STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS

ADDENDUM NO. 1

for

FORT BARRETTE ROAD RAILROAD CROSSING AND LIGHTING IMPROVEMENTS, ROOSEVELT AVENUE TO FARRINGTON HIGHWAY

ISLAND OF OAHU

DISTRICT OF EWA

FEDERAL-AID PROJECT NO. HSIP-RR-0901(017)

The Addendum shall make the following amendments to the Bid Documents:

A. NOTICE TO BIDDERS

1. Prospective bidders are hereby notified that all requests for information shall be received in writing via HIePRO no later than Wednesday, July 19, 2023 at 2:00 p.m. HST. The attached NOTICE TO BIDDERS dated r7/11/23 shall replace the NOTICE TO BIDDERS dated 6/28/23.

B. SPECIFICATIONS

1. Special Provision Section 401 - Delete duplicate page 401-1a.

2. Replace Special Provision Section 647 dated 6/25/21 with the attached Special Provision Section 647 dated r7/10/23.

3. Replace Special Provision Section 694 dated 6/27/23 with the attached Special Provision Section 694 dated r7/10/23.

C. PROPOSAL SCHEDULE

1. Replace Proposal Schedule page P-8 to P-14 dated 6/27/23 with the attached Proposal Schedule page P-8 to P-14 dated r7/10/23.

D. PLANS

1. Replace Plan Sheet No. 18 with the attached revised Plan Sheet No. ADD. 18.

2. Replace Plan Sheet No. 22 with the attached revised Plan Sheet No. ADD. 22.

The following is provided for information.

E. PRE-BID CONFERENCE MINUTES

1. Attached are the July 10, 2023 Pre-bid Conference Minutes and Attendance Sheet for your information.

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

ROBIN K. SHISHIDO
Highways Deputy Director

NOTICE TO BIDDERS
(Chapter 103D, HRS)

The receiving of SEALED BIDS for FORT BARRETTE ROAD RAILROAD CROSSING AND LIGHTING IMPROVEMENTS, ROOSEVELT AVENUE TO FARRINGTON HIGHWAY, FEDERAL-AID PROJECT NO. HSIP-RR-0901(017), will begin as advertised on July 5, 2023 in HIePRO. Bidders are to register and submit bids through HIePRO only. See the following HIePRO link for important information on registering: https://hiepro.ehawaii.gov/welcome.html.

Deadline to submit bids is Bid Opening Day, **August 4, 2023 at 2:00 p.m. Hawaii Standard Time (HST).** Bids received after said due date and time shall not be considered.

The project entails upgrading of the existing railroad crossing and installation of highway and shared-use path lighting. The scope of work consists of, but is not limited to, installing a new crossing signal including providing new gates, flasher, and protective guardrail along with the controlling circuitry required for gates and flashers; upgrading the existing crossing by installing new running rail, new ties and ballast, and new concrete crossing panels; reconstruction of roadway and shared-use path pavement to address drainage and provide smooth transition and connection to new crossing; installation of pavement markings and striping, signs, traffic signal conduits, CCTV camera, and highway and shared-use path lighting. The estimated cost of construction is between $5,000,000 and $7,000,000.

To be eligible for award, bidders must possess a valid State of Hawaii General Engineering "A" license prior to the award of contract.

A pre-bid conference is scheduled for **July 10, 2023, 9:00 a.m. HST on Microsoft Teams.** All prospective bidders or their representatives (employees) are encouraged to attend, but attendance is not mandatory. Due to the impacts of COVID 19, the pre-bid conference will be conducted virtually. Please call Microsoft Teams to join the pre-bid conference at (808) 829-4853, Phone Conference ID: 299 449 75#.

Contact Li Nah Okita, Project Manager, by phone, at (808) 692-7581, or by email at li.nah.okita@hawaii.gov to obtain the link for the pre-bid conference.

ALL requests for information (RFI) shall be received in writing via HIePRO no later than **July 19, 2023 at 2:00 p.m. HST**. Questions received after the deadline will not be addressed. Verbal requests for information will not receive a response. Anything said at the conference is for clarification purposes and any changes to the bid documents will be made by addendum and posted in HIePRO.

