

**ITEM 502.84----25 – PARTIAL DIAMOND GRINDING AND TEXTURING OF CONCRETE PAVEMENT**

**1. DESCRIPTION:**

- 1.01 This work shall consist of diamond grinding and texturing a portion of the surface of Portland cement concrete pavement at the locations indicated on the plans.

**2. MATERIALS (EQUIPMENT):**

- 2.01 Grinding and texturing shall be done utilizing power-driven diamond blades mounted on a self-propelled machine that has been designed for grinding and texturing pavements. The machine shall be equipped with a vacuum system that is capable of removing the slurry residue that results from grinding. With partial grinding, the vacuum system cannot be used to its full potential and remnants of slurry residue may remain after grinding. These remnants shall be immediately removed from the pavement and shoulder surfaces by means acceptable to the Engineer. The machine shall be capable of grinding the surface without causing spalls at cracks, joints, or other locations. The machine shall also be a shape and dimension that does not encroach on traffic outside the work area.

**3. CONSTRUCTION DETAILS:**

- 3.01 The Contractor shall arrange the operation such that successive grinding operations will progress within a time period that will insure the proper maintenance of traffic.
- 3.02 Grinding and texturing shall be performed in a longitudinal direction in the areas designated on the plans. Grinding shall begin and end at lines perpendicular to the pavement centerline. Grinding shall be accomplished in a manner that eliminates joint or crack faults while providing positive lateral drainage by maintaining a constant cross slope between grinding passes. Extra-depth grinding to eliminate minor depressions in order to provide texturing across the entire width of pavement being ground will not be required as directed by the Engineer. "Space cutting" will be permitted. "Space cutting" is defined as a wider spacing of saw blades for an initial pass in deep-grinding areas followed by a final pass. "Space cutting" will be permitted provided results are satisfactory to the Engineer.
- 3.03 After grinding, both sides of joints and/or cracks shall be substantially in the same plane. Misalignment of the planes of the surfaces on adjacent sides of the joint or crack which is in excess of 1/8", when measured with a ten-foot metal straight edge, shall be reground.
- 3.04 The slurry and residue resulting from grinding shall be continuously removed during the grinding operation leaving the pavement in a clean condition. Slurry and residue shall not be permitted to flow into:
- Occupied Travel Lanes
  - Drainage Structures
  - Wetlands, Streams, Estuaries, or Sensitive Environmental Resources Identified in the Contract Documents.
  - Areas where it will become a public nuisance

The Contractor shall dispose of slurry and residue in conformance with all Federal, State, and Local Regulations.

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3.05 Partial-ground surfaces shall be tested with a ten-foot-long metal straight edge held both parallel and transverse to the pavement centerline. Any surface deviations found to be greater than 1/8-inch shall be reground until this tolerance is achieved. These measurements shall be performed by the Contractor, under the direction of the Engineer, with a 10-foot-long metal straight edge provided by the Contractor.

**4. METHOD OF MEASUREMENT**

4.01 Pavement grinding will be measured by the square yard of acceptable finished surface regardless of the number of passes required. The quantity of grinding will be determined by measuring the finished area ground.

**5. BASIS OF PAYMENT**

5.01 The unit bid price per square yard of pavement grinding shall include the cost of furnishing all labor, equipment, materials, supplies, tools, and incidentals necessary to grind and texture the pavement, including removing slurry and residue, and cleaning the pavement and shoulders. No extra payment will be made for Space-cutting.