$_____
508.0100	Cement Rubble Masonry (Wall)	L.S.	L.S.	L.S.	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
511.0100	Furnishing Drilled Shaft Drilling Equipment (Bridge 3)	L.S.	L.S.	L.S.	$_____
511.0110	Furnishing Drilled Shaft Drilling Equipment (Bridge 3A)	L.S.	L.S.	L.S.	$_____
511.0200	Obstruction (in Drilled Shaft, Bridge 3)	75	HOUR	$ _____	$_____
511.0210	Obstruction (in Drilled Shaft, Bridge 3A)	50	HOUR	$ _____	$_____
511.0300	Load Test (Bridge 3)	1	EA	$ _____	$_____
511.0310	Load Test (Bridge 3A)	1	EA	$ _____	$_____
511.0320	CSL Test on Drilled Shafts (Bridge 3)	L.S.	L.S.	L.S.	$_____
511.0330	CSL Test on Drilled Shafts (Bridge 3A)	L.S.	L.S.	L.S.	$_____
511.0400	Test Shaft	190	L.F.	$ _____	$_____
511.0500	Drilled Shaft (36-Inch Diameter, Bridge 3)	2,000	L.F.	$ _____	$_____
511.0510	Drilled Shaft (36-Inch Diameter, Bridge 3A)	1,600	L.F.	$ _____	$_____
511.0600	Standard Excavation (for Drilled Shaft, Bridge 3)	1,761	L.F.	$ _____	$_____
511.0610	Standard Excavation (for Drilled Shaft, Bridge 3A)	1,400	L.F.	$ _____	$_____
512.0100	Prefabricated Steel Truss Bridge Rental (Bridge 3A)	1	YEAR	$ _____	$_____
512.0200	Installing Prefabricated Steel Truss Bridge (Bridge 3A)	1	EA	$ _____	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
512.0300	Maintenance Prefabricated Steel Truss Bridge Rental (Bridge 3A)	12	MONTH	$ _____	$_____
602.0101	Reinforcing Steel for Abutment Stem Walls (Bridge 3)	17,600	POUND	$ _____	$_____
602.0102	Reinforcing Steel for Abutment Stem Walls (Bridge 3A)	20,400	POUND	$ _____	$_____
602.0103	Reinforcing Steel for Abutment Pile Caps (Bridge 3)	13,700	POUND	$ _____	$_____
602.0104	Reinforcing Steel for Abutment Pile Caps (Bridge 3A)	13,700	POUND	$ _____	$_____
602.0105	Reinforcing Steel for Endwalls (Bridge 3)	5,950	POUND	$ _____	$_____
602.0106	Reinforcing Steel for Endwalls (Bridge 3A)	5,950	POUND	$ _____	$_____
602.0107	Reinforcing Steel for Endwall Footings (Bridge 3)	5,040	POUND	$ _____	$_____
602.0108	Reinforcing Steel for Endwall Footings (Bridge 3A)	5,040	POUND	$ _____	$_____
602.0109	Reinforcing Steel for Pier Cap (Bridge 3)	5,750	POUND	$ _____	$_____
602.0110	Reinforcing Steel for Pier Columns (Bridge 3)	3,000	POUND	$ _____	$_____
602.0111	Reinforcing Steel for Pier Pile Cap (Bridge 3)	8,250	POUND	$ _____	$_____
602.0112	Reinforcing Steel for Approach Slabs (Bridge 3)	20,800	POUND	$ _____	$_____
602.0113	Reinforcing Steel for Approach Slabs (Bridge 3A)	20,800	POUND	$ _____	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
602.0114	Reinforcing Steel for Deck Topping Slab and Edge Beams (Bridge 3)	35,700	POUND	$ _____	$_____
602.0115	Reinforcing Steel for Deck Topping Slab and Edge Beams (Bridge 3A)	29,190	POUND	$ _____	$_____
602.0116	Reinforcing Steel for Channel Liner (Bridge 3)	22,500	POUND	$ _____	$_____
602.0117	Reinforcing Steel for Concrete Railing and End Posts that Extend Into Deck Slabs or Beams (Bridge 3)	500	POUND	$ _____	$_____
602.0118	Reinforcing Steel for Concrete Railing and End Posts that Extend Into Deck Slabs or Beams (Bridge 3A)	450	POUND	$ _____	$_____
602.0119	Reinforcing Steel for Drilled Shafts (Bridge 3)	135,000	POUND	$ _____	$_____
602.0125	Reinforcing Steel for Drilled Shafts (Bridge 3A)	115,000	POUND	$ _____	$_____
602.0130	Reinforcing Steel for By-Pass Road In-Fill Walls	5,000	POUND	$ _____	$_____
602.0140	Reinforcing Steel for By-Pass Road Bridge Abutments	18,000	POUND	$ _____	$_____
603.0010	Bed Course Material For Drainage Pipe	21	C.Y.	$ _____	$_____
603.1010	24-Inch Reinforced Concrete Pipe, Class III	254	L.F.	$ _____	$_____
603.1060	60-Inch Reinforced Concrete Pipe , Class IV	228	L.F.	$ _____	$_____
604.0370	Type B Manholes, 5 feet to 5.99 feet	1	EA	$ _____	$_____
604.0371	Type 61614P Grated Drop Inlet, 4.00 feet to 4.99 feet	1	EA	$ _____	$_____
604.0372	Type 61614P Grated Drop Inlet, 5.00 feet to 5.99 feet	1	EA	$ _____	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
605.0006	6-Inch Underdrain	1,810	L.F.	$ _____	$_____
605.1000	Type A Underdrain Outlet	10	EA	$ _____	$_____
605.2000	Cleanout	28	EA	$ _____	$_____
