ESTIMATES BULLETIN 12-10

DATE: September 18, 2012

TO: District Estimates Coordinators; District Design Engineers

FROM: Phillip Greg Davis, State Estimates Engineer

COPIES TO: Duane Brautigam, Robert Robertson, David Sadler, Tim Lattner, Stefanie Maxwell, Chester Henson

SUBJECT: Thermoplastic on Open Graded Asphalt Surfaces

ISSUE BACKGROUND: When thermoplastic is applied to new open graded asphalt surfaces, the quantity of material required is greater than when applied to dense graded asphalt and concrete surfaces. For open graded asphalt surfaces, additional thermoplastic material is needed to fill small voids in the asphalt before the required thickness can be achieved. It is important to obtain the required thickness above the pavement surface in order to have enough thermoplastic material to ensure bead embedment, which attributes to the durability of the material.

On definite quantity construction contracts in the past, the contractor was able to adjust the bid price based on the proposed asphalt friction surface. However, with pavement markings applied under a district-wide indefinite quantity contract (Maintenance or Construction funds), both types of pavement may be encountered. Currently, the contractors have to bid the risk of which pavement surface is most likely to occur. Contractors have requested separate payment for both pavement surfaces so that a practical bid can be submitted.

To meet the requests of the contractors and to be consistent, we have separated the payment for the longitudinal thermoplastic pavement markings for both definite and indefinite quantity contracts. The Department will benefit from bid prices that more accurately reflect the different marking costs.

IMPLEMENTATION:

Design-Bid-Build Construction contracts: choose either method through June 2013. DO NOT MIX pay item methods. Update plans and summary of quantities as needed. For projects with open graded asphalt, the separate payment method is recommended as soon as possible, without causing interruptions to production.

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**Maintenance Contracts:** choose either method through June 2013, based on the location(s) affected. **DO NOT MIX pay item methods.** The separate payment method is recommended as soon as possible for contracts with open graded asphalt surfaces.

<table>
<thead>
<tr>
<th>Current Payment Method</th>
<th>Separate Payment Method</th>
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<tbody>
<tr>
<td>May be used through June 2013</td>
<td>May begin immediately. Required for projects let July 2013 and later.</td>
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<tr>
<td>No distinction in payment is made between open graded asphalt and dense graded asphalt surfaces or concrete surfaces.</td>
<td>6 and 8&quot; stripes (longitudinal stripes) have separate pay items for open graded asphalt surfaces and other surfaces (dense graded asphalt or concrete surfaces). <strong>DO NOT USE A=1 for longitudinal lines on contracts with either A=5 or 6.</strong></td>
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**711-1A-BCD THERMOPLASTIC PAVEMENT MARKINGS**
A=Class 1 (Standard) 2 (Refurbishment) 3 (Hot Spray) 4 (Preformed) 7 (Remove) SF, BCD=blank. **NOT FOR MOT marking removal; see details above.**

No changes to the BCD variables

**Update Pay Items:** The *Basis of Estimates Manual* has been updated to reflect the above changes.

The following pay items are valid through June 30, 2013:

711-11-111 Thermoplastic, Standard, White, Solid, 6" NM 711-11-112 Thermoplastic, Standard, White, Solid, 8" NM 711-11-131 Thermoplastic, Standard, White, Skip, 6", 10-30 Skip or 3-9 Lane Drop, GM 711-11-133 Thermoplastic, Standard, White, Skip, 12"- Approach to Toll Plaza or 3-9 Lane Drop GM 711-11-211 Thermoplastic, Standard, Yellow, Solid, 6" NM 711-11-212 Thermoplastic, Standard, Yellow, Solid, 8" NM 711-11-231 Thermoplastic, Standard, Yellow, Skip, 6" GM

The following pay items are now available:

711-15-211  Thermoplastic, Standard- Open Graded Asphalt Surfaces, Yellow, Solid, 6"  NM
711-15-212  Thermoplastic, Standard- Open Graded Asphalt Surfaces, Yellow, Solid, 8"  NM
711-15-231  Thermoplastic, Standard- Open Graded Asphalt Surfaces, Yellow, Skip, 6"  GM
711-16-111  Thermoplastic, Standard- Other Surfaces, White, Solid, 6"  NM
711-16-112  Thermoplastic, Standard- Other Surfaces, White, Solid, 8"  NM
711-16-131  Thermoplastic, Standard- Other Surfaces, White, Skip, 6", 10-30 Skip or 3-9 Lane Drop  GM
711-16-133  Thermoplastic, Standard- Other Surfaces, White, Skip, 12 Approach to Toll Plaza or 3-9 Lane Drop  GM
711-16-211  Thermoplastic, Standard- Other Surfaces, Yellow, SOLID, 6"  NM
711-16-212  Thermoplastic, Standard- Other Surfaces, Yellow, SOLID, 8"  NM
711-16-231  Thermoplastic, Standard- Other Surfaces, Yellow, Skip, 6"  GM

**Update Plans and Pay Item Notes:** For applicable projects, update the Pavement Marking tabulation sheet and Proposal Summary of Quantities (Transport report) in the plans.

**Specifications:** No specification changes needed.

If you have any questions regarding the above items, please contact Melissa Hollis 850-414-4182.