

SECTION 32 11 23
AGGREGATE BASE COURSE

PART 1 GENERAL

1.01 SUMMARY

- A. This section covers the furnishing of all labor, materials, tools, equipment and performances of all work and services necessary or incidental to construct the aggregate base course as indicated on the drawings or as specified herein.
- B. Related Sections:
 - 1. Section 32 12 02 - Flexible Paving (Municipal Projects).

1.02 PRICE AND PAYMENT PROCEDURES

- A. Measurement and Payment
 - 1. Aggregate Base, Class 5 for use in various locations. Measurement will be by the ton of material compacted in place as determined from weight tickets delivered to the Engineer:
 - a. If the aggregate material is being wasted or placed excessively thick, the Owner reserves the right to deduct quantities that are in excess of Drawing thickness. Said quantities shall be based on material weighing 110 pounds per square yard of area per inch of thickness.
 - b. All Class 5 placed under sidewalks and driveways is considered incidental to the driveway or sidewalk item bid
- B. The furnishing and installing of specific items and/or the performance of work under certain circumstances shall not be individually paid. The costs shall be included in the unit price bid for the associated aggregate items. Such items of work include but are not limited to:
 - 1. Protecting existing improvements and previously accepted in-process improvements from damage.
 - 2. Subgrade excavation, furnishing stabilizing aggregate, geotextile fabric installation, compaction, regrading and/or other efforts necessary to repair the subgrade after satisfying the rolling test and failing to protect the integrity of the subgrade.
 - 3. The cost of all labor, equipment and materials necessary for meeting the testing
 - 4. requirements of field quality control, if required, include in price bid for Aggregate Base.
 - 5. Furnishing and installing blue tops for gravel surface.

1.03 REFERENCES

- A. Minnesota Department of Transportation "Standard Specifications for Construction" 2020 Edition (MnDOT Spec.).
 - 1. 2211 - Aggregate Base.

1.04 SUBMITTAL

- A. Submit gradation report on sample of aggregate base to be used.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Aggregate Base: Conform to MnDOT Spec. 3138
- B. When recycled materials are utilized the aggregate base shall consist of no more than 25% crushed concrete by volume. The burden shall be upon the Contractor to verify the proportion of crushed concrete.

PART 3 EXECUTION

3.01 PREPARATION

- A. Prepare the subgrade in accordance with Section 31 23 13.
- B. Subgrade to be completed and approved by the Engineer prior to installation of aggregate base.

3.02 CONSTRUCTION REQUIREMENTS

- A. At the end of each day the Contractor shall eliminate surface indentations, including those caused by sheeps foot rollers and tractor cletes, and roll the surface with a steel wheel or rubber tired roller.
- B. The depth and class of aggregate base to be constructed shall be as shown on the plans.
- C. Aggregate base construction shall take place only after the street subgrade condition and grade has been examined by the Engineer.
- D. All aggregate base shall be compacted to 100% standard Proctor density using the Specified Density Method.
- E. The grade will be toleranced by the Engineer after the Contractor informs the Engineer the grading operations are complete.
 - 1. The Engineer shall have 24-hours or one working day to check the grade prior to placement of additional layers of granular material or bituminous pavement.
 - 2. If scheduling or site conditions require the grade to be rechecked, the Engineer shall have adequate time to tolerance the grade again.
 - 3. Grades in an intersection can be adjusted in the field by the Engineer.
- F. Finish elevations shall be indicated on the plans. Any variations in the grade shall be averaged to produce a uniform thickness as indicated on the plans but in no case shall it vary by more than 3/4" (0.06') from the prescribed elevation at any point where a measurement is made.
- G. Test rolling of compacted aggregate base using a fully loaded aggregate truck (tandem)
 - 1. SPECIFICATION REFERENCES: MnDOT Specification Section 2211 shall apply to the construction of aggregate base

3.03 FIELD QUALITY CONTROL

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3.04 PROTECTION

- A. Protect aggregate base until it is covered by surface pavement.
- B. Keep aggregate base free of ruts and irregularities until covered by surface paving.
- C. Place water on aggregate base for dust control as required to eliminate nuisance conditions for adjacent properties.

END OF SECTION