606.0100	Guardrail Thrie Beam Transition (Bridge 3)	100	L.F.	$ _____	$_____
606.0110	Guardrail Thrie Beam Transition (Bridge 3A)	100	L.F.	$ _____	$_____
606.3000	Guardrail Portable Barriers	970	LF	$ _____	$_____
606.3100	Guardrail Midwest Guardrail System	720	L.F.	$ _____	$_____
607.0060	6-Feet, Chain Link Fence (w/Top Rail and Fence Post)	30	L.F.	$ _____	$_____
607.0061	6-Feet, Chain Link Fence (w/vinyl lattice, Top Rail and Fence Post)	60	L.F.	$ _____	$_____
607.0062	6-Feet, Vinyl Fence w/5x5 Line, Corner and End Post	220	L.F.	$ _____	$_____
607.0100	6-Feet, Chain Link Fence (at Approches to Temporary By-pass Road Bridge)	150	L.F.	$ _____	$_____
607.0110	6-Feet, Chain Link Fence (along By-pass Raod Road, Bridge 3)	324	LF	$ _____	$_____
607.0200	Dual Galvanized Rolling Vehicle Entry Chain Link Gate	1	EA	$ _____	$_____
610.1000	(6-Inch) Reinforced Concrete Driveway	L.S.	L.S.	L.S.	$_____
612.0100	Grouted Rubble Paving (Bridge 3)	325	C.Y.	$ _____	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
612.0200	Grouted Rubble Paving (Bridge 3A)	40	C.Y.	$ _____	$_____
614.0100	Street Survey Monuments	2	EA	$ _____	$_____
622.1000	Roadway Lighting Luminaire and Bracket Arm On Wood Pole, 98W LED	6	EA	$ _____	$_____
622.1001	Remove Roadway Lighting Luminaire and Bracket Arm	6	EA	$ _____	$_____
622.8000	Temporary Roadway Lighting System	L.S.	L.S.	L.S.	$_____
624.0100	Water Systems (Temporary-Bypass Road)	L.S.	L.S.	L.S.	$_____
624.9000	Water Systems (Farrington Highway)	L.S.	L.S.	L.S.	$_____
625.1100	Sewer Systems	L.S.	L.S.	L.S.	$_____
626.1000	Sewer Manhole, 5 feet to 5.99 feet	1	EA	$ _____	$_____
626.1100	Adjusting (Water) Standard Valve Box	8	EA	$ _____	$_____
626.2000	(Water) Standard Valve Box	4	EA	$ _____	$_____
629.1000	Pavement Striping (Paint)	1,625	L.F.	$ _____	$_____
629.1100	4-Inch Pavement Striping (Thermoplastic)	9,386	L.F.	$ _____	$_____
629.1110	4-Inch Pavement Striping Dbl. Yellow (Paint)	1,050	L.F.	$ _____	$_____
629.1200	4-Inch Pavement Striping Dbl. Yellow (Thermoplastic)	883	L.F.	$ _____	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.1300	4-Inch Pavement Striping Dbl. Yellow, Dashed (Thermoplastic)	200	L.F.	$ _____	$_____
629.1400	12-Inch Pavement Striping (Thermoplastic)	43	L.F.	$ _____	$_____
629.1500	Crosswalk Marking (Thermoplastic)	2	LANE	$ _____	$_____
629.2020	Profiled Thermoplastic Striping	60	L.F.	$ _____	$_____
629.2021	Type C Pavement Marker	152	EA	$ _____	$_____
629.2022	Type D Pavement Marker	112	EA	$ _____	$_____
629.2023	Type F Pavement Marker	1	EA	$ _____	$_____
631.1000	Regulatory Sign (10 Square Feet or Less)	1	EA	$ _____	$_____
631.1100	Bus Stop Sign	2	EA	$ _____	$_____
634.0100	Portland Cement Concrete Sidewalk	40	S.Y.	$ _____	$_____
635.0100	E-Construction license	F.A.	F.A.	F.A.	$ 250,000.00
638.0100	Curb, Type 2D	78	L.F.	$ _____	$_____
638.0100	8-1/2" Concrete Curb for New Guardrail (Bridge 3)	60	L.F.	$ _____	$_____
638.0210	8-1/2" Concrete Curb for New Guardrail (Bridge 3A)	60	L.F.	$ _____	$_____
641.0100	Hydro-mulch seeding	L.S.	L.S.	L.S.	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
645.0100	Traffic Control	L.S.	L.S.	L.S.	$_____
645.2010	Additional Police Officers, Additional Traffic Control Devices and Advertisement	F.A.	F.A.	F.A.	$ 80,000.00
648.0100	Field-Posted Drawings	L.S.	L.S.	L.S.	$_____
650.0100	Curb Ramp, Modified	2	EA	$ _____	$_____
650.1000	Detectable Warning Mat	4	EA	$ _____	$_____
651.1000	HECO Ductline, One 3-Inch PVC Schedule 40, Concrete Encased	90	L.F.	$ _____	$_____
651.2000	HECO Handhole, 2' x 4'	1	Each	$ _____	$_____
651.3001	HECO Pole Riser, 3-Inch	2	Each	$ _____	$_____
651.3002	Remove HECO Pole Riser	2	Each	$ _____	$_____
652.1000	HT Ductline, One 2-Inch PVC, Type GT-42, Concrete Encased	90	L.F.	$ _____	$_____
652.2000	HT Handhole, 2' x 4'	1	EA	$ _____	$_____
652.3001	HT Pole Riser, 2-Inch	2	EA	$ _____	$_____
652.3002	Remove HT Pole Riser	2	EA	$ _____	$_____
655.0300	Dumped Riprap (Bridge 3)	2,300	C.Y.	$ _____	$_____
655.0310	Dumped Riprap (Bridge 3A)	655	C.Y.	$ _____	$_____
671.0100	Protection of Endangered Species	F.A.	F.A.	F.A.	$ 25,000.00

PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
692.0100	Voluntary Partnering	F.A.	F.A.	F.A.	$ 10,000.00
693.2010	Terminal Impact Attenuator (QuadGuard M10, TL-3")	L.S.	L.S.	L.S.	$_____
693.2020	Terminal Impact Attenuator (MSKT-SP-MGS, TL-3)	L.S.	L.S.	L.S.	$_____
693.2030	Terminal Impact Attenuator (MSKT-SP-MGS, TL-2)	L.S.	L.S.	L.S.	$_____
693.2040	Terminal Impact Attenuator (Inertial Barrier System: Tau-II, Absorb 350 or Other NCHRP 350 Approved; MASH 2016 Approved Crash Cushion)	L.S.	L.S.	L.S.	$_____
694.0100	Archeological Monitoring	F.A.	F.A.	F.A.	$ 250,000.00
696.0100	Field Office Trailer (Not To Exceed $32,000)	L.S.	L.S.	L.S.	$_____
696.1000	Maintenance of Trailers	F.A.	F.A.	F.A.	$ 22,000.00
698.0100	Training (8 Trainees)	1,000	HOUR	$ _____	$_____
699.1000	Mobilization (Not to Exceed 6 percent of the Sum of All Items Excluding the 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.				

PROPOSAL SCHEDULE

The bidder is directed to Subsection 105.16 – Subcontracts.

The bidder's attention is directed to Sections 696 - Field Office and Project Site Laboratory and 699 - Mobilization for the limitation of the amount bidders are allowed to bid.

If the bid price for any proposal item having a maximum allowable bid indicated therefore in any of the contract documents is in excess of such a maximum amount, the bid price for such proposal item shall be adjusted to reflect the limitation thereon. The comparison of bids to determine the successful bidder and the amount of contract to be awarded shall be determined after such adjustments are made, and such adjustments shall be binding upon the bidder.

The bidder is directed to Section 717 – Cullet and Cullet-Made Materials regarding recycling of waste glass.

FARRINGTON HIGHWAY
REPLACEMENT OF MAKAHA BRIDGE NO. 3 AND
MAKAHA BRIDGE NO. 3A

FEDERAL-AID PROJECT NO. BR-093-1(20)

PRE-BID MEETING NOTES
NOVEMBER 2, 2020

The following notes are from the Hawaii Department of Transportation (HDOT) pre-bid meeting with prospective bidders for the Farrington Highway, Replacement of Makaha Bridges Nos. 3 and 3A project.

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

All attendees were notified of the following:

- Major permits – Contractor shall comply with the conditions of the major permits prepared for this project. These permits include, but are not limited to: NPDES NOI C; NPDES NOI G; Section 404; and Section 106 Memorandum of Agreement.

- Archaeology
  - An archaeological monitoring plan has been prepared for the project. The Contractor must retain an archaeologist to undertake provisions of the monitoring plan.
  - The bidders should be aware that a burial treatment plan was also prepared for the project to relocate a known burial.

- Improvements at residential properties
  - There are project improvements at two residential properties. All Bidders intending to inspect these properties are requested to coordinate with HDOT prior to visiting the properties out of respect to the property owners.
  - Plan sheet 38. Rock wall: called out to be removed, salvaged and reconstructed. The existing rocks hold deep, personal meaning to the property owner. Care shall be exercised in dismantling and reconstructing the rock wall. All of the rocks from the wall are to be stored securely on site and reused in the reconstruction.

- Please email all RFIs to henry Kennedy at henry.kennedy@hawaii.gov.

Attendance List: HDOT
RM Towill Corporation
Goodfellow Bros, Inc.
Kiewit Infrastructure West Company
Grace Pacific
Nan, Inc.
Hawaiian Dredging Construction Company

The meeting ended at 10:10 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 addenda.

Contractor's RFI:

1. Please refer to the bid proposal form for the subject project. Bid item 202.0105 Removal of Bypass Road (Including AC Pavement, Base Course, and Embankment Material). The quantity for this item is stated at 27,300 SY. I believe that the quantity is a measure of SF rather than SY. Can you please confirm the quantity and unit of measure for this item?

   The quantity has been revised in the proposal schedule.

2. With reference to section 2/105, request cost item for installation of concrete channel slab cushion (4"- #3B Fine).

   Added bid item 304.1600 - Aggregate Base (for Channel Slab, Bridge No. 3)

3. With reference to plan sheet #34, Makaha Stream Channel Plan, request section "D".

   Section "D" is shown on Sheet 44.

4. With reference to bid item #503.1080, and plan & section sheets #143 & 145, request confirmation of proposal quantities. Our takeoff quantities are significantly less than proposal.

   Confirming that the 90 cy quantity is correct.

5. Can you please change the following Terminal Impact Attenuator pay items (693.2010, 693.2020, 693.2030)to quantity based pay items?

   Terminal Impact Attenuator shall be paid for as a lump sum item.

6. Can you please clarify on sheet 25 STA 1015+58.14, o/s 25.5' Rt. if the MSKT is TL-3 or TL-2?

   The MSKT-SP-GS end treatment shall be TL-3.

7. Can you please clarify, if a NCHRP-350 end treatment (reference bid item 693.2020) is called out for payment, can an NCHRP-350 TL-3 Steel barrier be used?

   Temporary work zone devices, including portable barriers, manufactured after December 31, 2019, must be successfully tested to the 2016 edition of MASH. Devices manufactured on or prior to this date and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may be used for temporary work zone devices provided the device is within their normal serviceable life. The proposal schedule and plans will be revised accordingly.

8. With reference to bid items #304.1000 & 401.0400, request confirmation or clarification that BYPASS ROAD aggregate base & HMA Mix IV work is included with these items.

   Added bid item for bypass road aggregate base.

9. With reference to typical detail on sheet #15, “HMA Pavement Section Farrington Highway”, and pavement connection detail on sheet #58, request clarification for 6” base layer. Is this layer aggregate base or untreated permeable base course? (ref. bid item #304.1000 or #306.0000).

   See Plan Sheet No. ADD. 58. The pavement connection detail has been revised to match the HMA section on sht. 15.

10. With reference to bid items #306.0000 (permeable base) & 605.0006 (underdrain) & 605.2000 (underdrain cleanout), and typical underdrain detail on sheet #15, request confirmation (or clarification) of intent to separate cost for underdrain permeable base. Otherwise request roadway plan information for bid item #306.0000 permeable base course work.

