

## 400 FLEXIBLE PAVEMENT

### ITEM 410 - TRAFFIC COMPACTED SURFACE

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**410.01 Description.** This work shall consist of furnishing and placing a wearing course of bank run gravel, crusher run aggregate or graded aggregate on the completed and accepted subgrade or temporary road in reasonably close conformity with the lines, grades and typical cross section specified.

**410.02 Materials.** Material shall be limestone, gravel, slag, Recycled Portland Cement Concrete (RPCC), Reclaimed Asphalt Concrete Pavement (RACP), or Reclaimed Bituminous Aggregate Base (RBAB).

Open hearth and Basic-oxygen steel slag shall conform to stockpiling and aging requirements of 703.01 and come from approved sources on file at the Laboratory.

RPCC, RACP, and RBAB may be used without wear testing if the Contractor provides information proving this material met this specification requirement at the time of original incorporation and proof the material presently meets this specification. The Laboratory may reject any suspect test data and reject any of the above materials because of excessive degradation in the reclaiming of the material.

RPCC, RACP, and RBAB shall come from an approved list on file at the Laboratory. RPCC shall be free of steel.

The gradation and physical characteristics of the material shall be such that it will compact to the satisfaction of the Engineer.

The percentage of wear (stone and gravel) shall not be over 50 percent. Clay shall not exceed 10 percent.

The material shall meet one of the following gradings:

### Total Percent Passing

Sieve	Type A	Type B	Type C
1-1/2 inch (37.5 mm)	100	100	Size
1 inch (25 mm)	90-100	75-100	Nos.
1 inch (19 mm)	60-100	60-100	4 or 57
3/8 inch (9.5 mm)	40-60	35-75	
No. 4 (4.75 mm)	15-25	30-60	

**410.03 Conditioning of the Subgrade.** Wavy and irregular surface shall be eliminated and the subgrade maintained in this condition until the application of material under this item. When the subgrade is soft, due to rains, frost or snow, the Contractor will be permitted to place material only as directed by the Engineer.

**410.04 Spreading and Shaping.** The material shall be uniformly spread by means of an approved spreader box or any other method approved by the Engineer. The amount of material spread shall be the amount shown on the plans or ordered. The material shall then be bladed and shaped to the specified cross section. The material shall be hauled to its place on the road over the previously spread material. The hauling shall be conducted in such a manner that a uniform compaction over the entire width of the surfacing material is obtained. Rolling will not be required.

When the stability of the RACP or RBAB cannot be obtained the Contractor shall perform one of the following at no additional cost to the City:

Apply a 409 seal coat at a rate approved by the Engineer. The Engineer may require a cover aggregate also.

Thoroughly mix the RACP and RBAB with PG64-22 or asphalt emulsion at a rate and by a method approved by the Engineer.

If stability cannot be achieved the Contractor shall remove and replace the material at his own expense.

**410.05 Maintaining.** After the material has been shaped it shall be bladed as directed by the Engineer. The road shall be opened to traffic immediately after all the material has been spread and shaped unless otherwise directed.

All holes, ruts, defects or soft places which occur in the subgrade or surface shall be corrected by adding material and dragging. The surface, slopes, shoulders, ditches and drainage structures shall be maintained until the work embraced in this item has been completed and accepted.

**410.06 Freight Bills, Weights and Yardage.** Bills and volume evidence shall be furnished to accordance with 109.

**410.07 Method of Measurement.** The amount shall be the cubic yards (cubic meters) or the tons (metric tons) of accepted material placed, shaped and maintained as specified.

The cubic yards (cubic meters) of aggregate used shall be measured loose in the vehicle at the point of delivery or calculated by converting weights to cubic yards (cubic meters) in accordance with the following:

<b>Aggregate**</b>	<b>Pounds per Cubic Yard (kg/m<sup>3</sup>)</b>
Gravel, bank run or crusher run	2700 (1600)
Limestone or heavy slag*, crusher run	2500 (1500)
Slag, crusher run	2300 (1350)
Gravel, No. 4 and 57	2500 (1500)
Stone or heavy slag*, No. 4 and 57	2000 (1200)

\* Slag with a dry rodded weight of 90 pounds or more per cubic foot (1,450 kg/m<sup>3</sup>).

\*\*Salvaged material will be classified according to the material which makes up the majority of the mixture. Slag weights will be dependent upon weights obtained from the original source.

**410.08 Basis of Payment.** The accepted quantities of the specified type of traffic compacted aggregate will be paid for at the contract price for:

<b>Item</b>	<b>Unit</b>	<b>Description</b>
410	Cubic Yard (Cubic Meter) or Ton (Metric Ton)	Traffic Compacted Surface, Type A or B
410	Cubic Yard (Cubic Meter) or Ton (Metric Ton)	Traffic Compacted Surface, Type C

