

# ***TOWN OF WEST SPRINGFIELD DEPARTMENT OF PUBLIC WORKS***

## **POLICY FOR ROADWAY TRENCH AND PAVEMENT RESTORATION**

### ***(PAVEMENT SURFACES OVER FIVE YEARS OLD)***

The following are the West Springfield Department of Public Work's requirements for trench and pavement repair for roadway(s) within the Town Layout with a pavement surface more than 5 years old.

#### **Permit Requirement**

A "PERMIT TO OCCUPY STREETS" shall be obtained from the Department of Public Works.

#### **Type of Roadway**

The type of repair will apply to all roadways with a bituminous concrete surface over 5 years old. The type of repair is based upon the functional classification of the roadway.

#### **All Roadway Repairs (Local, Collector and Arterial Streets)**

The following are criteria for trench and pavement repair that apply all roadway categories. Specific repair criteria pertaining to each roadway category follows this section.

- All pavement edges of the trench shall be saw cut with straight vertical edges 6 inches from the edge of excavation. The edges shall be kept clean of any foreign material and tack coated before completion of the permanent pavement patch.
- Backfill material shall be of a good quality as determined by the Town's inspector. Excavatable flowable fill may be required if determined necessary by the West Springfield Department of Public Works. No frozen material shall be used as backfill.
- Backfill material must be placed in lifts of 8 and 10 inches and thoroughly compacted by mechanical compactors to a minimum density of 95% for the full depth of the trench. Density tests may be required by the Town. These tests will be done at the permittee's expense.
- The depth of gravel base shall be equal to the depth of gravel excavated, but not less than 12 inches.

*Some roadways may have an original surface under the bituminous concrete such as portland cement concrete or cobble stones. The Town may require this portion of the roadway structure to be replaced with portland cement concrete, excavatable flowable fill, bituminous concrete and/or another material suitable for the repair. This will be dealt with on a case-by-case basis.*

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#### **Local Roadway Repairs**

- A temporary patch may be warranted before a permanent patch is laid. This will be determined by the Department of Public Works. The top surface shall be covered with 2 inches of Type I-1 top course and shall be maintained by the permittee until a permanent patch is placed. The patch shall be such that all vehicular, bicycle and pedestrian traffic can pass over it safely. Vehicles must be able to safely travel over the patch at a speed equaling the posted speed limit plus 5 miles per hour. If a speed limit is not posted in the vicinity of the roadway cut, then a speed of no less than 35 miles per hour may be used.
- The depth of the permanent patch shall be equal to the depth of the existing pavement plus one inch. The permanent patch shall consist of at least a 2 inch base course of bituminous concrete and an 2 ½ inch top course of Type I-1 bituminous concrete at a minimum. Work shall be done in accordance with the current Massachusetts Highway Department “Standard Specifications for Highways and Bridges”.

#### **Collector and Arterial Roadway Repairs**

- A temporary patch may be warranted before a permanent patch is laid. This will be determined by the Department of Public Works. The top surface shall be covered with 3 inches of Type I-1 top course and shall be maintained by the permittee until a permanent patch is placed. The patch shall be such that all vehicular, bicycle and pedestrian traffic can pass over it safely. Vehicles must be able to safely travel over the patch at a speed equaling the posted speed limit plus 5 miles per hour. If a speed limit is not posted in the vicinity of the roadway cut, then a speed of no less than 45 miles per hour may be used.
- The depth of the permanent patch shall be equal to the depth of the existing pavement plus one inch. The permanent patch shall consist of a 4 1/2 inch base course of bituminous concrete and a 3 inch top course of Type I-1 bituminous concrete at a minimum. Work shall be done in accordance with the current Massachusetts Highway Department “Standard Specifications for Highways and Bridges”.

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### **Police Protection and Traffic Control**

Police officers for traffic control will be required whenever traffic must be diverted into the lane or lanes of opposing traffic on the street or highway, to control access and/or egress for an existing driveway being worked on or as deemed necessary by the West Springfield Police Department or the Department of Public Works. This must be coordinated with the West Springfield Police Department in advance of the proposed work.

### **Inspection**

A representative from the Department of Public Works must inspect the trench prior to backfilling and during the repair process.

### **Warranty**

The permittee is required to correct trench settlement and faulty pavement repairs for a period of two-years after the permanent patch is placed. Any repairs will be done under the direction of the Department of Public Works at the expense of the permittee.

***The Department of Public Works reserves the right to alter these specifications depending upon site conditions or as deemed necessary to ensure satisfactory restoration of the roadway.***