    Details for the permeable base course are shown on Sheet 15 and ADD. 43.

11. With reference to plan sheet #16, “Typical Section Farrington Hwy PCC Bus Pad”, request clarification to apparent discrepancy for Note reference to sheet C8.3.

    Refence to C8.3 is not relevant and has been deleted.

12. With reference to Structural General Notes, sheet 81, Foundation Note #D regarding soft or loose excavation located at bottom of excavation respectfully request an per cubic yard allowance item be set up to take care of the remedial over-excavation and aggregate base course backfill work for this differing subsurface condition.

    Per spec subsection 205.05 “the Engineer will pay for removal of material from depths greater than 3 feet below depths indicated in the contract documents in accordance with Subsection 104.02 – Changes.”

13. With reference to structural sheets #89-93, Bridge 3 Bypass Road plan, and bid item #505.0500 request measurement and payment special provisions for structural steel H-pile work.

    Added pay item 505.0501 Bridge 3 Structural Steel H-piles, Piles Furnished

14. With reference to structural sheets #141-145 , Bridge 3A Bypass Road plan, and bid item #505.0510 unable to locate work information for structural steel H-pile work.

    Pay item 505.0510 pertains to Bridge 3. The Bridge 3A bypass road does not include any H-piles or sheet piles.

15. With reference to structural sheets #89-93, request bid item and payment special provisions for PZC18 solid sheet pile work related to bridge 3 bypass road plan.

    The sheet pile pay item is 505.0510. Refer to structural steel note K, Sheet 82 and Section 505 of the HDOT Standard Specifications.

16. With reference to demolition plan sheets #19-21, request as-builts for existing bridge foundations, if available. If available, respectfully request as-builts be included with next addendum as current pandemic conditions do not allow easy access for bidders.

    Available as-builts are provided with this addendum.

17. With reference to sheet #42 profile for 6-60" temporary culvert and sheet #91, section 1/S2.3, request clarification to apparent discrepancy for 60" temporary culvert invert elevation (+3.40 vs. +3.00).

    Sheet 42 is correct. The invert elevation for the 6-60" pipe culverts shall be 3.40.

18. With reference to SP section 107, (page 107-3a, rows #123-133), request confirmation on requirement for Builders Risk insurance for this bid. Also request clarification whether there are SPECIAL CONDITIONS (ref. page 107-3a, row #132-133) for this Builders Risk insurance.

    Yes, Builders Risk Insurance is required. There are no Special Conditions.

19. With reference to SP section 651.01, "HECO will furnish, install, connect and test all proposed overhead and underground wire and cable as may be required, including guy wires. HECO will also remove and/or install utility poles and anchors. Who is paying for this work? Does the HDOT have a separate work agreement with HECO? If so request HECO MOA for work on this project and specifically related to the anticipated work duration for SP section 651.01 work.

    The cost for work performed by the utility companies will be handled by Utility Agreements between DOT and the respective utility companies. Copies of the UA are provided with the Addendum.

20. With reference to SP section 652.01, "HT and/or Spectrum will furnish, install, connect, and test all proposed overhead and underground wires and cables as may be required." Who is paying for this work? Does the HDOT have a separate work agreement with HT and Spectrum? If so, request HT and

Spectrum MOA for work on this project and specifically related to the anticipated work durations for SP section 652.01 work.

The cost for work performed by the utility companies is handled by Utility Agreements between DOT and the respective utility companies. Copies of the UA are provided with this Addendum.

21. With reference to SP section 694.04 & 694.05 (measurement and payment sections) and the project's AMR, request confirmation or clarification whether costs for onsite coordination meetings, lab analysis, report preparation, and material archiving as delineated in the project AMR section 3, Archeological Monitoring Provisions (page #40-42) will be included with proposal item #694.0000 (FA) costs.

    Confirmed that the cost of the FA item includes the archaeological monitoring provisions outlined in the archaeological monitoring plan.

22. Request a proposal item for cost related to plan sheet #7, Environmental Permit Notes #1-3, and #5, area biological survey, monitoring, and post-construction reporting for the Hawaiian Stilt, green sea turtle, and hawksbill turtle. We suggest this item be paid for using a new Force Account proposal item.

    Added F.A. bid item 671.0100 – Protection of Endangered Species.

23. With reference to plan sheet #7, Environmental Permit Notes, request clarification on Note #4. What species is this requirement for?

    "Woody plans [SIC] taller than 15 feet shall not be disturbed, removed, or trimmed during the birthing and pup rearing season (June 1 athrough [SIC] September 15)"

    This requirement is for the Endangered Hawaiian hoary bat - ʻŌpeʻapeʻa (Lasiurus cinereus semotus). Pacific Islands Fish and Wildlife Office, U. S. Fish and Wildlife Service, also cited in https://www.fws.gov/pacificislands//articles.cfm?id=149489720.

24. With reference to plan sheet #8, Environmental Permit Note #29, request clarification on the approximate number of days per year no excavation or fill work can be done in shorelines or streams. How many days before full moon will coral spawn?

    Upon award of contract and prior to start of construction, the Contractor should consult with the ACOE to obtain guidance on environmental requirements. It may be useful to also obtain the services of an environmental consultant to obtain responses to specific biological questions such as the number of days before the full moon when coral may be spawning.

25. With reference to demolition of existing bridge – has a project environmental hazard management plan (EHMP) been done for this project? If so request this EHMP be made part of the bid documents for project. If there is no project EHMP will the HDOT require the contractor to prepare such a report prior to bridge demolition work?

    An Environmental Hazard Management Plan was not prepared. No contaminated soil is anticipated on the site.

26. With reference to Bridge #3, NWP Section 404, request status of Section 401 CWA Water Quality Certifications. Has this permit been waived or acquired by the HDOT? If permit has been acquired, request copy of permit conditions be made part of bid documents for the project.

    This permit was waived by the HDOT. The Contractor shall comply with the requirements of Grading Note 10 on Sheet 9.

