

ITEM 11613.0104 - PREPARE SKINNED AREA

DESCRIPTION.

This work consists of preparing skinned areas on baseball diamonds, in accordance with the Contract Documents and directions of the Engineer.

MATERIALS.

Soil Mixture. The soil mixture shall be homogeneous, shall not contain sticks, roots, sod, trash, gravel, or hardpan; and it shall not be dark or odorous. Soil shall be taken from an approved source and shall contain a combined total of not more than five percent (5%) of mica, feldspar and organic matter. The percentage of organic matter will be determined by loss through ignition of moisture free samples dried at one hundred (100) degrees Centigrade. Gradation of the soil mixture shall be as follows:

Sieve Size	Percent Passing by Weight
6 millimeter	100%
2.5 millimeter	90%-100%

The portion of the soil mixture passing the 2.5 millimeter sieve shall be tested in accordance with the American Society of Agronomy's *Methods of Soil Analysis, Part 1*, Chapter 43 Sec. 43-5, "Particle Fractionation and Particle Size Analysis" and ASTM Designation D421 and D44318 or other applicable method if approved by the Engineer. Particle sizes shall be as follows:

CLAY (Particles \leq 0.002mm in diameter):	20% +/- 4%
SILT (Particles $>$ 0.002mm and \leq 0.05mm):	6% +/- 6%
SAND (Particles $>$ 0.05mm and $<$ 2.00mm):	77% +/-4%
TOTAL	100%

Plasticity Index: The plasticity index of the soil mixture shall be determinable and shall be less than five (5).

Color: The color of the soil mixture shall be within one of the following ranges as defined by the Munsell Soil Color Chart:

1. 10 YR 5/6 (yellowish brown) or 10YR 5/8 (yellowish brown) or 10Y/R 6/6 (yellowish brown) or 10 YR6/8 (yellowish brown) or 7.5YR 5/8(strong brown) or 7.5YR 6/6(strong brown).
2. 7.5 YR 6/8 (reddish yellow) or 7.5 YR 5/6 (strong brown)
3. 5YR 5/6 (yellowish red) or 5YR 5/8 (yellowish red)

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CONSTRUCTION DETAILS.

Sample. The Contractor shall submit a .9 kilogram sample of the specified soil mixture taken from the proposed source stockpile for this contract to the Regional Landscape Architect for approval. The sample shall be labeled with contract number and name, pay item number, and the name of supplier.

The Engineer will have the sample tested for the requirements listed under "Materials." If the percentages of sand, silt, and clay are more than one percent(1%) outside the specified ranges, or if the color does not fall within one of the specified ranges, the soil mixture will not be accepted.

Installation. The soil mixture used in the work shall match the approved sample. The soil mixture shall not be delivered to the site in a pasty, muddy, or lumpy condition and shall be well dried before installation.

The Contractor shall install the skinned area in the locations and at the grades and details shown in the contract documents or as directed by the Engineer.

The approved soil mixture shall be spread over the surface in two layers, each approximately 75 millimeters thick, and raked smooth. Any lumps of clay shall be pulverized and thoroughly mixed with the sand component of the soil mixture. Each layer shall be hand-rolled to a thickness of approximately 50 millimeters. After rolling the first layer the surface shall be lightly scarified with a rake before applying the second layer.

METHOD OF MEASUREMENT.

The quantity of skinned area will be measured as the number of square meters furnished and installed in accordance with the contract documents and directions of the Engineer.

BASIS OF PAYMENT.

The unit price bid shall include the cost of all labor, materials, equipment, and incidentals necessary to complete the work in accordance with the contract documents and to the satisfaction of the Engineer.