

**NOTE TO SPEC ENGR.- include quick setting patch material product list from Special Provisions, Section 518.02.A**

## **PARTIAL DEPTH CONCRETE PAVEMENT PATCH**

### **Description.**

This work shall consist of removing loose and/or deteriorated concrete, and/or existing deteriorated patches on the surface of existing portland cement concrete pavement, preparation of the surface, and placing of quick setting patch material, Type IA.

### **Materials.**

Quick setting patch material shall conform to Subsection 518.02.A for Type 1A except that only broken stone, size No. 8 shall be added to increase yield.

### **Construction Requirements.**

Repair areas shall be sawcut to a 25-millimeter depth around the perimeter of each repair area prior to removal of deteriorated concrete.

All loose and disintegrated concrete shall be removed from the areas to be repaired in such a manner and to such an extent as to expose a sound concrete surface. Sound concrete, (beneath the disintegrated concrete) shall be removed for a depth of not less than 6 millimeters and the remainder of the area shall be cleaned and roughened by sandblasting. The work shall be done in such a manner as not to damage the concrete that is to remain.

Only pneumatic or hand tools shall be used in the removal of the disintegrated material and in preparing and shaping the areas to be repaired. The size of the hammers shall not exceed 14 kilograms.

Hand chipping methods shall be used to remove concrete adjacent to exposed reinforcing steel. Care shall be taken so as not to damage or debond the reinforcement steel, or to shatter the concrete beyond the area to be repaired.

Where corroded reinforcing bars are uncovered, those bars shall be cleaned by sandblasting, waterblasting or wire brushing. Where the bond between existing concrete and reinforcing steel has been destroyed, or where the steel is exposed, the concrete adjacent to the bar shall be removed to provide 13-millimeter clearance around the bar.

If, during removal of concrete, it is found that more than the maximum depth of concrete must be removed to uncover sound concrete, the contractor shall cease operations at that patch and notify the engineer. The Engineer may then direct that a full depth concrete pavement repair be constructed.

### **Method of Measurement.**

Partial depth concrete pavement patch will be measured by the square meter of concrete actually placed.

### **Basis of Payment.**

Payment will be made under:

<i>Pay Item</i>	<i>Pay Unit</i>
PARTIAL DEPTH CONCRETE PAVEMENT PATCH	SQUARE METER

Separate payment will not be made for sawcutting or for removal of concrete pavement.