27. With reference to General Note #36, on plan sheet #7, respectfully request the Geotechnical Investigation report for Farrington Highway Replacement of Makaha Bridges #3 & 3A in its entirety. Due to the current Covid19 conditions we request this report be included with the next addendum for review by all bidders.

    This Geotechnical investigation report is provided with this addendum for <u>information only.</u> The plans and specifications will govern.

28. With reference to plan sheet #7, General Note Traffic Control, Note #13, as note indicates project night work - request the associated noise variance permit conditions be included with next addendum.

    A noise variance permit has not been obtained for this project. No night work is anticipated.

29. With reference to Bypass Road Plan sheets #22-24, Typical section sheet #18, and Cross-Section sheets #68-71, and bid item #203.0100, request grading plans or cross-sections for Bypass Road.

    Added spot elevations on sheets ADD. 22 thru ADD. 24.

30. With reference to typical section sheet #15, HMA Pavement Section – Farrington Highway, and typical section sheet #16, Typical Section – Farrington Highway PCC Bus Pad, request clarification on location of tack coat layers required. The two referenced sections differ in tack coat application requirements.

    Deleted tack coat reference on sht. #16.

31. With reference to typical section sheet #16, Typical Section – Farrington Highway PCC Bus Pad, and sheet #61, Bus Shelter Site Plan, and HDOT

Standard Detail D-16, request clarification of apparent section discrepancy. Does section require curb (Type 2D) or curb and gutter adjacent to new PCC bus pad? Please revise bid item #638.0000 as applicable.

Section requires Curb Type 2D.

32. With reference to typical section sheet #16, Typical Section – Farrington Highway PCC Bus Pad, and HDOT Standard Detail D-16, request clarification if the reinforcing steel for the PCC Bus Pad is to epoxy coated

    Reinforcing steel shall be epoxy coated.

33. With reference to typical section sheet #16, Typical Section – Farrington Highway PCC Bus Pad, please confirm cost for aggregate base course goes with bid item #304.1000 and there is no requirement for permeable separator at PCC sidewalk locations.

    Aggregate base course for PCC bus pad shall be paid for under bid item 304.1000 Aggregate Base Course. Permeable separator is not required at the concrete sidewalk.

34. With reference to typical section sheet #15, HMA Pavement Section – Farrington Highway, and standard specification section 313, request confirmation or clarification that the payment item for the permeable separator layer are bid items #304, 306, & 605 as applicable.

    Permeable separator shall not be paid for separately and shall be incidental to other bid items.

35. With reference to typical approach slab sections sheets #114 & 137 for bridges #3 & 3A, request confirmation or clarification for the requirement of a permeable separator at base course layer for bridge approach slabs.

    Permeable separator is not required.

36. With reference to Special Provision section 107.03, request confirmation that standard day shift non lane closure work hours will be between 7:00 am to 3:30 pm, Monday to Friday. Standard night shift work hours will be between 8:00 pm and 4:30 am, Sunday night/Monday morning to Thursday night/Friday morning per plan sheet #7, General Note for Traffic Control Plans Note #13. Further in accordance with Special Provision section 107.05(A), please confirm that the State will be responsible for payment for the State's staff and inspection personnel including consultants for night shift work.

    No night work anticipated.

37. With reference to bid item #411.2201, plan sheet #38, property adjustment, and detail sheet #59, request confirmation that cost for 4" aggregate base layer is covered by bid item #304.1000. Also request confirmation of bid item #411.2201

proposal quantity. Our takeoffs indicate something significantly less than the proposal amount.

Added bid item 304.1300 Aggregate Base (4" thick PCC Pavement).

38. With reference to bid item #411.2201, detail sheet #59, and structural note sheet #81 request confirmation that the 4" concrete pavement will be Class A concrete.

Confirming 4" concrete slab shown on sht. ADD. 59 shall be class A.

39. With reference to bid item #607.0200, is this the 24' wide sliding gate with dual motorized gate operators indicated on plan sheet #38? If so, please provide specifications and power and control plans for the motorized gate operators.

Added specification on Sht. ADD. 38.

40. With reference to bid item #203.0100, and cross section sheets #68-71, request cross sections (or grading plans) for Kili Drive and Access Road.

Provided spot elevations.

41. With reference to bid item #503.1085, and end wall section and detail sheet #102, request confirmation for location of note "top of end wall" (elevation 1/102) and proposal quantity.

The "top of end wall" in 1/102 is mistakenly pointing to top of approach slab. The arrow should be pointing down to dashed line (2'-6" above tie rods).

42. With reference to bid item #503.1090, and structural sheets #89-92, and drain profile sheet #42, what is bottom elevation of concrete infill walls? Section 7/92 as drawn for concrete infill wall does not match soldier beam pile spacing indicated on elevation 1/90 (7'-8").

Bottom of concrete infill walls are to be 1'-0" below bottom of culvert pipe. See 7/S2.4. 1/90 shows soldier pile spacing at 7'-8". Section 7/92 does not show a spacing dimension.

43. With reference to bid item #503.1090, and special provision section 503.04, request clarification on measurement with regards to deductions for pipe volume greater than 8" diameter.

Quantities shown in pay item 503.1090 are actual quantities and already include the deduction for the 6' diameter pipes.

44. With reference to bid items #503.1095 & 503.1096, request confirmation of proposal quantities (170 & 139 cy.) Our takeoff indicates quantities significantly less for both items.

The quantities in the proposal schedule have been updated.

45. For Item #693.2040 Terminal Impact Attenuator – assume to be used on temporary for by pass road. Note 2 on sheet 22-24 indicates Temporary Construction End Treatment shall be MASH Compliant. Can you please add on the ACZ-350 and/or Triton CET as approved products? Can you please change call out to include NCHRP-350 reference?

    Temporary work zone devices, including portable barriers, manufactured after December 31, 2019, must be successfully tested to the 2016 edition of MASH. Devices manufactured on or prior to this date and successfully tested to NCHRP Report 350 or the 2009 edition of MASH, may be used for temporary work zone devices provided the device is within their normal serviceable life. The proposal schedule and plans are revised accordingly.