Any protest of this solicitation shall be submitted in writing to the Director of Transportation, in accordance with §103D-701, HRS and §3-126, HAR.

Campaign contributions by State and County Contractors. Contractors are hereby notified of the applicability of Section 11-355, HRS, which states that campaign contributions are prohibited from specified State or county government contractors during the term of the contract if the contractors are paid with funds appropriated by the legislative body. For more information, contact the Campaign Spending Commission at (808) 586-0285.

The U.S. Department of Transportation Regulation entitled "Nondiscrimination in Federally-Assisted Programs of the U.S. Department of Transportation," Title 49, Code of Federal Regulations (CFR), Part 21 is applicable to this project. Bidders are

hereby notified that the Department of Transportation will affirmatively ensure that the contract entered into pursuant to this advertisement will be awarded to the lowest responsible bidder without discrimination on the grounds of race, color, national origin or sex (as directed by 23 CFR Part 200).

The Equal Employment Opportunity Regulations of the Secretary of Labor implementing Executive Order 11246, as amended shall be complied with on this project.

The U.S. Department of Transportation Regulations entitled "Participation by Disadvantaged Business Enterprise in Department of Transportation Programs", Title 49, Code of Federal Regulations, Part 26 is applicable to this project. Bidders are hereby notified that the Department of Transportation will strictly enforce full compliance with all of the requirements of the Disadvantaged Business Enterprise (DBE) program with respect to this project.

Bidders are directed to read and be familiar with the Disadvantaged Business Enterprise (DBE) Requirements, which establishes the program requirements pursuant to Title 49 Code of Federal Regulations Part 26 and, particularly, the requirements of certification, method of award, and evidence of good faith. All Bidders must e-mail the Engineer at li.nah.okita@hawaii.gov, the Disadvantaged Business Enterprise (DBE) Contract Goal Verification and Good Faith Efforts (GFE) Documentation for Construction, Disadvantaged Business Enterprise (DBE) Confirmation and Commitment Agreement – Trucking Company and Disadvantaged Business Enterprise (DBE) Confirmation and Commitment Agreement – Subcontractor, Manufacturer, or Supplier by **August 9, 2023 at 4:30 p.m. HST**. Failure to provide these documents

shall be cause for bid/proposal rejection.

Driving While Impaired (DWI) Education. HDOT encourages all organizations contracted with the DOT to have an employee education program preventing DWI. DWI is defined as operating a motor vehicle while impaired by alcohol or other legal or illegal substances. HDOT promotes this type of program to accomplish our mission to provide a safe environment for motorists, bicyclists and pedestrians utilizing our State highways, and expects its contractors to do so as well.

For additional information, contact Li Nah Okita, Project Manager, by phone at (808) 692-7581, or by email at li.nah.okita@hawaii.gov.

The State reserves the right to reject any or all proposals and to waive any defects in said proposals for the best interest of the public.

ROBIN K. SHISHIDO
Highways Deputy Director

Delete Section 647 in its entirety and replace with the following:

"SECTION 647 – FIBER OPTIC CABLE

647.01 Description. This work includes furnishing labor, materials, tools, machinery, and equipment necessary to install fiber optic cable according to the contract.

There shall be a fiber optic cable Subcontractor, who shall have at least 3 (three) years experience in installing fiber optic systems over $250,000, specifically for outdoor overhead joint-pole and underground in traffic-highway applications. The fiber optic cable Subcontractor shall be responsible for testing all fiber optic cables to provide a documented optical budget loss analysis for each link to and from a hub station. The fiber optic cable Subcontractor shall be responsible for all hookup, assignments, dedication, testing, matching, and splicing of the fiber optic cables, unless otherwise indicated. All fiber optic splice points shall be spliced color-for-color whenever matching pairs are available. The fiber optic cable Subcontractor shall be fully responsible for all splices, budget loss, attenuators, appropriate fiber hardware, accessories, and pigtail connections for a fully operational system. All other hardware, equipment, and labor necessary shall be considered incidental.

