

Subsection 4.14 Planing and Texturing Pavement

I. Scope: This item includes planning and texturing existing asphaltic concrete pavement, asphalt-stabilized base, or concrete pavement for the depths indicated on the plans and stockpiling of the scarified materials at the designated locations.

II. Materials

A. Water: Water usage shall conform to Subsection 3.04 "Requirements for Water Usage."

III. Equipment

A. Planing Machine. Use a planning machine that:

1. Have a minimum 6 foot cutting width except for areas less than 6 foot wide;
2. Is self-propelled with enough power, traction, and stability to maintain an accurate depth of cut and slope;
3. Can cut one continuous operation: 4 inches of asphalt concrete pavement, 1 inch of concrete pavement, or a combination of 2 inches of asphalt concrete pavement and ½ inch of concrete pavement;
4. Use dual longitudinal controls capable of operating on both sides automatically from any longitudinal grade reference, which includes string line, ski, mobile string line, or matching shoe;
5. Use transverse controls with an automatic system to control cross slope at any given rate;
6. Use integral loading and reclaiming devices to allow cutting, removal, and discharge of the material into a truck in one operation; and
7. Includes devices to control dust created by the cutting action.
8. Use a manual system providing for uniformly varying the depth of cut while the machine is in motion thereby making it possible to cut flush to all inlets, manholes, or other obstructions within the paved area.

B. Sweeper. Use street sweeper to remove cuttings and debris from the planed or textured pavement unless otherwise directed. Equip the sweeper with a water tank, dust control spray assembly, both a pick-up and a gutter broom, and a debris

hopper.

C. Stockpiling Equipment. Provide trucks to haul cuttings to designated stockpile site. Provide a loader to stockpile material as directed.

IV. Construction Methods

The pavement surface shall be removed to the depth, width, grade and cross section as required.

The pavement planing operation shall be referenced from an independent grade control in areas deemed appropriate by the Engineer. For this operation, the independent grade control shall be established and maintained by the Contractor in an acceptable manner and the final position of same shall be acceptable to the Engineer.

If the entire pavement width or traveled lane width along a section of street has not been planed to a flush surface by the end of a work period resulting in a vertical or near vertical longitudinal face exceeding 1-1/4 inches in height, this longitudinal face shall be sloped to not create a hazard to traffic. Transverse faces that are present at the end of a working period will be tapered to avoid creating a hazard for traffic.

The cuttings or loose material resulting from the planing operation shall remain the property of the City and the Contractor shall stockpile the material at designated locations. Salvaged material shall be kept as free as possible from contamination by non-asphaltic materials during its removal, transportation, and storage. Placement methods at stockpiles shall be approved by the Project Representative. Salvaged asphaltic paving materials of differing type or quality may require separate stockpiling.

When located within 4 inches of steep curbs, asphaltic concrete and/or asphalt-stabilized base that cannot be removed by the planing machine shall be removed by other acceptable methods and the pavement and curb surfaces shall be cleaned of all debris and left in a neat and presentable condition.

In planed areas where traffic is permitted, "Grooved Pavement Ahead" signs shall be erected at an appropriate distance ahead of the planed areas and at a maximum spacing of 1/2 mile within the planed area. Signs shall be erected prior to planing in the areas and shall be maintained in place until the planed area is overlaid. Signs shall be in accordance with the "Texas Manual on Uniform Traffic Control Devices for Streets and Highways" and "Standard Highway Sign Designs for Texas." After planed areas are overlaid, the Contractor shall remove these signs.

In areas where traffic is permitted, a texture shall be produced which shall be a grid pattern with uniform discontinuous longitudinal striations, or any other pattern with discontinuous longitudinal striations that provide a satisfactory riding surface. Planing machine shall travel at a speed that creates a consistent pattern.

Unless otherwise directed, the grade reference used by the Contractor may be of any approved type. Control points, when applicable, will be established for the finished grade by the Engineer. These points will be set at intervals not to exceed 50 feet. The Contractor shall

set the grade reference for the sensor of the automatic control to follow from the control points established by the Engineer. This grade reference shall have sufficient support so that the maximum deflection shall not exceed 1/16 inch per 25 feet.

The surface of the pavement after planing shall be smooth and true to the established line, grade and cross section. When tested with a 10 foot straightedge placed parallel to the centerline of the roadway or tested by other equivalent or acceptable means, the maximum deviation shall not exceed 1/8 inch in 10 feet. Any point in the surface not meeting this requirement shall be corrected.

V. Measurement

Work prescribed by this subsection will be measured by the square yard of surface area for the various depths shown on the plans or as described in the proposal. Measurement will be based on the depth shown for each bid item, within the limits shown on the plans, regardless of the actual thickness removed or the number of passes required. Only one bid item will be applicable to any one location. Square yard calculations will be based on the neat dimensions shown on the plans. Measurement will be made only one time for each depth regardless of the number of passes required to be made by the machine in order to secure the depth desired. Tapering or sloping of longitudinal or transverse joints (faces) as described under "Construction Methods" will not be measured for payment.

VI. Payment

The work performed as prescribed by this subsection, measured as provided under "Measurement" will be paid for at the unit price bid per square yard for "Planing and Texturing Pavement" of the various depths shown on the plans, which price shall be full compensation for removing all materials to the depth shown, loading, hauling, unloading, and satisfactorily stockpiling of the material and for all signs and sign removal, labor, tools, equipment, manipulation and incidentals to complete the work.

LAST PAGE OF THIS SUBSECTION