46. Also can you please change the approximate quantity in the pay item to the 8 units needed for the four bridges, as the call outs on sheets 22, 23 and 24 are inconsistent.

    Terminal Impact Attenuator shall be paid for as a lump sum item.

47. Due to the complexity of this project and number of bids that are due at the same week for different agencies, we respectfully request to extend the bid due date for at least two weeks to allow all bidders and their subcontractors to provide competitive pricing.

    The bid due date has been extended to 12/3/20.

48. Can you please clarify where the Portable Steel Barrier (MASH TL-3) is paid for? Call out are on sheets 22, 23, & 24.

    A pay item 606.3000 Guardrail Portable Barriers, has been added to the proposal schedule.

49. Please refer to the bid proposal form for the subject project. It appears that the quantities and descriptions for Bid Item 605.1000 and 605.2000 are incorrect.

    The bid item quantities in the proposal schedule have been updated.

50. Per the 404 Bridge Permit, the dredged material is to be used for temporary road construction. When the temporary road construction is to be removed, is there a specific approved disposal facility required by the 404 Permit?

    Upon award of contract and prior to start of construction, the Contractor should consult with the U. S. Army Corps of Engineers (ACOE) to obtain clarification on approved disposal facilities that will accept construction and demolition debris. Although an approved disposal facility has not been specified, contractor may also contact the PVT Landfill for guidance on

construction materials acceptable for disposal.

51. The removal of the steel sheet pile for temporary bridge 3 is in 202.0204, what bid item includes the install of the sheets?

    The furnishing and installation of steel sheet piling is 505.0510.

52. Does Buy America apply to the temporary steel? i.e. sheets, hpile, and whalers.

    The steel piling is temporary and is not subject to the Buy America Act.

53. Is the sheet pile for temp bridge 3 required to be new fabrication? Will the sheet piles require a fabrication mill cert?

    No for both questions.

54. With reference to Roadway Plan sheets #27-29, and Road Cross Section sheets #68-71, request grading information or cross sections for Kili Drive and Access Road.

    Additional spot elevations are provided on Plan Sheet No. ADD. 36.

55. With reference to the Bypass Plan sheets #22-24, request grading information for the temporary bypass road.

    Added spot elevations on Plan Sheet Nos ADD. 22 – ADD. 24.

56. With reference to sheet #36, Makaha Stream Grading plans, request existing grade information within the work area.

    Revised sheet to show existing topographic information.

57. With reference to sheet #37, West Makaha Stream Grading plans, request existing grade information within the work area.

    Revised sheet to show existing topographic information.

58. With reference to roadway cross-section sheets #68-71, request verification of station cut and fill areas as they do not match the calculated excavation/embankment volumes.

    Updated cross sections.

59. With reference to drain pipe trenching detail sheet #44, request allowance pay item for the *requirement for additional 24” depth of excavation, geotextile, and installation of crush rock bedding (where pipe invert extends below groundwater elevation). Additionally, request material specifications for additional 24” layer of crushed rock.

Added pay item 206.2025 Excavation for Unsuitable Material. Crushed rock shall comply with Section 206.02 Materials.

60. With reference to drain pipe trenching detail sheet #44, request clarification whether pipe bedding course layer requires geotextiles for those areas where pipe invert is above groundwater elevation.

    Geotextile shall be installed per 703.21 Trench Backfill Material.

61. With reference to bid item #501.0213, 501.0215, and 501.0216, and plan sheet #88 & 102, request sections and details for sheetpile wall, double channel walers, HSS 4x4 struts installed during phase 3 at Bridge #3. Where should sheetpile wall cost be included with?

    As this is considered to be temporary shoring, the walers and struts are to be designed by the contractor. See pay item 505.0510 for sheet pile wall cost.

62. With reference to bid item #505.0500, and elevation sheet #90, and note #2 cross-section sheet #91, what is top of H-pile elevation? Following note #2 on sheet #91, the quantity does not match the proposal quantity.

    Top of deck at EP = ~ 11.3' See pay item 505.0501.

63. With reference to bid item #505.0510, and structural sheets, request information on structural steel H-Piles Driven, as we are currently unable to find any H-Pile work for Bridge 3A By-Pass work.

    There is no H-Pile or sheet pile work for Bridge 3A.

64. With reference to bid item #507.0100, and elevation 1/93, request detail information for railing post ground anchorage. Will on-center weld spacing match sheetpile/H-pile locations?

    The railing post connection is shown in detail 2/S2.5 (welded to sheet pile). The 7'-8" post spacing is a maximum spacing and can be modified to make sure the posts coincide with the z-sheeting flange spacings.

65. With reference to bid item #603.0020, request clarification for bed course layer thickness for drainage structures.

    6" min. thickness of No. 67 crushed rock shall be placed under drainage structures. Deleted bid item 603.0020, added bid item 206.2020.

66. With reference to bid item #603.1060, civil profile sheet #42, and structural sheet #89, request proposal quantity verification and clarification of apparent quantity discrepancy for 60" RCP, Class IV.

Bid Item 603.1060 and Sht. ADD. 42 are revised to match Sht. 89.

67. With reference to bid item #604.0370, and Bypass Road plan & profile sheet #22, request clarification of apparent discrepancy for drain structure at Sta 1+40.1. Plan indicates drain structure as "SDMH A1 (Type B)", while profile calls out Grated Drain Inlet at same drain line station. There is also a pipe invert elevation discrepancy between the plan and profile views. Note that clarification may require a new proposal bid item to account for cost and payment.

    Revised. See Plan Sheet No. ADD. 22.

68. With reference to bid item #604.0371, plan sheet #36, and profile sheet #42, request confirmation or clarification on GDI height at station 1012+56.24. According to plan and profile top and invert elevations, it is greater than 4.99' in height. Suggest deleting GDI structure height from bid #604.0371 description.

    Added bid item 604.0372.

