STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ADDENDUM NO. 1
for
INSTALLATION OF ENHANCED PAVEMENT MARKING AND NEW MILLED RUMBLE STRIP AT VARIOUS LOCATIONS

FEDERAL-AID PROJECT NO. HSIP-0700(079)R

The following amendments shall be made to the Bid Documents:

A. SPECIFICATIONS

1. Replace Table of Contents dated 2/11/19 with the attached Table of Contents dated r3/7/19.

2. Replace Pages 629-1a through 629-12a dated 12/5/18 with the attached Pages 629-1a through 629-13a dated r3/7/19.

B. PROPOSAL

1. Replace Pages P-8 through P-11 dated 11/29/2018 with the attached Pages P-8 through P-13 dated r3/7/2019.

C. PRE-BID MEETING NOTES

1. Attached are the March 4, 2019 Pre-Bid Meeting Notes 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.

JADE T. BUTAY
Director of Transportation

TABLE OF CONTENTS

END OF TABLE OF CONTENTS

Amend **Section 629 - PAVEMENT MARKINGS** to read as follows:

"SECTION 629 - PAVEMENT MARKINGS

629.01 Description. This section describes furnishing, installing, and removing pavement markings.

629.02 Materials.

White and Yellow Traffic Paint	755.01
Pavement Markers	755.02
Adhesives for Pavement Markers	755.03
Preformed Pavement Marking Tape	755.04
Retroreflective Thermoplastic Compound Pavement Markings	755.05

Pavement markers shall be of uniform composition, free from surface irregularities, and free from other physical damage or defects that affect appearance or performance, or both.

629.03 Construction.

(A) General. Pavement markings shall conform to most recent edition of MUTCD, and as amended; and shall be applied as indicated in the contract documents.

Establish control points and layout pavement markings.

Remove surface moisture and other materials that may adversely affect bonding before applying pavement markings.

If bituminous adhesive is used, apply pavement markers not less than 7 days after completing pavement. If epoxy adhesive is used, apply markers not less than 14 days after completing pavement.

Do not allow more than 1-inch deviation from intended alignment of longitudinal pavement markings on tangents and curves with radii greater than 5,000 feet. Do not allow more than 2-inch deviation from intended alignment of longitudinal pavement markings on curves with radii of 5,000 feet or less. Correct misalignments by removing and reinstalling misaligned portion(s), plus an additional 25-foot segment from each end, within one working day after notification of misalignment by the Engineer.

All pavement markings and striping on portland cement concrete pavement shall be surrounded by a 2-inch wide non-reflective black border. Non-reflective boarder shall be Sealmaster Fast-Dry Traffic Paint or an approved equal.

(B) Temporary Pavement Markings. Install temporary pavement markings by end of work day in accordance with Table 629.03-1 - Temporary Pavement Markings when the following conditions exist:

(1) Permanent pavement markings are not installed after completion of each day's final paving.

(2) Additional guidance through area is required.

(3) Markings for special traffic patterns are warranted.

Install temporary, solid, 4-inch pavement marking tapes on edges of traveled way for newly paved, scarified, or cold-planed surfaces, reconstructed areas, unmarked areas and milled rumble strip areas. Where curbs are present at edges of traveled way, 4-inch pavement marking tapes may be eliminated.

Maintain and replace temporary pavement markings, flexible delineators, and barricades.

Remove temporary markings before installing permanent pavement markings.

Cover or temporarily remove signs that conflict with temporary pavement markings.

When pavement markings are not installed by the completion of construction operations for each day, the Engineer will suspend work and progress payment in accordance with Subsection 105.01(A) - Authority of the Engineer.

TABLE 629.03-1 TEMPORARY PAVEMENT MARKINGS	
TYPE	**PAVEMENT MARKINGS**
Passing Permitted - Both Sides	Broken lines consisting of 10-foot line segments and 30-foot gaps with Type D markers spaced 40 feet on center and located on center of the stripes.
Passing Prohibited - Both Sides	Double solid 4-inch yellow stripes with Type D markers placed 40 feet on center placed consistently on one of the

	4-inch yellow stripes.
Passing Permitted - One Side Only	Single continuous 4-inch yellow stripe and single 4-inch yellow broken lines consisting of 10-foot line segments and 30-foot gaps on passing side with Type D markers placed 40 feet on center on the continuous 4-inch stripe.
Lane Lines - Lane Changing Permitted	Single 4-inch white broken lines consisting of 10-foot line segments and 30-foot gaps with Type C or Type D markers spaced 40 feet on center located on the stripes.
Lane Lines - Lane Changing Prohibited	Double solid 4-inch white stripes with Type C markers placed 40 feet on center consistently on one of the 4-inch white stripes.
Crosswalk	A 10 foot stripe 12 inches in width with 18 inch gap.
Stop Line	Single 12-inch white transverse line.
Note: Paint may be used for temporary markings in areas where final paving is not complete."	

