

SPECIFICATIONS FOR STOCKPILING AGGREGATES

600. 1 SCOPE

These Specifications govern all operations necessary for and pertaining to the stockpiling of aggregates. When stockpiled aggregate is a bid item the entire Specification applies, otherwise only Sections **600.2** and **600.3** apply.

1.1 Pre-Construction Meeting

The Contractor shall attend a pre-construction meeting with Departmental staff at a mutually agreed upon date to discuss the project. The meeting shall be initiated by the Contractor and be held prior to commencing field operations. Topics to be discussed will include the type and quantity of equipment to be used, sequence of work, traffic control, and other pertinent topics.

1.2 Mobilization of Equipment

The lump sum price for "Mobilization of Equipment" will be payment in full for assembling, transporting and setting up the Contractor's equipment, sleeping, kitchen and sanitary facilities, tools and supplies necessary for the maintenance and repair of equipment, and all items necessary or incidental thereto and for moving all the items away when the project is completed.

The Department will make two payments. Two-thirds of the lump sum price for "Mobilization of Equipment" will be paid when the Engineer is satisfied that the majority of the required equipment is mobilized on the project. The balance will be paid when the work has been substantially completed.

600. 2 PRODUCTION OF AGGREGATES

Aggregates shall be produced in accordance with the applicable Specifications and shall be subject to testing after it has been placed in the stockpile.

600. 3 STOCKPILES

3.1 Selection of Stockpile Sites

The suitability and location of stockpile sites, as well as access to the sites, will be subject to the approval of the Engineer.

The Contractor shall provide stockpile sites, which shall be level, well-drained and have adequate bearing capacity to support the weight of the material which is to be placed thereon.

Stockpiles shall be constructed at locations and by methods that will neither interfere with nor damage utility lines, pipe lines or underground utilities.

Access to stockpiles shall be readily available at all times.

600. 3.2 Construction of Stockpiles

The Contractor shall clear the site of all debris, vegetation, rocks, snow and other objectionable material prior to placing any aggregate on the stockpile site. This work will not be paid for directly, but will be considered incidental to the Contract as a whole.

Where segregation is a concern the pile at the end of the discharge belt shall not be allowed to build up to a height greater than 3 m.

Stockpiling shall be performed using loaders, trucks or stacking conveyors.

When trucks or loaders are used, loads shall be spot dumped uniformly over the entire stockpile area. The aggregate shall be placed in layers not exceeding 1.25 m in depth. Each layer shall be completed and levelled prior to placing the succeeding layer.

When a stacking conveyor is used for stockpiling, the material shall be placed into stockpile directly from the stacking conveyor, or it shall be placed into a surge pile and moved and placed in the stockpile by loaders.

For the stacking conveyor to build the stockpile directly the material being produced must be within specification and uniform.

Segregation of the aggregate shall be kept to a minimum. Coning of the stockpile or spilling material over the edges of the stockpile will not be permitted.

If more than one material is to be placed at the same site, each stockpile shall be separated by a sufficient distance to allow equipment access to all sides of the stockpile.

Aggregates which become mixed with others of a different kind, class, source or gradation or which become contaminated by foreign material will be rejected and shall be promptly removed from the site of the work.

The completed stockpile shall be neat, regular in form and constructed to occupy the smallest feasible area.

600. 4 BASE FOR STOCKPILES

The base for stockpiles shall consist of sound, tough and durable pebbles or rock fragments and sand, all passing the maximum sieve size of the aggregate to be stockpiled and shall be free from roots, sod, or other deleterious substance.

Base for Stockpiles will be measured in tonnes.

The unit price per tonne for "Base for Stockpiles" will be payment in full for supplying material, clearing and grubbing, disposing of overburden, excavating gravel in pits, disposing of oversize or unsuitable material, loading, hauling, depositing and spreading the base in advance of constructing aggregate stockpiles and for performing all operations necessary or incidental thereto.

When a base is required and there is no bid item, all costs in supplying, hauling and placing base material will be paid for as Extra Work.