647.02 Materials. The fiber optic cables, which will be used to transmit video and data signals, will consist of single-mode fibers. Cables will be installed in existing and new conduits. The Contractor shall furnish and install fiber optic cable suitable, and meeting standards, for underground and aerial lashing installations. The fiber optic cables shall meet the following specifications:

The cable shall meet the requirements of the United States Department of Agriculture (USDA) Rural Utilities Service (RUS) 7 CFR 1755.900 and shall be included in the most current "USDA List Of Acceptable Materials For Use On Telecommunications Systems Of RUS Borrowers".

(A) Single-mode Fiber. The single-mode fiber utilized in the cable specified herein shall be dispersion unshifted and conform to the following specifications:

Cladding diameter: 125 µm ± 1.0 µm
Core-to-cladding offset: < 0.6 µm
Cladding Non-circularity: < 1.0%
Coating diameter: 245 ± 10 µm
Colored fiber diameter: Nominal 250 µm
Attenuation uniformity: No point discontinuity greater than 0.10 dB at either 1310 nm or 1550 nm.
Attenuation at the water peak: The attenuation at 1388 ± 3 nm shall not exceed 2.1 dB/kM.

Cutoff wavelength: The cabled fiber cutoff wavelength shall be < 1260 nm.

Mode-field diameter: 9.30 ± 0.50 µm at 1310 nm
10.50 ± 1.00 µm at 1550 nm

Zero Dispersion wavelength: < 1301.5 nm

Zero Dispersion Slope: <0.092 ps/(nm²kM)

Fiber polarization mode dispersion: < 0.5ps/kM

The coating shall be a dual layered, UV cured acrylate applied by the fiber manufacturer. The coating shall be mechanically strippable.

(B) Fiber Specification Parameters.

Required fiber grade: Maximum individual fiber attenuation.

Single mode – The maximum dispersion shall be ≤ 3.2 ps/nmkM from 1285 to 1330 nm and shall be < 18 ps/nm-kM at 1550 nm.

All optical fibers shall be proof tested by the fiber manufacturer to a minimum load of 0.7 GN.m2 (100 kpsi). Fibers shall contain no factory splices.

(C) Specifications for Outdoor Cable Construction. Optical fibers shall be inside a loose buffer tube in groups of 12. Optical fibers shall be mechanically strippable. Gel filled cables shall not be used. The fiber shall be colored with ultraviolet (UV) curable links. Each fiber shall be distinguishable by means of color coding in accordance with TIA/EIA-598-A, "Optical Fiber Cable Color Coding".

Loose buffer tubes shall also be colored with distinct and recognizable colors in accordance with TIA/EIA-598-A, "Optical Fiber Cable Color Coding" and shall be marked Singlemode. Fillers may be included in the cable core to lend symmetry to the cable cross section where needed. Cable construction shall utilize dielectric strength members.

Cable jacket shall be a PVC material that is fungus, water and UV resistant. The jacket shall be marked with the manufacturer's name, sequential meter or foot marking, month and year of manufacture.

The maximum pulling tension shall be 2700 N (608 lbft) during installation (short term) and 890 N (200 lbft) long term installed.

The shipping, storage, and operating temperature range of the cable shall be –40C to +70C.

(D) Quality Assurance Provision. All cabled optical fibers > 1000 meters in length shall be 100% attenuation tested. Attenuation of each fiber shall be provided with each cable reel.

The cable manufacturer shall be ISO 9001 registered.

(E) Packaging. Top and bottom ends of the cable shall be available for testing.

Both ends of the cable shall be sealed to prevent the ingress of moisture. Each reel shall have a weather resistant reel tag attached identifying the reel and cable.

The reel tag shall include the following information:

Cable number	Gross Weight
Shipped length in meters	Job order number
Product Number	Date cable tested

Each cable shall be accompanied by a cable data sheet. Cable data shall include manufacturer number, billable length, bandwidth specs and measured attenuation of each fiber.

