

SECTION 803**LANDSCAPE BORROW AND PLATING MATERIAL****803-1 DESCRIPTION**

The work under this section shall consist of grading surfaces, eradicating grasses, weeds and undesirable vegetation; furnishing, hauling, placing and compacting imported material for establishing the required elevations and grades in landscape areas and for plating embankment slopes, dikes and other designated areas in accordance with the details shown on the project plans and the requirements of these specifications.

803-2 MATERIALS

803-2.01 Landscape Borrow and Plating Material. Landscape borrow and plating material shall be secured from commercial sources or from contractor furnished sources unless otherwise designated in the Special Provisions. **Topsoil** shall be in **conformance** with the requirements of Subsection 804-2.

803-2.02 Decomposed Granite and Granite Mulch. Decomposed granite and granite mulch shall be free of lumps or balls of clay and shall not contain calcareous coatings, caliche, organic matter or foreign substances. All material shall be from a single production source and shall present a uniform appearance throughout the project. The gradation and color of the decomposed granite and granite mulch shall be as indicated on the project plans or in the Special Provisions.

The contractor shall deliver, to a location on the project site approved by the Engineer, a minimum, five pound sample of the decomposed granite or granite mulch for approval by the Engineer prior to hauling any quantity of the material to the site.

803-2.03 Rock Mulch. Rock mulch shall be free of calcareous coating, caliche, organic matter or other foreign substances. The gradation and color of the rock mulch shall be as indicated on the project plans or in the Special Provisions.

The contractor shall submit a one cubic yard sample of the rock mulch to a location within the project site, as directed by the Engineer, for approval prior to hauling any quantity of the material to the site.

803-2.04 Stabilizer. Materials for stabilizing landscape borrow, plating material, decomposed granite or granite mulch shall be as specified in the Special Provisions.

803-2.05 Pre-Emergent Herbicide. Pre-emergent herbicide shall be as specified in the Special Provisions. The contractor shall submit copies of the manufacturer's product data sheet for the pre-emergent herbicide prior to its delivery to the project site.

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803-3 CONSTRUCTION DETAILS

803-3.01 Landscape Borrow and Plating Material. Prior to placing material, the areas shall be cleared of all weeds, brush, trash, rock 2 inches or larger in diameter and other objectionable material. Undesirable vegetation, grasses and weeds shall be eradicated by the use of both an approved herbicide and mechanical methods in conformance with the requirements of Section 201.

Landscape borrow shall be placed in horizontal layers not exceeding 8 inches in depth prior to compaction. Water shall be added or removed in order to obtain the required density. Each layer of landscape borrow shall be compacted to a density of not less than 85 percent of the maximum density as determined in accordance with the requirements of the applicable test methods of the Arizona Department of Transportation Materials Testing Manual, as directed and approved by the Engineer.

Unless otherwise specified in the project plans, landscape borrow that will serve as subgrade for decomposed granite, granite mulch or landscape rock shall be graded to provide a smooth, uniform appearance, acceptable to the Engineer, particularly in areas between curb and sidewalk/multi-use path and/or sidewalk/multi-use path and right-of-way.

Plating material shall be spread and shaped to conform to the lines, grades and cross sections as shown on the project plans or as established by the Engineer. The material shall be watered and compacted in accordance with the requirements of the Special Provisions.

803-3.02 Decomposed Granite and Granite Mulch. Decomposed granite and granite mulch shall not be placed until the required irrigation system(s), preliminary weed control, and acceptable finish grading and planting operations have been completed within the area.

The surfaces upon which the decomposed granite or granite mulch is to be placed shall be graded smooth and compacted to a density of not less than 85 percent of the maximum density as determined in accordance with the requirements of the applicable test methods of the Arizona Department of Transportation Materials Testing Manual, as directed and approved by the Engineer. The area of the planting pits shall be "water settled". Areas which shall not be compacted will be designated by the Engineer.

Areas on which decomposed granite or granite mulch is to be placed shall be graded to the lines and grades shown on the project plans, be reasonably smooth and firm, and be approved by the Engineer prior to placement operations commencing. Prior to placement of decomposed granite or granite mulch material, the area shall be cleared of grasses and weeds, to the satisfaction of the Engineer.

All deleterious material and rocks larger than 1-1/4 inches in any dimension shall be removed and disposed of by the contractor.

