STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ADDENDUM NO. 1
for
PALI HIGHWAY RESURFACING
WAOKANAKA STREET TO KAMEHAMEHA HIGHWAY AND
PALI HIGHWAY LIGHTING REPLACEMENT
VINEYARD BOULEVARD TO KAMEHAMEHA HIGHWAY
NH-061-1(035)

The following amendments shall be made to the Bid Documents:

A. TABLE OF CONTENTS

1. Replace Table of Contents, pages 1-4, dated 2/21/2017 with the attached Table of Contents, pages 1-4, dated r5/15/2017.

B. SPECIAL PROVISIONS

1. Replace Section 421 – High Friction Surface Treatment, pages 421-1a to 421-4a dated 5/5/2016 with the attached Section 421 – High Friction Surface Treatment, pages 421-1a to 421-4a dated r5/15/2017.

2. Add Section 626 – Manholes and Valve Boxes for Water and Sewer Systems, pages 626-1a to 626-4a dated 5/15/2017.

3. Replace Section 645 – Work Zone Traffic Control, page 645-1a dated 5/5/2016 with the attached Section 645 – Work Zone Traffic Control, page 645-1a dated r5/15/2017.

4. Add Section 684 – Spot Speed System, pages 684-1a to 684-3a dated 5/15/2017.

5. Replace Federal Wage Rates dated 3/10/2017, with the attached Federal Wage Rates dated 3/17/2017.

C. PROPOSAL SCHEDULE

1. Replace pages P-8 to P-16 dated 2/21/2017, with the attached pages P-8 through P-16 dated r5/15/2017.

D. PLANS

1. Replace Plan Sheet Nos. 13, 14, 15, 17, 19, 20, 52, 56, 63, 72, 73, 74, 75, 76, 77, 79, 108, 109, 111, 112, 113, 123, 125, 137, 138, 139, 141, 147, 148, 151, 154, 155, 156, 157, 158, 159, 161, 212, 240, 241, 242, 243, 247, 253, 302, 308, 312, 320, 324, 330, 333, 338, 343, 347, 352, 357, 361, 362, 367, 372, 374, 378, 382, 388, 390, 393, 395, 396, 397, 398, 432, 434, and 449 with the attached Plan Sheets Nos. ADD. 13, ADD. 14, ADD. 15, ADD. 17, ADD. 19, ADD. 20, ADD. 52, ADD. 56, ADD. 63, ADD. 72, ADD. 73, ADD. 74, ADD. 75, ADD. 76, ADD. 77, ADD. 79, ADD. 108, ADD. 109, ADD. 111, ADD. 112, ADD. 113, ADD. 123, ADD. 125, ADD. 137, ADD. 138, ADD. 139, ADD. 141, ADD. 147, ADD. 148, ADD. 151, ADD. 154, ADD. 155, ADD. 156, ADD. 157, ADD. 158, ADD. 159, ADD. 161, ADD. 212, ADD. 240, ADD. 241, ADD. 242, ADD. 243, ADD. 247, ADD. 253, ADD. 302, ADD. 308, ADD. 312, ADD. 320, ADD. 324, ADD. 330, ADD. 333, ADD. 338, ADD. 343, ADD. 347, ADD. 352, ADD. 357, ADD. 361, ADD. 362, ADD. 367, ADD. 372, ADD. 374, ADD. 378, ADD. 382, ADD. 388, ADD. 390, ADD. 393, ADD. 395, ADD. 396, ADD. 397, ADD. 398, ADD. 432, ADD. 434, and ADD. 449.

2. The attached Addendum Plan Sheet Nos. ADD. 4S-1, ADD. 286S-1, ADD. 286S-2, and ADD. 306S-1 shall be incorporated and made a part of the plans.

3. Plan Sheet 25: Revised callout to "Provide RM-5 Markers @ 25' O.C. Per Detail On Sheet CD3" instead of "...On Sheet 46".

4. Plan Sheet 34: Added subtitle "Median Barrier to W-Beam Transition Details, Double Sided".

5. Sheet 35: Revise Plan Sheet No. "17 of 20" to say "CD17 of 20".

6. Sheets 55 & 57: Revise Callout for Median work to read "See Sheets CR3 to CR11".

7. Sheet 80: Revise Guardrail Length at Sta. 173+01 to Sta. 178+18 to 525 LF.

8. Sheet 114, Note 15: Revise to read "All permanent signs shall be installed with square tube posts, unless otherwise specified."

9. Sheet 128: Revise DES-10 sign callout to say "See Sheet CO2" instead of "See Sheet CO3".

10. Sheet 131: Revise "Fallen Rocks" sign code to read "W8-14, 36x36". Revise "Lights?" sign code to read "ZLIGHTS, 60x30".

E. PERMITS

1. Attached are the approved NPDES, Community Noise Permit, Noise Variance and Geotechnical Engineering Exploration Rehabilitation Report.

The following is provided for information.

A. PRE-BID MEETING MINUTES

1. Attached are the May 5, 2017 pre-bid meeting minutes and attendance sheet.

B. CLARIFICATION QUESTIONS/REQUEST FOR INFORMATION AND HDOT RESPONSE

a. Question: In reference to sheet 19, Guardrail #24 does not match the location and length given on sheet 77. Please clarify.

Response: Length revised to account for end treatment lengths. Revised Stations to Sta. 137+03 to Sta. 137+93 and length revised to 100 LF on both sheets.

b. Question: In reference to sheet 19, Guardrail #28 does not match the location and length given on sheet 80. Please clarify.

Response: Location of guardrail is correct: Sta. 173+01 to Sta. 178+18. Length of guardrail revised to 525 LF.

c. Question: In reference to sheet 79, plan calls out for 200' of W-Beam Guardrail at Sta. 160+02 to Sta. 161+66 but not called out in the Guardrail Schedule. Please clarify.

Response: Existing guardrail in lookout area to remain. Callout on Plan Sheet No. 79 removed.

d. Question: In reference to sheet 56, plan calls out for 150' of W-Beam Guardrail at Sta. 85+16 to Sta. 86+67 but not called out in the Guardrail Schedule. Please clarify.

Response: Guardrail layout revised in this area. Callout added to Guardrail Schedule and revised on Plan Sheet No. 56 to show Sta. 84+11 to Sta. 86+67.

e. Question: In reference to sheet 56, plan calls out for 87.5' of long span guardrail over catch basin but not called out in the Guardrail Schedule. Please clarify.

Response: Guardrail layout revised in this area. Callout added to Guardrail Schedule and revised on Plan Sheet No. 56 to show Sta. 84+11 to Sta. 86+67. Guardrails referenced in Addendum No. 1 Questions No. 4 and No. 5 have been joined into one long guardrail segment.

f. Question: In reference to sheet 19, Guardrail #8 calls out for 2 ea Modified A-1 end treatments but sheet 63 calls out for 1 ea Type "G" and 1 ea Modified Type A-1. Please clarify.

Response: Modified Type A-1 terminal is correct. Plan Sheet No. 63 callout revised to Modified Type A-1.

g. Question: With reference to plan sheet S0.2 (#241), and special provision section 695.02(A), "Portland Cement Concrete", please clarify requirement for pounds of cementitious material per cubic yard. The structural plan notes indicate 675 pounds minimum while the special provisions call for 550 minimum.

Response: Special provision 695 is for Concrete Median Barriers. Please see item (2) instead of (6) on Plan Sheet ADD. 241. Minimum cementitious material is 675 pounds.

h. Question: With reference to Roadway Plan Sheet #60, ~BL Sta 15+00, new concrete median barrier #2 crossing existing D.I. #87 & 88, request structural details for the modification work required at these locations.

Response: There will be no modification to the DIs at this station. There is a 2' gap between the walls of the two DIs, and this is where the barrier will run.

i. Question: With reference to Roadway Plan Sheet #71, ~BL Sta 80+00, new concrete median barrier #4 crossing existing C.B. #139, request structural details for modification work required at this location.

Response: New structural details for this catch basin are included in this addendum as Plan Sheets Nos. ADD. 286S-1 and ADD. 286S-2.

j. Question: With reference to Roadway Plan sheet #79, ~BL Sta 168+08, new concrete median barrier #8, crossing existing D.I. #160, request structural details for modification work required at this location.

Response: There will be no modification to the DI at this station. Please see Plan Sheet No. 249 for details on how the barrier shall span the DI.

k. Question: With reference to SP section 645 which provides lane closure requirements on Pali Highway, are there specific lane closure requirements for work on Waokanaka Street?

Response: There are no specific lane closure requirements for work on Waokanaka Street that vary from Pali Highway. Per General Note 6 on Plan Sheet No. 3, access must be maintained to roads and driveways at all times.

l. Question: With reference to bid item #203.2000, unable to determine borrow site location. Is this item meant to be roadway embankment?

Response: Yes, bid item is for additional roadway embankment.

m. Question: Respectfully request a two week bid postponement to adequately review all bid documents. The scope and magnitude of this job along with the anticipated addenda information warrants such a postponement. Additionally, having the bid due on a holiday shortened week will make receipt and analysis of vendor and subcontractor more difficult.

Response: The bid date will not be postponed.

n. Question: Please refer to page 119 of the plans. There is a callout for an OM3-R to be installed on post. What item will this installation be counted under?

Response: Item added to Proposal Schedule as bid item 632.4060 Type OM3 Object Marker.

o. Question: Please refer to pages 128-138 of the plans. There are several Z Signs called out to be installed on post. What item will this installation be counted under?

Response: Items to be counted under "Regulatory and Warning

Sign".

p. Question: Please refer to line items 632.4020 Reflector Marker (RM-2, White) on flexible post, and 603.4030 Reflector Marker (RM-3, yellow) on flexible post. We were unable to find call outs for these two items. Please confirm where these items are to be installed.

Response: See Plan Sheet No. 25 for Reflector Marker Placement.

q. Question: Please refer to line item 630.1500 Street Name sign mast arm total. We were unable to find call outs for this item. Please confirm where these items are to be installed.

Response: Street name signs on mast arms (DES-14 and DES-15) are installed at intersection of Pali Highway and Kamehameha Highway and are shown in the addendum Plan Sheet No. ADD 138.

r. Question: Please refer to line item 630.7000 Relocate existing sign and post. We were unable to find any call outs for these. Please confirm where these are to be located.

Response: There are existing signs to be relocated throughout the Dowsett Avenue median work (as shown from Plan Sheets Nos. 155-162) and also the "Adopt-A-Highway" signs shown on Plan Sheet No. 121.

s. Question: Please refer to line items 630.3000 4.00 lbs/ft flanged channel post for destination sign, and 630.3100 2.5 inch galvanized square tube post for destination sign. The destination signs do not call out whether they will be installed on the flanged channel post, or 2.5 inch square tube post. Please confirm which type of post these signs are to be on.

Response: Destination sign post type shall meet requirements based on height and size of signs as shown in Standard Plans TE-02C and TE-03B.

t. Question: Please refer to sheets 115-138. There are signs called out for removal without reinstallation through the signage and striping plans. Which items are these removals to be counted under?

Response: Removal of signs and posts are considered incidental per Spec Section 631 Traffic Control, Regulatory, Warning, and

Miscellaneous Signs.

u. Question: Please refer to line item 630.4000 Breakaway Steel Post (W8x18) and foundation for ground mounted destination sign. Detail TE-20 was given for the post, but not for the breakaway post. Please provide details for the breakaway post and foundation.

Response: Follow Standard Plan TE-21B.

v. Question: Please refer to line item 630.0001 Panel for destination sign. The approx. quantity for this item is 266 SF. The SF quantity that was found in this project was larger than this value. The quantity that we found for the destination signs to be installed on either new W8x18 or steel post was approx. 286 SF. Will this quantity be changed?

Response: 286 SF is correct but an additional sign is added in Addendum 1. Updated Proposal Schedule shall be used. See Plan Sheet No. ADD. 141 for new sign detail.

w. Question: With reference to structural detail sheet SL-6, and General Structural Note sheet S0.2, request type of finish for D250XL Bar Lock XL-Series Coupler (galvanized, epoxy coated, black).

Response: See revised Plan Sheet No. ADD.302 included in the addendum.

x. Question: With reference to plan sheet #75, and structural sheet SL8, request proposal bid item for repair light pole pedestal work or provide instructions as to where cost should go.

Response: New pay item numbers 503.1000 and 503.2000 added in addendum. See revised Proposal Schedule in addendum.

y. Question: With reference to Structural Summary Table, S0.4, "Reinforced Concrete Retrofit", structural detail sheets SL9 & SL10, and plan sheets #52, & 76, request proposal bid item for light pole pedestal retrofit work or provide instructions as to where cost should go.

Response: New pay item 503.3000 added in addendum. See revised Plan Sheets No. ADD. 52 and ADD. 76 and revised Proposal Schedule in addendum.

z. Question: With reference to "Asphalt Pavement Restoration Over Trench Excavation Within State R-O-W" detail, request clarification if this detail is for trenches running perpendicular and transverse to lane direction. If this is the case, what would the paving restoration width be for trenches running parallel to the lane direction? And in the case where the trench is running parallel but near the border of two lanes would the Contractor be required to provide trench restoration to both lanes? Please provide directions as to what is required for pavement restoration for trenches running parallel to the lane direction so that we can more accurately price this work.

Response: Detail revised as part of addendum. See Plan Sheet No. ADD. 312.

aa. Question: Please advise what cold planing depths should be used from station 96+50 to 138+15. No cross sections are given for these areas. The typical section for the tunnel areas shown on Sheet 13 specifies to cold plane to 11.5" below Top of Curb. However, the distance between Top of Curb and Top of Pavement is shown as "varies." The typical section for the Bridge areas shown on Sheets 14 and 15 specifies "cold plane to bridge deck." However, the depth to bridge deck is not given.

