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4.5 HAULING

4.5.1 GENERAL

4.5.1.1 **Description**

This specification applies to the hauling of all granular materials produced under Specification 3.2, Aggregate Production and Stockpiling including blend sand, and the hauling of all mixtures of granular material with asphalt or cement produced under the applicable specification as required by the Plans, Special Provisions or as designated by the Consultant. This specification covers the following:

- (a) The administration of haul roads from all aggregate sources;
- (b) Hauling granular materials and mixtures of granular material with asphalt or cement bid by unit weight or volume;
- (c) Hauling granular materials and mixtures of granular material with asphalt or cement bid "In-Place".

4.5.1.2 **Definitions**

For purposes of this specification, the following definitions will apply:

4.5.1.2.1 Aggregate Sources

The categories of aggregate sources are as specified in Specification 5.2, Supply of Aggregate.

4.5.1.2.2 Hauling

The process of transporting material from its point of loading to its designated delivery point.

4.5.1.2.3 Haul Road

A route over which materials are hauled for the performance of the Contract with the exception of any portion of the highway or road within the contract construction limits.

4.5.1.2.4 Conversion Factors

Where the application of conversion factors is necessary, the following standard values shall be used:

1.63 t/m³ for gravel (pit-run and crushed, regardless of class), and

1.36 t/m³ for sand.

4.5.2 IDENTIFICATION OF HAUL ROUTES

The Contractor shall state the location of his proposed aggregate sources and haul routes, at the time of tendering. The Contractor shall be responsible for obtaining authority to haul over the proposed haul routes from the agency having jurisdiction. The use of provincial highways as haul routes is subject to prior approval by the Department.

4.5.2.1 Sources Not Controlled by the Department

The Contractor shall supply and pay for all materials required for initial conditioning, maintaining and restoring haul roads from sources not controlled by the Department except that asphalt mixes required for the repair of paved surfaces will be supplied as detailed in Section 4.5.3.3 of this specification.

4.5.3 HAULING**4.5.3.1 Vehicle Requirements**

Haul vehicles shall comply with the Alberta Highway Traffic Act and the Alberta Motor Transport Act and have Alberta Class 1 registration.

Haul vehicles shall be registered by the Contractor and bear a project registration number.

For vehicles hauling on a cubic metre basis the approved capacity will be the struck measure of the box as calculated by the Consultant to the closest 0.1 cubic metres.

4.5.3.2 Hauling Restrictions

The Consultant may direct that hauling operations will not be permitted if excessive damage to highways or public roads will occur or when hauling operations cause serious hazards or difficulties to the travelling public.

The conditions when this may occur will generally be:

- (a) When spring thaw is taking place;
- (b) During or after heavy rainfall;
- (c) During periods of exceptionally heavy traffic.

The Contractor shall abide by all load restrictions established by the road or bridge authority having jurisdiction.

If work must be carried over from one construction season to the next, the Consultant may order that when work closes down for the season, the Contractor shall repair any damage to public roads caused by his hauling operations.

4.5.3.3 Construction, Initial Conditioning and Maintenance of Haul Roads

The Contractor shall initially condition, maintain and restore roads used as haul roads to the satisfaction of the agency having jurisdiction and in the case of provincially owned or controlled roads, to the satisfaction of the Consultant. The Contractor shall also be responsible for construction of new haul roads where necessary.

All costs incurred in such work shall be borne by the Contractor, except that the Department will share in the cost of the asphalt mixes required for the repair of paved surfaces on roads maintained by the Department in accordance with the following:

- (a) On contracts with unit prices for asphalt mixes the Contractor shall supply and place the asphalt mix

and the Department will pay for the quantity of mix used at 90% (ninety percent) of the applicable unit prices.

The Contractor shall, at his own expense, spread and compact the asphalt mixes.

- (b) On contracts that do not include unit prices for asphalt mixes the Department will select the material source and pay for the asphalt mix required including haul.

The Contractor shall, at his own expense, spread and compact the asphalt mixes.

4.5.4 HAUL COMPUTATIONS

4.5.4.1 **Contracts With Bid Unit Prices for Haul**

The haul distance will be the measured distance in kilometres and hundredths of a kilometre along the designated route between the point of loading to trucks and the designated delivery point.

Haul will not be calculated for blend sand material obtained within 100 metres of a mixing plant or of the point of blending.

For the purpose of this specification, the designated delivery point shall be considered as the centre of the project kilometre, except:

- (a) if a section is shorter than one kilometre, the designated delivery point will be the centre of the section.
- (b) if a dead haul road splits a project kilometre into two sections, the designated delivery point will be the centre of each section.

4.5.5 MEASUREMENT AND PAYMENT

4.5.5.1 **Haul**

The haul distance will be measured in kilometres and hundredths of a kilometre along the designated route between the point of loading and the designated delivery point, and will be measured for record purposes and to enable computation of the Average Actual Haul Distance.

4.5.5.2 **Haul Roads**

4.5.5.2.1 Sources Not Controlled by the Department

Except for the supply of asphalt mixes for the repair of paved surfaces on haul roads, as defined in Section 4.5.3.3 of this Specification, the cost of new construction, initial conditioning, maintenance and final restoration of haul roads shall be the responsibility of the Contractor.

The Contractor shall initially condition, maintain and restore roads used as haul roads to the satisfaction of the agency having jurisdiction and in the case of provincially owned or controlled roads, to the satisfaction of the Consultant who will be the final authority.

The Contractor shall control dust on haul roads using water or other dust abatement materials approved by the Consultant. The Contractor shall supply and apply the materials and pay for all costs of dust control.