69. With reference to bid item #610.1000, plan sheet #25, and plan sheet #38, request clarification for apparent discrepancy – "6" thick reinforced driveway", Std Plan D-06 (#25), and "Farrington Hwy 20' wide AC driveway" (#38). Request limits and/or dimensions for new driveway work and clarification of material and specification requirements (reinforced concrete or AC driveway).

    Revised. See Plan Sheet No. ADD. 25.

70. With reference to sheet #35 (West Makaha Stream Channel Plan) and sheet #40 (West Makaha Channel Sections), request clarification for the apparent discrepancy between plan and section information. Dumped riprap or GRP slope protection at West Makaha Channel (Bridge #3A)?

    Plan and sections are correct. Slope protection consists of both dumped riprap and GRP.

71. Approach Slab detail on 114 shows 6" Thick Agg Base. Sheet 100 shows 8" Thick Agg Base. Which sheet is correct?

    The aggregate base beneath the approach slabs shall be 6 inches.

72. Bid Item 505.0510, there is no reference to HPile in the Plan sheets for Bridge 3A. Is there any HPile on Bridge 3A?

    There are no H-Piles at Bridge 3A.

73. Will SHPD require an updated Archaeological Monitoring Plan taking into consideration the results of the Data Recover Report.? Do you happen to know if this has been determined?

There are two sets of human skeletal remains we're dealing with. The first was found by Cultural Surveys Hawaii, and the second was found by International Archaeology LLC. Regarding the first set of remains, Cultural Surveys Hawaii had already completed its AMP dated March 2010 and DRP requirements for the first set of remains.

Regarding the second set of remains, International Archaeology LLC has performed its DRP and submitted the results to SHPD to whom we are awaiting a response.

74. Sheet 157 states that all utility costs, including service charges, shall be incidental. Who, at HECO or the other utility contractors, does the contractor contact to get a quote/proposal for all the costs associated with this work?

    The utility costs referenced on Sheet 157 relate to Hawaiian Electric (HECO) charges associated with setting up an account with HECO and paying for the monthly utility charges for the detour road lighting system. These costs would be based on the length of time needed to keep the detour lighting system operational.

75. With reference to the various civil and structural layout sheets for the phased bridge #3 construction, interim plans, and SP sections 108 & 645, is there a substantial completion requirement for the opening of Farrington Highway? Is there a maximum time that the bypass road will be allowed open?

    There is no substantial completion requirement for the opening of Farrington Highway nor maximum time the by-pass road is allowed open. The Contractor shall be responsible for maintaining the by-pass road.

76. With reference to plan sheets #56-59, request pipe hangar information for 8" pipe on bypass bridge #3A.

    Contractor shall coordinate with bypass bridge supplier for pipe hangar details.

77. With reference to bid item #503.1098, request information for 12" diameter water line encasement including rebar. We are currently unable to locate any information on any permanent 12" pipe encasement work.

    Bid Item 503.1098 revised from 12" to 8" diameter pipe size.

78. With reference to bid item #693.2010, and plan sheets #32 & 33, and Quadguard detail sheet #64, request confirmation that Quadguard slab dimensions are 3 bays per location for this project.

    Concrete slab shall accommodate TL-3 Quadguard.

79. With reference to permanent water system, and cathodic protection sheets #78-80, and SP section 624, request confirmation or clarification of permanent water system requirement for pipe/fitting/appurtenant joint bonding. Also please confirm cathodic protection cost to be part of bid item #624.9000.

    Cathodic protection of the water system shall be per Plan Sheet No. ADD. 78 thru ADD. 80. Cathodic protection is included with the cost of bid item 624.9000.

80. With reference to bypass water system, and cathodic protection sheets #78-80, request confirmation that no cathodic protection required for bypass water system.

    No cathodic protection is required for the bypass water system.

81. With reference to bid items sections for drain system #206, 603, 604, request confirmation or clarification that permanent and bypass drain system installation is included with these unit price bid items.

    Permanent and bypass drain system is included in the bid items for sections 206, 603 and 604.

82. With reference to demolition sheet #21, request confirmation (or clarification) that removal costs are part of bid item #202.0205, and if there is any information on the pipe material type for this existing 12” and 6” waterline to be removed.

    Added bid items for removal of 8-inch and 12-inch waterlines. No information on the pipe material is available.

83. With reference to bid items #624.9000 and demolition sheet #20, please confirm or clarify that costs related to the removal of the existing 8” waterline attached and leading from the existing bridges #3 & 3A shall be included with bid item #624.9000.

    Added bid items for removal of 8-inch and 12-inch waterlines.

84. With reference to bid item #202.0104 “Removal of Concrete Channel Liner (Bridge 3)”, have been unable to locate any plan and section information for this removal item. Is there any information for this removal work item? (i.e. location, and dimensional details on concrete channel liner)

    The as-built bridge drawings do not show the channel slab, so the existing dimensions are not known. Please demolish the same footprint size to match the new channel slab.

85. With reference to bid item #202.0102 & 202.0103, and demolition sheets #19-21, request location and dimensional details for “CRM Abutment Embankment Protection” item scheduled for removal.

Revised bid items 202.0102 and 202.0103.

86. With reference to bid item #202.0105, request clarification for apparent discrepancy in item quantity. Is unit of measurement in square yards or square feet?

    Revised quantity and unit to SY.

87. With reference to bid item #202.0208, and plan sheets #22-24 (bypass road plan), request bid item for installation of portable barriers and inertial barrier system. With reference to plan sheet #24, request clarification if temporary inertial barrier system required at Sta 9+00 bypass road o/s 12' left?

    Revised Sht. 22-24. Please refer to bid items 606.3000 and 693.2040. Revised construction end treatment at 9+00 Lt. and 9+25 Rt.

88. With reference to plan sheet #164, "Boring Location Plan", there is a burial callout located adjacent to the west of Boring B6 and apparently in the bypass road footprint. Request current information on this burial and if it is still located within the project limits and requiring archaeological monitoring.

    The burial will be relocated per the approved BTP treatment plan prior to construction NTP.