Response: In general, an average of 6.5" of cold plane should be used throughout the tunnel sections. An average of 4" of cold plane should be used throughout the bridge sections. But field condition may vary. Please bid accordingly.

bb. Question: Please advise what cold planing depths should be used from station 146+06 to 154+77. The typical section for this area shown on Sheet 14 specifies "4" Cold Plane Both Directions." However the cross sections for these areas shown on sheet 214 show various depths of cold planing.

Response: Callout revised to say "Cold Plane to 4" Below Finish Grade Both Directions" on Plan Sheet No.14.

cc. Question: Please advise where detail 3/Sheet 17 (pavement section for soft condition) is to be used.

Response: Soft subgrade conditions can be expected at some locations on Windward side of tunnels when excavating full pavement sections. Geotechnical Engineering Exploration Rehabilitation Report for this project is provided in the addendum.

Please bid accordingly.

dd. Question: On Plan Sheet EA-6, the "Asphalt Pavement Restoration Over Trench Excavation Within State R-O-W" detail has callout stating "For Asphalt Pavement Restoration Requirements Over Trench Excavation, See Civil Sheet". However, the detail for restoration for trench excavation could not be found in the Civil Sheets. Please provide this referenced detail.

Response: Detail revised as part of addendum. See Plan Sheet No. ADD. 312.

ee. Question: Plan sheet EC-2 shows existing lighting conduit to be removed from the Pali Highway overpass and replaced with new conduit. This work will occur over the H-1 Freeway. Please provide the allowable hours for lane closures on H-1 and the number of lanes that may be closed at a time.

Response: Lane closures on H-1 Freeway are only allowed Sunday night to Friday morning. Lane closure hours are as follows:

2 through lanes open: 9pm – 4am
1 through lane open: 11pm – 3am

Full closure of H-1 Freeway will not be allowed.

ff. Question: Geotechnical Note 1 on plan sheet 221 states that "A geotechnical engineering report...has been prepared by Geolabs, Inc. A copy of this report is on file at the office of the Engineer for review by the Contractor." Please make available a copy of this report to the bidders.

Response: Geotechnical Engineering Exploration Rehabilitation Report is included in addendum.

gg. Question: The boring logs provided in the contract drawings are from Waokanaka Street to Kamehameha Highway only. There are no boring logs from Vineyard Boulevard to Waokanaka Street. Please provide boring logs for this area.

Response: There are no borings taken below Waokanaka Street. Please bid accordingly.

hh. Question: General Note 26 says, "The Contractor shall be required to provide adequate, safe, non-skid bridging material over any trench, including shoring, when trenching in pavement areas to handle all types of vehicular traffic. The use of steel plates shall not be used in the highway travelway." Please clarify that this means steel plates may be used if made adequate, safe, and non-skid by application of non-skid coating. If not, please provide direction regarding an acceptable alternative to steel plates.

Response: Steel plates are allowed if non-skid coating is used and speeds are not higher than 35 mph.

ii. Question: To achieve the schedule for the work between Nuuanu and Dowsett that was specified in the Pre-Bid Meeting, NTP will need to be issued quickly after project bid opening and award. In order for the large volume of electrical work to be completed up front within the durations specified after NTP, adequate time needs to be allotted to ensure long lead materials can be submitted, approved and procured. Please provide the estimated anticipated date for issuance of NTP so that contractors are able to accurately analyze and account for this in their respective bids.

Response: The estimated construction NTP is October 2, 2017, subject to funding availability.

jj. Question: Per Detail 4 on Plan Sheet 17 (CB-1), "Placement of Temporary HMA Pavement shall be incidental to 401.0400 HMA Pavement, Mix No. IV. Quantity is reflected in the proposal schedule." This is a contradiction. If the quantity is reflected in the proposal schedule, the Contractor should expect to be paid for the Temporary HMA Pavement. If the Temporary HMA Pavement is incidental, the Contractor will not be paid. Please clarify this note's intent.

Response: Quantity of "Placement of Temporary HMA Pavement shall be incidental to 401.0400 HMA Pavement, Mix No. IV. Please bid accordingly. Note revised from Detail 4 on Plan Sheet No.17.

kk. Question: Per Detail 8 on Plan Sheet 17 (CB-1) – Median Barrier Pavement Restoration – Lower Pali. There is no dimension showing width of restoration along median. Please clarify the width of restoration on these areas.

Response: Full pavement section shall extend 6" beyond the edge

of concrete curb or concrete curb and gutter.

ll. Question: Per Plan Sheet 73 (CG22), the pavement section in the tunnels show "2.5" HMA Mix IV over section coldplaned to 11.5" below TC. What is the current curb reveal in the tunnels? Also, does this activity fall under Bid Item 415.0100 – Cold Planing?

Response: Existing curb reveal is about 6". In general, an average of 6.5" of cold planing should be used through the tunnels. However, field condition may vary. Please bid accordingly. This work would fall under pay item 415.0100.

mm. Question: Per Plan Sheet 14 – Bridge Sections at Various Locations IB STA 115+21 to STA 138+15 – Contractor is instructed to cold plane to bridge deck. Does the State know the thickness of cold planing? How is the Contractor to quantify these areas? Bid Item 415.0100 is a Lump Sum bid item, and this does not allow the Contractor to quantify this scope of work with confidence.

Response: Existing pavement varies slightly. In general, an average of 4" of HMA Pavement should be used through the bridge sections. However, field condition may vary. Please bid accordingly.

nn. Question: For Detail 8 on Plan Sheet 17, in the full depth AC paving area, the HMA Mix IV is usually offset 12 inches to stagger the joint through the pavement section.

Response: Detail revised Plan Sheet No. ADD. 17 in addendum.

Please acknowledge receipt of this Addendum No. 1 by recording the date of its receipt in the space provided on page P-4 of the Proposal.

FORD N. FUCHIGAMI
Director of Transportation

TABLE OF CONTENTS

DIVISION 400 - PAVEMENTS		
Section	**Description**	**Pages**
401	Hot Mix Asphalt (HMA) Pavement	401-1a – 401-4a
411	Portland Cement Concrete Pavement	411-1a – 411-2a
413	Removal and Replacement of Existing Portland Cement Concrete Pavement	413-1a – 413-4a
415	Cold Planing of Existing Pavement	415-1a
421	High Friction Surface Treatment	421-1a – 421-4a

DIVISION 500 - STRUCTURES		
Section	**Description**	**Pages**
503	Concrete Structures	503-1a
511	Drilled Shafts	511-1a – 511-18a

DIVISION 600 - INCIDENTAL CONSTRUCTION		
Section	**Description**	**Pages**
601	Structural Concrete	601-1a – 601-2a
602	Reinforcing Steel	602-1a
603	Culverts and Storm Drains	603-1a
621	Enhanced Vehicle Classification Traffic Counting System	621-1a – 621-20a
623	Traffic Signal System	623-1a
626	Manholes and Valve Boxes for Water and Sewer Systems	626-1a – 626-4a
629	Pavement Markings	629-1a
630	Traffic Control Guide Signs	630-1a
631	Traffic Control Regulatory, Warning, and Miscellaneous Signs	631-1a
645	Work Zone Traffic Control	645-1a
656	Drilling Holes and Installing Dowel Reinforcing Bars	656-1a
658	Fiber Reinforced Polymer (FRP) Systems	658-1a – 658-8a
674	Concrete Retrofit	674-1a – 674-2a
680	Electric and Communications System	680-1a – 680-13a
684	Spot Speed System	684-1a – 684-3a
695	Concrete Median Barriers	695-1a – 695-8a
699	Mobilization	699-1a

DIVISION 700 - MATERIALS		
Section	**Description**	**Pages**
702	Bituminous Materials	702-1a
705	Joint Materials for Concrete Structures	705-1a
709	Reinforcing Steel, Wire Rope, and Prestressing Steel	709-1a – 709-2a
712	Miscellaneous	712-1a – 712-2a
717	Cullet and Cullet-Made Materials	717-1a – 717-2a
750	Traffic Control Sign and Marker Materials	750-1a – 750-2a
755	Pavement Marking Materials	755-1a
760	Roadway and Sign Lighting Systems Materials	760-1a – 760-3a
770	Traffic Signal Materials	770-1a

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

Federal Wage Rates

Proposal Title Page

Proposal .....P-1 – P-7
Proposal Schedule .....P-8 - P-16

Confirmation by DBE

Surety Bid Bond

Sample Forms

Contract

Performance Bond (Surety)

Performance Bond

Labor and Material Payment Bond (Surety)

Labor and Material Payment Bond

Disclosure of Lobbying Activities

Standard Form - LLL and LLL-A

Statement of Compliance
Form WH-348

DBE Participation Report & Prompt Payment Certification

Chapter 104, HRS Compliance Certificate

END OF TABLE OF CONTENTS

Make the following Section a part of the Standard Specifications:

"SECTION 421 - HIGH FRICTION SURFACE TREATMENT

421.01 Description. This section describes furnishing and applying a high friction surfacing system on a prepared surface as specified and in conformity with the lines and details shown on the plans.

421.02 Materials.

(A) General. Use a two part cold applied modified exothermic polymer resin binder treatment containing polymer binder capable of retaining a bauxite aggregate topping under vehicle conditions.

(B) Polymer Binder: The polymer binder shall consist of a thermosetting modified polymer compound which holds the aggregate firmly in position. The polymer binder shall meet the requirements in TABLE 421.02-1 POLYMER BINDER REQUIREMENTS.

TABLE 421.02-1 POLYMER BINDER REQUIREMENTS

Property	Requirements	Test Method
Ultimate Tensile Strength	2,800 psi min. – 5,000 psi max	ASTM D638
Tensile Elongation	30% min	ASTM D638
Compressive Strength	1,600 psi min.	ASTM D695
Gel Time	10 minutes min.	ASTM C881
Water Absorption	Less than 0.25%	ASTM D570
Shore Hardness	70 min.	ASTM D2240
Viscosity	3,000 CPs Max.	ASTM D2556
Cure Rate (Dry Through Time)	3 hours max.	ASTM D1640
Mixing Ratio	Per Manufacturer	n/a

Two part polymer materials which are not exothermic in curing and do not meet the viscosity requirements will not be allowed. Independent laboratory report documents shall be provided documenting that the polymer binder meets the requirements in this section.

(C) Aggregate Topping: The aggregate topping shall be a calcined bauxite consisting of a 1-3mm gradation. The aggregate will be delivered to the construction site in clearly labeled 55 pound bags or 2000 pound super sacks. The aggregates should be clean, dry, and free from foreign matter. The aggregate shall meet the requirements in TABLE 421.02-2 AGGREGATE REQUIREMENTS.

TABLE 421.02-2 AGGREGATE REQUIREMENTS		
Property	**Requirement**	**Test Methods**
Aggregate Abrasion Value	10% max.(100 revolutions)	LA Abrasion Test
Aggregate grading	No. 6 Sieve Size	95 % min. Passing
	No. 16 Sieve Size	5% max. Passing

(D) Certification. Submit certification from the manufacturer that the topping meets the above requirements. Submit documentation of the in-place friction characteristics (minimum 65 FN40R in accordance with ASTM E274) of aggregate bonded to a vehicular bearing surface using the modified polymer binder. Submit a list of projects with owner contact information on which a minimum of 3,000 square yards of high frictional aggregate and polymer binder has been placed within the past three years.

421.03 Construction.

(A) General: The manufacturer's representative shall come to the construction site to train HDOT, Construction Manager, and Contractor personnel prior to surface treatment and shall be available during application as necessary.

Do not apply the two part modified polymer binder on wet surfaces, when the ambient and/or surface temperature is below 40 °F or above 105 °F, or when the anticipated weather conditions would prevent the proper application of the surface treatment as determined by the manufacturer's representative.

(B) Preparation. Surfaces shall be clean, dry and free of all dust, oil, debris and any other material that might interfere with the bond between the polymer binder material and existing surface. Prepare Portland cement concrete surfaces by shot blasting prior to cleaning to remove oils, dirt, rubber, curing compounds, paint carbonation, laitance, weak surface mortar and other potentially detrimental contaminants, which may interfere with the bonding or curing of the surface treatment. Clean the surfaces using a high pressure or vacuum to remove all dust and other loose material. Do not use brooms. Adequate cleaning of all surfaces will be determined by the manufacturer's representative.

Protect utilities, drainage structures, curbs and any other structure within or adjacent to the treatment location against the application of the surface treatment materials. Cover and protect all existing pavement markings that are adjacent to the application surfaces as directed by the Engineer. Remove by grinding pavement markings that conflict with the surface application and clean the surface clean prior to the polymer binder

application. Pre-treat joints and cracks other than Portland cement concrete working joints and cracks as determined by the Engineer greater than ¼ inches in width and depth with the mixed polymer specified herein. Once the polymer in the pre-treated areas has gelled, the high friction polymer binder and aggregate topping installation may proceed. For Portland cement concrete working joints and cracks, protect joints and cracks from infiltration of the surface treatment.

For application on new underlying and adjacent asphalt pavements, install the high friction polymer binder and aggregate topping a minimum of 30 days after the placement. For new Portland cement concrete pavements, install the surface treatment after 30 days of placement have elapsed.

(C) Mixing and Application of Polymer Binder and Aggregate Wearing Surface. Utilize one of the following methods for application of the polymer binder and aggregate wearing course, as applicable.

1. Hand mixing and application. Proportion the two-part modified polymer base binder components, Part A and Part B to the correct ratio as recommended by the Manufacturer and mix using a low speed, high torque drill fitted with a helical stirrer. Use this method for low volume application areas, such as intersections, areas less than 250 linear feet in length, or where truck mounted machines are not applicable to the specified locations because of logistical restrictions. Manually apply the mixed components onto the prepared pavement surface at an application coverage rate of 20-30 sf/gal. Uniformly spread the hand applied base binder onto the substrate by means of a serrated edge squeegee. Immediately, spread the high friction surfacing aggregate onto the two part modified polymer binder, at a minimum rate of 13 lbs/sy.

