

TOWN OF WEST HARTFORD
ENGINEERING DIVISION
DEPARTMENT OF COMMUNITY DEVELOPMENT

SECTION B-2

TECHNICAL SPECIFICATIONS

FOR GRANITE CURBING

B-2 TECHNICAL SPECIFICATIONS FOR GRANITE CURBING

1. DESCRIPTION

This item of work shall consist of furnishing and setting granite curbstones on an approved foundation or base and to the required line and grade, as indicated on the plans and as directed by the Engineer, in accordance with these specifications.

2. MATERIALS

GENERAL

Curbstone shall be of hard and durable granite, of a light color satisfactory to the Engineer, free from seams which impair its structural integrity, and of a good, smooth splitting appearance. Granite shall come from approved quarries and, when tested, shall have a French coefficient of wear not less than 16 or a Los Angeles percentage of wear not more than 32. Test samples shall be hand broken.

NOTE:

1. All curbs with vein of black through the stone shall be rejected. Curbs with black spots, splotches, or streaks may be accepted if they will not detract from physical appearance of exposed surfaces.
2. Curbs with quartz veins may be accepted. However, all stones with quartz veins must be examined very closely to ascertain whether a seam exists along joint between granite and quartz. This characterized by a discoloration (black, pink, yellow) as fine as 1/16" along the joint. All such stones shall be rejected.
3. Curbs with quartz veins shall be limited to about 5% of total delivered and shall be evenly distributed throughout the job. All others shall be rejected.

3. DIMENSIONS

The stones shall be cut to the following dimensions:

Width at Top (inches)	Depth in (inches)	+Minimum Length (feet)	Minimum Width at Bottom (inches)
6	17 to 19	6	5 (for 2/3 length)

+Minimum length does not apply to radial curb and closures.

Curbstone to be set on a radius of one hundred sixty feet or less shall be cut to the curve required.

4. FINISH

Finish and surface dimensions shall conform to the following requirements:

The curbstone shall have a top surface free from wind; it shall be pointed, peen-hammered or sawed to an approximately true plane, and shall have no projections or depressions greater than 1/8 of an inch.

Curbs with surface depressions greater than 1/8 of an inch and less than 1/4 of an inch shall be limited to 20% of total delivered and shall be evenly distributed throughout the job. All others shall be rejected.

Exposed arris lines shall be pitched straight and true with no variation from a straight line greater than 1/8 of an inch. Half drill holes not larger than 1/4 of an inch radius will be permitted in back arris line.

Back surfaces of curbstones, shall have no projection, for a distance of three inches down from the top, which would exceed a batter of three inches in twelve inches.

Front face shall be at right angles to the plane of the top and shall be smooth quarry-split. Drill holes in exposed part of face will not be permitted.

Front face shall have no projections greater than 3/4 of an inch or depressions greater than 1/2 of an inch measured from the vertical plane of the face through the top arris line for a distance down from the top of eight inches. Remaining distance shall have no projections or depressions greater than one inch measured in the same manner.

Ends of all stones shall be square with the planes of the top and face, and so finished when stones are placed end to end as closely as possible, no space more than 3/4 of an inch shall show in the joint for the full width of the top or down on the face for eight inches. Remainder of end may break back not over eight inches from the plane of the joint.

5. FOUNDATIONS

NOTE: These foundations specifications can be applied only when natural sub-soil conditions indicate adequate drainage and a good gravel is available for backfill. Special specifications will be written for other conditions.

6. EXCAVATION TRENCH

Trench for the curb shall be excavated to a width of eighteen (18) inches. Bottom of trench shall be eighteen (18) inches below bottom of proposed curbstone.

7. PREPARING FOUNDATION

Foundation for the curb shall consist of processed stone or processed gravel spread in two (2) lifts and, each lift compacted thoroughly with a vibratory compactor.

The depth of the foundation (base) shall be not less than the depth shown on the appropriate standard cross-sectional drawings attached to these specifications.

8. SETTING CURBSTONES

Curb shall be set a line and grade required, and it shall project five (5) inches above the shoulder grade or pavement, unless otherwise directed or called for on the plans.

Curbstones shall not fit closer to each other than one-eighth (1/8) of an inch, otherwise they shall be fitted together as closely as possible.

Additional gravel shall be provided as required. All spaces under curbstones shall be carefully and thoroughly rammed so that the curbstones shall be completely supported throughout their entire length.

9. POINTING

Joints between curbstones shall be carefully filled with cement mortar and shall be neatly pointed on top and exposed front portions. After pointing, curbstones shall be satisfactorily cleaned of all excess mortar that may have been forced out of the joints.

10. MORTAR

Mortar for pointing joints, when specified, shall be composed of equal parts of cement and sand with sufficient water to form a workable mixture. The materials shall conform to the requirements of A.S.T.M., C-91 and C-144.

11. FILLING ABOUT TRENCH

After curb is set, space between it and wall of the trench shall be filled with approved material thoroughly tamped, to depth directed, care being taken not to affect the line or grade of curb.

12. PROTECTION

The Contractor shall protect curbstones and keep them in first class condition until completion of the entire contract. Particular care must be exercised to prevent discoloration of exposed surfaces.

13. HANDLING

Under no condition may chains be used to load, unload, transport or set granite curbing. Slings used for this purpose shall be the type which will cause no damage to the curbing while being handled. The Engineer shall approve or disapprove the type of slings used.

14. STANDARD CROSS-SECTIONS

The following is a list of standard cross-sections acceptable by the Town of West Hartford and part of these specifications.

- For Radius Granite Curbing
- For Straight Granite Curbing
- For Beveled Granite Curbs at each end of driveways
- For replacing concrete curbs with granite and adjacent to concrete pavements