

## SECTION 02233 - AGGREGATE BASE COURSE

### PART 1 - GENERAL

#### 1.1 DESCRIPTION

- A. This work consists of constructing an aggregate base course for roadway, shoulders or driveway entrances in accordance with these specifications, and in reasonably close conformity with the lines, grades, thicknesses and typical sections shown on the plans or established by the engineer.

### PART 2 - PRODUCTS

#### 2.1 MATERIALS

- A. Aggregate base course shall, at the option of the contractor, be crushed stone or crushed concrete.
- B. Materials shall conform to the following:
1. Crushed Stone. Crushed stone shall consist of fragments of hard, durable particles of stone showing an abrasion loss of not more than 40 percent, containing not more than 5 percent soft, friable material, and shall be free from an excess of flat or elongated pieces. When tested by DOTD Designation: TR 113 the material shall meet the following gradation requirements:

U.S. Sieve	Percent Passing (By Weight)
1-1/2"	100
1"	90 - 100
3/4"	50 to 100
No. 4	35 to 65
No. 40	12 to 32
No. 200	5 to 12

2. The material passing the 40 sieve shall conform to the following requirements:

Liquid Limit (Max)	25
Plasticity Index (Max)	6
3. Crushed Concrete. Crushed concrete shall consist of hard, durable, particles reasonably free of reinforcing steel and other deleterious matter, and when tested in accordance with DOTD Designation: TR 113 shall meet the following gradation requirements.

U.S. Sieve	Percent Passing (By Weight)
1 1/2"	100
3/4"	50 to 100
No. 4	35 to 65
No. 40	10 to 32
No. 200	3 to 15

### PART 3 - EXECUTION

#### 3.1 EQUIPMENT

- A. Equipment necessary to produce a finished product, which meets specification requirements, shall be furnished and maintained by the contractor.

#### 3.2 SUBGRADE

- A. The subgrade shall be prepared as provided in SECTION - EXCAVATION AND EMBANKMENT and shall be approved before any base course material is placed.

### 3.3 PLACING MATERIAL

- A. The material shall be deposited directly on the subgrade from vehicles used for hauling or from spreading equipment. No base course shall be placed on a muddy or rutted subgrade.

### 3.4 MIXING

- A. Aggregate base consisting of a combination of materials shall be uniformly mixed prior to placing on the subgrade. The mixed materials shall conform to the requirements specified in Subsection 2 prior to placement on the subgrade.

### 3.5 SHAPING AND COMPACTING

- A. The materials shall be compacted in lifts not exceeding six (6) inches in thickness and shaped by suitable means while being compacted. Any ruts formed shall be filled by blading as often as necessary to prevent breaking through the base course material into the subgrade. Holes, waves and deficiencies in thickness, which may develop and are not filled by blading, shall be filled by adding more material. Shaping and compacting shall continue until the surface reasonably conforms to the cross sections shown on the plans and until it is free from ruts and waves.
- B. The aggregate base shall be compacted by a sheepsfoot roller or other approved equipment, the surface will be wetted as necessary and shaped to the required section and uniformly compacted until a tight, uniform surface is obtained. The aggregate base course shall be compacted to 95% standard proctor ASTM 698, Maximum Density.

### 3.6 DIMENSIONAL TOLERANCES

- A. Areas with thickness and width deficiencies in excess of the following tolerances shall be corrected to plan dimensions by furnishing, placing, shaping and compacting additional materials as required at the contractor's expense.
  - 1. Thickness: Underthickness shall not exceed 3/4 inch. Overthickness will be waived at no additional cost to the Owner.
  - 2. Width: Underwidth on roadways shall not exceed 6 inches. Overwidth will be waived at no additional cost to the Owner.

END OF SECTION 02233