2. Mechanical mixing and application. Apply the two part modified polymer base binder by a truck mounted application machine onto the pavement section to be treated in varying widths of up to 8 feet wide at a uniform application thickness. Squeegees shall not be permitted for spreading the polymer resin. The application truck shall be required to spread the polymer resin evenly at the specified mil thickness. Proceed with operations in such a manner that will not allow the polymer base binder material to separate in the mixing lines, cure, dry, or otherwise impair retention bonding of the high friction surfacing aggregate. Apply the mixed components mechanically onto the prepared pavement surface at a minimum coverage rate of 15 gal/min with a uniform thickness of 60 mils onto the pavement surface. With the same automated application truck used for applying the polymer resin

binder, immediately spread the high friction surfacing aggregate onto the installed two part modified polymer binder, at a minimum rate of 13 lbs/sy coverage. The high friction surfacing aggregate should be mechanically applied to varying widths of up to 8 feet wide in a uniform continuous application.

For either method 1 or 2, do not use vibratory or impact type compaction on the aggregate after placement. Completely cover the wet polymer binder with aggregate to achieve a uniform surface. No exposed wet spots shall be visible once the aggregate is placed.

(D) Curing. Allow the high friction aggregate topped with polymer binder to cure in accordance with the manufacturer recommendations. Protect treated surfaces from traffic and environmental effects until the area has cured.

Remove excess aggregate by ~~hand brooms~~, mechanical sweeping, or suction before opening to traffic. Excess aggregate can be reused on the following day's installation, provided the aggregate is clean, uncontaminated, and dry. Remove and dispose excess aggregate from project site.

The Engineer may require additional mechanical or vacuum sweeping as necessary after the system fully cures and the treated surface is open to traffic.

421.04 Measurement. The quantities to be paid for will be the plan quantity, in square yards, completed and accepted. No deduction will be made for the areas occupied by manholes, inlets, drainage structures, pavement markings or by any public utility appurtenances within the area.

421.05 Payment. The Engineer will pay for the accepted surface treatment at the contract price per pay unit as shown on the proposal schedule. All work will be full compensation for the work prescribed in this section and the contract documents.

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

Pay Item	**Pay Unit**
High Friction Surface Treatment	Square Yard"

END OF SECTION 421

Amend Section 626 – Manholes and Valve Boxes for Water and Sewer Systems to read as follows:

SECTION 626 – MANHOLES AND VALVE BOXES FOR WATER AND SEWER SYSYEMS

626.01 Description. This section describes constructing, reconstructing, and adjusting manholes and valve boxes for water and sewer systems.

626.02 Materials.

Structural Concrete	601 & BWS 303.03*
Asphalt Filler	702.07
Pipe Cushion	BWS 209.02
Crushed Rock	BWS 209.03
Structural Backfill Material	703.20 & BWS 209.04
Trench Backfill Material	703.21 & BWS 209.04
Masonry Units	704
Joint Filler	705.01
Asphalt	705.06(C)
Mortar for Manhole	705.08
Reinforcing Steel	709.01**
Non-Shrink Grout	712.04(A)
Precast Concrete Unit	712.06
Frames, Grates, Covers and Ladder Rungs	712.07, BWS 207.01 & BWS 207.02
Premolded Filler	BWS 209.01
Pipe Collar for Valve Box	712.22
Cullet Materials for Utility Structures	717.03

If concrete in sewer structures will come in direct contact with sewage or sewage gases, modify proportioning of concrete in accordance with Subsection 625.02 – Materials.

* – see Subsection 626.03 (D) – Reconstructing Manholes and Subsection 626.03 (E) – Adjusting Manhole Frames and Covers.
** – see Subsection 626.03 (D) – Reconstructing Manholes and Subsection 626.03

626.03 Construction.

Design precast units, or combination of precast units and cast-in-place units, to most current AASHTO Load and Resistance Factor Design Bridge Design Specifications with subsequent interims. Have all calculations and shop drawings stamped by Structural Engineer licensed in the State of Hawaii.

For cast-in-place method, construct concrete base and finish concrete while still fresh. Allow concrete to set for at least 24 hours before removing forms and constructing concrete walls.

Perform concrete construction in accordance with Section 503 – Concrete Structures.

Perform reinforcing steel work in accordance with Section 602 – Reinforcing Steel.

Use certified welder to perform shop and field welding in accordance with Section 501 – Steel Structures.

For connection of pipe to manhole, provide oversized hole through concrete wall and fill space around pipe with non-shrink grout or concrete of same psi (or greater) as manhole. No bricks and mortar permitted. Provide grout or concrete surrounding pipe that is full wall depth and up to three inches in thickness. When space around pipe is greater than three inches in thickness, concrete of same psi (or greater) as manhole may be used.

(A) Excavation and Backfill. Excavate and backfill in accordance with Section 204 – Excavation and Backfill for Miscellaneous Facilities, BWS Subsection 302.09 – Excavation for Manholes and BWS Subsection 303.02 – Sitework.

(B) Manholes.

(1) Concrete Manholes. Provide concrete manholes as precast units, or combined precast and cast-in-place units, or cast-in-place units. For precast units or combination of precast and cast-in-place units, submit shop drawings and calculations for acceptance by the Engineer prior to construction.

See BWS Subsection 302.23 A. – General, BWS Subsection 302.23 B. – Walls, BWS Subsection 302.23 C. – Top and Bottom Slabs, & BWS Subsection 302.23 D. – Reconstructing Existing Manholes for other specifications.

(C) Setting Frames. Set frame in concrete, and tamp concrete around frame.

For full mortar beds, bring mortar up around bottom of frame and set frame.

(D) Reconstructing Manholes. Reconstruct existing manholes to required elevations. Remove, clean, and paint existing frames and covers with one coat of asphaltum paint before reinstallation.

(1) See BWS Subsection 303.03 – Concrete Work for specifications except make the following changes:

(a) BWS Subsection 303.03 F. – Changes in Proportions or Materials by Manager: Remove this section.

(b) BWS Table 300-10 – Minimum Curing Periods for Concrete: In addition to table 300-10, minimum strength obtained before proceeding to the next portion shall be 2500 psi.

(2) See BWS Subsection 303.04 – Reinforcing Steel for specifications except make the following changes:

(a) BWS Subsection 303.04 C. – Placing: Replace the third paragraph with "Concrete blocks shall be of equal or greater strength as the concrete being used."

(E) Adjusting Manhole Frames and Covers. Adjust existing manhole frames and covers to required elevations. Remove, clean, and paint existing frames and covers with one coat of asphaltum paint before reinstallation.

(1) See BWS Subsection 303.03 – Concrete Work for specifications except make the following changes:

(a) BWS Subsection 303.03 F. – Changes in Proportions or Materials by Manager: Remove this section.

(b) Table 300-10 – Minimum Curing Periods for Concrete: In addition to table 300-10, minimum strength obtained before proceeding to the next portion shall be 2500 psi.

(2) See BWS Subsection 303.04 – Reinforcing Steel for specifications except make the following changes:

(a) BWS Subsection 303.04 C. – Placing: Replace the third paragraph with "Concrete blocks shall be of equal or greater strength as the concrete being used."

(F) Constructing and Adjusting Valve Boxes. Construct valve boxes to required elevations. Set and center 8-inch pipe collar plumb over valve stem. Provide pipe collar with ends having smooth, machined edges. Backfill around gate valve and pipe collar with trench backfill by hand to 8 inches below surface of ground. Upon completion, clean valve box of debris and paint frame and cover with one coat of asphaltum paint before installation.

Adjust existing valve boxes to required grade using same type of material used in its original construction. Remove, clean, and paint existing cast iron frame and cover with one coat of asphaltum paint. Cut existing pipe collar for downward adjustments, or install new pipe collar for upward adjustments. Place concrete slab and reinstall frame and cover.

626.04 Measurement. Pay items below will be paid on a lump sum basis. Measurement for payment will not apply.

626.05 Basis of Payment. The Engineer will pay for the accepted pay items listed below at the contract lump sum basis, 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
Reconstructing _____Manhole	Lump Sum
Adjusting (_____) Standard Valve Box	Lump Sum

The Engineer will pay for excavation and backfill in accordance with and under Section 204 – Excavation and Backfill for Miscellaneous Facilities.

END OF SECTION

SECTION 645 – WORK ZONE TRAFFIC CONTROL

Make the following amendments to said Section:

(I) Amend Section 645.03(F) Lane Closures, from lines 248 to 249 to read:

"**(F) Lane Closures**. At least one lane in each direction must be open to traffic at all times during day time hours. Lane closures will be permitted only from 9:00 a.m. to 3:00 p.m., Monday through Friday, and from 8:30 p.m. to 5:00 a.m. Sunday night to Friday morning. All lanes in one direction may be closed during the night time hours/days of the week listed above, but only between Waokanaka Street and Kamehameha Highway. For working hours for the PCC and pipe replacement work, see Sheet CL1."

(II) Add Section 645.03(I) HDOT Portable Concrete Barriers, after line 393 to read:

"**(I) HDOT Portable Concrete Barriers**. Seventy-five (75) portable concrete barriers will be placed on reserve for this project and will be available for pickup on weekends only at the HDOT Kaneohe Baseyard, 45-889 Pookela Street, Kaneohe, HI 96819. The pickup needs to be coordinated. Contractor to coordinate with State Project Engineer. Additional barriers beyond the 75 reserved will not be guaranteed and will be available on a 'first come, first serve' basis."

END OF SECTION 645

Make this Section a part of the Standard Specifications:

SECTION 684 – SPOT SPEED SYSTEM

684.01 Description. This work includes furnishing labor, materials, tools, machinery, and equipment necessary to relocate the existing spot speed devices onto new street light poles complete in place according to the contract.

684.02 Materials. The spot speed detection system includes:

(A) The spot speed detection assembly, including sensor, solar panels, batteries, modem, antennas, and mounting brackets. The contractor shall give the Engineer at least 10 working days' notice prior to starting relocation work.

(B) All costs for securing, packaging, wrapping, loading, where applicable, transporting and off-loading materials shall be borne by the Contractor.

(C) The Contractor shall replace any spot speed detection assembly damaged during relocation work at no cost to the State.

(D) The Contractor shall coordinate work and arranging for inspection of work with the Engineer and other agencies as required.

(E) The Contractor shall secure the operator/manufacturer's services to assist with alignment of the relocated spot speed sensor.

684.03 Construction Requirements.

(A) Relocation.

Confirm all locations with the Engineer prior to relocation.

Work requires the relocation of specialized equipment and systems. The Contractor is required to coordinate all work closely with the Engineer and operator/manufacturer. The Contractor shall secure the operator/manufacturer's services to assist with aligning, configuration and testing of the relocated the spot speed assemblies.

Devices shall be friction or tension mounted. Care will be taken so that the surface of the poles are not pierced or damaged during the relocation.

The spot speed detection system collects valuable data used to the monitor highway conditions. The Contractor shall insure that the devices are relocated and reinstalled in a timely matter. A single

device may be relocated one at a time and shall be fully operational before another device is removed. Contractor will coordinate field relocation activity and communicate progress to HDOT on a bi-weekly basis.

Existing detection sites are as follows:

DEVICE ID	APPR	RECD	ROUTE	INST LOC	DESCRIPTION	APPROX LAT (DEG MIN)	APPROX LONG (DEG MIN)	LANE / SHLDR CLOSURE REQD
P-1	EB	WB	Pali	MEDIAN	FOR BOTH EB AND WB DIRECTION Street light pole in the median toward the beginning of the divided highway portion of Pali and near P-B12	N21°20.884'	W157°49.660	Left Lane Closure
P-2	EB	WB	Pali	MEDIAN	FOR BOTH EB AND WB DIRECTION Street light pole in the median	N21°21.173'	W157°49.150	Left Lane Closure
P-3	EB	WB	Pali	MEDIAN	FOR BOTH EB AND WB DIRECTION Street light pole in the median	N21°21.510'	W157°48.365'	Left Lane Closure
P-4	EB	N/A	Pali	EB	FOR EB DIRECTION ONLY Street light pole near tunnel going in inbound direction	N21°21.930'	W157°47.683'	Left Lane Closure
P-5	N/A	WB	Pali	WB	FOR WB DIRECTION ONLY Street light pole near tunnel going in outbound direction	N21°21.934'	W157°47.686'	Left Lane Closure
P-6	N/A	EB	Pali	EB	FOR EB DIRECTION ONLY Street light pole near tunnel going in outbound direction	N21°22.103'	W157°47.392'	Left Lane Closure
P-7	WB	N/A	Pali	WB	FOR WB DIRECTION ONLY Street light pole near tunnel going in inbound direction	N21°22.112'	W157°47.396'	Right Lane Closure
P-8	WB	EB	Pali	MEDIAN	FOR BOTH EB AND WB DIRECTION Street light pole in the median	N21°21.893'	W157°46.912'	Left Lane Closure
P-9	WB	EB	Pali	MEDIAN	FOR BOTH EB AND WB DIRECTION Street light pole in the median	N21°22.402'	W157°46.908'	Left Lane Closure

DEVICE ID	APPR	RECD	ROUTE	INST LOC	DESCRIPTION	APPROX LAT (DEG MIN)	APPROX LONG (DEG MIN)	LANE / SHLDR CLOSURE REQD
PP-4	NB/SB		Pali	SB	FOR BOTH NB AND SB DIRECTION Street light pole on Pali near the intersection of Kuakini St.	N21°19.078'	W157°51.106'	Right Lane Closure

DEVICE ID	APPR	RECD	ROUTE	INST LOC	DESCRIPTION	APPROX LAT (DEG MIN)	APPROX LONG (DEG MIN)	LANE / SHLDR CLOSURE REQD
PP-5	NB/SB		Pali	MEDIAN	FOR BOTH NB AND SB DIRECTION Street light pole in median on Pali near the Pauoa Rd. ramp	N21°19.306'	W157°50.860'	Left Lane Closure
PP-6	NB/SB		Pali	SB	FOR BOTH NB AND SB DIRECTION Street light pole on Pali near the Wyllie St. on-ramp	N21°19.551'	W157°50.729'	Right Lane Closure
PP-7	NB/SB		Pali	NB	FOR BOTH NB AND SB DIRECTION Street light pole near Pali and Wyllie St.	N21°19.721'	W157°50.721'	Right Lane Closure
PP-12	NB/SB		Pali	NB	FOR BOTH NB AND SB DIRECTION Street light pole along divided highway portion of Pali near Spot Speed P-1	N21°20.884'	W157°49.657'	Left Lane Closure
PP-13	NB/SB		Pali	SB	FOR BOTH NB AND SB DIRECTION Street light pole at intersection of Pali and Kamehameha Hwy	N21°22.495'	W157°46.863'	Right Lane Closure

684.04 Method of Measurement. The Engineer will measure the relocation of the spot speed detection assembly, which includes the relocation of the spot speed sensor, solar panel, and pole mount adapter, per each, complete-in-place.

