

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

SPECIAL PROVISION

**ATLANTA BELTLINE NORTHEAST TRAIL
SEGMENT 2, PHASE 2**

Section 437 – Granite Curbs

Add the following:

437.1 General Description

437.1.01 Definitions

This Work includes installation of granite curbs, straight or circular, as shown on plans, and shall include, but is not limited to, the following components:

- A. Vertical granite curb.
- B. Sloped granite edging.
- C. Flush granite edging.
- D. Solid granite curb transition piece.

437.1.03 Submittals

A. Samples

- 1. Submit sample of granite for granite curb to Owner's Representative for approval. Sample shall be representative of curb units. Sample size shall be 24 inches long, minimum. Submit name of granite quarry supplying granite curbing for approval by the Owner's Representative.

B. Shop Drawings

- 1. Submit complete shop drawings of granite curbing for Owner's Representative's approval
 - a. Shop drawings shall indicate size, dimension, and finish of each curb type.
 - b. Submit a complete schedule for quantity, lengths, and size for all curbing on the project.

437.1.04 Project Conditions

A. Samples

- 1. Granite for all curbing shall be supplied from a single source for the entire project.
- 2. Weather Limitations for Mortar and Grout:
 - a. Cold-Weather Requirements: Comply with cold-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.

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- b. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602. Do not apply mortar to substrates with temperatures of 100 deg F and higher.

437.1.05 Quality Assurance

A. Mockups

- 1. Build mockups of each type of stone curb condition sufficient to demonstrate typical joints; surface color, pattern, and texture; and standard of workmanship.

C. Preinstallation Conference

- 1. Conduct conference at Project site.

437.2 Products

437.2.02 Stone Curbs

- A. **Vertical Granite Curbs:** City of Atlanta Standard curbs made from granite complying with ASTM C 615. Includes straight and circular granite curbs.

- 1. Products: Subject to compliance with requirements, provide the following:

- a. Color and Grain: Elberton Granite with medium grain.
- b. Finish: Top surface sawn; front and back faces split.
- c. Thickness: 5” nominal at top.
- d. Depth: As shown on drawings

- B. **Sloped Granite Edging and Flush Granite Edging:** City of Atlanta Standard edging made from granite complying with ASTM C 615. Includes straight and circular granite curbs.

- 1. Products: Subject to compliance with requirements, provide the following:

- a. Color and Grain: Elberton Granite with medium grain.
- b. Finish: Top surface sawn; front and back faces split.
- c. Thickness: 5” nominal at top.
- d. Depth: As shown on drawings

- C. **Granite Transition Curb:** City of Atlanta Standard curbs made from granite complying with ASTM C 615. Includes straight and circular granite curbs.

- 1. Products: Subject to compliance with requirements, provide the following:

- a. Color and Grain: Elberton Granite with medium grain.
- b. Finish: Top surface sawn; front and back faces split.
- c. Thickness: 5” nominal at top.
- d. Depth: As shown on drawings

437.2.03 Cement Mortar

- A. **Portland Cement:** ASTM C 150, Type I or Type II.

- B. **Sand:** ASTM C 144.

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- C. **Latex Additive:** Manufacturer's standard water emulsion, serving as a replacement for part or all of gaging water, of type specifically recommended by latex-additive manufacturer for use with field-mixed Portland cement and aggregate mortar bed, and not containing a retarder.
- D. **Water:** Potable.

437.2.04 Concrete

- A. **Concrete for Foundation Cradle at Curb:** Concrete where designated for foundation cradle at curb installations shall be a zero slump concrete, described as follows:
1. 3000 psi, ¾ inches aggregate concrete mix, wet placed.
- B. **Concrete for Backing up Curb:** Concrete where designated for backing up curb shall be 3000 psi, ¾ inches high early strength concrete.

437.3 Construction Requirements

437.3.05 Construction

A. Setting the Curb

1. All spaces under the curb shall be filled with compacted gravel borrow so that the curb will be completely supported throughout its length.
2. Vertical face of vertical curb shall be plumb, with curb top parallel to adjacent surface.
3. Curb shall be set accurately to line and grade. Curb alignment shall be uniform, with smooth and continuous arris lines. Radius curbs shall meet with a common target. Curb units shall be fitted together as closely as possible. Curb shall not be field cut.
4. Joints, between curb units shall be carefully filled with a cement mortar, and neatly pointed on the top and front exposed portions. After pointing excess mortar shall be cleaned from curb surface.
5. Backfill material on each side of curb shall be as specified for adjacent surface and shall be thoroughly compacted by means of power tampers. Extreme care shall be taken not to destroy alignment. Curb sections disturbed during backfilling or otherwise shall be reset to line and grade, and properly backfilled.

437.4 Measurement

Granite curb complete and in place is measured for payment by the linear foot along the inner top exposed edge nearest the roadway centerline.

437.5 Payment

These Items, measured as specified above, will be paid for at the Contract Unit Price per each, per linear foot (LF). Payment will be made under:

Item No. 437	Straight Granite Curb, 5 IN. x 17 IN, TP A	Per Linear Foot
Item No. 437	Circular Granite Curb, 5 IN x 17 IN, TPA	Per Linear Foot

End of Section 437