600. 5 LOCATION OF STOCKPILES

Stockpiles shall be located within 500 m of a Provincial Trunk Highway or Provincial Road.

The location of each stockpile shall be accurately described. Where possible, the description shall include the corner of the quarter-section in which the stockpile is located or the distance in kilometre and tenths of a kilometre from an easily identified location.

The location of each stockpile shall be clearly and accurately marked on the diagram of location attached to the tender.

When stockpiles are located in areas which are frequently occupied by livestock, the Engineer may require the Contractor to fence the stockpile area on the basis of Extra Work.

Conditions may occasionally arise which lead to a request for a change in stockpile location from that as described in the Contract. In such cases the Contractor shall apply in writing to the Engineer for permission to relocate the stockpile site explaining the circumstances. If the Director approves the stockpile site relocation, the following amounts will be deducted from the Contract payments:

- (a) An amount equal to the additional cost of any increase in the theoretical haul, calculated on the basis of **truck haul rates approved for Department use**, and,
- (b) An administration fee of One Hundred Dollars.

600. 6 DETERMINATION OF LOW BIDDER

When the stockpiled aggregate is a bid item, the lowest tender will be determined by adding the sum of the items on the tender quantity page to the theoretical cost of distributing the stockpiled aggregate. In calculating the theoretical distribution cost, the aggregate will be considered to be distributed in accordance with a detailed distribution sheet in the Special Provisions or, if none, to be uniformly distributed over the described highways.

The theoretical cost of distributing the stockpiled aggregate will be calculated on the basis of **truck haul rates approved for Department use**. For this purpose all aggregate will be considered as being hauled along Provincial Roads or Provincial Trunk Highways.

The distances shown in the Tender document will be used to calculate the theoretical haul.

If there is a discrepancy between the stockpile quantities shown on the Contractor's bid page and the quantities indicated by his distribution diagram, the Department will base its calculations on the bid page quantities and adjust the distribution accordingly.

If there is a discrepancy between the stockpile location as described in words and as marked on the diagram, the Department will base its calculations on the location or apparent location most favourable to itself.

600. 7 STOCKPILE AGREEMENTS

The Contractor shall obtain stockpile agreements, signed by owners of the stockpile sites, using the Department's standard form entitled "Lease Agreement for Stockpiling Site." The stockpile agreements shall be submitted to the Engineer for his approval prior to any aggregate being stockpiled.

600. 7 STOCKPILE AGREEMENTS (Cont'd)

The Contractor's agreement with the owner of the stockpile site shall provide that:

- (i) The Department may enter upon the stockpile site to remove or add gravel at any time until two years after December 31 of the year in which the Contract was awarded.
- (ii) The Department may, at its option, extend the agreement for the use of the stockpile site for a further two-year period at an annual rental not to exceed that in the original agreement.

600. 9 METHOD OF MEASUREMENT

Depending on the unit shown on the tender bid page, stockpiled aggregate will be measured in tonnes, or in cubic metres.

When the aggregate is measured by volume the rated capacity of the hauling vehicles will be established by the Engineer to the nearest 0.1 m³ using the Department's Vehicle Measurement form. The rated capacity of a vehicle shall not be changed without the consent of the Engineer. Loads will be checked at the stockpile site and when requested by the Engineer shall be levelled by the Contractor. No payment will be made for any portion of a load greater than the rated capacity. Deductions will be made in 0.1 m³ units for loads less than the rated capacity.

600. 11 BASIS OF PAYMENT

The unit price set forth in the Contract for:

- (a) Stockpiling Traffic Gravel,
- (b) Stockpiling Granular Base Course,
- (c) Stockpiling Aggregate for Bituminous Pavement,
- (d) Stockpiling Seal Coat Cover;

will be the total amount paid to the Contractor for each tonne or cubic metre of the applicable aggregate placed in stockpile and it will be payment in full for supplying the aggregate and for performing all operations pertaining or incidental thereto, as herein described.