684.05 Basis of Payment. The Engineer will pay for the accepted relocation of the spot speed detection assembly devices. The price includes full compensation for relocating the traffic detection devices, solar panel and pole mount adapter; temporary traffic control, furnishing, assembling, wiring, and housing; testing; coordinating work with manufacturer; and furnishing equipment's, tools, labor, materials and other incidentals necessary to complete the work.

The Engineer will consider full compensation for additional materials and labor not specifically shown or called for that are necessary to complete the work incidental to the various contract items in the proposal.

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

Pay Item	**Pay Unit**
Relocation Spot Speed Detection Assembly	Each"

END OF SECTION 684

General Decision Number: HI170001 03/17/2017 HI1

Superseded General Decision Number: HI20160001

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 $10.20 for calendar year 2017 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 $10.20 (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 2017. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/06/2017
1	01/20/2017
2	02/24/2017
3	03/03/2017
4	03/10/2017
5	03/17/2017

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 08/29/2016

	Rates	Fringes
BRICKLAYER		
Bricklayers and Stonemasons	$ 44.26	21.92
Pointers, Caulkers and Weatherproofers	$ 44.51	21.92

BRHI0001-002 08/29/2016

	Rates	Fringes
Tile, Marble & Terrazzo Worker		
Terrazzo Base Grinders	$ 43.54	21.92
Terrazzo Floor Grinders and Tenders	$ 41.99	21.92

Tile, Marble and Terrazzo Workers	$ 45.35	21.92

CARP0745-001 08/29/2016

	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	$ 45.65	21.21
Millwrights and Machine Erectors	$ 45.90	21.21
Power Saw Operators (2 h.p. and over)	$ 45.80	21.21

CARP0745-002 08/29/2016

	Rates	Fringes
Drywall and Acoustical Workers and Lathers	$ 45.90	21.21

ELEC1186-001 02/19/2017

	Rates	Fringes
Electricians:		
Cable Splicers	$ 51.54	28.07
Electricians	$ 46.85	26.81
Telecommunication worker	$ 26.30	11.58

ELEC1186-002 02/19/2017

	Rates	Fringes
Line Construction:		
Cable Splicers	$ 51.54	28.07
Groundmen/Truck Drivers	$ 35.14	23.61
Heavy Equipment Operators	$ 42.17	25.53
Linemen	$ 46.85	26.81
Telecommunication worker	$ 26.30	11.58

ELEV0126-001 01/01/2017

	Rates	Fringes
ELEVATOR MECHANIC	$ 55.61	31.59

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 08/29/2016

	Rates	Fringes
Diver (Aqua Lung) (Scuba))		
Diver (Aqua Lung) (Scuba) (over a depth of 30 feet)	$ 63.75	28.56
Diver (Aqua Lung) (Scuba) (up to a depth of 30 feet)	$ 54.38	28.56
Stand-by Diver (Aqua Lung) (Scuba)	$ 45.00	28.56
Diver (Other than Aqua Lung)		
Diver (Other than Aqua Lung)	$ 63.75	28.56
Diver Tender (Other than Aqua Lung)	$ 41.97	28.56
Stand-by Diver (Other than Aqua Lung)	$ 45.00	28.56
Helicopter Work		

Airborne Hoist Operator for Helicopter	$ 43.55	28.56
Co-Pilot of Helicopter	$ 43.69	28.56
Pilot of Helicopter	$ 43.86	28.56
Power equipment operator - tunnel work		
GROUP 1	$ 39.99	28.56
GROUP 2	$ 40.10	28.56
GROUP 3	$ 40.27	28.56
GROUP 4	$ 40.54	28.56
GROUP 5	$ 40.85	28.56
GROUP 6	$ 41.50	28.56
GROUP 7	$ 41.82	28.56
GROUP 8	$ 41.93	28.56
GROUP 9	$ 42.04	28.56
GROUP 9A	$ 42.27	28.56
GROUP 10	$ 42.33	28.56
GROUP 10A	$ 42.48	28.56
GROUP 11	$ 42.63	28.56
GROUP 12	$ 42.99	28.56
GROUP 12A	$ 43.35	28.56
Power equipment operators:		
GROUP 1	$ 39.69	28.56
GROUP 2	$ 39.80	28.56
GROUP 3	$ 39.97	28.56
GROUP 4	$ 40.24	28.56
GROUP 5	$ 40.55	28.56
GROUP 6	$ 41.20	28.56
GROUP 7	$ 41.52	28.56
GROUP 8	$ 41.63	28.56
GROUP 9	$ 41.74	28.56
GROUP 9A	$ 41.97	28.56
GROUP 10	$ 42.03	28.56
GROUP 10A	$ 42.18	28.56
GROUP 11	$ 42.33	28.56
GROUP 12	$ 42.69	28.56
GROUP 12A	$ 43.05	28.56
GROUP 13	$ 39.97	28.56
GROUP 13A	$ 40.24	28.56
GROUP 13B	$ 40.55	28.56
GROUP 13C	$ 41.20	28.56
GROUP 13D	$ 41.52	28.56
GROUP 13E	$ 41.63	28.56

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 08/29/2016

	Rates	Fringes
Dredging: (Boat Operators)		
Boat Deckhand	$ 39.97	28.56
Boat Operator	$ 42.18	28.56
Master Boat Operator	$ 42.33	28.56
Dredging: (Clamshell or Dipper Dredging)		
GROUP 1	$ 42.69	28.56
GROUP 2	$ 42.03	28.56
GROUP 3	$ 41.63	28.56
GROUP 4	$ 39.97	28.56
Dredging: (Derricks)		
GROUP 1	$ 42.69	28.56
GROUP 2	$ 42.03	28.56
GROUP 3	$ 41.63	28.56
GROUP 4	$ 39.97	28.56
Dredging: (Hydraulic Suction Dredges)		
GROUP 1	$ 42.33	28.56
GROUP 2	$ 42.18	28.56
GROUP 3	$ 42.03	28.56
GROUP 4	$ 41.97	28.56
GROUP 5	$ 37.88	26.76
Group 5	$ 41.63	28.56
GROUP 6	$ 37.77	26.76
Group 6	$ 41.52	28.56
GROUP 7	$ 36.22	26.76
Group 7	$ 39.97	28.56

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 08/29/2016

	Rates	Fringes
Power Equipment Operators (PAVING)		
(10) Cold Planer	$ 42.03	28.56
(10)Loader (2 1/2 cu. yds. and under)	$ 42.03	28.56
(10)Soil Stabilizer	$ 42.03	28.56
(11)Loader (over 2 1/2 cu.		

yds. to and including 5 cu. yds.)	$ 42.33	28.56
(3)Roller Operator (five tons and under)	$ 39.97	28.56
(5)Screed Person	$ 40.55	28.56
(6)Combination Loader/Backhoe (up to 3/4 cu.yd.)	$ 41.20	28.56
(6)Concrete Saws and/or Grinder (self-propelled unit on streets, highways, airports and canals)	$ 41.20	28.56
(6)Roller Operator (over five tons)	$ 41.20	28.56
(7)Combination Loader/Backhoe (over 3/4 cu.yd.)	$ 41.52	28.56
(8) Asphalt Plant Operator	$ 41.63	28.56
Asphalt Concrete Material Transfer	$ 39.97	28.56
Asphalt Raker	$ 39.69	28.56
Asphalt Spreader Operator	$ 40.24	28.56
Grader	$ 40.55	28.56
Laborer, Hand Roller	$ 39.69	28.56

IRON0625-001 09/01/2014

	Rates	Fringes
Ironworkers:	$ 35.75	29.01

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.

LABO0368-001 08/29/2016

	Rates	Fringes
Laborers:		
Driller	$ 36.35	18.41
Final Clean Up	$ 26.75	14.29
Gunite/Shotcrete Operator and High Scaler	$ 35.85	18.41
Laborer I	$ 35.35	18.41
Laborer II	$ 32.75	18.41
Mason Tender/Hod Carrier	$ 35.85	18.41
Powderman	$ 36.35	18.41
Window Washer (bosun chair)	$ 34.85	18.41

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 08/29/2016

	Rates	Fringes
Landscape & Irrigation Laborers		
GROUP 1	$ 24.25	11.27
GROUP 2	$ 24.95	11.27
GROUP 3	$ 20.25	11.27

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.

LABO0368-003 08/29/2016

	Rates	Fringes
Underground Laborer		
GROUP 1	$ 35.95	18.41
GROUP 2	$ 37.45	18.41

GROUP 3	$ 37.95	18.41
GROUP 4	$ 38.95	18.41
GROUP 5	$ 39.30	18.41
GROUP 6	$ 39.55	18.41
GROUP 7	$ 40.00	18.41

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)

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* PAIN1791-001 01/01/2017

	Rates	Fringes
Painters:		
Brush	$ 36.35	27.27
Sandblaster; Spray	$ 36.35	27.27

PAIN1889-001 07/01/2016

	Rates	Fringes
Glaziers	$ 35.78	29.34

PAIN1926-001 03/01/2015

	Rates	Fringes
Soft Floor Layers	$ 31.15	25.75

PAIN1944-001 01/01/2017

	Rates	Fringes
Taper	$ 42.00	22.75

PLAS0630-001 08/31/2015

	Rates	Fringes
PLASTERER	$ 37.90	25.33

PLAS0630-002 08/31/2015

	Rates	Fringes
Cement Masons:		
Cement Masons	$ 37.90	25.33
Trowel Machine Operators	$ 38.05	25.33

PLUM0675-001 01/01/2017

	Rates	Fringes
Plumber, Pipefitter, Steamfitter & Sprinkler Fitter	$ 41.35	25.25

ROOF0221-001 09/04/2016

	Rates	Fringes
Roofers (Including Built Up, Composition and Single Ply)	$ 39.85	17.93

SHEE0293-001 08/01/2015

	Rates	Fringes
Sheet metal worker	$ 42.96	20.58

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	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
201.1000	Clearing and Grubbing	L.S.	L.S.	L.S.	$_____
202.1000	Removal of Guardrail and End Treatments	L.S.	L.S.	L.S.	$_____
202.2000	Removal of Concrete Gutter, Type F and FG	L.S.	L.S.	L.S.	$_____
202.2100	Removal of Concrete Curb and Curb and Gutter	L.S.	L.S.	L.S.	$_____
202.3000	Removal of Drainage Structures and Portions of Drainage Structures	L.S.	L.S.	L.S.	$_____
202.4000	Removal of Water Manhole	L.S.	L.S.	L.S.	$_____
203.1000	Roadway Excavation	2,500	CU YD	$_____	$_____
203.2000	Borrow Excavated Material	500	CU YD	$_____	$_____
204.1000	Trench Excavation for Terminal Impact Attenuator	L.S.	L.S.	L.S.	$_____
204.2000	Trench Excavation for Concrete Median Barrier	L.S.	L.S.	L.S.	$_____
206.1500	Excavation for Replacement of 24" HDPE Pipe	L.S.	L.S.	L.S.	$_____
206.2000	Structure Backfill Material "A" Underneath Drainage Structure	L.S.	L.S.	L.S.	$_____
209.0050	Installation, Maintenance, Monitoring and Removal of BMP	L.S.	L.S.	L.S.	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
209.0100	Additional Water Pollution, Dust and Erosion Control	F.A.	F.A.	F.A.	$ 50,000.00
301.1000	Hot Mix Asphalt Base Course	27,000	TON	$_____	$_____
304.1000	Aggregate Base Course	2,000	CU YD	$_____	$_____
401.0400	HMA Pavement, Mix No. IV	60,200	TON	$_____	$_____
401.0504	Milled Shoulder Rumble Strip	18,600	LF	$_____	$_____
401.0505	Milled Edge Line Rumble Stripe	36,000	LF	$_____	$_____
401.0506	Thermoplastic Rumble Bar	360	LF	$_____	$_____
401.0600	HMA Pavement, Mix No. IV at Guardrail	400	TON	$_____	$_____
413.0100	Removal and Replacement of Existing Portland Cement Concrete Pavement	L.S.	L.S.	L.S.	$_____
413.0200	Transverse Contraction Joint	450	LF	$_____	$_____
414.0100	Excavation of Weakened Pavement Areas	10,000	CU YD	$_____	$_____
415.0100	Cold Planing	L.S.	L.S.	L.S.	$_____
415.0500	Additional Cold Planing and HMA Pavement, Mix No. IV	F.A.	F.A.	F.A.	$ 200,000.00
421.0100	High Friction Surface Treatment	7,000	SQ YD	$_____	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
503.1000	Concrete Light Pole Pedestal Anchor Bolt Repair	L.S.	L.S.	L.S.	$_____
503.2000	Concrete Light Pole Pedestal Repair Where Light Pole Not Being Replaced	L.S.	L.S.	L.S.	$_____
503.3000	Concrete Light Pole Pedestal Repair	L.S.	L.S.	L.S.	$_____
508.1000	Cement Rubble Masonry	L.S.	L.S.	L.S.	$_____
511.1000	Furnishing Drilled Shaft Drilling Equipment	L.S.	L.S.	L.S.	$_____
511.2000	Obstructions	50	HOUR	$_____	$_____
511.3000	Unclassified Shaft Excavation	2,400	LF	$_____	$_____
511.4000	Drilled Shaft	2,900	LF	$_____	$_____
603.1000	24-Inch Reinforced Concrete Pipe (Class IV)	L.S.	L.S.	L.S.	$_____
603.2000	Bed Course Material for Culvert	L.S.	L.S.	L.S.	$_____
603.9000	Clean Existing Culverts and Concrete Channels	F.A.	F.A.	F.A.	$ 50,000.00
604.1000	Reconstructed Type B or Type C Catch Basin	7	EACH	$_____	$_____
604.1200	Reconstructed Type D Catch Basin	10	EACH	$_____	$_____
604.1300	Reconstructed Catch Basin Over Box Culvert	1	EACH	$_____	$_____

