

**DIVISION 5 - GRANULAR MATERIALS
SECTION 3 - HAULING**

5.3.1 DESCRIPTION

This specification applies to the hauling of all granular materials, including blend sand, and the hauling of all mixtures of granular material with asphalt cement as shown on the plans or as designated by the Engineer. This specification covers the following:

- .1 The administration of haul roads from both Designated Sources and Contractor Supply Sources of granular materials,
- .2 Hauling granular materials and mixtures of granular material with asphalt cement tendered by unit weight or volume, and
- .3 Hauling granular materials and mixtures of granular material with asphalt cement tendered with haul included in the Contract item for which the granular material has been produced or is required.

5.3.2 DEFINITIONS

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

- .1 **Hauling**
The process of transporting material from it's point of loading to it's designated delivery point.
- .2 **Haul Road**
The route over which materials are hauled for the performance of the Contract and can be either:
 - (a) an approved route from a Designated Source, or
 - (b) a Contractor selected route from a Contractor Supply Source.
- .3 **Dead Haul Road**
The section of the route over which materials are hauled for the performance of the Contract, between the highway or roadway and the loading location.

5.3.3 MATERIALS

- .1 **Designated Sources**
Unless otherwise specified, material from deposits designated by the Department of Transportation will be made available to the Contractor for the upgrading or construction of dead haul roads free of cost.

The Contractor shall supply, apply and pay for all water used on haul roads for whatever purpose, including maintenance and dust control.
- .2 **Contractor Supply Sources**
The Contractor shall supply, apply and pay for all materials required for the upgrading, construction, drainage, maintenance and dust control and restoration of haul roads from Contractor Supply Sources.

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5.3.4 CONSTRUCTION

.1 General

Haul vehicles shall comply with all applicable Northwest Territories Acts and Regulations.

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

Weight certificates will not be issued to overloaded vehicles and there will be no loading tolerance in excess of the allowable GVW limit.

There will be no loading tolerance in excess of the allowable GVW limit for any vehicles or construction equipment which haul over existing or newly constructed granular or asphalt subbase, base or surface courses.

For vehicles hauling on a cubic metre basis, the approved capacity will be the struck measure of the truck box to the nearest zero point one cubic metres (0.1m³), as calculated by the Engineer.

The Engineer 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 and allowable GVW limits established by the road or bridge authority having jurisdiction.

The Contractor shall repair any damage to public roads caused by his hauling operations.

.2 Haul from Designated Sources

.1 General

The Department of Transportation will not consider claims because of conditions imposed by local road authorities.

Approaches required for access to deposits, pits or stockpiles shall be constructed and, if required by the Engineer, removed at no direct expense to the Department of Transportation.

If clearing is required on specified access or haul road routes, the work shall be carried out in accordance with "Clearing" (Division 3, Section 1) .

If grubbing is required on specified access or haul road routes, the work shall be carried out in accordance with "Grubbing " (Division 3, Section 2) .

Unless otherwise specified, where the construction of dead haul roads is required, the dead haul road shall be constructed by the Contractor in a manner and at a location as approved by the Engineer.

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5.3.4 .2 .2

Maintenance During Haul

Maintenance and dust control of haul roads shall be carried out in accordance with "Execution of Work, Maintenance of Work and Dust Control During Construction" (Division 2, Section 3).

Existing drainage or drainage constructed during haul road upgrading or construction shall be maintained by the Contractor throughout the hauling operations.

The maintenance and repair of paved haul roads shall be carried out by the Contractor where and as directed by the Engineer, utilizing materials specified by the Engineer.

.3 **Restoration of Haul Roads**

Upon the completion of hauling operations, haul roads shall be restored by the Contractor to a condition equivalent to or exceeding the condition of the road prior to the commencement of hauling operations. The Engineer will be the final authority in assessing the restoration required.

.3 **Haul from Contractor Supply Sources**

.1 **General**

The Contractor shall specify in his tender submission his designated supplier of all granular materials and the name and location of his proposed granular material sources and haul routes.

The Contractor shall be responsible for obtaining authority to haul over the proposed haul routes from the agency having jurisdiction. The use of Territorially owned or controlled highways and roads as haul routes is subject to prior approval from the Department of Transportation.

The Contractor shall upgrade, construct, carry out maintenance and dust control and restore roads used as haul roads to the satisfaction of the agency having jurisdiction, and in the case of Territorially owned or controlled highways and roads, to the satisfaction of the Engineer.

The Contractor shall be responsible for the upgrading, construction and restoration of public and private roads required for his hauling operations. All costs incurred for such work shall be the responsibility of the Contractor.