(C) Permanent Pavement Markings.

(1) Permanent Pavement Markers. Provide pavement markers conforming to shapes, dimensions, tolerances, types, uses, and layout as indicated in the contract documents.

Submit samples of pavement markers and adhesives for testing and acceptance 10 days before usage. The Engineer will sample and test pavement markers in accordance with Subsection 755.02 – Pavement Markers.

Use bituminous adhesive or standard set type epoxy adhesive to bond pavement markers to pavement.

Heat and dispense bituminous adhesive from equipment that can maintain required temperature.

When using epoxy adhesive, mix components by employing two-component type automatic mixing and extruding apparatus. Automatic mixing equipment shall use positive displacement pumps and shall properly meter components in ratio of 1:1, ± 5 percent by volume. Check ratio in presence of the Engineer at beginning of each day or as ordered by the Engineer.

Mix only standard set type adhesive manually, and do not mix more than 1 quart.

Place pavement markers within 60 seconds after mixing and extruding adhesive. No further movement of placed marker will be allowed. Use completely each mixed batch of adhesive within 5 minutes after start of mixing. Place adhesive on pavement surface or on bottom of marker, covering entire area of contact, without voids and with uniform thickness, to produce slight excess after pressing marker in place. Place marker in position and apply pressure with slight twisting motion until firm contact is made with pavement. If adhesive cannot be readily extruded from under marker when pressure is applied, discard remaining batch of adhesive. Immediately remove excess adhesive around edge of marker, on surrounding pavement, and on exposed surfaces of markers.

Remove adhesive from exposed faces of markers, using soft rags moistened with mineral spirits conforming to MIL-PRF-680A(1) or kerosene. Other solvents will not be allowed.

Where bituminous adhesive is used, protect marker against impact until adhesive has hardened to the degree designated by the Engineer. Where epoxy adhesive is used, protect pavement markers against impact until adhesive has hardened in accordance with Table 629.03-2 – Adhesive Set Time For Epoxy Pavement Markers:

TABLE 629.03-2 - ADHESIVE SET TIME FOR EPOXY PAVEMENT MARKERS

Temperature* (Degrees F)	Standard Set Type (Hours)	Rapid Set Type (Minutes)
100	1.5	15
90	2	20
80	3	25
70	4	30
60	5	35
50	7	45
40	No application below 50 degrees F	65
30		85
20		No application

10		below 30 degrees F
*Either pavement surface temperature or ambient air temperature, whichever is lower.		

Do not use hardness of epoxy rim around marker as an indication of degree of cure.

Remove and replace pavement markers that do not meet set time requirements indicated in Table 629.03-2 - Adhesive Set Time For Epoxy Pavement Markers.

Do not install pavement markers when relative humidity is greater than 80 percent, or when pavement surface is not dry.

When using Types A and J pavement markers for delineating 10-foot lane stripes, install markers in sets of four, with no fractional sets allowed. Adjust lengths of each 10-foot stripe and each 30-foot gap for skip striping ± 1 foot, to present uniform and balanced pattern.

Do not install pavement markers over longitudinal or transverse joints of pavement surface, pavement marking tape, and thermoplastic extrusion markings.

(2) Traffic Paint. Use wheeled, manually or motor-propelled applicator machine to apply traffic paint at nominal thickness of 0.015 inch or at rate of 300 linear feet of single 4-inch stripe for 1 gallon paint. Use applicator having appropriate shields around nozzles to permit sharp stripe definition, and separate nozzle to direct air stream immediately ahead of paint application for clearing debris, dust, and other foreign matter. Immediately remove misted, dripped, and spattered paint from pavements.