PROPOSAL SCHEDULE					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
604.2000	Type B or Type C Catch Basin	2	EACH	$_____	$_____
604.2100	Type D Catch Basin	1	EACH	$_____	$_____
606.3112	Guardrail Type 3 – W-Beam w/ Strong Post	L.S.	L.S.	L.S.	$_____
606.3114	Guardrail Type 3 – Thrie Beam	L.S.	L.S.	L.S.	$_____
606.7010	Terminal Section Type FLEAT-350 Guardrail	L.S.	L.S.	L.S.	$_____
606.7020	Terminal Section Type "G" Guardrail	L.S.	L.S.	L.S.	$_____
606.7030	Terminal Section Modified Type A-1 Flare Guardrail	L.S.	L.S.	L.S.	$_____
621.1000	EVC Traffic Counting System at MP 0.1 (Station 17+40.8)	L.S.	L.S.	L.S.	$_____
621.2000	EVC Traffic Counting Station at MP 0.9 (Station 60+30.3)	L.S.	L.S.	L.S.	$_____
621.3000	EVC Traffic Counting Station at MP 5.69 (Station 96+08.2)	L.S.	L.S.	L.S.	$_____
622.1000	Roadway Lighting System	L.S.	L.S.	L.S.	$_____
623.1000	Traffic Signal System	L.S.	L.S.	L.S.	$_____
626.1000	Reconstructing BWS Type “A” Water Manhole	L.S.	L.S.	L.S.	$_____
626.2000	Reconstructing BWS Type “C” Water Manhole	L.S.	L.S.	L.S.	$_____

PROPOSAL SCHEDULE					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
626.5000	Adjusting Water Standard Valve Box	L.S.	L.S.	L.S.	$_____
629.1000	Double 4-inch Yellow Pavement Striping (Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$_____
629.1010	4-inch Pavement Striping (Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$_____
629.1030	8-inch Pavement Striping (Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$_____
629.1040	12-inch Pavement Striping (Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$_____
629.2010	Type A Pavement Marker	L.S.	L.S.	L.S.	$_____
629.2030	Type C Pavement Marker	L.S.	L.S.	L.S.	$_____
629.2040	Type D Pavement Marker	L.S.	L.S.	L.S.	$_____
629.2050	Type H Pavement Marker	L.S.	L.S.	L.S.	$_____
629.2060	Type J Pavement Marker	L.S.	L.S.	L.S.	$_____
629.3000	Crosswalk Marking (Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$_____
629.4000	Pavement Arrow (Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$_____
629.5000	Pavement Symbol (Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$_____
630.0001	Panel for Destination Sign	316	SF	$_____	$_____

PROPOSAL SCHEDULE					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
630.0002	Galvanized Steel Post (W8x18) for Ground-Mounted Destination and Expressway Sign	120	LF	$_____	$_____
630.1000	Street Name Sign	L.S.	L.S.	L.S.	$_____
630.1500	Street Name Sign on Traffic Signal Mast Arm	L.S.	L.S.	L.S.	$_____
630.2000	Type B Route Marker Assembly	L.S.	L.S.	L.S.	$_____
630.3000	4.00 lbs/ft Flanged Channel Post for Destination Sign	L.S.	L.S.	L.S.	$_____
630.3100	2.50 Inch Galvanized Square Tube Post for Destination Sign	L.S.	L.S.	L.S.	$_____
630.4000	Breakaway Steel Post (W8x18) and Foundation for Ground-Mounted Destination Sign	L.S.	L.S.	L.S.	$_____
630.5000	Replacement of Existing Sign Panel with New Destination Sign Panel	L.S.	L.S.	L.S.	$_____
630.7000	Relocate Existing Sign and Post	L.S.	L.S.	L.S.	$_____
631.5000	Regulatory and Warning Sign (10 Square Feet or Less)	L.S.	L.S.	L.S.	$_____
631.6000	Regulatory and Warning Sign (More than 10 Square Feet)	L.S.	L.S.	L.S.	$_____
632.4020	Reflector Marker (RM-2, white) on Flexible Post	L.S.	L.S.	L.S.	$_____
632.4030	Reflector Marker (RM-3, yellow) on Flexible Post	L.S.	L.S.	L.S.	$_____
632.4050	Reflector Marker (RM-5, yellow) Mounted on Guardrail	L.S.	L.S.	L.S.	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
632.4060	Type OM3 Object Marker	L.S.	L.S.	L.S.	$_____
632.5000	Milepost Marker	L.S.	L.S.	L.S.	$_____
638.1000	Curb, Type 2D	L.S.	L.S.	L.S.	$_____
638.2000	Curb and Gutter, Type 2DG	L.S.	L.S.	L.S.	$_____
645.7000	Traffic Control	L.S.	L.S.	L.S.	$_____
645.7110	Additional Police Officers, Additional Traffic Control Devices, and Advertisement	F.A.	F.A.	F.A.	$ 200,000.00
648.1000	Field-Posted Drawings	L.S.	L.S.	L.S.	$_____
658.1000	Fiber Reinforced Polymer (FRP) Systems	L.S.	L.S.	L.S.	$_____
680.1010	Electric Pullboxes	L.S.	L.S.	L.S.	$_____
680.1020	Electrical Conduit System	L.S.	L.S.	L.S.	$_____
680.2010	Communication Pullboxes	L.S.	L.S.	L.S.	$_____
680.2020	Communication Conduit System	L.S.	L.S.	L.S.	$_____
680.3000	Trenching	L.S.	L.S.	L.S.	$_____
680.4000	HECO Costs	L.S.	L.S.	L.S.	$_____

PROPOSAL SCHEDULE					
ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
684.1000	Relocation of Spot Speed Detection Assembly	15	EACH	$_____	$_____
692.1000	Voluntary Partnering	F.A.	F.A.	F.A.	$ 50,000.00
693.1000	Terminal Impact Attenuator - Wide	L.S.	L.S.	L.S.	$_____
693.2000	Terminal Impact Attenuator - Narrow	L.S.	L.S.	L.S.	$_____
695.1000	Concrete Median Barrier Type 60S and Type 60SC	L.S.	L.S.	L.S.	$_____
695.2000	Concrete Median Barrier Type 60G and Type 60GC	L.S.	L.S.	L.S.	$_____
695.3000	Concrete Median Barrier Transition Type 60G to Type 60S	L.S.	L.S.	L.S.	$_____
695.4000	Concrete Median Barrier Transition Type 60G to Existing Type 4 Barrier	L.S.	L.S.	L.S.	$_____
695.4010	Concrete Median Barrier Transition to Thrie Beam – Single Sided	L.S.	L.S.	L.S.	$_____
695.4020	Concrete Median Barrier Transition to W-Beam – Double Sided	L.S.	L.S.	L.S.	$_____
695.5000	Concrete Glare Screen on Top of Existing Type 4 Barrier	L.S.	L.S.	L.S.	$_____
695.6000	Concrete Median Barrier over Catch Basin	L.S.	L.S.	L.S.	$_____
695.7000	Concrete Median Barrier Type 60SF	L.S.	L.S.	L.S.	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
695.8000	Concrete Median Barrier Type 60GE	L.S.	L.S.	L.S.	$_____
695.9000	Concrete Median Barrier over Existing Bridge	L.S.	L.S.	L.S.	$_____
696.1000	Field Office Trailer (Not to Exceed $50,000)	L.S.	L.S.	L.S.	$_____
696.2000	Project Site Laboratory Trailer (Not to Exceed $50,000)	L.S.	L.S.	L.S.	$_____
696.3000	Maintenance of Trailers	F.A.	F.A.	F.A.	$ 48,000.00
699.1000	Mobilization (Not to Exceed 6% of Sum of All Items Excluding the Bid Price of this Item)	L.S.	L.S.	L.S.	$_____

a. Sum of All Items ..... $ _____

b. Either Furnish Foreign Steel Not to Exceed Minimal Amount (Fill in '0') or
Furnish Foreign Steel in Excess of Minimal Amount (Fill in 25% x a) ..... $ _____

c. Amount for Comparison of Bids (a + b) ..... $ _____

All bidders must fill in b and complete c

NOTE: Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid.

PERMIT NO. HI S000475

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. §1251 et seq.; the "Act"); Hawaii Revised Statutes, Chapter 342D; and Hawaii Administrative Rules (HAR), Chapters 11-54 and 11-55, Department of Health (DOH), State of Hawaii;

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION (DOT-HWYS)

(hereinafter PERMITTEE),

is authorized to discharge storm water associated with construction activities from the Pali Highway Resurfacing, Waokanaka Street to Kamehameha Highway and Pali Highway Lighting Replacement, Vineyard Boulevard to Kamehameha Highway project site located at Pali Highway, Vineyard Boulevard to Kamehameha Highway, Honolulu to Kaneohe, Island of Oahu, Hawaii, TMKs: (1) 1-8-006 to 011; (1) 1-9-001 to 003, 005, 007 to 010; (1) 2-1-005; (1) 2-2-001, 002, 009, 010, 011, 021, 022, 031 to 034, 044, 045, 050, 054; (1) 4-5-035, 042; (1) 4-2-010:003; (1) 4-2-011 to the receiving State waters identified in the table below:

Discharge Point No.	Receiving State Water	Classification	Latitude (N)	Longitude (W)
1	Nuuanu Stream	Class 2, Inland	21.3163°	157.8597°
2	Nuuanu Stream	Class 2, Inland	21.320077918779738°	157.85443673841655°
3	Nuuanu Stream	Class 2, Inland	21.3254°	157.8455°
4	Niniko Stream	Class 2, Inland	21.3380°	157.8374°
5	Unnamed Dry Gulch	Class 2, Inland	21.3425°	157.8329°
6	Niniko Stream	Class 2, Inland	21.3451°	157.8306°
7	Niniko Stream	Class 2, Inland	21.3491°	157.8257°
8	Moole Stream	Class 1, Inland	21.3510°	157.8229°
9	Makuku Stream	Class 1, Inland	21.3534°	157.8176°
10	Unnamed Dry Gulch	Class 1, Inland	21.3535°	157.8144°
11	Nuuanu Reservoir	Class 1, Inland	21.3548°	157.8063°
12	Kamooalii Stream	Class 1, Inland	21.368434656571008°	157.79189508408308°
13	Kamooalii Stream	Class 2, Inland	21.3692°	157.7884°
14	Kahana Iki Stream	Class 2, Inland	21.368124925931685°	157.78147738426924°

in accordance with the general requirements, discharge monitoring requirements and other conditions set forth herein, and in the attached DOH "Standard NPDES Permit Conditions," that is available on the DOH, Clean Water Branch (CWB) website at http://health.hawaii.gov/cwb/site-map/home/standard-npdes-permit-conditions/.

All references to Title 40 of the Code of Federal Regulations (CFR) are to regulations that are in effect on July 1, 2014, except as otherwise specified. Unless otherwise specified herein, all terms are defined as provided in the applicable regulations in Title 40 of the CFR.

Failure to comply with any condition, requirement, and/or limitation in this permit is an enforceable violation and your NPDES permit may be terminated. Examples of enforceable violations include, but are not limited to: Unauthorized discharges where a pollutant was not disclosed in the NPDES application, but was detected by monitoring only requirements in the NPDES permit or by other means determined by the DOH; failure to sample, analyze, or submit water quality results as required in the NPDES permit; and discharging pollutants in locations that were not authorized in the NPDES permit. If you violate Hawaii Revised Statutes (HRS), Chapter 342D, you may be subject to penalties of up to $25,000 per violation per day and up to two (2) years in jail. Falsification of information, including providing information in the NPDES application that does not match what is actually occurring at the project site/facility, may result in criminal penalties for the Permittee and their authorized representative as provided in Clean Water Act, Section 309 and HRS, Section 342D-35.

This permit will become effective on **March 22, 2016**.

This permit and the authorization to discharge will expire at midnight, **March 21, 2021.**

Signed this 22nd day of March, 2016.

(For) Director of Health

TABLE OF CONTENTS

A. GENERAL REQUIREMENTS

The Permittee shall:

1. Comply with all materials submitted in and with the application, dated December 9, 2015.

2. Retain a copy of the application, including other related materials, and this permit at the job site or at a nearby field office.