647.03 Construction Requirements.

(A) Material Sample and Certificate of Compliance. The Contractor shall submit material samples according to Subsection 106.04 – Material Sample, and any certificates of compliance according to Subsection 106.07 – Certificate of Compliance.

The Contractor shall submit a fiber optic cable pulling plan for review and approval by the Engineer prior to beginning fiber optic cable installation. The fiber optic cable pulling plan shall include:

(1) Location of start and end of pulls,

(2) Location of cable reel trailers during installation,

(3) Location of any "figure-eight" of fiber optic cable, and

(4) Location of staged equipment.

Upon completion of the work, submit an "As Built" or corrected plan showing in detail the following:

(1) Construction changes,

(2) Location and attenuation of every event along the installed fiber optic cable,

(3) Index of refraction of installed fiber,

(4) Fiber optic cable index of refraction, and

(5) Sequential fiber optic cable markings at each pullbox, cabinet, and splice closure.

(B) Excavation and Backfill. Excavation and backfill shall conform to Section 204 – Excavation and Backfill for Miscellaneous Facilities.

The Contractor shall be responsible for the repair of any damage to pavements, sidewalks and other improvements. Place the material from the excavation to prevent damage and obstruction to vehicular and pedestrian traffic and interference with surface drainage.

(C) Fiber Optic Cable. The fiber optic cable Subcontractor shall install the new fiber optic cable underground in conduits as shown on the plans. The Contractor will be responsible for furnishing and pulling the new fiber in PVC ductlines using a breakaway swivel to prevent exceeding the tensile load during installation.

All fiber optic splices shall be fusion splices. Mechanical splices shall not be used. Fiber optic splice locations are permitted only at splice points where splice cabinets are shown on the plans. Fiber optic fibers shall be spliced in every splice cabinet location, and it is the responsibility of the Contractor to maintain a continuous run throughout the system. The Contractor shall leave a minimum of 25-feet of cable service loops at every cabinet or splice location.

Provide documented historical cable pulling data indicating tensile forces exerted on the cable during the installation. Any tension measurements, which exceed the manufacturer's recommendation, will be considered means for the cable rejection. The fiber optic cable Subcontractor shall be fully responsible for the quality and integrity of the installed cable and the operability of the final fiber optic cable product. All fibers shall be spliced at camera cabinets, hubs, and splice cabinets and shall have no more than 0.07 dB loss per splice based on the appropriate system operating wavelength.

The Contractor shall complete all required fiber optic splices prior to final testing and acceptance. As part of the final testing and acceptance, submit optical time domain reflectometer (OTDR) readings in both hardcopy and electronic formats (such that it can be examined using the

manufacturer's OTDR software) to the Engineer for review. Testing shall be conducted on all singlemode fibers at 1310 nm and 1550 nm. Powermeter attenuation testing should be performed at dual wavelength, bi-directionally.

All necessary equipment and plug-in, fittings, splice tags, enclosures, and work to complete an operational system shall be furnished and installed by the Contractor, unless otherwise indicated, at no added cost, and will be considered included in the cost of the contract items in this Section.

In every pullbox, store are least 20 feet of slack fiber optic cable for every cable that passes through the pullbox. If a cable runs from the pullbox directly to an equipment cabinet, store at least 25 feet in the pullbox and store at least 25 feet of slack for it in the cabinet. Store slack cable neatly on the walls of the pullbox or cabinet using racking hardware acceptable to the Engineer.

(D) Services Provided By The City.

The City and County of Honolulu, Department of Transportation Services (DTS) will be responsible for coordinating phasing with contractor.

The Contractor shall be responsible for the following:

(1) Arrange for phases of work with DTS or as specified by the Engineer.

(2) Give at least seven calendar days of advance notice to DTS when phases of the work require its services.

(3) All splices and connections in pullboxes and cabinet locations where indicated on plans.

(E) Restoring Pavements and Other Improvements. Restore the existing pavements and other improvements such as driveways, sidewalks, curbs and gutters disturbed by excavation to their original condition according to the contract. Materials used for restoration work shall be equal to or better in quality than the materials the Contractor will replace, and matching in thickness, texture, and color whenever applicable. The grades of the restored surfaces shall conform to the existing grades.

