

CITY OF DETROIT

SPECIFICATION FOR TREE GRATE

DET:LL

08-06-2019

a. Description. The work consists of providing all labor, materials and equipment required to furnish and install cast iron tree grates and their frames and reinstalling salvaged grates on furnished and installed frames. Each tree grate must be 60 inches diameter by 1½ inches thick.

b. Materials. Tree grate and frame must be of gray cast iron in accordance with 2012 Michigan Department of Transportation (MDOT) Standard Specifications for Construction. Ensure all castings are patterned to match the existing grates along the project alignment and with 3/8 inch slot openings in accordance with ADA pedestrian requirements. All tree grate castings must be manufactured true to pattern and component parts must fit together in a uniform manner. Ensure castings is free of all defects and cleaned by shot blasting. Furnish tree grates and frames without paint or primer.

1. Tree Grate. Provide gray iron castings that come with a 10-year warranty against breakage. Provide the following tree grate:

<u>Product Name</u>	<u>Supplier</u>	<u>Telephone No.</u>
8668	EJ	800-874-4100

c. Construction.

1. Frames. Square up the frame sections and bolt them together. Install the tree grate frame flush and on a plane with the proposed surrounding slope, and cast the surrounding concrete around it.

All anchoring bolts, nuts, washers, and all other hardware for installation are to be galvanized or zinc coated.

2. Tree Grates. Set the grates flush with the top of the frame and ensure that the grate does not rock in the frame. Securely bolt grates halves together on the underside. Clean any foreign matter from the grates prior to setting.

3. Spot weld the grates to the frame sections upon placement. Provide a 1 inch weld at a minimum of three locations centered on each side of each tree grate section adjacent to the pavement edge. Locate the weld in inconspicuous locations and coordinate with the design/pattern of the tree grate to minimize disturbance to the aesthetic appearance.

4. When requested by the Engineer, furnish certification regarding the compliance of materials incorporated in the work.

5. Submit complete shop drawings for this item in Portable Document Format (PDF) that allows commenting.

d. Measurement and Payment. The completed work, as described, will be measured and paid for at the contract unit price using the following pay item

Pay Item	Pay Unit
Tree Grate	Each