# STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

#### ADDÉNDUM NO. 3

for

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

FEDERAL-AID PROJECT NO. HSIP-0300(155)

The following amendments shall be made to the Bid Documents:

#### A. SPECIFICATIONS

- 1. Replace Table of Contents dated r9/13/18 with the attached Table of Contents dated r9/27/18.
- 2. Replace Pages 105-1a through 105-3a dated 2/7/18 with the attached Pages 105-1a through 105-3a dated r9/27/18.
- 3. Replace Pages 629-1a through 629-14a dated 3/5/18 with the attached Pages 629-1a through 629-13a dated r9/26/18.

#### B. PROPOSAL

1. Replace Pages P-8 through P-16 dated r9/13/2018 with the attached Pages P-8 through P-16 dated r9/27/2018.

Please acknowledge receipt of this Addendum No. 3 by recording the date of its receipt in the space provided on page P-4 of the Proposal.

ADE T. BUTAY

Director of Transportation

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Special Provisions Title Page

**Special Provisions:** 

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	Disclosure of Lobbying Activities Standard Form - LLL and LLL-A	
	Statement of Compliance Form WH-348	
	Chapter 104, HRS Compliance Certificate	

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**(I)** 

Make the following amendments to said Section:

Amend 105.01 - Authority to read as follows:

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"105.01 Authority.

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- The Engineer is the representative Authority of the Engineer. (A) of the Director and has all the authority of the Director with respect to the The Engineer will make decisions on all questions that may contract. arise regarding the contract, such as, but not limited to:
  - Interpretation of the contract documents. (1)
  - Acceptability of the materials furnished and work performed. **(2)**
  - Manner of performance and rate of progress of the work. (3)
  - Acceptable fulfillment of the contract on the part of the (4) Contractor.
  - Compensation under the contract. (5)

The Engineer's decisions on questions, claims, and disputes will be final and conclusive subject to Subsection 107.15 - Disputes and Claims.

The Engineer may delegate specific authority to act for the Such delegation of authority Engineer to a specific person or persons. shall be established in writing and shall become effective upon delivery to the Contractor.

Inspectors, as a representative of **Authority of the Inspectors.** (B) the Engineer or other agencies, will inspect the work done and materials Such inspection may extend to the preparation, fabrication or manufacture of the materials to be used. The Inspector does not have authority vested in the Engineer unless specifically delegated in The Inspector may not alter or waive the provisions of the contract, issue instructions contrary to the contract, or act as agent or representative of the Contractor.

Failure of an Inspector at any time to reject non-conforming work shall not be considered a waiver of the State's right to require work in strict conformity with the contract documents as a condition of final acceptance.

- (C) Authority of the Consultant and Construction Management. The State may engage consultants and construction managements to perform duties in connection with the work. Unless otherwise specified in writing to the Contractor, such retained consultants and construction managements shall have no greater authority than an Inspector."
- (II) Amend Subsection 105.02 Submittals by revising the first paragraph from lines 52 to 61 to read as follows:

- "105.02 Submittals. The contract contains the description of various items that the Contractor must submit to the Engineer for review and acceptance. The Contractor shall review all submittals for correctness, conformance with the requirements of the contract documents and completeness before submitting them to the Engineer. The submittal shall indicate the contract items and specifications subsections for which the submittal is provided. The submittal shall be legible and clearly indicate what portion of the submittal is being submitted for review. The Contractor shall provide six copies of the required submissions at the earliest possible date."
- (III) Amend Subsection 105.08 (A) Furnishing Drawings and Special Provisions to read as follows:
  - "(A) Furnishing Drawings and Special Provisions. The State will furnish the Contractor 2 sets of the special provisions. There are no project plans for this project. The Contractor shall have and maintain at least one set of specifications on the work site, at all times."
- (IV) Amend 105.11 Inspection of the Work and Materials by adding the following paragraph after line 366:

All materials generated within the project site are considered solid waste. Solid waste shall be disposed of in accordance with Hawaii State Law HAR 11-58.1 and HRS Section 342H to the facility listed on the Solid Waste Disclosure Form. The contractor shall request and receive written approval from the Engineer before reusing any material in any other way than disposal.

