

ITEM 04520.5020 M GRINDING CONCRETE SIDEWALK

DESCRIPTION:

This work shall consist of grinding existing Portland cement concrete sidewalk at the locations indicated on the plans. The primary purpose of this effort is to bring all existing sidewalks, which are proposed to remain, in compliance with Americans with Disabilities Act Accessibility Guidelines.

MATERIALS (Equipment):

Grinding shall be done utilizing power driven diamond blades mounted on a self-propelled machine that has been designed for grinding and texturing PC concrete. The machine shall be equipped with a vacuum system that is capable of removing the slurry residue that results from grinding. The machine shall be capable of grinding the surface without causing spalls at cracks, joints or other locations.

CONSTRUCTION DETAILS:

Prior to initiating any work on existing sidewalk joints, the contractor shall review the plans and associated tables and identify all locations which require restoration. Due to the continuing deterioration of the sidewalks, additional locations of joint restoration may be required, as directed by the engineer.

Upon approval of the engineer, the contractor shall grind the displaced joints in accordance with the details in the plans. Grinding shall be accomplished in a manner that eliminates joint and crack faults, while providing positive lateral drainage by maintaining a constant cross-slope. Any damage caused by the contractor's negligence, as determined by the engineer, shall be repaired at no expense to the State.

After grinding, both sides of the joints or cracks shall be substantially in the same plane. A tolerance of no more than 4 mm between adjacent sidewalk planes will be permitted.

The slurry and residue resulting from grinding shall be continuously removed during the grinding operation, leaving the sidewalk in a clean condition. Slurry and residue shall not be permitted to flow onto adjacent private properties or into drainage structures within the project corridor.

With partial grinding, the vacuum system cannot be used to its full potential and remnants shall be immediately removed from the surfaces by means acceptable to the Engineer.

METHOD OF MEASUREMENT:

The quantity will be measured as the number of linear meters of sidewalk joints restored in accordance with the plans and this specification.

BASIS OF PAYMENT:

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The unit bit price per linear meter of concrete grinding shall include the cost of labor, equipment, materials, supplies, tools, water and incidentals necessary to complete the work including removing slurry and residue.