3. Design, operate, implement, and maintain the project Site-Specific Best Management Practices (BMPs) Plan to ensure that storm water discharges associated with construction activities will not cause or contribute to a violation of applicable State water quality standards.

4. Implement the project Site-Specific BMPs Plan as often as needed to improve the quality of storm water discharges or when instructed by the Director of Health (Director).

5. Not cause or contribute to a violation of the basic water quality criteria as specified in HAR, Chapter 11-54, Section 11-54-4.

6. Inspect, at a minimum of once per week, the receiving state waters, storm water runoff and control measures and BMPs to detect violations of and conditions which may cause or contribute to a violation of the basic water quality criteria as specified in HAR, Chapter 11-54, Section 11-54-4 (e.g., the Permittee shall look at storm water discharges and receiving state waters for turbidity, color, floating oil and grease, floating debris and scum, materials that will settle, substances that will produce taste in the water or detectable off-flavor in fish, and inspect for items that may be toxic or harmful to human or other life).

7. Immediately stop, reduce, or modify construction, or implement new or revised BMPs as needed to stop or prevent a violation of the basic water quality criteria as specified in HAR, Chapter 11-54, Section 11-54-4.

8. Review the effectiveness and adequacy of the implemented SWPPP(s) at a minimum of once per week, and update the plan as often as necessary. Any change(s) to the SWPPP(s) or correction(s) to information already on file with the CWB shall be maintained onsite and be available upon request.

9. Know that Mr. Pratt Kinimaka of the DOT-HWYS is recognized as the duly authorized representative to submit all information/documents for compliance with the NPDES conditions. A new authorized representative may be appointed in accordance with Part B.8.

B. REPORTING REQUIREMENTS

The Permittee shall:

1. Submit the following information in accordance with Part B.8. of this permit to the CWB for review and comment **at least 30 calendar days before the start of construction activities.**

   All questions/concerns that the DOH may have must be answered to the satisfaction of the CWB.

   a. The Operator or General Contractor Information.

   b. The Drainage System Owner's (City and County of Honolulu) Approval to Discharge.

   c. An updated Storm Water Pollution Prevention Plan (SWPPP) that includes any revised or amended information including, but not limited to, contractor information, site inspector information, map(s) or drawing(s) of equipment/material baseyard, storage, and/or staging areas and BMPs for these areas, etc.

2. Ensure that any commingled storm water that contacts pollution sources/contaminated soils is prevented from discharging to State waters.

3. Notify the Director of the construction start date in accordance with Part B.8. within seven (7) calendar days before the start of construction activities.

4. Complete and submit the Solid Waste Disclosure Form for Construction Sites to the DOH, Solid and Hazardous Waste Branch, Solid Waste Section as specified on the form at least 30 calendar days before the start of construction activities. The form can be downloaded at: http://health.hawaii.gov/shwb/files/2013/06/swdiscformnov2008.pdf

5. Submit any changes to information on the CWB Individual NPDES Form in accordance with Part B.8. as soon as changes arise. The Permittee shall properly address all related concerns and/or comments to the CWB's satisfaction.

6. Immediately notify the Director of all incidences of noncompliance and identify the pollutant(s) source(s) and the proposed and implemented control or

mitigative measures as required in Section 16 of the "Standard NPDES Permit Conditions".

7. Complete and submit the Notice of Cessation in accordance with Part B.8. within 14 calendar days of completion of the subject project.

8. All reports, notifications, and updates to information on file shall be submitted through the CWB Compliance Submittal Form for Individual NPDES Permits and Notice of General Permit Coverages (NGPCs). This form is accessible through the e-Permitting Portal website at: https://eha-cloud.doh.hawaii.gov/epermit/. If not already registered, you will be asked to do a one-time registration to obtain your login and password. After you register, click on the Application Finder tool to locate the form. Follow the instructions to complete and submit this form. All submissions shall include a CD or DVD containing the downloaded e-Permitting submission and a completed Transmittal Requirements and Certification Statement for e-Permitting NPDES/NGPC Compliance Submissions Form, with original signature and date.

9. Include the following certification statement, NPDES permit number, and original signature on each submittal in accordance with HAR, Chapter 11-55, Section 11-55-07(b). Failure to provide this information on future correspondence or submittals may be a basis for delay of the processing of the document(s).

   "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations."

10. The Permittee shall develop and submit a facility-specific waste load allocation (WLA) implementation and monitoring plan to the Director when a Total Maximum Daily Load (TMDL), which specifies WLAs applicable to the Permittee's discharge, is approved by the EPA within one (1) year of notification of the approval date.

C. BEST MANAGEMENT PRACTICES (BMPs)

1. The Permittee shall:

   a. Refrain from performing any work during heavy rainstorms.

   b. Prevent loose particles, sand, soil, silt, and other construction debris at the project site from being washed away by storm water runoff to drainage systems and to State waters.

   c. Remove the excavated material as soon as possible or at the end of each work day. The excavated material shall be disposed in a State and/or County-approved landfill site.

   d. Not discharge water used for dust control to State waters.

   e. Not discharge water used for irrigation to State waters.

   f. Not discharge hydrotesting effluent to State waters without an appropriate NPDES permit.

   g. Not discharge dewatering effluent to State waters without an appropriate NPDES permit.

   h. Not stockpile unprotected materials on-site without implementing the appropriate BMPs for the stockpile(s).

   i. Wash-down vehicles and/or equipment and concrete truck drums only at designated areas and not discharge the wash waters to State waters. The concrete wash water shall not be allowed to infiltrate into the ground.

   j. Assure that the implemented BMPs are effective and the discharge effluent is in compliance with the basic State water quality standards.

2. The following special conditions apply to all land disturbance work conducted under this permit:

   a. Construction Management Techniques

      (1) Clearing and grubbing shall be held to the minimum necessary for grading and equipment operation.

(2) Construction shall be sequenced to minimize the exposure time of the cleared surface area.

(3) Construction shall be staged or phased for large projects. Areas of one (1) phase shall be stabilized before another phase is initiated. Stabilization shall be accomplished by temporarily or permanently protecting the disturbed soil surface from rainfall impacts and runoff.

(4) Erosion and Sediment Control Measures shall be in place and functional before earth moving operations begin. These measures shall be properly constructed and maintained throughout the construction period.

(5) All control measures shall be checked and repaired as necessary, for example, weekly in dry periods and within 24 hours after any rainfall of 0.25 inches or greater within a 24-hour period. During prolonged rainfall, daily checking is necessary. The Permittee shall maintain records of checks and repairs.

(6) The Permittee shall maintain records of the duration and estimated volume of storm water discharge(s).

(7) A specific individual shall be designated to be responsible for erosion and sediment controls on each project site.

b. Vegetation Controls

(1) Pre-construction vegetative ground cover shall not be destroyed, removed, or disturbed more than 20 calendar days prior to land disturbance.

(2) Temporary soil stabilization with appropriate vegetation shall be applied on areas that will remain unfinished for more than 14 calendar days.

(3) Permanent soil stabilization with perennial vegetation or pavement shall be applied as soon as practical after final grading. Irrigation and maintenance of the perennial vegetation shall be provided for 14 calendar days or until the vegetation takes root, whichever is shorter.

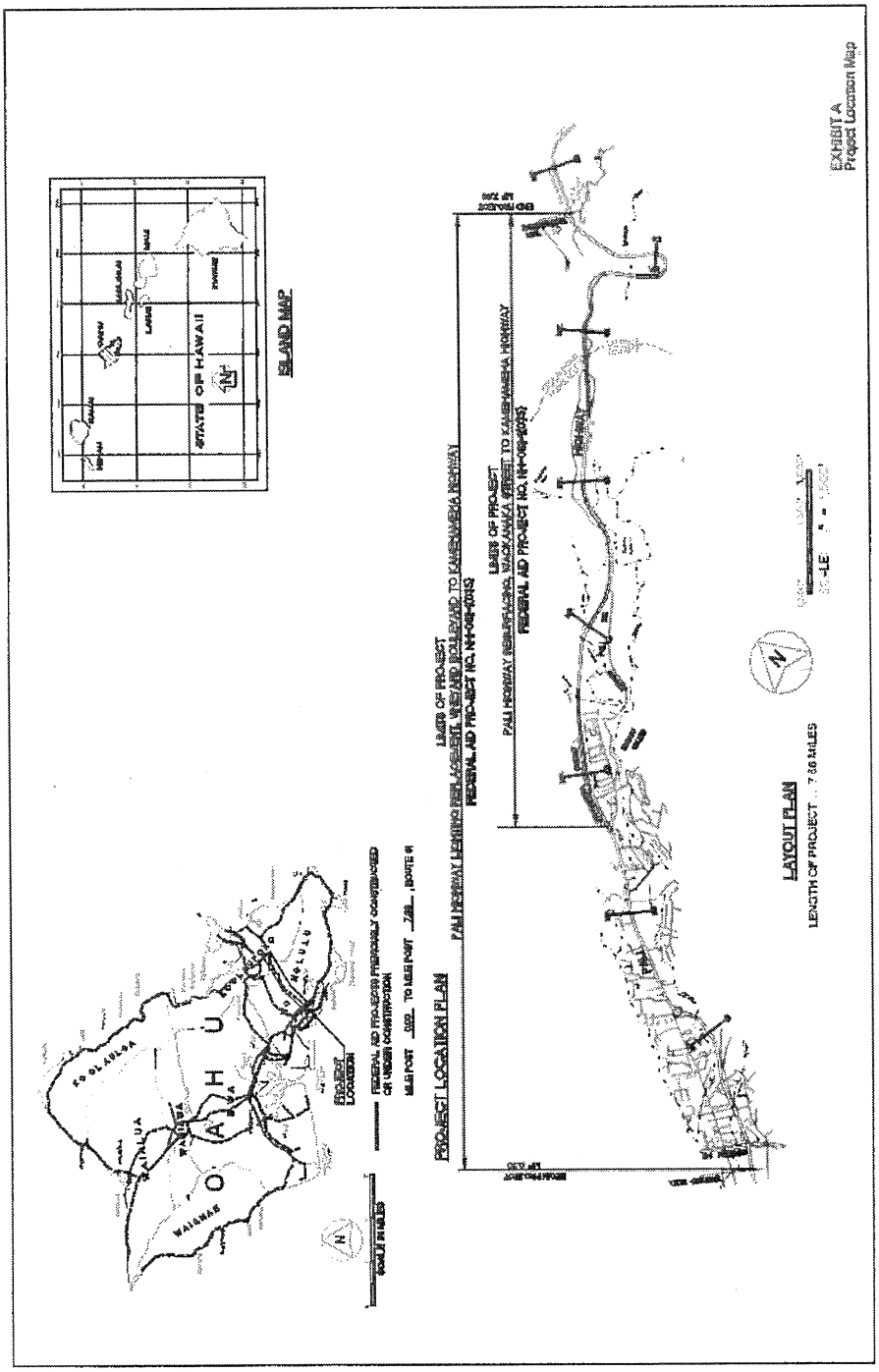
c. Structural Controls

(1) Storm water flowing toward the construction area shall be diverted by using appropriate control measures, as practical.

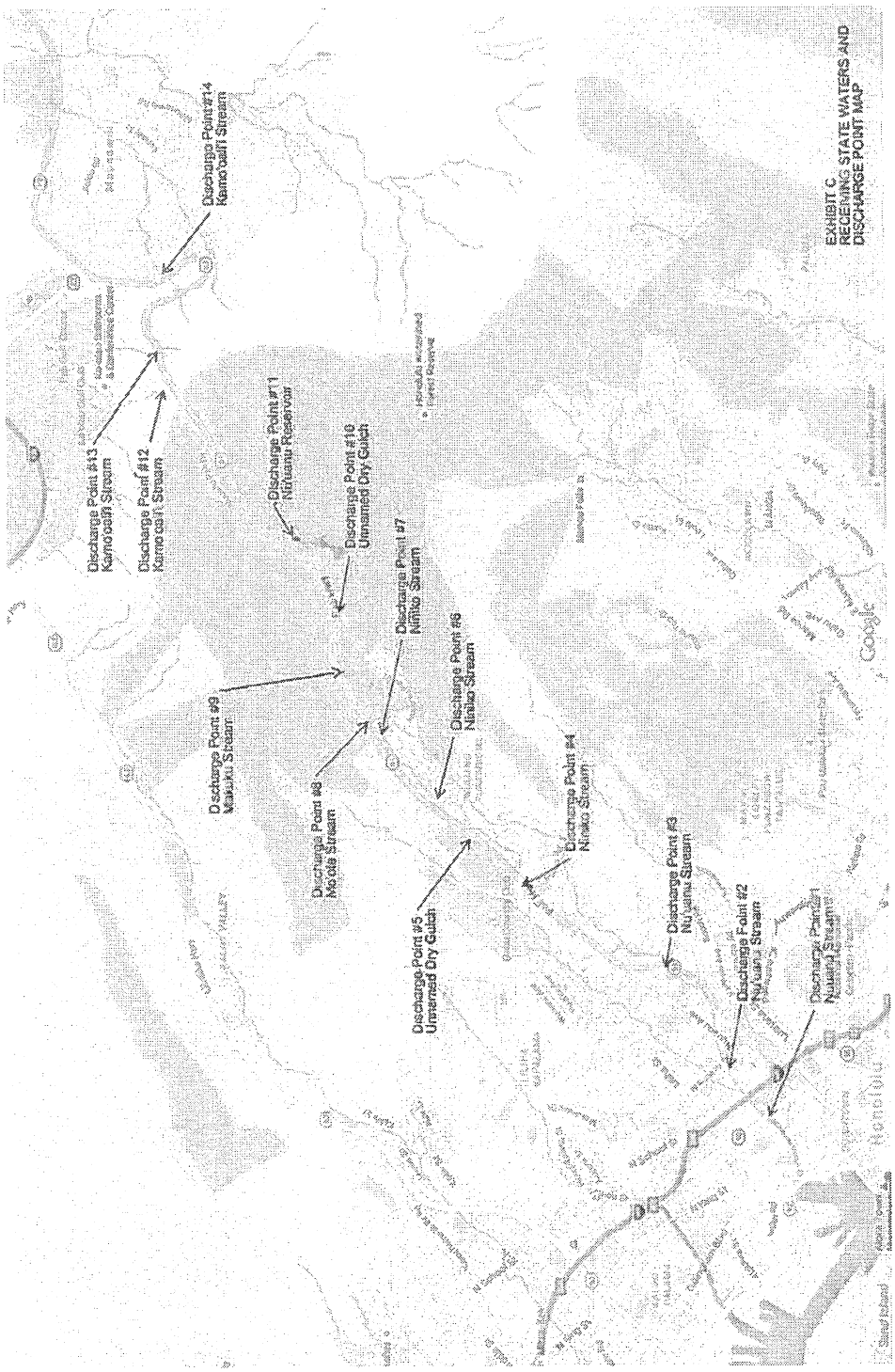
(2) Erosion Control Measures shall be designed according to the size of disturbed or drainage areas to detain runoff and trap sediment.