- (V) Amend Subsection 105.14(D) No Designated Storage Area from lines 421 to 432 to read as follows:
  - "(D) No Designated Storage Area. If no storage area is designated within the contract documents, materials and equipment may be stored anywhere within the State highway right-of-way, provided such storage and access to and from such site, within the sole discretion of the Engineer, does not create a public or traffic hazard or an impediment to the movement of traffic."

93 94	(VI) Amend Subsection 105.16(B) - Substituting Subcontractors by revising the second sentence from line 490 to line 493 to read:
95	
96	"Contractors may enter into subcontracts only with subcontractors listed in the
97	proposal or with non-listed joint contractors/subcontractors permitted under
98	Subsection 102.06 - Preparation of Proposal."
99	
100	END OF SECTION 105
101	END OF SECTION 103

1 2 3	Amend Section 629 - PAVEMENT MARKINGS to read as follows:  "SECTION 629 - PAVEMENT MARKINGS	
4 5 6 7	<b>629.01 Description.</b> This section describes furnishing, installing, and repayement markings.	emoving
9	629.02 Materials.	
10 11	White and Yellow Traffic Paint	755.01
12 13	Pavement Markers	755.02
14 15	Adhesives for Pavement Markers	755.03
16 17	Preformed Pavement Marking Tape	755.04
18 19	Retroreflective Thermoplastic Compound Pavement Markings	755.05
20 21 22 23	Pavement markers shall be of uniform composition, free from irregularities, and free from other physical damage or defects that affect apport or performance, or both.	surface pearance
24 25	629.03 Construction.	
26 27 28 29	(A) General. Pavement markings shall conform to most recent MUTCD, and as amended; and shall be applied as indicated in the documents.	edition of e contract
30 31	Establish control points and layout pavement markings.	
32 33 34	Remove surface moisture and other materials that may affect bonding before applying pavement markings.	adversely
35 36 37 38	If bituminous adhesive is used, apply pavement markers no 7 days after completing pavement. If epoxy adhesive is used, apply not less than 14 days after completing pavement.	t less than y markers
39 40 41 42 43 44 45 46 47	feet or less. Correct misalignments by removing and reinstalling reportion(s), plus an additional 25-foot segment from each end, working day after notification of misalignment by the Engineer.	dii greater intended ii of 5,000 nisaligned
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- **(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, and unmarked 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,  $\pm$  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

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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		65		
30	No application below	85		
20	50 degrees F	No application below 30		
10		degrees F		

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Do n	ot use hard	lness of	epoxv rim a	around	marker a	ıs a

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  $\pm$  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

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174	constructed to prevent accumulation and clogging.
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176	Mixing and conveying parts, including shaping die, shall
177	maintain material at plastic temperature.
	The state of the s
178	Equipment shall produce continuously uniform stripe
179	· ·
180	dimensions.
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182	Applicator shall cleanly and squarely cut off stripe ends.
183	Pans, aprons, or similar appliances that the die overruns will
184	not be allowed.
185	
	Apply beads to entire surface of completed stripe by
186	Apply beads to entire surface of completed entire by
187	automatic bead dispenser attached to liner.
188	
189	Equip bead dispenser with automatic cutoff control
190	synchronized with cutoff of thermoplastic material.
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192	Use equipment that provides for varying die widths to
	produce varying widths of traffic markings.
193	produce varying widins of trains markings.
194	D. L. Lette for malting and hosting composition
195	Provide kettle for melting and heating composition.
196	Equip kettle with automatic thermoplastic control device so that
197	heating can be done by controlled heat transfer liquid rather
198	than direct flame.
199	
200	Equip and arrange applicator and kettle in accordance
	with National Fire Underwriters requirements.
201	Willi National File Office Whole requirements
202	Lisa was hills and managerable applicator that is canable
203	Use mobile and maneuverable applicator that is capable
204	of following straight lines and making curves in true arcs.
205	
206	Use applicator capable of containing minimum of 125
207	pounds of molten material.
208	
	(b) Application. Clean off dirt, blaze, paint, tape, and
209	grease. Application. Clean off dirt, blaze, paint, tape, and grease. Apply thermoplastic extrusion pavement marking only
210	
211	when pavement surface is dry.
212	
213	Use equipment that can apply material in variable
214	widths from 2 inches to 12 inches. Apply material for full width
215	of stripe in one application or pass.
	er ember menne ublimennen bene
216	On concrete pavements, on HMA pavements more than
217	asyan days ald and an UMA navaments naved within seven
218	seven days old, and on HMA pavements paved within sever
219	days containing less than 6 percent bituminous asphalt
220	pre-stripe application area with binder material, primer, o