(F) Warranty. Materials and equipment installed for permanent construction shall be new. The contract contemplates the use of first-class material and equipment throughout the performance of the contract.

Secure from the manufacturer(s), a warranty or warranties guaranteeing equipment from defects in materials, design and workmanship for not less than 12 months from the date of acceptance.

When requiring adjustments or repairs during the warranty period, adjust or repair the existing unit within 24 hours from the time of notification.

When requiring repairs that need factory corrections during the warranty period, replace the existing unit with an accepted temporary operational replacement unit within 24 hours from the time of notification until the Contractor can install the new unit. Install the new, identical non-defective unit within 30 days from the time of notification.

647.04 Method of Measurement. The Engineer will measure the fiber optic cables per linear foot in accordance with the contract documents.

647.05 Basis of Payment. The Engineer will pay for the accepted fiber optic cable underground at the contract unit price per linear foot complete in place. The price includes full compensation for messenger cable both, existing and new, and all other materials required to complete a fully functioning fiber optic infrastructure; submitting the equipment list and drawing; furnishing, installing, and taping the cable, as required; making the connections; providing turn-on service, restoring pavements and other improvements; testing and furnishing equipments, tools, labor, materials and other incidentals necessary to complete the work. Payment will be full compensation for the work prescribed in this section and the contract documents.

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

Pay Item	**Pay Unit**
72-Strand Single Mode Fiber Optic Cable, with 3-Cell Fabric Sleeve"	Lin. Foot.

END OF SECTION 647

Make the following section a part of the Standard Specifications:

"SECTION 694 – LONGITUDINAL CHANNELIZING CURB SYSTEM

694.01 Description. This section describes the installation of Longitudinal Channelizing Curb Systems. The Longitudinal Channelizing Curb System shall be one of the following: Qwick Kurb System, FG Curb System, Dura Curb System, Tuff Curb System, or other HDOT approved equivalent.

694.02 Materials.

(A) General. The Longitudinal Channelizing Curb System shall utilize modular curb units and upright flexible, retroreflective posts or panels, as specified by the contract. The complete system shall be NCHRP Report 350 or MASH compliant as approved by FHWA. Within 10 working days following award of the contract, submit certification attesting that the Channelizing Curb System satisfies NCHRP Report 350 or MASH and is approved by FHWA for high speed use.

(B) Curb Unit. The modular curb units shall be able to interface with each other to form a continuous curb. Each modular curb unit shall allow the use of end units and be bolt fastened to the underlying pavement or bridge deck according to the manufacture's recommendations. Each modular curb unit shall be made of high-density polyethylene or polyurethane, shall be UV resistant, and include curb retroreflectors. The Channelizing Curb System shall be designed such that it can be formed into a radius or curve, when required to follow the roadway geometry.

Individual modular curb units shall have a minimum length of 30 to 45 inches, height of 2-to 4 inches, and width of 7 to 12-1/2 inches. Each modular curb unit color shall be either yellow or white and match the adjacent pavement marking.

(C) Upright Post or Panel. Each modular curb unit shall include at least one upright post or panel, when noted on the contract documents. The number of posts or panels shall be as shown in the contract. Post or panel shall be flexible plastic, be able to withstand multiple errant vehicle impacts, and be UV resistant. Overall post height and retroreflective bands shall comply with the MUTCD. Posts shall be either yellow or white and match the modular curb unit and adjacent pavement marking.

694.03 Construction Requirements.

(A) Surface Preparation. The Longitudinal Channelizing Curb system shall be installed on clean, dry, and even surface. Clean roadway surfaces

of debris with compressed air and dry the surface before placing curb. If pavement markers, delineator bases, and/or other irregularities are present, they shall be removed to provide a clean, dry, and even surface for mounting.

