

CITY OF BEVERLY
RULES AND REGULATIONS – PAVING REQUIREMENTS

Roadways

Whenever trenches are cut in the traveled way, the surface shall be cut in straight lines. An acceptable method includes using a concrete/asphalt saw to cut the surface to its full depth including the reinforcing steel on concrete roadways. It is expected that the trench shall be overcut by 12-inches all around the excavated area. **The cutting operation shall not be done with a backhoe, gradall or any type of ripping equipment.**

Lyn-Pac or a well-graded gravelly soil shall be used to backfill the trench. It shall be installed in 12-inch lifts and compacted to 95% by using a Plate Compactor, Jumping Jack Compactor, or a Roller Type Compactor.

After the excavation work is completed and backfilled, it must be properly puddled or jetted. Water used for puddling or jetting must not be obtained from the Beverly water system unless prior arrangements have been made with the Engineering Department, hydrant meters issued, and specific details are addressed on a trench-by-trench basis. Immediately after jetting the disturbed area must be paved with a minimum of three inches of hot mix binder.

The permanent patch must be a minimum of 4½ inches thick containing 3 inches of binder mix and a 1½ inch finish course consisting of Class I Bituminous Concrete Pavement per current Mass Highway specifications. All joints involved in the patch, whether in the street or in the sidewalk, must be repaired by using the infra-red heat patching technique. The sides shall be tacked three times, initially, during and after.

A second acceptable permanent patch method shall be to pave binder flush to grade at a minimum of 4½ inches thick. The trench shall then be ground down at a depth of 2 inches at a minimum width of 6 feet. The trench shall then be paved with 2 inches of Class I Bituminous Concrete Pavement per current Mass Highway specifications.

If at any time the Engineering Department feels that the patch has not been adequately maintained, the contractor will be notified and shall have forty-eight (48) hours to repair the patch. If it has not been repaired after this time period, the Director of Public Services will complete the repairs from the cash deposited with the City Treasurer as specified in the City Ordinance.

If it becomes necessary to open the roadway surface in a larger area than specified in this permit then the contractor shall apply for an additional permit to cover this project.

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All utility companies whose services are located within or adjacent to the proposed installation areas shall be notified in writing of the proposed installation at least 48 hours prior to the start of any excavation in said areas. This is independent of the required dig safe notification.

Any bound or property marker shall not be removed or disturbed. If it becomes necessary to remove and reset any highway bounds then the contractor shall hire a Registered Professional Land Surveyor to perform this work. It shall be the responsibility of this land surveyor to submit to the Engineering Office a statement in writing and a plan containing his stamp and signature showing that said work has been performed.

Sidewalks

If the sidewalk area is disturbed, it shall be restored full width, in kind a minimum of 5 feet beyond any disturbed area.

After the subgrade has been prepared, a foundation of gravel shall be placed upon it. After being mechanically compacted thoroughly, the foundation shall be at least 8 inches in thickness and parallel to the proposed surface of the walk.

Where work is to be done on concrete sidewalks, all sections disturbed along the entire length of trench shall be removed to its full width, and shall be replaced with four inches of 3,500 pounds per square inch concrete (6 inches with wire reinforcement at driveways). All concrete shall be treated with a curing compound after it has set.

If a sidewalk is disturbed at any intersection or designated crosswalk area the appropriate ADA compliant curb cut shall be installed. For further information please see the links below:

http://www.mass.gov/Eeops/docs/dps/aab_regs/521021.pdf

http://www.mass.gov/Eeops/docs/dps/aab_regs/521022.pdf