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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.

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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.

314		Mixing and conveying parts, including the spray gun,
315		shall maintain material at molten temperature.
316		A I I I I I I I I I I I I I I I I I I I
317		Apply beads to entire surface of completed stripe by
318		automatic bead dispenser attached to hot spray applicator.
319		- the state of the
320		Equip bead dispenser with automatic cutoff control
321		synchronized with cutoff of thermoplastic material.
322		
323		Use equipment that provides for varying spray widths to
324		produce varying widths of traffic markings.
325		
326		Use mobile and maneuverable applicator that is capable
327		of following straight lines and making curves in true arcs.
328		
329		(b) Application. Clean off dirt, debris, blaze, paint,
330		tape, and grease. Apply thermoplastic hot spray
331		pavement marking only when pavement surface is dry.
332		
333		Use equipment that can apply material in variable
334		widths from 2 inches to 12 inches. Apply material for full
335		width of stripe in one application or pass.
336		11114
337		On concrete pavements, on HMA pavements more
338		than seven days old, and on HMA pavements paved within
339		seven days containing less than 6 percent bituminous
340		asphalt, pre-stripe application area with binder material,
341		primer, or prime seal coat recommended by pavement
342		marker manufacturer.
343		
344		Line thickness, as viewed from lateral cross section,
345		shall measure not less than 3/32 inch at edges, and not less
346		than 1/8 inch in center.
347		
348		Where required by the contract documents to apply new
349		markings over existing markings, bond new line over old line so
350		that no splitting or separation takes place during its useful life.
351		De la Calabaat Bassa with well defined edges from of
352		Provide finished lines with well-defined edges, free of
353	*	waviness.
354		m Demonstration of the second dispose of
355		(D) Removal of Existing Pavement Markings. Remove and dispose of
356		existing pavement markings as directed by the Engineer before performing
357		the following activities: applying temporary or permanent traffic paint,
358		thermoplastic extrusion pavement marking, or preformed pavement marking
359		tape; and making changes in traffic pattern. Dispose of material in
360		accordance with Subsection 201.03(F) - Removal and Disposal of Material.

361	Use one of the following removal methods:
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363	(1) Grinding. Feather edges of grinding to make smooth
364	transition to existing roadway surface. Limit feathering to 3 inches
365	beyond edge of existing striping to be removed. Vary feathered
366	edges to differentiate them from traffic stripes. Coat ground asphalt
367	pavement with rapid-setting slurry.
368	
369	(2) Burning. Burn off existing painted pavement markings using
370	excess oxygen method.
371	
372	(3) Sandblasting. As work progresses, immediately remove sand
373	and other material deposited on pavement.
374	•
375	(4) Other. Remove preformed pavement marking tape by
376	methods recommended by manufacturers. Eradication of existing
377	markings by painting over them will not be allowed.
378	manual go by painting over the same
379	629.04 Measurement.
380	029.04 Wedsuichend
	The Engineer will measure for removing and disposing of pavement striping
381	per linear foot.
382	per inteat toot.
383	The Engineer will measure for removing and disposing of crosswalk and yield
384	
385	line markings per lane.
386	The Engineer will measure for removing and disposing of pavement markers,
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388	pavement word, and pavement arrow per each.
389	The Engineer will measure establishing control points and layout for
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391	pavement marking per linear foot.
392	The French against a second for furnishing and installing payement striping per
393	The Engineer will measure for furnishing and installing pavement striping per
394	linear foot.
395	The state of the s
396	The Engineer will measure for furnishing and installing crosswalk and yield
397	line markings per lane.
398	
399	The Engineer will measure for furnishing and installing pavement arrow,
400	pavement word, and pavement markers per each.
401	
402	629.05 Payment.
403	
404	The Engineer will pay for establishing control points and laying out for
405	pavement marking on new pavement surfaces at the contract unit price per linear
406	foot. The price includes full compensation for establishing control points, laying out
407	and furnishing labor, materials, equipment, tools, and incidentals necessary to

