

**MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF AERONAUTICS - STANDARD SPECIFICATION
T-907
Tilling**

DESCRIPTION

1.1 This item shall consist of preparing the surface of areas for dust control or erosion control in accordance with this specification at the locations shown on the plans or as directed by the Engineer.

Tilling accomplished as a part of turfing, sodding, or mulching work, and payment therefore is included in the appropriate pay items of the respective specifications T-901, T-904, and T-908. Separate payment for such work will not be made under this specification.

CONSTRUCTION METHODS

3.1 General. Areas to be tilled and areas requiring special attention and tilling shall be shown on the plans.

The tilling work shall be performed only during periods when beneficial and satisfactory results can be reasonably expected. The work shall be stopped when it is unlikely that the desired results will be obtained, due to excessive drought, moisture conditions, or other factors, and resumed only when the conditions again are favorable.

Suitable equipment necessary for properly tilling and for handling all required materials shall be on hand, in good operating condition, and approved by the Engineer before the various operations are started.

3.2 Tilling.

(a) General. Prior to the commencement of tilling operations, all heavy growths of vegetation on areas shown on the plans to be tilled shall be mowed, raked and burned, used for mulch if suitable, or hauled off

the site, as directed by the Engineer.

During tilling operations, the ground surface shall be kept cleared of all cable, wire, or any other waste materials which might hinder final grading, planting, or subsequent maintenance operations. Any irregularities in the surface resulting from tilling or other operations of the Contractor shall be corrected insofar as practical to prevent the formation of low places and pockets where water will stand.

The proper graded areas shall be tilled by the Contractor with suitable plows, disks, scarifying machines, or other power-drawn implements approved by the Engineer.

(b) Dust and erosion control. The areas to be tilled for dust or erosion control shall be loosened to a depth of at least 4 inches by a tiller tool so that the clods will be left on the surface of the ground. In areas where such penetration cannot be accomplished by a tiller tool in one operation, a heavy scarifier shall be used first. On areas 250 feet or more from the centerline of runways, as shown on the plans, on which scarifiers will not produce clods of sufficient size and quantity to provide adequate control by the above operation, furrows shall be opened on approximately 36-inch centers to a depth of 5 inches by using an approved type lister. Tilling operations shall commence on the windward side of the field and at right angles to the prevailing wind except on runway shoulders, where they shall be parallel to the pavements. Equipment and operations, other than those specified above, may be used subject to the approval of the Engineer.

3.3 Smooth Grading. Where final grades have been established by others, they shall be shown on the plans. Where grades have not been established, the areas shall be smooth graded and the surfaces left at the prescribed grades in an even and properly compacted condition which, insofar as practical, will

prevent the formation of low places and pockets where water will stand.

METHOD OF MEASUREMENT

4.1 The area of tilling to be paid for shall be the number of acres, measured by surface area, tilled, smooth graded, and accepted.

BASIS OF PAYMENT

5.1 Payment will be made at the contract unit price per acre for tilling. This price shall be full compensation for furnishing all materials and for all preparation, operation, and smooth grading, and for all labor, equipment, tools, and incidentals necessary to complete the item.

Payment will be made under the nomenclature and seven digit item number specified in the plans and proposal for tilling per acre.

The first three digits of any item number for work included under this specification shall be 907, i.e. 907XXXX.

TESTING AND MATERIAL REQUIREMENTS

Test and Short Title

None

Material and Short Title

None