

3-02 STOCKPILING AGGREGATES

3-02.1 Description

This Work shall consist of preparing the stockpile sites and placing the specified aggregates in the stockpiles at the sites and in the amounts as shown in the Plans or as approved by the Engineer.

This section also includes the requirements pertaining to the removal of aggregates from stockpiles and the requirements for dressing up the stockpiles and stockpile site at the completion of the Work.

3-02.2 General Requirements

3-02.2(1) Stockpile Sites Provided by the Contracting Agency

The Contracting Agency may acquire and make available to the Contractor suitable areas as shown in the Plans for the construction of stockpiles. The stockpiled aggregates may be for use in the immediate Work or may be for future use as more fully described below. In either event, if the aggregates are required by these Specifications to be stockpiled, all costs in connection with the preparation of the stockpile sites as required in [Section 3-02.2\(5\)](#) shall be included in the various Bid items involved in the Contract; except that clearing and grubbing of the site will be measured and paid for in accordance with [Section 2-01](#) only when such Bid items are included in the Proposal. In the event there is no Bid item included in the Proposal for construction and maintenance of haul roads to the stockpile site, the Contractor shall construct and maintain the haul roads as necessary and the cost thereof shall be included in the various Bid items in the Contract.

3-02.2(2) Stockpile Site Provided by the Contractor

If the Plans do not provide a stockpile site for the use of the Contractor in stockpiling certain types and sizes of aggregates which are required by these Specifications to be stockpiled prior to use in the immediate Work, all costs in connection with the acquisition of a site, the preparation of the site, construction of the stockpiles, and the removal of the aggregates from the stockpiles shall be included in the Contract prices of the various Bid items of Work involved.

3-02.2(3) Stockpiling Aggregates for Future Use

The Contracting Agency may require the production and stockpiling of aggregates on sites provided by the Contracting Agency for use on future construction or maintenance projects to be performed under a subsequent contract or by Contracting Agency forces.

When the Contract includes the Bid item or items for specific aggregates in stockpile and these aggregates are not to be used in Work required under the Contract, the Contractor shall produce or furnish these aggregates complying with the quality and grading requirements of these Specifications and shall prepare the site and place the aggregates in stockpile in accordance with the requirements of this Section or as ordered by the Engineer in accordance with [Section 1-04.4](#).

3-02.2(4) Stockpiling Aggregates for Immediate Use

If the Contractor elects to stockpile aggregates from a source owned or controlled by the Contracting Agency prior to use in the immediate Work, the stockpiling shall be done within the area of the site provided by the Contracting Agency and in accordance with the requirements of these Specifications. If the Contractor elects to lease land to stockpile the aggregates, the stockpiling shall be done in accordance with these Specifications and upon proof that the lease will extend for a period of not less than one year beyond the completion date of the Contract. All excess aggregates remaining in stockpiles after satisfying the needs of the Contract — whether upon the site provided by the Contracting Agency or upon land leased by the Contractor — shall be disposed of in accordance with [Section 1-09.10](#). All costs resulting from the production of the excess aggregates shall be included in the cost of production of the aggregates actually incorporated in the Work.

If the Contractor elects to stockpile aggregates from a source not provided by the Contracting Agency prior to use in the immediate Work, it will be subject to the approval of the Engineer and provided that the aggregates comply with the quality and grading requirements of these Specifications. All costs in connection with the acquisition of the stockpile site, the preparation of the site, construction of the stockpiles, and the removal of the aggregates from the stockpiles shall be included in the Contract prices of the various Bid items of Work involved.

3-02.2(5) Preparation of Site

Before placing aggregates upon the stockpile site, the site shall be cleared of vegetation, trees, stumps, brush, rocks, or other debris and the ground leveled to a smooth, firm, uniform surface. The debris resulting from clearing and preparing the site shall be disposed of in a manner satisfactory to the Engineer.

3-02.2(6) Construction of Stockpiles

Stockpiles shall be constructed upon the prepared sites in accordance with stakes set by the Engineer. The piles when completed shall be neat and regular in shape. The stockpile height shall be limited to a maximum of 24-feet.

Stockpiles in excess of 200-cubic yards shall be built up in layers not more than 4-feet in depth. Stockpile layers shall be constructed by trucks, clamshells, or other methods approved by the Engineer. Pushing aggregates into piles with a bulldozer will not be permitted. Each layer shall be completed over the entire area of the pile before depositing aggregates in the succeeding layer. The aggregate shall not be dumped so that any part of it runs down and over the lower layers in the stockpile. The method of dropping from a bucket or spout in one location to form a cone shaped pile will not be permitted. Any method of placing aggregates in stockpiles, which in the opinion of the Engineer, breaks, degrades, or otherwise damages the aggregate, will not be permitted. Plank runways will be required, when deemed necessary by the Engineer, for operating trucks on stockpiles to avoid tracking dirt or other foreign matter onto the stockpiled materials. Stockpiles of less than 200-cubic yards shall be piled in a manner to prevent segregation of the various sizes of material.

