

SECTION 025402
PLANING ASPHALTIC SURFACES (S-27A)

1. DESCRIPTION

This specification shall govern all work required for planing an existing asphaltic concrete pavement required to complete the project.

2. EQUIPMENT

Planer shall be a self propelled planing machine capable of removing, in one pass, a.c. surface to any required thickness less than 9 inches, in a minimum of 6-foot width. The planer shall be capable of accurately and automatically establishing profile grades along each edge of the machine by referencing from the existing pavement or curb and shall have an automatic system for controlling cross slope.

The machine shall be equipped with an integral loader to remove material being cut from the surface of the roadway and discharge the cuttings into a truck, all in one operation. Adequate back-up equipment (street sweepers, loaders, water trucks, etc.) and personnel will also be provided to minimize dust and remove all cuttings. The planer shall be equipped with means to control dust created by the cutting action and shall have 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.

Any machine that is incapable, in the opinion of the Engineer, of meeting these requirements will not be permitted to be used. Various machines may be permitted to make trial runs to demonstrate to the Engineer the capabilities of that machine.

3. CONSTRUCTION METHODS

The pavement surface shall be removed to the depth, width, grade and cross section as shown on the plans, or as directed by the Engineer.

The Engineer may require that the pavement planing operation be referenced from an independent grade control in those areas where he deems this type of control to be appropriate. For this type of operation, the independent grade control shall be established and maintained by the Contractor in a manner acceptable to the Engineer, and the final position of it shall be acceptable to the Engineer.

In the event the entire pavement 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 extending more than 1.25 inches in height, this longitudinal face shall be sloped in a manner acceptable to the Engineer so as not to create a hazard to traffic. Traverse faces that are present at the end of a work period shall be tapered in a manner approved by the Engineer to avoid creating a hazard for traffic.

Unwanted loose material resulting from the operation shall become property of the Contractor and disposed of by the Contractor in an acceptable manner.

When located adjacent to steep curbs, pavement that cannot be removed by the planing machine shall be removed by other methods acceptable to the Engineer and the pavement and curb surface 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 in advance of the planed areas. Signs shall be erected prior to planing in the areas and shall be maintained in place while 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".

In planed areas where traffic is permitted, a safe and satisfactory riding surface shall exist.

Unless otherwise shown on the plans or directed by the Engineer, the grade reference used by the Contractor may be of a type approved by the Engineer. Control points, if required by the plans or Engineer, 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, and this grade reference shall have sufficient support so that the maximum deflection shall not exceed 1/16 inch per 25 feet.

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

4. MEASUREMENT & PAYMENT

Unless indicated otherwise in the Proposal, Planning Asphalt shall be measured by the square yard of pavement surface area planed. Measurement will be made only one time for an area, regardless of the number of passes required to be made in order to achieve the desired results.

Payment will be made at unit price bid and shall include, but not be limited to, all planing, cleaning, loading, hauling, signs, labor, tools, equipment and incidentals required to complete the work.