

ITEM 17203.0398 M - TIRE SHRED EMBANKMENT

DESCRIPTION:

Provide, place, and compact tire shreds to the lines and grades shown on the plans or as directed by the Engineer. Prior to beginning work, provide the Engineer with copies of all necessary permits required to store and transport tire-shreds, as issued by the New York State Department of Environmental Conservation.

MATERIALS:

Provide tire shreds that:

- a. are free from contaminants such as oil, gasoline, diesel fuel, grease, hydraulic fluid, wood or other fibrous organic matter, ice and snow, and remnants of tires that have been subjected to fire.
- b. have at least one sidewall severed from each tire shred.
- c. have no metal fragments protruding more than 50 mm from the cut edge of any tire shred, and no more than 25 mm on 75% of the shreds.
- d. have less than 1% by weight of metal fragments which are not at least partially encased within a tire shred.
- e. have less than 10% by weight of individual tire shreds with a maximum dimension greater than 300 mm.
- f. meet the following gradation requirements:

<u>Sieve Size</u>	<u>Percent Passing By Weight</u>
300 mm	100
200 mm	75 - 100
38 mm	0 - 25
4.75 mm	0 - 1

Tire shred material approval is based upon visual inspection and/or sieve analyses performed by the Regional Geotechnical Engineer or his representative.

CONSTRUCTION DETAILS:

Place tire shreds such that:

- a. the maximum loose-lift thickness does not exceed 300 mm.
- b. the tire shred lifts are spread in uniform thickness over the full width of the section.
- c. a uniform gradation of tire shreds is maintained throughout the embankment.

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d.the tire shreds do not become contaminated during the work by oil, gasoline, diesel fuel, grease, hydraulic fluid, wood or other fibrous organic matter, or ice and snow.

Compact each tire shred lift with a minimum of eight passes of a vibratory or non-vibratory smooth steel wheel roller with a minimum nominal gross weight of nine metric tons. Operate the roller at a maximum speed of 2 m/s during compaction.

METHOD OF MEASUREMENT:

Measurement for payment is the number of metric tons of tire shreds, as determined from certified truck scales, incorporated into the work conforming to the requirements of this specification and in accordance with the lines, grades, and typical section(s) shown on the plans or as directed by the Engineer.

BASIS OF PAYMENT:

The unit price bid includes the cost all of labor, materials and equipment necessary to properly complete the work.