complete the work.

 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.

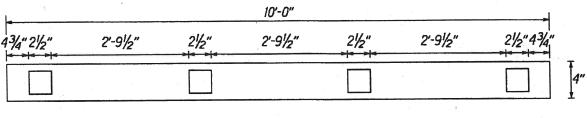
The Engineer will pay for the accepted pavement markers including adhesives at the contract unit price per each. The price includes full compensation for cleaning the existing surface, submitting samples; applying adhesives; furnishing, installing and protecting the pavement markers, and furnishing labor,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

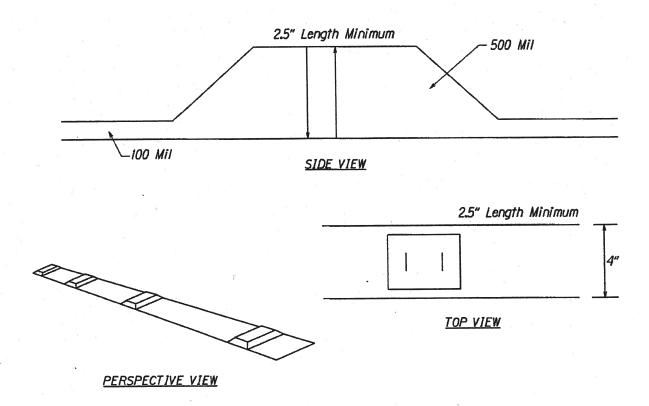
The Engineer will pay for the accepted removal and disposal of existing pavement striping at the contract unit price per linear foot. The price includes full compensation for removing and disposing the existing pavement striping and furnishing labor, materials, equipment, tools, and incidentals necessary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

455 456	The Engineer will pay for the following pay items when proposal schedule:	included in the
457 458	Pay Item	Pay Unit
459 460	Pavement Marking Layout for New Pavement	Linear Foot
461 462	Inch Pavement Striping (Thermoplastic Extrusion)	Linear Foot
463 464	Inch Pavement Striping (Thermoplastic Hot Spray)	Linear Foot
465 466	4-Inch Pavement Striping (Profiled Thermoplastic)	Linear Foot
467 468	Crosswalk Marking (Thermoplastic Extrusion)	Lane
469 470	Yield Line (Thermoplastic Extrusion)	Lane
471 472	Pavement Arrow (Thermoplastic Extrusion)	Each
473 474	Pavement Word (Thermoplastic Extrusion)	Each
475 476	Type Pavement Marker	Each
477 478	Removing and Disposing	Linear Foot
479 480	Removing and Disposing	Lane
481 482 483	Removing and Disposing	Each"
484 485 486 487 488 489 490	The Engineer will not pay for the temporary pavement delineator posts with reflector markers, Type I Barricades, Type marker lights, and temporary signs separately and will consider the included in the contract prices for the various pavement marking the cost is for the work prescribed in this section and the contract	II Barricades with ne cost of these as contract pay items.
491 492	END OF SECTION 629	



