

SECTION 629 - PAVEMENT MARKINGS

Make the following amendments to said Section:

(I) Amend **Subsection 629.03(B) – Temporary Pavement Markings** by revising the third paragraph from line 62 to 63 to read:

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

(II) Amend **Table 629.03 – 1 – Temporary Pavement Markings** to read as follows:

“TABLE 629.03-1 TEMPORARY PAVEMENT MARKINGS	
TYPE	PAVEMENT MARKINGS
Passing Permitted - Both Sides	Single 4-inch yellow stripe 5 feet in length spaced 20 feet on center with Type D markers spaced 40 feet on center and located on center of 5-foot length of stripe.
Passing Prohibited - Both Sides	Double solid 4-inch yellow stripes with Type D markers placed 20 feet on center on one of 4-inch yellow stripes selected by the Engineer.
Passing Permitted - One Side Only	Single continuous 4-inch yellow stripe with Type D markers placed on stripe 20 feet on center on no-passing side and single 4-inch yellow stripes 5 feet in length spaced 20 feet on center on passing side.
Lane Lines - Lane Changing Permitted	Single 4-inch yellow or white stripe 5 feet in length spaced 20 feet on center with Type C or Type D markers spaced 40 feet on center.
Lane Lines - Lane Changing Prohibited	Double solid 4-inch white stripes with Type C markers placed 20 feet on center on one of the 4-inch white stripes selected by the Engineer.
Crosswalk	Two 12-inch white transverse lines spaced 8 feet on center or as ordered by the Engineer.
Stop Line	Single 12-inch white transverse line.
Note: Paint may be used for temporary markings in areas where final paving is not complete.”	

(III) Amend **Subsection 629.03(C) – Permanent Pavement Markings** by adding the following after line 267:

19 **“(5) Thermoplastic Hot Spray Pavement Marking.**
20

21 **(a) Equipment.** Use equipment constructed for preparation
22 and application of thermoplastic hot spray pavement marking.
23

24 Equipment shall provide continuous mixing and agitation of
25 material. Conveying parts of equipment shall be constructed to
26 prevent accumulation and clogging.
27

28 Use applicator capable of containing minimum of 125
29 pounds of molten material.
30

31 Provide kettle for melting and heating composition. Equip
32 kettle with automatic thermostat control device so that heating can
33 be done by controlled heat transfer liquid rather than direct flame.
34

35 Equip and arrange applicator and kettle in accordance with
36 National Fire Underwriters requirements.
37

38 Mixing and conveying parts, including the spray gun, shall
39 maintain material at molten temperature.
40

41 Apply beads to entire surface of completed stripe by
42 automatic bead dispenser attached to hot spray applicator.
43

44 Equip bead dispenser with automatic cutoff control
45 synchronized with cutoff of thermoplastic material.
46

47 Use equipment that provides for varying spray widths to
48 produce varying widths of traffic markings.
49

50 Use mobile and maneuverable applicator that is capable of
51 following straight lines and making curves in true arcs.
52

53 **(b) Application.** Clean off dirt, debris, blaze, paint, tape, and
54 grease. Apply thermoplastic hot spray pavement marking only
55 when pavement surface is dry.
56

57 Use equipment that can apply material in variable widths
58 from 2 inches to 12 inches. Apply material for full width of stripe
59 in one application or pass.
60

61 On concrete pavements, on HMA pavements more than
62 seven days old, and on HMA pavements paved within seven days
63 containing less than 6 percent bituminous asphalt, pre-stripe
64 application area with binder material, primer, or prime seal coat
65 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."

(IV) Amend **629.04 – Measurement** by revising lines 292 to 294 to read as follows:

"629.04 Measurement.

(A) The Engineer will measure thermoplastic and preformed pavement marking tape per linear foot in accordance with the contract documents. The longitudinal pavement markings will be measured per linear foot as a single stripe for the width specified in the contract and in the proposal.

The Engineer will measure the painted stripes that are twelve (12) inches wide or less as a single stripe. The Engineer will measure the painted stripes over twelve (12) inches wide as two (2) stripes. The Engineer will measure the double stripes that are twelve (12) inches or less in total width including the transverse space between the stripes as a single stripe.

The Engineer will measure the transverse markings by the linear foot according to the contract.

The Engineer will not measure temporary pavement markings including flexible delineator posts with reflector markers or Type I Barricades and temporary signs installed for the longitudinal guidance of public traffic over reconstructed areas, cold planed surfaces, newly paved surfaces or other unmarked or scarified areas for payment.

