

005.0011 .

For purposes of resolving discrepancies in the contract documents, the changes listed below shall be considered as information provided in the Proposal Form with regards to Article 1105.04 of the Standard Specifications.

*** REVISIONS TO THE STANDARD SPECIFICATIONS ***

To Section 2527, Pavement Marking, the following Waterborne Pavement Marking Shortfall Mitigation Measures shall apply:

1. Design Mitigation Measures:

. A. For lane lines and centerlines on lower lifts of HMA, the use of
. FHWA MUTCD acceptable temporary markings in a 2 foot dash, 38
. foot skip pattern will be allowed for painted lines. This still
. keeps a normal 40 feet skip/dash spacing overall.

. B. Edge lines on all roadways are not required on lower lifts of
. HMA; except for curves with a radius of 1000 feet or less and
. within 300 feet of bridges or other shoulder obstacles that
. create less than normal shoulder widths.

. C. For lower lifts of HMA, DO NOT PASS (R4-1) and PASS WITH CARE
. (R4-2) signs may be used instead of no passing lines for up to 3
. calendar days.

. NOTE: All pavement markings placed on the final surface of HMA and
. PCC pavements shall be placed according to the original design
. plans. Temporary pavement marking measures are allowed to be in
. place no more than 2 weeks on a final surface per Part 6F.72 of the
. MUTCD.

2. Pavement Marking Material Mitigation Measures:

. A. For center line or lane line painted dashes; 3 raised pavement
. markers (RPMS) per specification article 2527.02.D.5 or temporary
. raised pavement markers (TRPMS) evenly spaced at 5 feet centers
. may be substituted for the 10 foot dash. 2 raised pavement
. markers or temporary raised pavement markers spaced on 2 feet
. centers may be used to substitute for the 2 dash lane stated in
. 1.A above.

. RPMS or TRPMS shall not be used for pavement markings placed on
. final surfaces of HMA and PCC pavement as a permanent marking.
. RPMS or TRPMS shall be removed on lower lifts before additional
. upper lifts are placed.

. TRPMS are currently not included in the Iowa DOT specifications.
. Specifications for these and an approved materials list can be
. found at the end of this proposal note.

. B. For no passing lines or other longitudinal lines, RPMS or TRPMS
. spaced at 10 feet centers may be substituted on lower lifts of
. HMA pavements. RPMS or TRPMS shall be removed on lower lifts
. before additional upper lifts are placed. RPMS or TRPMS shall
. not be used for pavement markings placed on final surfaces of HMA
. and PCC pavement as a permanent marking.

. C. Removable marking tape per specification Article 2527.02.D.1 may
. be substituted for any pavement markings on lower lifts of HMA
. pavements, but shall not be used for pavement markings on final

. surfaces of HMA or PCC pavements as a permanent marking. The use
. of removable marking tape is currently allowed in the Standard
. Specifications for these instances and is required for all
. temporary pavement markings which extend diagonally across a
. final traffic lane.

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. D. The use of other State or Federal Governmental Agency approved
. waterborne pavement marking formations is acceptable as an
. alternate for both temporary and permanent pavement markings as
. long as adequate documentation on their approval is provided.

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. E. The use of solvent based VOC compliant pavement markings (both
. Iowa and other State or Federal Governmental Agency approved) is
. acceptable as an alternate for both temporary and permanent
. pavement markings as long as adequate documentation on their
. approval is provided.

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. F. METHOD OF MEASUREMENT, replace Article 2527.04,B with the
. following:

. The Engineer will measure the number of stations (meters),
. based on a single 4-inch (100 mm) width, of painted, taped,
. and/or removed line. The use of RPMs and TRPMs according to
. 2.A. and 2.B. above will be considered to be painted pavement
. markings. The length of each type of markings will be
. determined using beginning and ending points, and adjusting for
. breaks at side roads, median crossings, station equations, or
. other locations shown in the contract documents. No passing
. line locations signed according to 1.C. above will be
. considered as having painted pavement markings applied and will
. be measured. No additional measurement will be done in the
. signed no passing line locations even if the Contractor also
. voluntarily or is required to apply painted pavement markings
. (or RPMs or TRPMs applied according to 2.B. above).

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. The measurement for dashed and dotted lines will be adjusted to
. exclude skips, with the following exception:

. Temporary markings for lane lines and centerlines on lower
. lifts of HMA utilizing the 2 foot dash, 38 foot skip pattern
. (40 feet skip/dash) according to 1.A. above will be measured
. as a 10 foot dash, 30 foot skip pattern (40 feet skip/dash).

. Note: The net results are the normal 0.25 quantity factor.

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. Measurement of lines wider than 4 1/2 inches (115 mm) will be
. adjusted by the quantity factor to a 4 inch (100 mm) line.

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Temporary Raised Pavement Markers (TRPM)

Markers shall consist of an L-shaped flexible polymer body with
prismatic reflective tape on both faces of the vertical section. The
prismatic reflective faces shall be a minimum of 0.38 square inches
(0.0002 m2) for each face. The marker base shall have affixed a
pressure-sensitive adhesive, protected by a release paper, for
application to the pavement surface. Temporary raised pavement
markers shall be removed on lower lifts before additional upper lifts
are placed.

Approved Products:
Company Product Name/Number

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Apex Universal
11033 Forest Place
Santa Fe Springs, CA 90670

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Type 932
Yellow or White

Pexco (Davidson Plastics)
3110 70th Avenue East
Tacoma, WA 98424

Temporary Overlay Markers (TOM)
Yellow or White

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