TOP VIEW

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



PROFILED THERMOPLASTIC STRIPING

Not to Scale

HSIP-0300(155) 629-13a ADDENDUM NO. 3 r9/26/18

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
615.0110	16-Inch Milled Rumble Strip, Centerline	250,000	LF	\$	\$
615.1113	12-Inch Milled Rumble Strip, Edgeline	100,000	LF	\$	\$
629.1000	4-Inch Pavement Striping (Thermoplastic Hot Spray)	500,000	LF	\$	\$
629.1010	4-Inch Pavement Striping (Thermoplastic Extrusion)	1,000	LF	\$	\$
629.1013	8-Inch Pavement Striping (Thermoplastic Extrusion)	2,500	LF	\$	\$
629.1016	12-Inch Pavement Striping (Thermoplastic Extrusion)	1,000	LF	\$	\$
629.1018	Double 4-Inch Pavement Striping (Thermoplastic Hot Spray)	250,000	LF	\$	\$
629.1020	Double 4-Inch Pavement Striping (Thermoplastic Extrusion)	250,000	LF	\$	\$
629.1023	4-Inch Pavement Striping (Profiled Thermoplastic)	100	LF	\$	\$
629.1030	Crosswalk Markings (Thermoplastic Extrusion)	50	LN	\$	\$
629.1040	Pavement Arrows (Thermoplastic Extrusion)	50	EA	\$	\$
629.1050	Pavement Words (Thermoplastic Extrusion)	6	EA	\$	\$
629.1060	Yield Line (Thermoplastic Extrusion)	50	LN	\$	\$
629.2010	Type A Pavement Markers	50	EA	\$	\$
629.2011	Type C Pavement Markers	7,500	EA <sup>5</sup>	\$	\$
629.2012	Type D Pavement Markers	7,500	EA	\$	\$
629.2013	Type H Pavement Markers	1,000	EA	\$	\$
629.2014	Type J Pavement Markers	50	EA	\$	\$
629.2020	Removing and Disposing Crosswalk Marking	50	LN	\$	\$

ADDENDUM NO. 3

HSIP-0300(155)

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.2021	Removing and Disposing Yield Line Marking	50	LN	\$	\$
629.2024	Removing and Disposing of Existing Pavement Striping	10,000	LF	\$	\$
629.3000	Pavement Marking Layout for New Pavement	125,000	LF	\$	\$
632.1000	Reflector Marker, Type A Delineator (RM-1)	50	EA	\$	\$
632.1100	Reflector Marker, Type A Delineator (RM-2)	50	EA	\$	\$
632.1200	Reflector Marker, Type A Delineator (RM-3)	50	EA	\$	\$
645.1000	Electronic Message Board (per Day)	1	EA	\$	\$
645.2000	Additional Police Officers, Additional Traffic Control Devices, and Advertisement	FA	FA	FA	\$\$0,000.00
	a. Sum of All Items - Area 1	~			\$
	a. Sum of All Items - Area 1				
NOTE: Bidde	ers must complete all unit prices and amounts. Failure to do so may be	grounds for rejection	on of bids.		,,

ADDENDUM NO. 3 HSIP-0300(155) r9/27/2018 P-9

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
615.0110	16-Inch Milled Rumble Strip, Centerline	250,000	LF	\$	\$
615.1113	12-Inch Milled Rumble Strip, Edgeline	100,000	LF	\$	\$
629.1000	4-Inch Pavement Striping (Thermoplastic Hot Spray)	500,000	LF	\$	\$
629.1010	4-Inch Pavement Striping (Thermoplastic Extrusion)	1,000	LF	\$	\$
629.1013	8-Inch Pavement Striping (Thermoplastic Extrusion)	2,500	LF	\$	\$
629.1016	12-Inch Pavement Striping (Thermoplastic Extrusion)	1,000	LF	\$	\$
629.1018	Double 4-Inch Pavement Striping (Thermoplastic Hot Spray)	250,000	LF	\$	\$
629.1020	Double 4-Inch Pavement Striping (Thermoplastic Extrusion)	250,000	LF	\$	\$
629.1023	4-Inch Pavement Striping (Profiled Thermoplastic)	100	LF	\$	\$
629.1030	Crosswalk Markings (Thermoplastic Extrusion)	50	LN	\$	\$
629.1040	Pavement Arrows (Thermoplastic Extrusion)	50	EA	\$	\$
629.1050	Pavement Words (Thermoplastic Extrusion)	6	EA	\$	\$
629.1060	Yield Line (Thermoplastic Extrusion)	50	LN	\$	\$
629.2010	Type A Pavement Markers	50	EA	\$	\$
629.2011	Type C Pavement Markers	7,500	EA	\$	\$
629.2012	Type D Pavement Markers	7,500	EA	\$	\$
629.2013	Type H Pavement Markers	1,000	EA	\$	\$
629.2014	Type J Pavement Markers	50	EA	\$	\$
629.2020	Removing and Disposing Crosswalk Marking	50	LN	\$	\$