(3) Water must be discharged in a manner that the discharge shall not cause or contribute to a violation of the basic water quality criteria as specified in HAR, Chapter 11-54, Section 11-54-4.

D. MAPS



Map 1 –Location Map



Map 2 –Outfall Map

DIR 0739

DAVID Y. IGE
GOVERNOR OF HAWAII

VIRGINIA PRESSLER, M.D.
DIRECTOR OF HEALTH

DIRECTOR'S OFFICE
DEPT. OF TRANSPORTATION
2015 JUN 17 A 5:24

In reply, please refer to:
File:

STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. BOX 3378
HONOLULU, HI 96801-3378

June 4, 2015

TO: Community Noise Permit Applicant

FROM : James E. Toma
Noise Section Supervisor
Indoor and Radiological Health Branch

SUBJECT: **Community Noise Permit #O 15-093 Approval**

Please be advised that your Community Noise Permit is hereby granted.

If additional time is necessary for the project, the applicant shall submit a request for extension, along with an updated work schedule, prior to the **expiration date**. Extensions to Community Noise Permits are subject to annual fees.

Extensions or modifications of a permit shall be submitted in writing to the following address:

Department of Health
Indoor and Radiological Health Branch
591 Ala Moana Boulevard
Honolulu, Hawaii 96813-4921

Should you have any questions, please call me at 586-4700.

Thank you for your cooperation.

State of Hawaii
Department of Health

Application for Community Noise Permit

Permit is required by Title 11, Administration Rules, Department of Health, Chapter 46, Community Noise Control.

Part I. Applicant Information

Name of Company			Authorized Individual
State of Hawaii, Department of Transportation			Ford N. Fuchigami
Mailing Address			**Title**
869 Punchbowl Street			Director
City	**State**	**Zipcode**	**Phone**
Honolulu	HI	96813	808-587-2150

Part II. Community Noise Permit Fee Schedule (Annual)

☐	Activities involving demolition, construction, extension, additions, or renovation of a single family dwelling	$25
☒	All other construction activities	$50
☐	Operation of stationary noise sources	$50
☐	Equipment related to agricultural activities	$50
☐	Equipment related to industrial activities	$50

Part III. Description of Activity

The resurfacing of Pali Highway from Waokanaka Street to Kamehameha Highway and Pali Highway lighting replacement from Vineyard Boulevard to Kamehameha Highway, replacement of guardrails and crash cushions, construction of concrete median barriers, installing of new guardrails, curb ramp, signs and pavement markings.

Part IV. Location of Activity

Pali Highway from Vineyard Boulevard to Kamehameha Highway. See Attachment 1- Location Map

Part V. Equipment to be Utilized

Backhoe, Excavator, Hoe Ram, Loader, Compressor, Truck, Water Truck, Walk Behind Saw, Concrete Truck, Premelter, Thermoplastic Machine, Paver, Cold Planer, Shuttlebuggy, Steel Drum Roller w/vibration, Saw, K/P Broom, Liquid Distributor Truck, Power Generator, Jackhammer, Grader, Crane, Liquid Tack Coat Distribution Truck, Drilling Machine, and Post Driving Machine.

Part VI. Estimated Duration of Construction Activity

* Attach activity schedule for construction activities or attenuation of stationary sources.

From		To	
	February 1, 2016		January 31, 2018

Certification of Individual Authorized to Act for Applicant

I certify that I have knowledge of the facts herein set forth and that the same are true and correct to the best of my knowledge and belief. Acceptance of this permit constitutes an acknowledgement and agreement that the permittee will comply with all rules, regulations and orders of the department and the conditions precedent to the granting of this permit.

DAVID Y. IGE
GOVERNOR

FORD N. FUCHIGAMI
DIRECTOR

Deputy Director
JADE T. BUTAY
ROSS M. HIGASHI
EDWIN H. SNIFFEN
DARRELL T. YOUNG

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
869 PUNCHBOWL STREET
HONOLULU, HAWAII 96813-5097

IN REPLY REFER TO:

HWY-DS 2.8302

March 23, 2015

TO: THE HONORABLE VIRGINIA G. PRESSLER, M.D., M.B.A, FACS
DIRECTOR OF HEALTH

ATTN: JAMES TOMA
NOISE SECTION SUPERVISOR
INDOOR AND RADIOLOGICAL HEALTH BRANCH

FROM: FORD N. FUCHIGAMI
DIRECTOR OF TRANSPORTATION

SUBJECT: COMMUNITY NOISE PERMIT AND APPLICATION FOR
PALI HIGHWAY RESURFACING
WAOKANAKA STREET TO KAMEHAMEHA HIGHWAY
AND PALI HIGHWAY LIGHTING REPLACEMENT, VINEYARD BOULEVARD
TO KAMEHAMEHA HIGHWAY
FEDERAL-AID PROJECT NO. NH-061-1(035)

In response to your telephone comments provided to Chris Dasch of Wesley Segawa's office on March 10, 2015, regarding the Community Noise Permit application for Pali Highway Resurfacing, Vineyard Boulevard to Kamehameha Highway, the State of Hawaii Department of Transportation (HDOT) provides the following response.

Comment 1: How many hoe rams will the Contractor use?
HDOT Response: If the Contractor decides to utilize a hoe ram during construction, then one hoe ram will be used.

Comment 2: What is the schedule for the hoe ram use?
HDOT Response: It is anticipated that this project will go out to bid in August 2015, and a Contractor would be chosen shortly after that. It is anticipated the Contractor would use the hoe ram between June 2016 and August 2016. However, once the Contractor has been chosen, we will notify the Department of Health of any changes to the hoe ram schedule or the overall job schedule.

Comment 3: What is the overall schedule of the project?
HDOT Response: Construction of this project is estimated to begin in February 2016 and to end in January 2018. Please see the attached estimated construction schedule.

We appreciate your consideration of this application. If you have any questions regarding this application or the project in general please contact Ms. Mung Fa Chung at (808) 692-7545 or mungfa.chung@hawaii.gov. If submitting a written reply, please reference HWY-DS 2.8302 as shown above.

PERMIT NO. O 15-093

STATE OF HAWAII
DEPARTMENT OF HEALTH
INDOOR AND RADIOLOGICAL HEALTH BRANCH

COMMUNITY NOISE PERMIT FOR CONSTRUCTION ACTIVITIES

PURSUANT TO THE PROVISIONS OF CHAPTER 342F, HAWAII REVISED STATUTES, AND CHAPTER 11-46, HAWAII ADMINISTRATIVE RULES, THIS PERMIT IS HEREBY GRANTED TO:

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION (COMPANY OR INDIVIDUAL)

FORD N. FUCHIGAMI - DIRECTOR (NAME OF AUTHORIZED INDIVIDUAL)

AT **PALI HIGHWAY FROM VINEYARD BOULEVARD TO KAMEHAMEHA HIGHWAY** (LOCATION OF ACTIVITY),

DURING THE HOURS OF 7:00 A.M. TO 6:00 P.M., MONDAY THROUGH FRIDAY AND 9:00 A.M. TO 6:00 P.M., SATURDAY (EXCEPT SUNDAYS AND HOLIDAYS)

FEBRUARY 1, 2016 (DATE ISSUED)

JANUARY 30, 2018 (EXPIRATION DATE)

THIS PERMIT IS GRANTED UPON THE EXPRESSED PROVISION THAT THE HOLDER WILL COMPLY WITH ALL RULES, REGULATIONS AND ORDERS OF THE DEPARTMENT AND THE CONDITIONS PRECEDENT TO THE GRANTING OF THIS PERMIT.

DIRECTOR OF HEALTH James E. Toma
BY **James E. Toma**

NOISE SECTION SUPERVISOR (TITLE)

SPECIAL RESTRICTIONS AND CONDITIONS: **The use of the hoeram, walk behind saw, & jackhammer shall be limited to 9:00a.m. to 5:30 p.m., Monday through Friday. The contractor shall notify the affected properties prior to hoeram activities.**

*SEE GENERAL RESTRICTIONS AND CONDITIONS ON BACK.

THIS PERMIT IS GRANTED IN ACCORDANCE WITH THE FOLLOWING RESTRICTIONS AND CONDITIONS:

1. NO PERMIT SHALL ALLOW ANY CONSTRUCTION ACTIVITIES WHICH EMIT NOISE IN EXCESS OF THE MAXIMUM PERMISSIBLE SOUND LEVELS FOR THE HOURS BEFORE 7:00 A.M. AND AFTER 6:00 P.M. OF THE SAME DAY, MONDAY THROUGH FRIDAY.

2. NO PERMIT SHALL ALLOW ANY CONSTRUCTION ACTIVITIES WHICH EMIT NOISE IN EXCESS OF THE MAXIMUM PERMISSIBLE SOUND LEVELS FOR THE HOURS BEFORE 9:00 A.M. AND AFTER 6:00 P.M. ON SATURDAY.

3. NO PERMIT SHALL ALLOW ANY CONSTRUCTION ACTIVITIES WHICH EMIT NOISE IN EXCESS OF THE MAXIMUM PERMISSIBLE SOUND LEVELS ON SUNDAYS AND ON HOLIDAYS.

4. NO PERSON SHALL OPERATE NOR SHALL ITS OWNER PERMIT THE OPERATION OF AN ON-SITE VEHICLE, CONSTRUCTION EQUIPMENT, OR DEVICE, WITH A MOTOR OR EXHAUST SYSTEM OR BOTH, WITHOUT A MUFFLER. THIS SUBPARAGRAPH SHALL NOT APPLY TO PILE HAMMERS AND PNEUMATIC HAND TOOLS WEIGHING LESS THAN FIFTEEN POUNDS.

5. NO PERSON SHALL OPERATE NOR SHALL ITS OWNER PERMIT THE OPERATION OF AN ON-SITE VEHICLE, CONSTRUCTION EQUIPMENT, TOOL OR DEVICE ON ANY PREMISES OR A CONSTRUCTION SITE, WITH A MOTOR OR EXHAUST SYSTEM OR BOTH, WHICH HAS BEEN ALTERED, MODIFIED, OR REPAIRED; PROVIDED THIS SUBPARAGRAPH SHALL NOT APPLY IF THE OPERATOR OR OWNER CAN SHOW THAT THE ALTERED, MODIFIED OR REPAIRED COMPONENT IS EQUALLY OR MORE EFFECTIVE THAN THE ORIGINAL COMPONENT IN REDUCING NOISE.

6. SHOULD COMPLAINTS OCCUR AS A RESULT OF THE CONSTRUCTION ACTIVITY, THE HOLDER OF THIS PERMIT SHALL IMPLEMENT ABATEMENT PROCEDURES TO REDUCE NOISE EMISSIONS FROM THE ACTIVITY.

7. SHOULD NOISE EMISSIONS INTERFERE WITH ACTIVITIES WITHIN SCHOOL CLASSROOMS, LIBRARIES OR MULTIPURPOSE FACILITIES; OR DISTURBS PATIENTS IN HOSPITALS OR REST HOMES, THE HOLDER OF THIS PERMIT SHALL COORDINATE WITH FACILITY ADMINISTRATION TOWARD MINIMIZING POTENTIAL ADVERSE NOISE IMPACTS.

8. EACH PERMIT IS NONTRANSFERABLE EITHER FROM ONE LOCATION TO ANOTHER, FROM ONE ACTIVITY TO ANOTHER, OR FROM ONE PERSON TO ANOTHER WITHOUT THE WRITTEN APPROVAL OF THE DIRECTOR.

9. ANY MODIFICATION TO THE PERMIT SHALL BE SUBMITTED IN WRITING.

10. THIS PERMIT SHALL BE POSTED AT THE LOCATION OF THE ACTIVITY AT ALL TIMES.

11. THIS PERMIT DOES NOT RELEASE THE PERMITTEE FROM ANY LIABILITY FOR ANY LOSS DUE TO DAMAGE TO PERSONS OR PROPERTIES CAUSED BY, RESULTING FROM, OR ARISING OUT OF ANY NOISE ABATEMENT PROCEDURES.

12. THIS PERMIT IN NO MANNER IMPLIES OR SUGGESTS THAT THE DEPARTMENT OF HEALTH, OR ITS OFFICERS, AGENTS OR EMPLOYEES ASSUMES ANY LIABILITY, DIRECTLY OR INDIRECTLY, FOR ANY LOSS DUE TO DAMAGE TO PERSONS OR PROPERTIES CAUSED BY OR RESULTING FROM OR ARISING OUT OF ANY NOISE ABATEMENT PROCEDURES.