Protect freshly painted pavement markings from traffic until paint will not transfer to tires or other devices.

Repair or correct pavement markings damaged by traffic and paint marks on pavement caused by traffic crossing wet paint.

(3) Thermoplastic Extrusion Pavement Marking.

(a) Equipment. Apply material to pavement by extrusion method. One side of shaping die shall be pavement surface and other three sides shall be contained by, or shall be part of equipment for heating and controlling flow of material.

Equipment shall provide continuous mixing and agitation of material. Conveying parts of equipment shall be constructed to prevent accumulation and clogging.

Mixing and conveying parts, including shaping die, shall maintain material at plastic temperature.

Equipment shall produce continuously uniform stripe dimensions.

Applicator shall cleanly and squarely cut off stripe ends. Pans, aprons, or similar appliances that the die overruns will not be allowed.

Apply beads to entire surface of completed stripe by automatic bead dispenser attached to liner.

Equip bead dispenser with automatic cutoff control synchronized with cutoff of thermoplastic material.

Use equipment that provides for varying die widths to produce varying widths of traffic markings.

Provide kettle for melting and heating composition. Equip kettle with automatic thermoplastic control device so that heating can be done by controlled heat transfer liquid rather than direct flame.

Equip and arrange applicator and kettle in accordance with National Fire Underwriters requirements.

Use mobile and maneuverable applicator that is capable of following straight lines and making curves in true arcs.

Use applicator capable of containing minimum of 125 pounds of molten material.

(b) Application. Clean off dirt, blaze, paint, tape, and grease. Apply thermoplastic extrusion pavement marking only when pavement surface is dry.

Use equipment that can apply material in variable widths from 2 inches to 12 inches. Apply material for full width of stripe in one application or pass.

On concrete pavements, on HMA pavements more than seven days old, and on HMA pavements paved within seven days containing less than 6 percent bituminous asphalt,

pre-stripe application area with binder material, primer, or prime seal coat recommended by pavement marker manufacturer.

Line thickness, as viewed from lateral cross section, shall measure not less than 3/32 inch at edges, and not less than 1/8 inch in center.

Take measurements as average throughout 36-inch sections of line. Two thousand pounds of thermoplastic materials supplied in granular or block form shall yield approximately 6,600 feet of 4-inch striping with 90-mil thickness.

Where required by the contract documents to apply new markings over existing markings, bond new line over old line so that no splitting or separation takes place during its useful life.

Provide finished lines with well-defined edges, free of waviness.

(c) Profiled marking Profiled thermoplastic markings shall be produced in one continuous integral process consisting of an extruded base line with raised ribs positioned at regular and predetermined intervals. The product shall be available in standard widths and standard colors of white and yellow.

The base line shall consist of thermoplastic materials extruded to a thickness of not less than 100 mils nor more than 125 mils. The width of the line shall be in accordance with the plans. The edges of the lines shall be well defined and free from waviness.

The raised ribs shall be positioned at regular 36 inch intervals when measure center to center. The general shape of the ribs approximates a trapezoid when viewed from a profile aspect. The raised rib shall stand a minimum of 400 mils above the extruded base line. The length of the raised rib shall be a minimum of 2.5 inches measured at the widest portion of the crown of the rib. In addition, the ribs shall be approximately rectangular in shape.

(4) Preformed Pavement Marking Tape. Apply temporary or permanent preformed pavement marking tape manually or with tape applicators, in accordance with tape manufacturer's recommendations and the contract documents. Install preformed pavement marking tape only when pavement surface is dry.

Do not apply preformed pavement marking tape over other markings. Remove existing pavement markings and prepare surface for tape application in accordance with Subsection 629.03(A) - General.

Apply preformed pavement marking tape only when ambient air temperature is at least 60 degrees F and rising, and roadway surface temperature is at least 70 degrees F and rising. Application of preformed pavement marking tape will not be allowed when roadway surface temperature exceeds 150 degrees F.

Before applying preformed pavement marking tape, prime existing roadway surfaces with primer in accordance with tape manufacturer's recommendations.

Use tapes of specified width or use tapes of different widths to form specified stripe width. The Engineer will pay for specified width of stripe when different tape widths are used to form specified width.

Use butt splices only. Tape material shall not be overlapped.

Areas marked with preformed pavement marking tape shall be ready for traffic immediately after application.

