

This specification outlines the requirements for reshaping of a road surface up to a depth of 100 mm prior to the application of Selected Granular Base Course or asphaltic pavement.

## PART 1 REFERENCES

This specification refers to the following standards, specifications, or publications:

ASTM International

D698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft<sup>3</sup> (600 kN·m/m<sup>3</sup>))

## PART 2 GENERAL

1.12.1 NOT APPLICABLE

## PART 2 PART 3 PRODUCTS

2.13.1 NOT APPLICABLE

## PART 4 EXECUTION

### 4.1 EXAMINATION

.1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for roadway subgrade reshaping installation in accordance with manufacturer's written instructions.

- .1 Visually inspect substrate in presence of Owner.
- .2 Inform Owner of unacceptable conditions immediately upon discovery.
- .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from the Owner.

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### 2.24.2 RESHAPING

.1 Where directed by the Owner the Contractor shall ~~scarify and~~ reshape a road surface prior to the application of Selected Granular Base Course or Asphaltic Pavement. The ~~scarifying and~~ reshaping shall be carried out

within the lengths designated by the Owner, and within the width to be covered by the proposed pavement plus 0.3-m on each side, or to such other widths as the Owner may designate.

- .2 Unsuitable roadbed materials as determined by the Owner, which are encountered during the reshaping operation shall be excavated to the lateral limits and depth directed by the Owner and shall be disposed of as directed. Such work shall be carried out in accordance with Section 02224 – Roadway, Excavation, Embankment & Compaction.
- .2.3 Whenever the materials incorporated in the existing subgrade are insufficient to provide the required profile and cross-section, the Contractor shall add and blend additional approved material as directed by the Owner. Such work shall be carried out in accordance with Section 02224 – Roadway, Excavation, Embankment & Compaction.
- .3.4 The maximum variation from the specified profile and cross-section of the compacted reshaped road surface shall be 30 mm, except in those instances where paving is to take place directly on top of the ~~scarified~~ and reshaped material, in which case the finished surface shall not deviate at any place on a 3-metre straight edge by more than 10 mm.
- .4.5 Where due to traffic use, or for whatever other reason, reshaped road surface no longer lies within the required tolerance, then, before placing the next materials, the Contractor shall reshape the affected area again, at their own expense.

#### 2.34.3 COMPACTING

- .1 Road material disturbed by reshaping shall be compacted.
- .2 Subgrade:
- .3.2 Where subgrade is reshaped, the disturbed materials shall be compacted to a minimum not less than 95 % maximum ~~Standard Proctor dDry~~ ~~density~~ in accordance with ASTM D698, ~~Method D~~.
- .3 Where select granular base course is reshaped, the disturbed materials shall be compacted to not less than 100-% of the ~~m~~aximum ~~Standard Proctor dDry~~ ~~density~~ in accordance with ASTM D698.
- .4 Shape and roll alternately to obtain smooth, even and uniformly compacted subgrade surface and compacted base.
- .5 Apply water as necessary during compaction to obtain specified density.
- .6 If material is excessively moist, aerate by scarifying with suitable equipment until moisture content is corrected to value suitable ~~not greater than % moisture above optimum value~~ for compaction ~~to ASTM D 698~~.

.7 Select granular base:

.1 Shape and roll alternately to obtain smooth, even and uniformly compacted base. Apply water as necessary during compaction to obtain specified density.

.8.7 Use mechanical tampers to compact areas not accessible to rolling equipment to specified density.

.9 Asphalt pavement:

.1 Compact to density not less than % in accordance with ASTM D 698.

.2 Compact reshaped material in accordance with written approval of the Owner.

.3 Shape and roll alternately to obtain smooth, even and uniformly compacted base.

.4 Apply water as necessary during compaction.

.5 In areas not accessible to compaction equipment, compact to specified density, with mechanical tampers.

4.4 SITE TOLERANCES

.1 Reshaped compacted surface to be within plus or minus 10 mm of elevation or as otherwise indicated.

2.44.5 PROTECTION MAINTENANCE

.1 Protect and maintain reshaped finished surfaces in conditions conforming to this Section to degree of compaction and within tolerance specified until succeeding material is applied surfaces are covered with required granular or pavement course or until project is accepted by Owner.

.2 Subgrade and select granular base:

.1 Reshaped compacted surface within plus or minus 10 mm of elevation as indicated.

.3 Asphalt pavement:

.1 Correct surface irregularities by loosening and adding or removing material until surface is within specified tolerance.

PART 3PART 5 PAYMENT

3.15.1 MEASUREMENT FOR PAYMENT

- .1 Reshaping of existing roadbed (up to a depth of 100 mm) including compaction will be measured in square metres.
- .2 Where subgrade was constructed, or some selected granulars were placed under a previous contract, then such reshaping of the road surface as the Owner's Representative requires shall be carried out and measured for payment. This measurement for payment shall be of the horizontal area actually reshaped from within the limits of length and width as designated by the Owner's Representative, and will be measured in square metres, rounded to the nearest whole number.

3.25.2 BASIS OF PAYMENT

- .1 All costs associated with the work outlined in this specification shall be deemed to be included in the appropriate unit and lump sum prices quoted as outlined in the Measurement for Payment subsection of this section and as included in the MERX Schedule of Quantities and Prices.
- .2 Repair of soft areas will be measured in accordance with Section 02224 – Roadway, Excavation, Embankment & Compaction.
- .3 Additional fill material shall be measured in accordance with Section 02224 – Roadway, Excavation, Embankment & Compaction.
- .4 Where subgrade was constructed under the same contract that also calls for the placing of selected granular base course, then any required reshaping of the subgrade prior to placing granulars will not be measured for payment and no payment for the and reshaping will be made.