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The decomposed granite or granite mulch shall be evenly distributed over the designated areas to the depths detailed on the project plans or in the Special Provisions. The compacted depth of the decomposed granite or granite mulch shall be within 1/2 inch of the depth specified on the project plans or Special Provisions. The finished surface of the decomposed granite or granite mulch shall be 1/2 inch minimum and 1 inch maximum below the surface of adjacent sidewalk, multi-use paths or concrete foundations and the tops of adjacent curbs. All areas to receive decomposed granite or granite mulch shall be approved by the Engineer prior to placement of the decomposed granite or granite mulch.

Vehicles used for spreading, grading, and raking the decomposed granite or granite mulch shall have one set of wheels with floatation tires having a minimum width of 18 inches to provide uniform compaction of the decomposed granite or granite mulch.

All equipment operations for spreading and grading, raking, chemical application, water settling, and any other operations shall be conducted in a manner that uniformly maximizes the wheel compaction of the vehicle over the entire surface and provides a uniform surface appearance throughout the project.

After placing, spreading and rough grading of the decomposed granite or granite mulch within the designated areas, the decomposed granite or granite mulch shall be raked to evenly blend the different gradation sizes. Following approval by the Engineer, the contractor shall apply water to saturate the decomposed granite or granite mulch sufficient to achieve the optimum moisture content to aid compaction and remove fine material from the surface.

Final compaction and finishing of the decomposed granite or granite mulch shall be accomplished with a 200 pound roller followed by raking the surface to smooth any irregularities and obtain a uniform, blended appearance acceptable to the Engineer.

The contractor shall apply one application of an approved pre-emergent herbicide on all decomposed granite or granite mulch areas following placement of the granite. Water to activate the pre-emergent herbicide shall be applied to the areas of herbicide application in accordance with the manufacturer's recommendations.

The contractor shall keep a record of all pre-emergent herbicide applications; the type of herbicides used; the rate and method of application; and the date and location of such applications. A copy of this record shall be submitted to the Engineer after each application.

Erosion which occurs within the decomposed granite or granite mulch areas shall be corrected by the contractor and approved by the Engineer prior to final acceptance.

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803-3.03 Rock Mulch. The surfaces upon which the rock mulch is to be placed shall be excavated or filled to the grades and elevations shown on the project plans, fine graded and compacted to 85 percent of the maximum density as determined in accordance with the requirements of the applicable test methods of the Arizona Department of Transportation Materials Testing Manual, as directed and approved by the Engineer. All deleterious material shall be removed and disposed of by the contractor. The size, gradation, type and/or color of the rock mulch shall be as specified on the project plans or in the Special Provisions.

The contractor shall stake out or paint the boundary of all areas to receive rock mulch. The Engineer shall approve the boundary, and subgrade lines and grades prior to placement of the rock mulch.

A pre-emergent herbicide shall be applied, by an applicator licensed in the State of Arizona, to staked areas and watered in accordance with the manufacturer's printed instructions and with the approval of the Engineer. Site and atmospheric conditions at the time of application of the pre-emergent herbicide shall conform to the requirements of the manufacturer's printed instructions as well as state and federal regulations.

The rock shall be placed in an even application, tightly packed, to provide complete coverage of the area shown on the project plans so that soil will not be visible between rocks.

After placing and grading the rock mulch, the contractor shall water the mulch with a light spray to remove fine material from the surface to an extent satisfactory to the Engineer. Any re-grading that is necessary after placement of the rock mulch shall be at no additional cost to the Agency.

Care shall be taken in the placement of the rock mulch so as not to disturb or damage any plant material, adjacent surfaces or irrigation equipment.

803-4 METHOD OF MEASUREMENT

Decomposed granite and granite mulch will be measured by the square yard or by the cubic yard of material in place and at the specified thickness.

Rock mulch will be measured by the cubic yard of material in place and at the specified thickness.

Landscape borrow and plating material will be measured either by the cubic yard or square yard.

When cubic yards are used, landscape borrow and plating material will be measured in its original position by the Engineer, and the volume will be computed by methods approved by the Engineer.

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No measurement will be made for removal of grasses and weeds by either mechanical means or herbicides.

803-5 BASIS OF PAYMENT

The accepted quantities of decomposed granite and granite mulch, measured as provided above, will be paid for at the contract unit price specified in the bidding schedule, complete in place.

The accepted quantities of rock mulch, measured as provided above, will be paid for at the contract unit price per cubic yard complete in place.

The accepted quantities of landscape borrow and plating material measured as provided above, will be paid for at the contract unit price specified in the bidding schedule, complete in place.

No direct payment will be made for removal of grasses or weeds, either by mechanical means or herbicides, the cost for such removal being considered as included in the price of bid items in the contract.

Payment for the items noted shall be full compensation for supplying and furnishing all materials, labor and equipment and performing the work involved as specified herein.