(5) Thermoplastic Hot Spray Pavement Marking.

(a) Equipment. Use equipment constructed for preparation and application of thermoplastic hot spray pavement marking.

Equipment shall provide continuous mixing and agitation of material. Conveying parts of equipment shall be constructed to prevent accumulation and clogging.

Use applicator capable of containing minimum of 125 pounds of molten material.

Provide kettle for melting and heating composition. Equip kettle with automatic thermostat control device so that heating can be done by controlled heat transfer liquid rather than direct flame.

Equip and arrange applicator and kettle in accordance with National Fire Underwriters requirements.

Mixing and conveying parts, including the spray gun, shall maintain material at molten temperature.

Apply beads to entire surface of completed stripe by automatic bead dispenser attached to hot spray applicator.

Equip bead dispenser with automatic cutoff control synchronized with cutoff of thermoplastic material.

Use equipment that provides for varying spray widths to produce varying widths of traffic markings.

Use mobile and maneuverable applicator that is capable of following straight lines and making curves in true arcs.

(b) Application. Clean off dirt, debris, blaze, paint, tape, and grease. Apply thermoplastic hot spray pavement marking only when pavement surface is dry.

Use equipment that can apply material in variable widths from 2 inches to 12 inches. Apply material for full width of stripe in one application or pass.

On concrete pavements, on HMA pavements more than seven days old, and on HMA pavements paved within seven days containing less than 6 percent bituminous asphalt, pre-stripe application area with binder material, primer, or prime seal coat recommended by pavement marker manufacturer.

Line thickness, as viewed from lateral cross section, shall measure not less than 3/32 inch at edges, and not less than 1/8 inch in center.

Where required by the contract documents to apply new markings over existing markings, bond new line over old line so that no splitting or separation takes place during its useful life.

Provide finished lines with well-defined edges, free of waviness.

(D) Removal of Existing Pavement Markings. Remove and dispose of existing pavement markings as directed by the Engineer before performing the following activities: applying temporary or permanent traffic paint, thermoplastic extrusion pavement marking, or preformed pavement marking tape; and making changes in traffic pattern. Dispose of material in accordance with Subsection 201.03(F) - Removal and Disposal of Material. Use one of the following removal methods:

(1) Grinding. Feather edges of grinding to make smooth transition to existing roadway surface. Limit feathering to 3 inches beyond edge of existing striping to be removed. Vary feathered edges to differentiate them from traffic stripes. Coat ground asphalt pavement with rapid-setting slurry.

(2) Burning. Burn off existing painted pavement markings using excess oxygen method.

(3) Sandblasting. As work progresses, immediately remove sand and other material deposited on pavement.

(4) Other. Remove preformed pavement marking tape by methods recommended by manufacturers. Eradication of existing markings by painting over them will not be allowed.

629.04 Measurement.

The Engineer will measure for removing and disposing of pavement striping per linear foot.

The Engineer will measure for removing and disposing of crosswalk and yield line markings per lane.

The Engineer will measure for removing and disposing of pavement markers, pavement word, and pavement arrow per each.

The Engineer will measure removing and disposing of temporary striping per linear foot.

The Engineer will measure removing and disposing temporary pavement markers per each.

The Engineer will measure for furnishing and installing pavement striping per linear foot.

The Engineer will measure for furnishing and installing crosswalk and yield line markings per lane.

The Engineer will measure for furnishing and installing pavement arrow, pavement word, and pavement markers per each.

629.05 Payment.

The Engineer will pay for the accepted pavement striping at the contract unit price per linear foot. The price includes full compensation for cleaning the existing surface, furnishing and applying the pavement striping, and furnishing labor, materials, equipment, tools, and incidentals necessary to complete the work.

The Engineer will pay for the accepted crosswalk and yield line markings at the contract unit price per lane. The price includes full compensation for cleaning the existing surface, furnishing and applying the crosswalk and yield line markings, and furnishing labor, materials, equipment, tools, and incidentals necessary to complete the work.

The Engineer will pay for the accepted pavement arrow and pavement word at the contract unit price per each. The price includes full compensation for cleaning the existing surface, furnishing and applying the pavement arrow and pavement word, and furnishing labor, materials, equipment, tools, and incidentals necessary to complete the work.