.2 **Maintenance During Haul**

Where the use of Territorially owned or controlled highways and roads for haul roads has been approved by the Engineer, maintenance and dust control of haul roads shall be carried out in accordance with "Execution of Work, Maintenance of Work and Dust Control During Construction" (Division 2, Section 3).

Where the use of Territorially owned or controlled highways and roads for haul roads has been approved by the Engineer, existing drainage or drainage constructed during haul road upgrading or construction shall be maintained by the Contractor throughout the hauling operations.

Where the use of Territorially owned or controlled highways and roads for haul roads has been approved by the Engineer, the maintenance and repair of paved haul roads shall be carried out by the Contractor where and as directed by the Engineer, utilizing materials approved by the Engineer.

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5.3.4 .3 .3 **Restoration of Haul Roads**

Where the use of Territorially owned or controlled highways and roads for haul roads has been approved by the Engineer, haul roads shall be restored by the Contractor upon the completion of hauling operations to a condition equivalent to or exceeding the condition of the road prior to the commencement of hauling operations. The Engineer will be the final authority in assessing the restoration required.

5.3.5 **MEASUREMENT**

.1 **Haul**

- (a) The Contractor shall, at his own expense, provide, install and maintain such approved scales and all suitable facilities as may be required to enable the Engineer to accurately determine the mass of material loaded in each vehicle. Such scales shall be in acceptable condition and will be tested from time to time by the Engineer.
- (b) When a Contract contains Unit Price Table Items for Haul by unit weight or volume, the haul distance will be the measured distance in kilometres and tenths of a kilometre along the designated route, from the junction of the dead haul road to the loading location and the highway or roadway, to the mid-point of the project kilometre or section of a kilometre that the material is acceptably delivered and placed.
 - If a section is shorter than one (1) kilometre, the haul distance will be measured to the mid-point of the section.
 - If sections within a project kilometre are specified to be constructed at varying application rate ranges, the haul distance will be measured to the mid-point of such sections within the kilometre.
 - If a dead haul road splits a project kilometre into two (2) sections, the haul distance will be measured to the mid-point of each section within the kilometre.

No payment will be made for the haul distance along the dead haul road from the loading location to the highway or roadway.

- (c) The quantity of Haul to be measured for payment will be calculated by multiplying the weight or volume of the material hauled by the haul distance to the mid-point of each project kilometre or section of a kilometre that the material is acceptably delivered and placed.
- (d) When a Contract contains Unit Price Table Items in which Haul is included in the Contract item for which the material has been produced or is required, the haul distance will be measured by the Department of Transportation for record purposes only.
- (e) No payment will be made for hauling to or from stockpiles where the source and the stockpiles are located within the boundary of the site where the granular material is being processed.

.2 **Haul Roads**

(a) **General**

- (i) The repair of any damage to public roads caused by the Contractor's hauling operations will not be measured separately for payment and shall be considered incidental to the Hauling operation.

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- 5.3.5 .2 (a) (ii) The upgrading and restoration of haul roads will not be measured separately for payment and shall be considered incidental to the Hauling operation.
- (iii) The construction and removal of approaches required for access to deposits, pits or stockpiles will not be measured separately for payment and shall be considered incidental to the Hauling operation.
- (iv) Maintenance and dust control of haul roads will not be measured separately for payment and shall be considered incidental to the Hauling operation.
- (v) Maintenance of existing drainage or drainage constructed during haul road upgrading, construction or restoration will not be measured separately for payment and shall be considered incidental to the Hauling operation.
- (vi) Unless otherwise specified, the maintenance and repair of paved haul roads will not be measured separately for payment and shall be considered incidental to the Hauling operation.
- (b) **Designated Sources**
- (i) Unless otherwise specified, the clearing, grubbing and construction of dead haul roads will not be measured separately for payment and shall be considered incidental to the Hauling operation.
- (ii) Unless otherwise specified, the removal or installation of culverts required for the upgrading, construction and restoration of haul roads will not be measured separately for payment and shall be considered incidental to the Hauling operation.
- (c) **Contractor Supply Sources**
- (i) The Contractor shall be responsible for all costs for the upgrading, construction, drainage, maintenance and dust control and restoration of all haul roads used from Contractor Supply Sources.
- (ii) The Contractor shall carry out maintenance and dust control and restore roads used as haul roads to the satisfaction of the agency having jurisdiction, and in the case of Territorially owned or controlled roads, to the satisfaction of the Engineer, who will be the final authority.

5.3.6 BASIS OF PAYMENT

- .1 Payment for Haul will be at the Contract unit price per tonne-kilometre or cubic metre-kilometre.
- The unit price shall be compensation in full for all work and requirements described in this specification.
- .2 Haul will not be paid for separately when the Contract unit price for the item to be hauled includes compensation in full for hauling.