(B) Installation. The Longitudinal Channelizing Curb System alignment, along with any drainage spaces, shall be laid out and marked. The Engineer shall approve the alignment prior to installation. If the Longitudinal Channelizing Curb system needs to be realigned after installation, the Longitudinal Channelizing curb system shall be lifted and then relocated. Sliding, dragging, or shoving of the Longitudinal Channelizing curb system to correct alignment shall be grounds to reject the material.

Once the Longitudinal Channelizing Curb System alignment is complete and approved by the Engineer, drill the mounting holes into the pavement or bridge deck. Mount each modular curb unit and post(s) or panel(s) with appropriate anchors as recommended by the manufacturer. Install the arched curb retroreflectors as recommended by the manufacturer.

694.04 Method of Measurement. The Engineer will measure the Longitudinal Channelizing Curb System per unit in accordance with the contract documents.

694.05 Payment. The Engineer will pay for the accepted Longitudinal Channelizing Curb System on a contract price per unit according to the contract. Payment will be in full compensation for work prescribed in this section and the contract documents.

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

Pay Item	**Pay Unit**
Longitudinal Channelizing Curb System	Unit"

END OF SECTION 694

PROPOSAL SCHEDULE					
ITEM NO.	**ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**AMOUNT**
203.0100	Roadway Excavation for Railroad Crossing	L.S.	L.S.	L.S.	$_____
204.1000	Trench Excavation for Shared Use Path	L.S.	L.S.	L.S.	$_____
204.2000	Trench Backfill for Shared Use Path (Recycled Asphalt Pavement Placement and Compaction)	L.S.	L.S.	L.S.	$_____
209.0100	Installation, Maintenance, Monitoring, and Removal of BMP	L.S.	L.S.	L.S.	$_____
209.0200	Additional Water Pollution, Dust, and Erosion Control	F.A.	F.A.	F.A.	$ 25,000.00
209.0300	Hazardous Materials Mitigation	F.A.	F.A.	F.A.	$ 10,000.00
315.1000	Non-Woven Geotextile Fabric (Shared Use Path)	95	S.Y.	$ _____	$_____
401.1000	HMA Pavement, Mix No. V for Shared Use Path	11	Ton	$ _____	$_____
511.1000	Drilled Shaft	824	L.F.	$ _____	$_____
622.1001	Trench And Backfill	12,870	L.F.	$ _____	$_____
622.1002	Concrete For Duct	355	C.Y.	$ _____	$_____
622.2001	Lighting Ductline, One 3-inch Conduit, Schedule 40 PVC, Concrete Encased	10	L.F.	$ _____	$_____

PROPOSAL SCHEDULE					
ITEM NO.	**ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**AMOUNT**
622.2002	Lighting Ductline, Two 2-inch Conduit, Schedule 40 PVC, Concrete Encased	10,460	L.F.	$ _____	$_____
622.2003	Lighting Ductline, Four 2-inch Conduit, Schedule 40 PVC, Concrete Encased	150	L.F.	$ _____	$_____
622.2004	Lighting Ductline, Two 2-inch Conduit, Schedule 80 PVC, Concrete Encased	1,705	L.F.	$ _____	$_____
622.2005	Secondary Power Ductline, One 2-inch Conduit, Schedule 40 PVC, Concrete Encased	70	L.F.	$ _____	$_____
622.2006	Spare(HECo) Ductline, Two 3-inch Conduit, Schedule 40 PVC, Concrete Encased	170	L.F.	$ _____	$_____
622.2007	Spare(HECo) Ductline, Two 3-inch Conduit, Schedule 80 PVC	15	L.F.	$ _____	$_____
622.2008	Lighting & Spare(HECo) Ductline, Two 2-inch & Two 3-inch Conduit, Schedule 80 PVC, Concrete Encased	85	L.F.	$ _____	$_____
622.3001	Conductors - #12 RHW-USE	200	L.F.	$ _____	$_____
622.3002	Conductors - #10 RHW-USE	11,900	L.F.	$ _____	$_____
622.3003	Conductors - #8 RHW-USE	100	L.F.	$ _____	$_____
622.3004	Conductors - #4 RHW-USE	350	L.F.	$ _____	$_____