The Engineer will pay for the accepted pavement markers including adhesives at the contract unit price per each. The price includes full compensation for cleaning the existing surface, submitting samples; applying adhesives; furnishing, installing and protecting the pavement markers, and furnishing labor, materials, equipment, tools, and incidentals necessary to complete the work.

The Engineer will pay for the accepted removal and disposal of existing pavement markers, words, and arrows at the contract unit price per each. The price includes full compensation for removing and disposing the existing pavement markers, words, and arrows; and furnishing labor, materials, equipment, tools, and incidentals necessary to complete the work.

The Engineer will pay for the accepted removal and disposal of existing crosswalks and yield lines at the contract unit price per lane. The price includes full compensation for removing and disposing the existing crosswalks and yield lines; and furnishing labor, materials, equipment, tools, and incidentals necessary to complete the work.

The Engineer will pay for the accepted removal and disposal of existing pavement striping at the contract unit price per linear foot. The price includes full compensation for removing and disposing the existing pavement striping and furnishing labor, materials, equipment, tools, and incidentals necessary to complete the work.

The Engineer will pay for the accepted removal and disposal of temporary pavement striping at the contract unit price per linear foot. The price includes full compensation for removing and disposing the temporary pavement striping and furnishing labor, materials, equipment, tools, and incidentals necessary to complete the work.

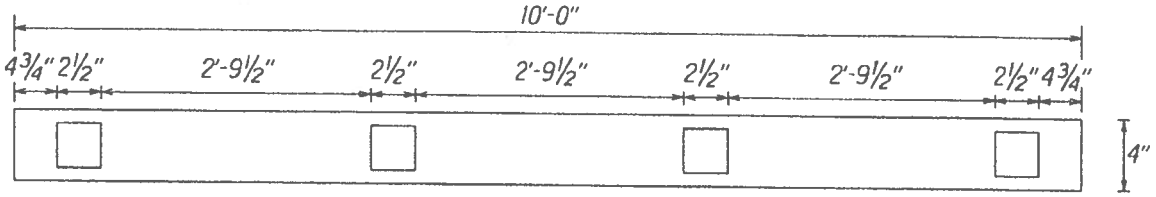
The Engineer will pay for the accepted removal and disposal of temporary pavement markers at the contract unit price per each. The price includes full compensation for removing and disposing the temporary pavement markers and adhesives, cleaning the existing surface, and furnishing labor, materials,

equipment, tools, and incidentals necessary to complete the work.

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

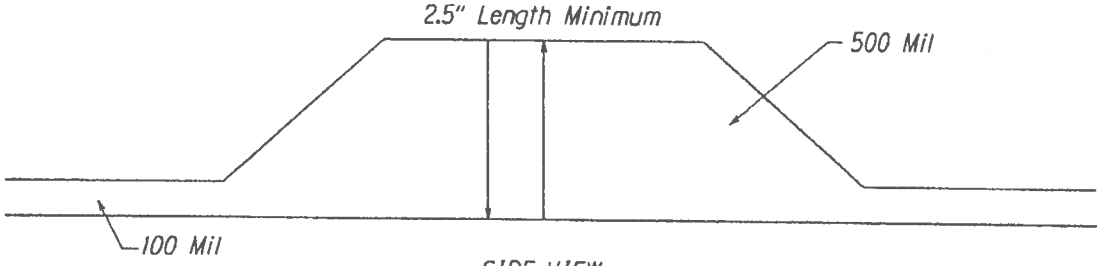
Pay Item	Pay Unit
_____-Inch Pavement Striping (Thermoplastic Extrusion)	Linear Foot
_____-Inch Pavement Striping (Thermoplastic Hot Spray)	Linear Foot
Crosswalk Marking (Thermoplastic Extrusion)	Lane
Yield Line (Thermoplastic Extrusion)	Lane
Pavement Arrow (Thermoplastic Extrusion)	Each
Pavement Word (Thermoplastic Extrusion)	Each
Type _____ Pavement Marker	Each
Removing and Disposing_____	Linear Foot
Removing and Disposing _____	Lane
Removing and Disposing _____	Each"