No equipment other than pneumatic tired equipment shall be used in constructing the stockpiles of processed or manufactured aggregates.

Stockpiles of different types or sizes of aggregate shall be spaced far enough apart, or separated by suitable walls or partitions, to prevent the mixing of the aggregates. Aggregate shall not be deposited where traffic, vehicles, or Contractor's equipment will either run over or through the piles, or in any way cause foreign matter to become mixed with the aggregates.

3-02.2(7) Removing Aggregates from Stockpiles

Aggregates shall be removed from stockpile in a manner to avoid separation of sizes or admixture of dirt or foreign material. The method and equipment used for loading will be approved by the Engineer.

No equipment other than pneumatic tired equipment shall be used on stockpiles of processed or manufactured aggregates in removing the materials from the stockpiles. When removing materials from the face of the stockpile, the equipment shall be operated in a manner to face-load from the floor to the top of the stockpile to obtain maximum uniformity of material.

The Contractor shall remove only the amount of materials from the stockpile required to satisfy the needs of the Contract. If a surplus remains in the stockpile, the Contractor shall leave the surplus material in neat, compact piles, free of foreign matter. The entire stockpile site shall be left in a neat and presentable condition.

3-02.3 Additional Requirements for Specific Aggregates**3-02.3(1) Washed Aggregates**

Drainpipes under the stockpile shall be provided at the Contractor's expense when, in the opinion of the Engineer, such drains are necessary to properly drain the aggregates.

The roads and ground adjacent to the stockpile shall be kept free of dust. Washed aggregate that has become coated with foreign material prior to use shall be washed until free of all foreign material or it may be rejected.

Washed aggregate shall drain in hauling conveyances or stockpiles at least 12-hours before being weighed or measured for batching and for a longer time if so directed by the Engineer.

3-02.4 Measurement

Clearing and grubbing of the stockpile site will be measured in accordance with [Section 2-01](#) when the Proposal includes such Bid items and such Work is required on a stockpile site provided by the Contracting Agency.

Specific materials or aggregates designated in the Proposal to be in stockpile will be measured by the ton unless the Proposal shows by the cubic yard. The cubic yard volume for pay quantity will be determined by cross-sectioning the completed stockpile or by computation of the volume between the original ground surface and the stockpile surface using digital terrain modeling survey techniques.

Specific materials or aggregates designated in the Proposal to be from stockpile will be measured by the ton or by the cubic yard, whichever is shown in the Proposal. If payment is to be made on the basis of cubic yards, measurement will be made of the volume in the hauling vehicle at the point of delivery on the Roadway.

3-02.5 Payment

All costs involved in preparing stockpile sites shall be included in the unit Contract prices for the various Bid items being stockpiled, excepting that clearing and grubbing will be paid in accordance with [Section 2-01](#) when the Proposal includes such Bid items and such Work is required on a stockpile site provided by the Contracting Agency.

3-03 SITE RECLAMATION**3-03.1 Description**

This Work shall consist of reclaiming land used for borrowing material, mining for aggregates, sorting or wasting materials as specified.

3-03.2 General Requirements**3-03.2(1) Contracting Agency-Provided Sites**

All borrow, quarry, or pit sites of over 3-acres in size of disturbed land or resulting in pit walls more than 30-feet high and steeper than a one to one slope which are owned or furnished by the Contracting Agency shall be reclaimed as shown in the Plans and as designated by the Engineer.

Ultimate reclamation plans are not normally required for borrow, quarry, or pit sites not meeting the above criteria or for stockpile or waste sites. However, all such sites shall be reclaimed to the extent necessary to control erosion and provide a satisfactory appearance consistent with anticipated future use.

3-03.2(2) Contractor-Provided Sites

All borrow, quarry, and pit sites of over 3-acres in size of disturbed land or resulting in pit walls more than 30-feet high and steeper than a 1:1 slope which are owned or furnished by the Contractor shall be reclaimed in accordance with the conditions and requirements of an approved reclamation permit acquired from the Department of Natural Resources.

When the Contractor obtains a reclamation permit from the Department of Natural Resources, evidence of such approval shall be furnished to the Engineer prior to any Work within the site.

Ultimate reclamation plans are not required for borrow, quarry, or pit sites not meeting the above criteria or for stockpile or waste sites. However, all such sites shall be reclaimed to the extent necessary to control erosion and provide a satisfactory appearance consistent with anticipated future use.

Compliance with the State Environmental Policy Act (SEPA) is required for sites involving more than 100-cubic yards of excavation or landfill throughout the lifetime of the site unless the local agency in which the project is located establishes a greater amount. Sites involving more than 500-cubic yards of excavation or landfill throughout the lifetime of the site always require compliance with SEPA.

Under no circumstance will the Contractor be allowed to waste material within a wetland as defined in [Section 2-03.3\(7\)](#).

3-03.2(3) Out of State Sites

All out of State borrow, quarry or pit, stockpile, and waste sites which are furnished by the Contractor exclusively for use on this Contract shall be reclaimed in accordance with an approved reclamation plan that is in compliance with local area restrictions.