SECTION 32 11 23 – AGGREGATE BASE COURSES

PART 1 – GENERAL

1.01 WORK INCLUDED
   A. Preparing and stabilizing sub-grade to receive a base or pavement.
   B. Placing and compacting base material.

1.02 RELATED WORK
   A. Section 31 11 00 Clearing and Grubbing
   B. Section 31 23 00 Excavation and Fill
   C. Section 32 12 16 Asphalt Paving
   D. Section 32 13 13 Concrete Paving

1.03 QUALITY ASSURANCE
   A. Perform work in accordance with Tennessee Department of Transportation Standard Specifications for Road and Bridge Construction, 1995 Edition.
   B. The Contractor shall provide material testing and inspection for quality control during paving operations.

1.04 REFERENCE STANDARDS
   A. Graduation of stone materials will be performed in accordance with ASTM C136.

PART 2 – PRODUCTS

2.01 MATERIALS
   A. Mineral aggregate concrete base for asphaltic concrete pavement:

PART 3 – EXECUTION

3.01 PREPARATION
   A. Verify compacted sub-grade is dry and has been approved to the work of this Section.
   B. Verify gradients and elevations of sub-grade are correct.
   C. Field Quality Control:
      1. Proof-roll sub-grades that have been exposed to weather.
      2. Remove materials identified by Testing Agency Personnel as being unsuitable. Backfill and compact such areas.

3.02 PLACING BASE COURSE
   A. Perform aggregate blending by approved stationary or travel plant methods. Mixing in stockpiles or on roadway will not be acceptable.
   B. Spread base material uniformly over the area to produce required lines, grades and cross-section after compaction.
      1. Indicated thickness of 6 inches or less maybe constructed in a single course.
      2. Spread and compact thickness greater than 6 inches in at least two courses.

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C. Level and contour surfaces to the elevations and gradients indicated.
D. Compact each layer to at least 95% of the modified proctor maximum dry density.
E. Perform 5 density tests for every 10,000 square yards. The Geotechnical Engineer may require more frequent testing.
F. Adjust moisture content to achieve near optimum moisture content prior to compaction. If excess water is apparent, scarify aggregate and aerate to reduce the moisture content.
G. Use mechanical hand tamping equipment in areas inaccessible to compaction equipment.

3.03 TOLERANCES
   A. Flatness: Maximum variation of ¼ inch measured with a 10 ft. straight edge.
   B. Scheduled compaction thickness: Within ¼ inch.
   C. Variation from true elevation: Within ½ inch.

3.04 FINISHING AND MAINTENANCE
   A. Finish surfaces by rolling with a smooth steel wheel roller. Water the surface and spread loose stones prior to rolling.
   B. Repair soft, yielding areas that develop in the final rolling.
   C. Maintain final surface in smooth and uniform condition until base course is covered by subsequent pavement construction.
   D. Protect surface from silting or erosion until placement of final pavement construction.
   E. Where areas are disturbed by traffic, weather or other means, grade and recompact as necessary.

END OF SECTION