END OF SECTION 629

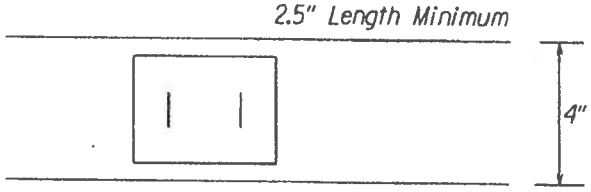


TOP VIEW
LANE LINE

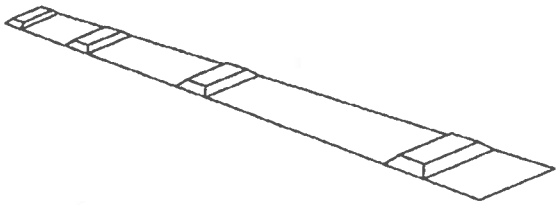
Profiles placed on 36" o.c.
500 mil height, including 100 mil baseline.
Width equal to approximately baseline width.



SIDE VIEW



TOP VIEW



PERSPECTIVE VIEW

PROFILED THERMOPLASTIC STRIPING

Not to Scale

td2/may/karl/Striping/profiled thermoplastic

PROPOSAL SCHEDULE - AREA 1

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
615.0110	16-Inch Milled Rumble Strip, Centerline	50,000	LF	$	$
615.1113	12-Inch Milled Rumble Strip, Edgeline	100,000	LF	$	$
629.1000	4-Inch Pavement Striping (Thermoplastic Hot Spray or Thermoplastic Extrusion)	100,000	LF	$	$
629.1013	8-Inch Pavement Striping (Thermoplastic Extrusion)	1,000	LF	$	$
629.1016	12-Inch Pavement Striping (Thermoplastic Extrusion)	1,000	LF	$	$
629.1020	Double 4-Inch Pavement Striping (Thermoplastic Hot Spray)	50,000	LF	$	$
629.1030	Crosswalk Markings (Thermoplastic Extrusion)	50	LN	$	$
629.1040	Pavement Arrows (Thermoplastic Extrusion)	50	EA	$	$
629.1050	Pavement Words (Thermoplastic Extrusion)	20	EA	$	$
629.1060	Yield Line (Thermoplastic Extrusion)	50	LN	$	$
629.2011	Type C Pavement Markers	5,000	EA	$	$
629.2012	Type D Pavement Markers	10,000	EA	$	$
629.2013	Type H Pavement Markers	2,000	EA	$	$
629.2020	Removing and Disposing Existing Crosswalk Marking	50	LN	$	$
629.2021	Removing and Disposing Existing Yield Line Marking	50	LN	$	$
629.2022	Removing and Disposing Temporary Markers	7,500	EA	$	$
629.2023	Removing and Disposing Temporary Striping	5,000	LF	$	$
629.2024	Removing and Disposing of Existing Pavement Striping	5,000	LF	$	$

PROPOSAL SCHEDULE - AREA 1

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.2025	Removing and Disposing of Existing Markers	7,500	EA	$ _____	$ _____
629.2026	Removing and Disposing of Existing Pavement Arrows	50	EA	$ _____	$ _____
629.2027	Removing and Disposing of Existing Pavement Words	20	EA	$ _____	$ _____
645.1000	Electronic Message Board (per Day)	76	EA	$ _____	$ _____
	a. Sum of All Items - Area 1				$ _____

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

PROPOSAL SCHEDULE - AREA 2

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
615.0110	16-Inch Milled Rumble Strip, Centerline	50,000	LF	$	$
615.1113	12-Inch Milled Rumble Strip, Edgeline	100,000	LF	$	$
629.1000	4-Inch Pavement Striping (Thermoplastic Hot Spray or Thermoplastic Extrusion)	100,000	LF	$	$
629.1013	8-Inch Pavement Striping (Thermoplastic Extrusion)	1,000	LF	$	$
629.1016	12-Inch Pavement Striping (Thermoplastic Extrusion)	1,000	LF	$	$
629.1020	Double 4-Inch Pavement Striping (Thermoplastic Hot Spray)	50,000	LF	$	$
629.1030	Crosswalk Markings (Thermoplastic Extrusion)	50	LN	$	$
629.1040	Pavement Arrows (Thermoplastic Extrusion)	50	EA	$	$
629.1050	Pavement Words (Thermoplastic Extrusion)	20	EA	$	$
629.1060	Yield Line (Thermoplastic Extrusion)	50	LN	$	$
629.2011	Type C Pavement Markers	5,000	EA	$	$
629.2012	Type D Pavement Markers	10,000	EA	$	$
629.2013	Type H Pavement Markers	2,000	EA	$	$
629.2020	Removing and Disposing Existing Crosswalk Marking	50	LN	$	$
629.2021	Removing and Disposing Existing Yield Line Marking	50	LN	$	$
629.2022	Removing and Disposing Temporary Markers	7,500	EA	$	$
629.2023	Removing and Disposing Temporary Striping	5,000	LF	$	$
629.2024	Removing and Disposing of Existing Pavement Striping	5,000	LF	$	$