13. THE DIRECTOR IS AUTHORIZED TO ENTER AND INSPECT THE LOCATION OF ACTIVITY FOR ASCERTAINING COMPLIANCE OR NONCOMPLIANCE WITH ANY RULES, REGULATIONS OR STANDARDS PROMULGATED BY THE DEPARTMENT, TO MAKE REASONABLE NOISE TESTS IN CONNECTION THEREWITH, AND TO RECOMMEND REQUIREMENTS OF ANY NOISE ATTENUATION MEASURES.

14. THE DIRECTOR SHALL BE NOTIFIED, IN WRITING, OF THE PERMANENT TERMINATION OF THE ACTIVITY FOR WHICH THE PERMIT HAS BEEN GRANTED. IF SUCH NOTICE IS NOT RECEIVED BY THE EXPIRATION DATE SPECIFIED IN THE PERMIT, THE PERMIT SHALL AUTOMATICALLY TERMINATE AND THE PERMITTEE SHALL BE DIVESTED OF ALL RIGHTS THEREIN.

15. THIS PERMIT MAY BE SUSPENDED OR REVOKED FOR CAUSE.

DAVID Y. IGE
GOVERNOR OF HAWAII

VIRGINIA PRESSLER, M.D.
DIRECTOR OF HEALTH

COPY
In reply, please refer to:
File:

FEB 2 2016

STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. BOX 3378
HONOLULU, HI 96801-3378

February 2, 2016

Ford N. Fuchigami
Director
State Department of Transportation
869 Punchbowl Street
Honolulu, Hawaii 96813

Dear Mr. Fuchigami:

This is in reference to your request for an extension of the **Community Noise Permit No. O 15-093; AResurfacing of Pali Highway between Waokanaka Street and Kamehameha Highway.**

The Community Noise Permit expiration date has been amended to March 31, 2019.

Should the duration of the project continue beyond the expiration date, the applicant shall submit a request for extension **prior to March 31, 2019.**

If there are any questions, please contact Mr. Stanley Yu of our office (808) 586-4700 or at stanley.yu@doh.hawaii.gov.

Sincerely,

James E. Toma
Noise Section Supervisor
Indoor and Radiological Health Branch

DAVID Y. IGE
GOVERNOR OF HAWAII

VIRGINIA PRESSLER, M.D.
DIRECTOR OF HEALTH

STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. BOX 3378
HONOLULU, HI 96801-3378

In reply, please refer to:
File:

July 1, 2015

DIRECTOR'S OFFICE
DEPT. OF
TRANSPORTATION
2015 JUL -6 P 1:51

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ford N. Fuchigami
Director of Transportation
State of Hawaii
Department of Transportation
869 Punchbowl Street, Room 513
Honolulu, Hawaii 96813

Dear Mr. Fuchigami:

Enclosed is the VARIANCE (Docket No. 15-NR-VN-15) for Community Noise Control which was granted on June 30, 2015. The Decision and Order specifies the conditions and restrictions that are applicable to your project.

Non-compliance with the conditions and restrictions of the Decision and Order may bring about additional restrictions or possible suspension of the variance. Should you have any questions relative to the variance, please do not hesitate to contact me at (808) 586-4700 or at james.toma@doh.hawaii.gov.

Sincerely,

James E. Toma
Noise Section Supervisor
Indoor and Radiological Health Branch

STATE OF HAWAII
DEPARTMENT OF HEALTH

In the Matter of the Application For Variance for:	)	
STATE DEPARTMENT OF TRANSPORTATION Noise – Pali Highway Resurfacing and Lighting Replacement from Waokanaka Street to Kamehameha Highway.	)	Docket No. 15-NR-VN-15 V-859

DECISION AND ORDER

Pursuant to Chapter 342F, Hawaii Revised Statutes (H.R.S.), and Chapter 11-46, Hawaii Administrative Rules (H.A.R.), Community Noise Control; and based upon the application and review by the Indoor and Radiological Health Branch, the variance request from the provisions of Section 11-46-6(a), H.A.R., is hereby GRANTED with the following restrictions and conditions:

1. The variance shall be granted to conduct the following construction activities along Pali Highway from Waokanaka Street, Honolulu to Kamehameha Highway, Kaneohe:

    a. Conduct cold planing, resurfacing, and reconstruction of weakened pavement areas.

    b. Installation of new highway lighting, curb ramps, bridge rails, and new guard rails.

    c. Replacement of guardrails in-kind and end treatments.

    d. Construction of concrete median barriers.

    e. Installation of signs and pavement markings.

2. The variance shall be granted from February 1, 2016 to January 31, 2018.

3. The variance shall be granted for the following days/times:

Sunday	midnight to midnight
Monday to Friday	midnight to 5:00 a.m., 7:00 p.m. to midnight
Saturday	midnight to 8:00 a.m., 8:00 p.m. to midnight

4. The variance shall be granted with the following restriction:

    1. The use of the *hoe ram*, the *walk behind saw*, and *handheld jackhammers* shall be prohibited after 10:00 p.m. within 500 feet of residences.

    2. The use of *excavators*, *backhoes*, *loaders*, *vibratory rollers*, and *cold planers* shall be prohibited after midnight within 500 feet of residences.

5. The applicant shall notify the Indoor and Radiological Health Branch as to the date and time of any variance hour activity as soon as the dates are confirmed and also when the project is completed.

6. Residents shall be given sufficient notice regarding the project. The notification for the planned nighttime activity shall also contain the name and telephone number of the job-site inspector. In addition, a copy of any notifications, as well as progress reports, shall also be sent to the Indoor and Radiological Health Branch.

7. The applicant shall make every effort to minimize noise emanating from the project.

8. The use of reverse signal alarms shall be prohibited from 8:00 p.m. to 7:00 a.m. Alternative methods such as utilizing a ground guide for signaling shall be employed.

9. Traffic noise from heavy vehicles travelling to and from the project site shall be minimized near residences.

10. The applicant shall have a job-site inspector to whom immediate complaints can be forwarded for prompt response, and who shall have the general responsibility of monitoring quiet work procedures.

11. If the noise level is such that numerous complaints are received by the Department, the applicant shall cease operations upon receipt of an order and complete the project during hours on weekdays as directed.

12. Pursuant to Section 342F-5(d)(3), H.R.S., the applicant shall be required to perform noise sampling during the variance hours and report the results of such sampling to the Indoor and Radiological Health Branch.

13. Should the duration of the project continue beyond the expiration date, the applicant shall submit a request for extension along with an updated work schedule prior to January 31, 2018.

DATED: Honolulu, Hawaii, JUN 30 2015.

Lynn M Nakasone

LYNN M. NAKASONE
Environmental Health Program Administrator
Environmental Health Services Division

DAVID Y. IGE
GOVERNOR OF HAWAII

VIRGINIA PRESSLER, M.D.
DIRECTOR OF HEALTH

COPY

In reply, please refer to:
File:

FEB 5 2016

STATE OF HAWAII
DEPARTMENT OF HEALTH
P. O. BOX 3378
HONOLULU, HI 96801-3378

February 5, 2016

Ford N. Fuchigami
Director of Transportation
State Department of Transportation
869 Punchbowl Street, Room 513
Honolulu, Hawaii 96813

Dear Mr. Fuchigami:

This is in reference to your request for an extension of the **Community Noise Variance (Docket No. 15-NR-VN-15); Resurfacing and Lighting Replacement on Pali Highway.**

The Community Noise Variance expiration date has been amended to March 31, 2019.

Should the duration of the project continue beyond the expiration date, the applicant shall submit a request for extension **prior to March 31, 2019.**

If there are any questions, please contact Mr. James Toma, Noise Section Supervisor at (808) 586-4700 or james.toma@doh.hawaii.gov.

Sincerely,

Lynn M. Nakasone

Lynn M. Nakasone
Environmental Health Program Administrator
Environmental Health Services Division

PRE-BID MEETING MINUTES

Pali Highway Resurfacing
Waokanaka Street to Kamehameha Highway and
Pali Highway Lighting Replacement
Vineyard Boulevard to Kamehameha Highway
Federal-Aid Project No. NH-061-1(035)

District of Honolulu and Koolaupoko, Island of Oahu

Date/Time: May 5, 2017; 9:02 a.m.

Location: 601 Kamokila Boulevard, Room 577B, Kapolei, Hawaii

Participants: See sign-in sheet

Mel Chung briefed everyone on the following items:

1. Anything said at this meeting is for clarification only, the bid documents shall govern over anything said today and discrepancies shall be clarified by addendum.

2. Meeting agenda, minutes and attendance will be included as part of an addendum.

3. Some items to be aware of:
    a. The Contractor shall coordinate with City & County of Honolulu, Department of Design and Construction, Wastewater Division project entitled "Dowsett Highlands Relief Sewer" between Nuuanu Avenue and Dowsett Avenue.
    b. As a first order of business, the Contractor shall work on widening the roadway and installing the traffic control as shown on Sheet CR3 to CR11 and installing the lighting as shown on the Electrical Sheets for the area between Nuuanu Avenue and Dowsett Avenue. This work shall be done first so the "Dowsett Highlands Relief Sewer" project can begin. Median work in this area shall be complete with 5 months of Notice to Proceed and Lighting work within this area shall be complete within 9 months of Notice to Proceed.
    c. The Contractor shall coordinate with a digital leveling project entitled "Height Modernization Facilities, Digital Leveling, Oahu, Unit 2, Project No. HWY-O-09-14", in case any USGS monuments are disturbed and to allow the digital leveling consultant access to the work area if needed.

4. Contractor shall comply with the terms and conditions from environmental process and approved permits and responsible to renew the permits as necessary:
    a. NPDES Permits
    b. Community Noise Permit (from Vineyard Boulevard to Kamehameha Highway)

c. Noise Variance (from Waokanaka Street to Kamehameha Highway)
A Noise Variance between Vineyard Boulevard to Waokanaka Street is currently under review.
d. Woody plants greater than 15 feet tall shall not be disturbed, removed, or trimmed during the bat birthing and pup rearing season from June 1 to September 15.
e. Night time work shall be avoided during the Hawaii seabird fledgling period from September 15 through December 15. However, if night time work does occur, lights shall be shielded and directed toward the ground.
f. Contractor shall be responsible to obtain all required City & County permits. A Grading Permit is not required.

5. Open to Questions

Question 1: Are copies of the noise variance on the DOH website?
Response: Noise variance will be included as part of the Addendum.

Question 2: Are the bat birthing and seabird fledgling periods considered in DOT's estimated construction schedule?
Response: Yes. With regard to the bat birthing season, only one tree is to be removed, which will not affect the schedule. Regarding the seabird fledgling season, the Contractor can still work during this period, however any lights used shall be shielded and directed towards the ground.

Question 3: Can DOT's estimated construction schedule be made available as 400 working days seems short for the scope of work?
Response: DOT will not provide their schedule and believes the 400 days is adequate to complete the scope of work.

Question 4: Are the CAD files available for the bid?
Response: HDOT does not release their CAD files.

6. Additional Items
   a. HDOT has portable concrete barriers available for use during construction but are only available for pickup on weekends. Amount available will be included as part of Addendum 1. The portable concrete barriers can be kept for the entire project duration.
   UPDATE: 75 barriers will be placed on reserve for this project and will be available for pickup on weekends only, at the HDOT Kaneohe Baseyard, 45-889 Pookela Street, Kaneohe, 96819. The pickup needs to be coordinated. Contractor to coordinate with State Project Engineer. Additional barriers beyond the 75 reserved will not be guaranteed and will be available on a "first come, first serve" basis.
   b. The bid date will not be postponed.

7. The meeting ended when the prospective bidders had no additional questions at 9:12 a.m.

Sign In Sheet

Subject: Pre-Bid Meeting
Project: Pali Highway Resurfacing, Waokanaka Street to Kamehameha Highway and
Pali Highway Lighting Replacement, Vineyard Boulevard to Kamehameha Highway
Project No: NH-061-1(035)
Date: 5/5/2017
Time: 9:00 AM
Location: 601 Kamokila Boulevard, Room 611, Kapolei HI96707

Name	Company	Email
Micah Chow	Kiewit	Micah.Chow@Kiewit.com
Kevin Ruiz	Kiewit	Kevin.ruiz@Kiewit.com
CHRIS QUITEVIS	KIEWIT	chris.quitevis@kiewit.com
Marc Simmons	Kiewit	marc.simmons@kiewit.com
DYLAN YAMAMOTO	KIEWIT	DYLAN.YAMAMOTO@KIEWIT.com
Chris Dandy	WRSA	chris@wrsasolutions.com
Mung-fa Chung	HDOT-DS	~~Mungfa@~~ mungfa.chung@hawaii.gov.

Sign In Sheet

Subject: Pre-Bid Meeting
Project: Pali Highway Resurfacing, Waokanaka Street to Kamehameha Highway and Pali Highway Lighting Replacement, Vineyard Boulevard to Kamehameha Highway
Project No: NH-061-1(035)
Date: 5/5/2017
Time: 9:00 AM
Location: 601 Kamokila Boulevard, Room 611, Kapolei HI96707

Name	Company	Email
Aaron Hites	RHB	~~Matt~~ Aaron.Hites@STRLLC.com
Erik Rhinelander	MKB	erik@mauikupono.com
George D. Nixon	Maui Kupono Builders	George@mauikupono.com
Shane Pasion	HDCC	spasion@hdcc.com
JEREMY LEE	"	jtlee@hdcc.com
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Norman Leong	Wesley Segawa & Assoc	norman@wrsasolutions.com
KELVIN AKAZAWA	HDOT -HWY-O	Kelvin.Akazawa@hawaii.gov