The Engineer will measure the temporary pavement markings and temporary signs installed as ordered by the Engineer for special temporary traffic patterns on a force account basis, if the contract specifies payment in the proposal.

The Contractor shall consider the work required for the removal of pavement markings incidental to the various contract items, except as provided in the proposal or elsewhere in the contract. If the contract

113 stipulates that the Engineer will make payment for the removal of
114 pavement markings, the Engineer will measure the removal of
115 pavement markings.

116
117 The Engineer will measure the longitudinal pavement markings by
118 the linear foot according to the contract. Longitudinal gaps for skip
119 striping will not be included in the measurement.

120
121 The Engineer will measure pavement arrow and pavement word
122 per each in accordance with the contract documents.

123
124 The Engineer will measure crosswalk marking and yield line per
125 lane in accordance with the contract documents.

126
127 The Engineer will measure raised crosswalk marking per each in
128 accordance with the contract documents.

129
130 (B) The Engineer will measure the pavement markers per each for the
131 types shown in the proposal.

132
133 (C) The Engineer will measure ADA-warning pavement marker per each
134 in accordance with the contract documents."

135
136 (IV) Amend **629.05 – Payment** by revising lines 296 to 330 to read as follows:

137
138 **"629.05 Payment.**

139
140 (A) The Engineer will pay for thermoplastic and preformed pavement
141 marking tape at the contract price per linear foot basis according to the
142 contract, complete in place, including primers.

143
144 The Engineer will pay for double four (4) inch striping with a four (4)
145 inch space between stripes at the contract price per linear foot basis
146 according to the contract.

147
148 The Engineer will pay for pavement arrows (single and multiple
149 heads) and words at the contract price per each according to the
150 contract.

151
152 The Engineer will pay for crosswalk markings and yield lines per
153 lane in accordance with the contract documents.

154
155 The Engineer will pay for raised crosswalk markings per each in
156 accordance with the contract documents.

157
158 The contract unit price paid shall be full compensation for furnishing
159 labors, materials, tools, equipment and incidentals and for doing the

work involved in furnishing and installing pavement markings complete in place according to the contract.

The Engineer will not pay for the temporary pavement markings including flexible delineator posts with reflector markers or Type I Barricades and temporary signs installed for the longitudinal guidance of public traffic over reconstructed areas, cold planed surfaces, newly paved surfaces or other unmarked or scarified areas for payment if not shown in the proposal separately. The Engineer will consider them incidental to the various contract items.

If the contract specifies payment for temporary pavement markings installed as ordered by the Engineer for special temporary traffic patterns, the Engineer will pay from an allowance for "Temporary Construction Zone Markings".

The Engineer will compute the actual amount paid to the Contractor for force account work according to Subsection 109.06 – Force Account Provisions and Compensation.

If the contract specifies payment for removal of pavement markings under unit price pay items, the Engineer will pay for the accepted quantities at the contract unit prices bid. The prices shall be full compensation for removing such items according to the contract.

(B) The Engineer will pay for the various types of pavement markers at the contract price per each according to the contract, complete in place, including adhesives.

(C) The Engineer will pay for painted pavement striping at the contract price per linear foot according to the contract.

The Engineer will pay for quantities of crosswalk marking at the contract price per lane of traffic marked, according to the contract.

The Engineer will pay for pavement arrows (single or multiple arrow heads), symbols, and words at the contract price per each according to the contract.

(D) The Engineer will pay for ADA-warning pavement marker per each in accordance with the contract documents.

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

Pay Item	Pay Unit
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207	_____ -Inch Pavement Striping (Tape, Type _____ or	Linear Foot
208	Thermoplastic Extrusion)	
209		
210	Type _____ Pavement Marker	Each
211		
212	Pavement Word (Tape, Type _____ or Thermoplastic Extrusion)	Each
213		
214	Pavement Arrow (Tape, Type _____ or Thermoplastic Extrusion)	Each
215		
216	Crosswalk Marking (Tape, Type _____ or Thermoplastic Extrusion)	Lane
217		
218	Raised Crosswalk Marking (Tape, Type _____ or Thermoplastic	Each
219	Extrusion)	
220		
221	Yield Line (Tape, Type _____ or Thermoplastic Extrusion)	Lane
222		
223	ADA-Warning System Pavement Marker	Each"
224		
225		
226	END OF SECTION 629	
227		