ADDENDUM NO. 3 HSIP-0300(155)

r9/27/2018

P-10

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.2021	Removing and Disposing Yield Line Marking	50	LN	\$	\$
629.2024	Removing and Disposing of Existing Pavement Striping	10,000	LF	\$	\$
629.3000	Pavement Marking Layout for New Pavement	125,000	LF	\$	\$
632.1000	Reflector Marker, Type A Delineator (RM-1)	50	EA	\$	\$
632.1100	Reflector Marker, Type A Delineator (RM-2)	50	EA	\$	\$
632.1200	Reflector Marker, Type A Delineator (RM-3)	50	EA	\$	\$
645.1000	Electronic Message Board (per Day)	1	EA	\$	\$
645.2000	Additional Police Officers, Additional Traffic Control Devices, and Advertisement	FA	FA	FA	\$50,000.00
	\$				
NOTE: Bidde	ers must complete all unit prices and amounts. Failure to do so may be g	grounds for rejection	on of bids.		

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
	16-Inch Milled Rumble Strip, Centerline	250,000	LF	\$	\$
615.0110		100,000	LF	\$	\$
615.1113	12-Inch Milled Rumble Strip, Edgeline	500,000	LF	\$	\$
629.1000	4-Inch Pavement Striping (Thermoplastic Hot Spray)		LF	<u></u>	\$
629.1010	4-Inch Pavement Striping (Thermoplastic Extrusion)	1,000		Ψ <u> </u>	
629.1013	8-Inch Pavement Striping (Thermoplastic Extrusion)	2,500	LF	\$	\$
629.1016	12-Inch Pavement Striping (Thermoplastic Extrusion)	1,000	LF	\$	\$
629.1018	Double 4-Inch Pavement Striping (Thermoplastic Hot Spray)	250,000	LF	\$	\$
629.1020	Double 4-Inch Pavement Striping (Thermoplastic Extrusion)	250,000	LF	\$	\$
629.1023	4-Inch Pavement Striping (Profiled Thermoplastic)	100	LF	\$	\$
629.1030	Crosswalk Markings (Thermoplastic Extrusion)	50	LN	\$	\$
629.1040	Pavement Arrows (Thermoplastic Extrusion)	50	EA	\$	\$
629.1050	Pavement Words (Thermoplastic Extrusion)	6	EA	\$	\$
629.1060	Yield Line (Thermoplastic Extrusion)	50	LN	\$	\$
629.2010	Type A Pavement Markers	50	EA	\$	\$
629.2011	Type C Pavement Markers	7,500	EA	\$	\$
629.2012	Type D Pavement Markers	7,500	EA	\$	\$
629.2013	Type H Pavement Markers	1,000	EA	\$	\$
629.2014	Type J Pavement Markers	50	EA	\$	\$
629.2020	Removing and Disposing Crosswalk Marking	50	LN	\$	\$