89. With reference to demo work plan sheets #19 -20, and bid item #202.0431, request quantity confirmation for item. Our takeoff indicates a quantity significantly larger than the proposal quantity. Also request bid item for cold plane and resurface work description, and information on cold plane and resurface thickness.

    Revised bid quantity.

90. With respect to pre-existing hazardous materials/hazardous waste or hazardous materials/hazardous waste not brought onto the site by the Contractor. Please confirm that the Owner will be considered the "generator" of such hazardous materials/hazardous waste and sign any necessary generator manifests.

    Pre-existing hazardous waste are not anticipated on the site.

91. Plan Sheet 7 General Note 36 states, "For geologic inspection summary refer to "Geotechnical Investigation….. Dated July 2,2020 prepared by Hirata & Associates Inc. Please provide mentioned geotech report.

This Geotechnical investigation report will be provided with the addendum for <u>information only.</u> The plans and specifications will govern.

92. With respect to transporting equipment and material to the project site there are several bridges that are crossed.

    Please provide existing HDOT bridges capacity rating for:
    a. HDOT bridge at North end of Kahe Power Plant
    b. HDOT bridge between Laumania Ave and Nanakuli Ave
    c. HDOT bridge between Mohihi Street and Princess Kahanu Ave
    d. HDOT Maipalaoa Bridge between Mapalaoa Road and Manununu St
    e. HDOT bridge between Milikami St and Mailiili Rd
    f. HDOT bridge Kaupuni St and Ala Hema St

    The Contractor is responsible for coordinating with HDOT to obtain bridge load ratings.

93. In addition to the permits issued with RFP documents, please confirm that HDOT has obtained or will have obtained the following permits prior to NTP:

    a. CWA Section 401, Water Quality Certification and Applicable Monitoring and Assessment Plan

       Section 401 WQC is not required for this project

    b. Stream Channel Alteration Permit

       SCAP is not required for this project

    c. Coastal Zone Management Act SMA permit and Federal Consistency

       CZM Federal Consistency Determination is approved dated July 21, 2009. SMA permit is not required for this project.

    d. Conservation District Use Permit.

       CDUP permit is not required for this project.

94. Please confirm that HDOT has obtained or will have obtained the Utility Agreements prior to NTP.

    Utility agreements have been obtained by HDOT and are provided in this addendum.

95. Bid Item 505.0510 indicates there are H piles to be installed for bridge 3A bypass. Please provide drawing showing H-piles location on bridge 3 bypass.

There is no H-piles or sheeting work for Bridge 3A.

96. Bid item 202.0104 indicates the demolition of concrete channel liner for bridge 3. Please provide drawing showing demolition of concrete channel liner for Bridge 3.

    The as-built bridge drawings do not show the channel slab, so the existing dimensions are not known. Please demolish the same footprint size to match the new channel slab.

97. Plan Sheet 22 Bypass Road Plan & profile -1 plan view has call outs "0+51, By-Pass Rd. o/s 16' Lt., Begin Portable Steel barrier (MASH TL-3)" and "Sta. 1+63.15, o/s 12' Lt. Begin Temporary Construction End Treatment (MASH Compliant)" where the arrows do not point to any distinguishable features. Please clarify.

    See Plan Sheet No. ADD. 22.

98. Bid item 202.0441 indicates removal of 12" drain pipe. Please provide drawing showing location of 12" drain pipes to be removed.

    Bid item is shown on Plan Sheet No. ADD. 19.

99. Bid item 202.0102 and 202.0103 reference CRM Abutment Embankment Protection for Bridges 3 & 3A. However on the plans, the Abutment Embankment protection is called out as Rip Rap. There is also bid item 202.0440 that references the removal of Rip Rap. Please clarify the intended bid item for the removal embankment protection.

    Revised bid items 202.0102 and 202.0103.

100. HDOT specification 511.03 C3 calls for the installation of the Trail Shaft (separate from a Test Shaft). There are no line items for a trail shaft listed in the project's Proposal Schedule. Please confirm that a trail shaft is NOT required for this project or indicate which pay item it should be included in.

    One of the test shafts can also serve as a trial shaft. No pay item included.

101. HDOT specification section 511.02 (12) Integrity Testing (b) states that 5% of production shafts must be cored. There are no line items for a coring listed in the project's Proposal Schedule. Please confirm that coring is NOT required for this project or indicate which pay item it should be included in.

    Revised Section 511.

102. Please confirm that the Apprenticeship Program Preference is not applicable to this project.

    On-the-job training shall comply with Section 698 – Training.

103. On Plan Sheet C3.6 there is a discrepancy between the starting and ending waterline stations shown in the plan view and profile view. Please clarify which stationing in correct.

    Revised Sht. C3.6.

104. The electrical plans have 6 new temporary and permanent street lights to install.

Is the intent to re-use the new temporary street lights for the permanent installation?

Intent is to provide new street lighting luminaires for the permanent installation and not to reuse the luminaires along the detour road unless otherwise indicated.

105. The electrical plan note calls for the electrical utility costs to be incidental to the "Detour Road Lighting System". However, we normally cannot get this cost from the utility companies prior to bid. Is it possible to make this a Force Account or Allowance Item?

The utility costs for the Detour Road Lighting System has to do with utility charges associated with setting up an account with HECO and paying for the monthly utility charges associated with the detour road lighting system. These costs would be based on the length of time needed to keep the detour lighting system operational.

106. What is the expected NTP date for this project?

Anticipated NTP date is March 2021.

107. Are there any as-builts files (pdf) of the existing bridge #3 & 3A available for addendum inclusion?

Please see attached as-built files.

108. Request clarification for requirement of "truck mounted attenuator" shown on traffic control plan sheet #75. Additionally request clarification if any inertial barrier system required at Kaena Point end of portable barriers on inbound side (plan sheet #24).

Deleted truck mounted attenuator. Revised Sht. 24.

109. With respect to typical section sheets #16-18, request clarification as to what bid item should include costs for "turf reinforcement matting" on slope shoulders for specific roadway stations. Also request material specification for this turf reinforcement matting.

Added specifications on Sht. ADD. 16 thru ADD. 18.