PROPOSAL SCHEDULE					
ITEM NO.	**ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**AMOUNT**
622.3005	Conductors - #2 RHW-USE	37,400	L.F.	$ _____	$_____
622.4001	Equipment Enclosure “FB2”	1	EA	$ _____	$_____
622.4002	Service Pullbox 12”W X 18”H X 18”D NEMA 3R	1	EA	$ _____	$_____
622.4003	100A Meter Main NEMA 3R	1	EA	$ _____	$_____
622.4004	Wireway 8” SQ X 24”	1	EA	$ _____	$_____
622.4005	Electrical Panel "2B" 120/240v, Single Phase, 3 Wire, NEMA 1	1	EA	$ _____	$_____
622.4006	Duplex RCPT, GFCI, 5-20R, Weatherproof In Use Cover	1	EA	$ _____	$_____
622.5001	State Highway Street Light Pullbox Type A	12	EA	$ _____	$_____
622.5002	State Highway Electrical Pullbox Type A	1	EA	$ _____	$_____
622.5003	2x4 HECo Pullbox	3	EA	$ _____	$_____
622.6001	Equipment Connection	1	EA	$ _____	$_____
622.7001	Roadway Lighting Standard, Mesh Node, Light Pole With 8-Foot Luminaire Arm	5	EA	$ _____	$_____
622.7002	Roadway Lighting Standard, Mesh Node, Light Pole with Twin 8-Foot Luminaire Arm	3	EA	$ _____	$_____

PROPOSAL SCHEDULE					
ITEM NO.	**ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**AMOUNT**
622.7003	Roadway Lighting Standard, Mesh Node, Light Pole with 15-Foot Luminaire Arm	49	EA	$ _____	$_____
622.7004	Roadway Lighting Standard, Mesh Node, Light Pole with Twin 15-Foot Luminaire Arm	4	EA	$ _____	$_____
622.7005	Pathway Lighting Standard, Mesh Node, Light Pole with 4-Foot Luminaire Arm	31	EA	$ _____	$_____
622.7006	Pathway Lighting Standard, Mesh Node, Light Pole with 4-Foot Luminaire Arm, House Side Shield	11	EA	$ _____	$_____
622.7007	Demolish Existing Roadway Light Standard	23	EA	$ _____	$_____
622.8001	Johnson Controls Services (Mesh Node System Activation)	L.S.	L.S.	L.S.	$_____
622.8002	Cleanup	L.S.	L.S.	L.S.	$_____
622.8003	Mobilization	L.S.	L.S.	L.S.	$_____
622.8004	Testing & Adjustment	L.S.	L.S.	L.S.	$_____
622.9001	HECo Service Connection	F.A.	F.A.	F.A.	$ 10,000.00
623.1000	CCTV Cabinet with Concrete Pedestal, and Required Components	1	EA	$ _____	$_____

PROPOSAL SCHEDULE					
ITEM NO.	**ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**AMOUNT**
623.2000	Upgrade Existing Hardened Switch with New 1GB Hardened Switch, and Terminate New Fiber Optic Cable at Existing CCTV Cabinet	3	EA	$ _____	$_____
623.3000	CCTV Camera with Mounting Accessories	2	EA	$ _____	$_____
623.4000	Tap Power and Extend to New CCTV Cabinet	L.S.	L.S.	L.S.	$_____
623.5000	Remove Existing Interconnect Cable	L.S.	L.S.	L.S.	$_____
623.6000	Traffic Signal Interconnect (6-2-Inch PVC Schedule 40 Conduits)	120	L.F.	$ _____	$_____
623.7000	Traffic Signal Interconnect (2-2-Inch PVC Schedule 40 Conduits)	2,651	L.F.	$ _____	$_____
623.8000	Type A Traffic Signal Pullbox	14	EA	$ _____	$_____
629.1000	4-Inch Pavement Striping (Thermoplastic Extrusion)	315	L.F.	$ _____	$_____
629.1001	6-Inch Pavement Striping (Thermoplastic Extrusion)	80	L.F.	$ _____	$_____
629.1002	12-Inch Pavement Striping-Diagonal (Thermoplastic Extrusion)	28	L.F.	$ _____	$_____
629.2000	24-Inch Stop Bar (Thermoplastic Extrusion)	64	L.F.	$ _____	$_____
629.2001	4-Inch Lane Striping, 10-Foot Profiled (Thermoplastic Extrusion)	10	L.F.	$ _____	$_____