PROPOSAL SCHEDULE - AREA 2

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.2025	Removing and Disposing of Existing Markers	7,500	EA	$ _____	$ _____
629.2026	Removing and Disposing of Existing Pavement Arrows	50	EA	$ _____	$ _____
629.2027	Removing and Disposing of Existing Pavement Words	20	EA	$ _____	$ _____
645.1000	Electronic Message Board (per Day)	76	EA	$ _____	$ _____
	a. Sum of All Items - Area 2				$ _____

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

PROPOSAL SCHEDULE - SUMMARY

	ITEM DESCRIPTION				AMOUNT
	TOTAL OF ALL ITEMS - AREA 1				$ _____
	TOTAL OF ALL ITEMS - AREA 2				$ _____

PROPOSAL SCHEDULE

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

The "TOTAL OF ALL ITEMS" will be used to determine the lowest responsible bidder per area.

Notes:

1. Bid prices are for travel time, mileage and furnishing all labor, tools, traffic controls, all applicable taxes, fees and equipment necessary for all work shown and called for in accordance with the true intent and meaning of the specifications.

2. Bidder may bid on any or all areas. To be considered, bidder must submit a bid for all items within an area. Separate contracts will be awarded for each area. If a bidder is determined the lowest bidder for multiple areas, one combined contract will be awarded.

3. Any contract which is awarded shall be an open-ended contract since the exact value of work to be performed during the contract period cannot be determined beforehand. The unit price for each item of work on any particular work order shall be that which corresponds to the quantity of work for that item actually performed for each work order.

4. The "Approx. Quantity" on the proposal schedules reflect a typical quantity for Work Area 1 and Work Area 2 to be used for bidding purposes. This is no guarantee of the quantity of work that will be issued.

The bidder is directed to Subsection 105.16 – Subcontracts.

INSTALLATION OF ENHANCED PAVEMENT MARKING AND NEW MILLED RUMBLE STRIP AT VARIOUS LOCATIONS
KAUAI

FEDERAL-AID PROJECT NO. HSIP-0700(079)R

PRE-BID MEETING NOTES
MARCH 4, 2019

The following notes are from the Hawaii Department of Transportation (HDOT) pre-bid meeting with prospective bidders for the Installation of Enhanced Pavement Marking and New Milled Rumble Strip at Various Locations on Kauai.

The meeting was held at the Kakuhihewa Building in Kapolei, Room 609 at 10:00 am.

Sign-in sheets with the names of the attendees are attached.

All attendees were reminded that since this is an open-ended project, the Contractor's bid security must be in the amount of $12,500 per area. Bidders shall submit separate bid securities for each area.

Questions:

1. Will bids be rejected if the Contractor does not submit separate bid securities for each area?

   Yes, separate bid securities must be submitted.

2. The proposal schedule does not include any items to remove striping or markers. If new pavement is installed by another contractor, who removes the temporary tape and markers?

   Removal items will be added to the Proposal Schedule.

3. Is HDOT still using Type A and Type J pavement markers? If the markers are replaced with a stripe, how will that be paid? For the actual stripe and not the spaces between or for the entire run?

   All striping in this contract is paid per linear foot for the actual paint put on the pavement.

The meeting ended at 10:15 am.

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

INSTALLATION OF ENHANCED PAVEMENT MARKING AND NEW MILLED RUMBLE STRIP AT VARIOUS LOCATIONS KAUAI

FEDERAL AID PROJECT NO. HSIP-0700(079)R

PRE-BID MEETING

March 4, 2019
10:00 AM

NO.	NAME	COMPANY	PHONE NO.
1	Trent Cabar	Apply-A-Line	841-0980
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
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