

**Division 2**  
**Section 02980**  
**Site and Street Furnishings**

**PART 1 - GENERAL**

1.1 SECTION INCLUDES

A. Tree grates as shown on drawings and as specified herein.

1.2 SUBMITTALS

A. Contractor shall submit \_\_\_\_ set(s) of shop drawings of tree grates and frames for review by architect prior to purchase and installation.

**PART 2 - PRODUCTS**

2.1 TREE GRATES AND FRAMES:

A. Manufacturer: Tree grates and frames shall be as supplied by Ironsmith, PO Box 1141, Palm Desert, CA 92261-1141, (800) 338-4766, no exceptions taken.

B. Tree grates shall be Olympian M4804. Each set to be complete with matching steel angle frame.

(For Cast Aluminum)

C. Tree grate material shall be cast aluminum per ASTM B26 latest revision. All tree grate castings shall be manufactured true to pattern and component parts, and shall fit together in a satisfactory manner. The castings shall be of uniform pattern and quality, free from blowholes, hard spots, shrinkage, distortion or other defects. Castings shall be cleaned by shot blasting.

(For Cast Iron)

C. Tree grate material shall be cast iron per ASTM A48, Class 35B. All tree grate castings shall be manufactured true to pattern and component parts, and shall fit together in a satisfactory manner. The castings shall be of uniform pattern and quality, free from blowholes, hard spots, shrinkage, distortion or other defects. Castings shall be cleaned by shot blasting.

D. Tree grates shall be 48" x 48". Grates shall be Americans with Disabilities Act compliant.  
or

(round tree grates)

Tree grates shall be round with a 48" diameter, slot openings shall not exceed 1/2". Grates shall be Americans with Disabilities Act compliant.

E. Tree grate castings' unfinished surface shall meet or exceed ADA's recommended static coefficient of friction for slip resistance of .6.

F. Finish: Tree grates shall be supplied with factory applied finish, one coat primer, and one top coat black enamel.

or

a natural finish.

or

with black powder coat finish (available for aluminum only).

or

with factory applied finish, one coat primer, one top coat polyurethane finish, color to be chosen by architect.

Frames shall be supplied with factory applied finish, one coat primer and one top coat black enamel finish.

or

with a natural finish.

or

with hot dipped galvanizing.

(specify, if tree grates are aluminum with no finish)

or

with black powder coat finish.

or

with one coat primer and one top coat polyurethane finish, color to to be chosen by architect.

G. Total quantity \_\_\_\_\_

### **PART 3 - EXECUTION**

#### **3.1 INSTALLATION**

A. Install materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections.

B. Restore damaged finishes and test for proper function. Clean and protect work from damage.

#### **3.2 TREE GRATES**

A. Install grates where indicated on plans flush and leveled with surrounding pavement surface.

B. If needed, grind pads on underside of tree grates to level.

C. Install steel angle frame, in concrete flush and leveled with surrounding paving surface, maintain flush and leveled at all times.

D. Remove or protect tree grates if concrete or paver around tree well perimeter is chemically treated or acid washed.

(new concrete)

E. Use spreaders or stakes to keep frame from being distorted by concrete pressure, and clean concrete and debris from frame prior to tree grate installation.

(optional pilfer-proof bolting, specify on aluminum)

#### **3.3 PILFER-PROOF BOLTING**

A. Position tree grates to meet in the center of tree well and have uniform spacing around outside edges of castings. Drill through counter bored holes in the grates and install pilfer-proof bolts per manufacturer's instructions.

(on new frames with standard cement anchors or vertical tabs)  
C. Use 1" thick wood or foam block out under the frame to allow pilfer-proof screw to extend below angle.

**Ironsmith**

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