ADDENDUM NO. 3

HSIP-0300(155)

r9/27/2018

P-12

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.2021	Removing and Disposing Yield Line Marking	50	LN	\$	\$
629.2024	Removing and Disposing of Existing Pavement Striping	10,000	LF	\$	\$
629.3000	Pavement Marking Layout for New Pavement	125,000	LF	\$	\$
632.1000	Reflector Marker, Type A Delineator (RM-1)	50	EA	\$	\$
632.1100	Reflector Marker, Type A Delineator (RM-2)	50	EA	\$	\$
632.1200	Reflector Marker, Type A Delineator (RM-3)	50	EA	\$	\$
645.1000	Electronic Message Board (per Day)	1	EA	\$	\$
645.2000	Additional Police Officers, Additional Traffic Control Devices, and Advertisement	FA	FA	FA	\$50,000.00
	\$				
NOTE: Bidde	ers must complete all unit prices and amounts. Failure to do so may be g	grounds for rejection	on of bids.		

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
615.0110	16-Inch Milled Rumble Strip, Centerline	250,000	LF	\$	\$
615.1113	12-Inch Milled Rumble Strip, Edgeline	100,000	LF	\$	\$
629.1000	4-Inch Pavement Striping (Thermoplastic Hot Spray)	500,000	LF	\$	\$
629.1010	4-Inch Pavement Striping (Thermoplastic Extrusion)	1,000	LF	\$	\$
629.1013	8-Inch Pavement Striping (Thermoplastic Extrusion)	2,500	LF	\$	\$
629.1016	12-Inch Pavement Striping (Thermoplastic Extrusion)	1,000	LF	\$	\$
629.1018	Double 4-Inch Pavement Striping (Thermoplastic Hot Spray)	250,000	LF	\$	\$
629.1020	Double 4-Inch Pavement Striping (Thermoplastic Extrusion)	250,000	LF	\$	\$
629.1023	4-Inch Pavement Striping (Profiled Thermoplastic)	100	LF	\$	\$
629.1030	Crosswalk Markings (Thermoplastic Extrusion)	50	LN	\$	\$
629.1040	Pavement Arrows (Thermoplastic Extrusion)	50	EA	\$	\$
629.1050	Pavement Words (Thermoplastic Extrusion)	6	· EA	\$	\$
629.1060	Yield Line (Thermoplastic Extrusion)	50	LN	\$	\$
629.2010	Type A Pavement Markers	50	EA	\$	\$
629.2011	Type C Pavement Markers	7,500	EA	\$	\$
629.2012	Type D Pavement Markers	7,500	EA	\$	\$
629.2013	Type H Pavement Markers	1,000	EA	\$	\$
629.2014	Type J Pavement Markers	50	EA	\$	\$
629.2020	Removing and Disposing Crosswalk Marking	50 <sup>-</sup>	LN	\$	\$

ADDENDUM NO. 3

HSIP-0300(155)

r9/27/2018

P-14

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.2021	Removing and Disposing Yield Line Marking	50	LN	\$	\$
629.2024	Removing and Disposing of Existing Pavement Striping	10,000	LF	\$	\$
629.3000	Pavement Marking Layout for New Pavement	125,000	LF	\$	\$
632.1000	Reflector Marker, Type A Delineator (RM-1)	50	EA	\$	\$
632.1100	Reflector Marker, Type A Delineator (RM-2)	50	EA	\$	\$
632.1200	Reflector Marker, Type A Delineator (RM-3)	50	EA	\$	\$
645.1000	Electronic Message Board (per Day)	1	EA	\$	\$
645.2000	Additional Police Officers, Additional Traffic Control Devices, and Advertisement	FA	FA	FA	\$\$
	\$				
NOTE: Bidde	ers must complete all unit prices and amounts. Failure to do so may be	grounds for rejection	on of bids.		

ADDENDUM NO. 3 HSIP-0300(155) r9/27/2018 P-15

#### PROPOSAL SCHEDULE - SUMMARY

	ITEM DESCRIPTION		8		AMOUNT
		υ.			
	TOTAL OF ALL ITEMS - AREA 1	~	×	-	\$
					<b>.</b>
	TOTAL OF ALL ITEMS - AREA 2				
	TOTAL OF ALL ITEMS - AREA 3		*		\$
	TOTAL OF ALL ITEMS - AREA 4				\$
,					
,			,		-
			,		1