Section 465  Asphaltic Surface

465.1 Description

(1) This section describes constructing asphaltic surface for new construction including pavement, safety islands, curb, rumble strip, and flumes. This section also describes using asphaltic surface for patching, detours, and temporary construction. The department will designate work under the bid items in this section only if the QMP provisions specified for HMA pavements under 460 are not required.

465.2 Materials

(1) Under the Asphaltic Surface, Asphaltic Surface Detours, and Asphaltic Surface Patching bid items; submit a mix design. Furnish asphaltic mixture meeting the requirements specified for either type LT or MT mix under 460.2; except the engineer will not require the contractor to conform to the quality management program specified under 460.2.8.

(2) Under the other 465 bid items, the contractor need not submit a mix design. Furnish aggregates mixed with a type AC asphaltic material. Use coarse and fine mineral aggregates uniformly coated and mixed with the asphaltic material in an engineer-approved mixing plant. The contractor may include reclaimed asphaltic pavement materials in the mixture.

465.3 Construction

465.3.1 General

(1) Prepare the foundation as specified for asphaltic surfacing in 211.

(2) Place using engineer-approved machine methods wherever practicable. Except for the surfacing bid items, the contractor may place material by engineer-approved hand methods. Regardless of the placement technique, spread and shape the material to the required contour without segregation.

(3) Immediately after placement, compact the mixture to produce a dense smooth surface using ordinary compaction procedures as specified in 450.3.2.6 except as follows:

- Compact safety islands as the engineer directs.
- Compact flumes using compactors, tampers, or rollers.
- Compact curb as specified in 465.3.2.

(4) Ensure that the finished surface is smooth and contoured as the plans show or engineer directs.

(5) Under the Asphaltic Surface, Asphaltic Surface Detours, and Asphaltic Surface Temporary bid items; straightedge the surface. Provide a finished surface with no variation greater than 1/4 inch in 10 feet. Remove and replace out-of-tolerance material or correct the surface using engineer-approved methods.

465.3.2 Asphaltic Curb

(1) Construct asphaltic curb in one layer on a prepared asphaltic pavement or base foundation. Clean the pavement surface area the curb will occupy to ensure a good bond. Apply a tack coat to the area as the engineer directs.

(2) The contractor may place the curb by one of the following methods:

- With an engineer-approved curb laying machine that places and compacts the mixture and finishes the curb to the required shape, grade, and dimensions.
- In forms fabricated to the curb shape. Place and thoroughly compact the mixture with vibratory compactors or mechanical tampers and screed to a smooth finish.
- For small quantities, by hand placing and shaping. Form the back of the curb. Place, tamp, and shape with hand tools. Provide a smooth-finished surface on the curb face and top.

465.3.3 Rumble Strips

(1) Construct asphaltic rumble strips by milling the asphaltic surface. Use a rotary head milling machine with a cutting tip pattern that will produce a relatively smooth cut of the size, shape, spacing, and smoothness the plans show. Cutting heads shall be on a suspension independent from the power unit to allow the heads to self-align with slopes and irregularities. The machine shall have a guidance system that consistently provides the plan alignment of the rumble strips.

(2) Before beginning the work, demonstrate to the engineer that the operation achieves the desired surface inside each depression without tearing or snagging the asphaltic pavement or surfacing. Place rumble strips in the pattern and shape the plans show. For shoulders carrying temporary traffic during construction, do not install rumble strips until after routing traffic back to the mainline.

(3) At the end of each work day, move equipment and material out of the clear zone and sweep or vacuum the traveled way pavement and shoulder areas. Sweep away or vacuum up milling debris.
before opening adjacent lanes to traffic. Dispose of waste material as specified in 203.3.4; do not
place on the finished shoulder surface.

465.3.4 Maintenance

(1) Maintain work done under the Asphaltic Surface Temporary bid item for the time the contract specifies.

465.4 Measurement

(1) The department will measure the Asphaltic Surface bid items by the ton acceptably completed using
the methods specified in 450.4. The department will not measure asphaltic materials separately.
(2) The department will measure Asphaltic Curb by the linear foot acceptably completed, measured along
the base of the curb face.
(3) The department will measure Asphaltic Flumes and Asphaltic Intersection Rumble Strips by the
square yard acceptably completed.
(4) The department will measure the Asphaltic Shoulder Rumble Strips bid items and Asphaltic Centerline
Rumble Strips 2-Lane Rural by the linear foot acceptably completed, measured as the length along
each side of the traveled way, from the center of the first groove in a segment to the center of the last
groove in that segment. A segment is a series of grooves including 50-foot and shorter gaps as well as
skips the plans show. Gaps greater than 50 feet define a new segment. The department will deduct for
skips greater than the plans show.

465.5 Payment

(1) The department will pay for measured quantities at the contract unit price under the following bid
items:

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
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<tr>
<td>465.0105</td>
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<tr>
<td>465.0110</td>
<td>Asphaltic Surface Patching</td>
<td>TON</td>
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<td>465.0115</td>
<td>Asphaltic Surface Detours</td>
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<td>465.0475</td>
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(2) Payment for the Asphaltic Surface bid items is full compensation for submitting an asphaltic mixture
design; for preparing the foundation; for providing the asphaltic mixture, including asphaltic material
and reclaimed asphaltic pavement materials; and for compacting the mixture.
(3) Payment for Asphaltic Surface Temporary is also full compensation for maintenance during the time
the contract specifies.
(4) Payment for Asphaltic Curb is full compensation for providing the asphaltic mixture, including asphaltic
material and reclaimed asphaltic pavement materials; for compacting the mixture; and for forming the
curb.
(5) Payment for Asphaltic Flumes is full compensation for preparing the foundation; for providing the
asphaltic mixture, including asphaltic material and reclaimed asphaltic pavement materials; and for
compacting the mixture.
(6) Payment for the Asphaltic Shoulder Rumble Strips bid items, Asphaltic Centerline Rumble Strips 2-
Lane Rural, and Asphaltic Intersection Rumble Strips is full compensation for milling; for sweeping or
vacuuming; and for disposing of waste.