PROPOSAL SCHEDULE					
ITEM NO.	**ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**AMOUNT**
629.3000	Pavement Arrow (Thermoplastic Extrusion)	2	EA	$ _____	$_____
629.3001	Pavement Symbol – Railroad Crossing (Thermoplastic Extrusion)	1	EA	$ _____	$_____
629.4000	Type “C” Pavement Marker	4	EA	$ _____	$_____
629.4001	Type “H” Pavement Marker	1	EA	$ _____	$_____
636.0100	E-Construction License	F.A.	F.A.	F.A.	$ 10,000.00
643.0200	Maintenance of Existing Landscape Areas	F.A.	F.A.	F.A.	$ 5,000.00
645.0100	Traffic Control	L.S.	L.S.	L.S.	$_____
645.0200	Additional Police Officers, Additional Traffic Control Devices, and Advertisement	F.A.	F.A.	F.A.	$ 100,000.00
647.0100	72-Strand Single Mode Fiber Optic Cable, with 3-Cell Fabric Sleeve	7,900	L.F.	$ _____	$_____
648.0100	Field-Posted Drawings	L.S.	L.S.	L.S.	$_____
660.1000	Railroad Signal System	L.S.	L.S.	L.S.	$_____
661.1000	Railroad Track Construction (Open Track Section)	L.S.	L.S.	L.S.	$_____
661.2000	Railroad Track Construction (Concrete Crossing Section)	L.S.	L.S.	L.S.	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
661.3000	Hawaiian Railway Society (HRS) Construction Oversight and Work	F.A.	F.A.	F.A.	$ 10,000.00
671.0000	Protection of Endangered Species	F.A.	F.A.	F.A.	$ 20,000.00
680.1000	Sawcut and Patch Concrete Sidewalk	L.S.	L.S.	L.S.	$_____
680.2000	Trench Excavation For Traffic Signal Power	25	L.F.	$ _____	$_____
680.3000	Concrete For Traffic Signals	1	C.Y.	$ _____	$_____
694.1000	Longitudinal Channelizing Curb System	32	Unit	$ _____	$_____
694.1001	Longitudinal Channelizing Curb System with 36" Tall Reflectorized Uprights	16	Unit	$ _____	$_____
696.1000	Maintenance of Trailer	F.A.	F.A.	F.A.	$ 20,000.00
699.1000	Mobilization (Not to exceed 6 percent of the sum of all items excluding the bid price of this item)	L.S.	L.S.	L.S.	$_____

Sum of All Items ..... $ _____

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

July 10, 2023 PRE-BID CONFERENCE MINUTES

Subject: Fort Barrette Road Railroad Crossing and Lighting Improvements, Roosevelt Avenue to Farrington Highway
Island of Oahu
Federal-Aid Project No. HSIP-RR-0901(017)

Attendees: See attached list of attendees.

A. No prospective bidders attended the meeting. Meeting was adjourned at 9:10 am.

HIGHWAYS DIVISION

PRE-BID MEETING ATTENDANCE

SUBJECT: Fort Barrette Road Railroad Crossing and Lighting Improvements, Roosevelt Avenue to Farrington Highway
Island of Oahu

FED-AID PROJECT NO.: HSIP-RR-0901(017)

DATE, TIME & PLACE: July 10, 2023; 9:00 A.M.
Pre-offer conference held virtually

Microsoft Teams

NAME	OFFICE	EMAIL	TELEPHONE
Li Nah Okita	HWY-DD	li.nah.okita@hawaii.gov	808-692-7581
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Darin Chinen	WSP USA, Inc.	darin.chinen@wsp.com	808-566-2252