

## 00405.48 Surface Removal:

(a) **General** - For trench resurfacing, see Section 00495.

(b) **Topsoil** - Where trenches cross lawns, garden areas, pastures, cultivated fields or other areas on which Topsoil exists, remove the Topsoil to a minimum 12-inch depth and place the Material in a stockpile. Do not mix the Topsoil with other excavated material. After the trench has been backfilled, replace the Topsoil.

In lieu of stockpiling the Topsoil, approved imported Topsoil may be substituted, to a depth specified or approved, at no additional cost to the Agency.

Maintain the finished grade of the Topsoil level with the area adjacent to the trench until Final Acceptance by the Engineer, and repair damage to adjacent Topsoil caused by the Contractor's operations. Remove all Rock, Gravel, Clay and other foreign materials from the surface. Regrade and add Topsoil as required.

(c) **Pavement, Curb, and Sidewalk** - Use saws to cut portland cement concrete Pavement, curbs and sidewalks, regardless of thickness. In bituminous Pavement, when no Pavement overlay will occur, saw-cut the Pavement along each edge of the area to be removed. When Roadways will receive a Pavement overlay as part of the Project or following trench resurfacing, bituminous Pavement to be removed may be cut by wheel cutter, jack hammer, or other approved methods.

The Agency uses a "Grade" based pavement cut standard system based on the date of construction, the last qualifying pavement treatment applied, and the Pavement Condition Index (PCI) rating of the pavement. These attributes will be determined from initial construction or from the time the most recent qualifying pavement treatment was applied. The PCI and road classification (Arterial, Major and Minor Collector, Industrial/Commercial Local, and Residential Local) will determine the Pavement Cut Standard Grade using the following table;

Classification	PCI 100-60; < 5 Years	PCI 100-60; < 5 Years	PCI 60-40	PCI 40-0
Arterial	Grade 1	Grade 2	Grade 2	Grade 3
Major/Minor Collector	Grade 1	Grade 2	Grade 3	Grade 3
Industrial/Commercial Local	Grade 1	Grade 2	Grade 3	Grade 3
Residential Local	Grade 1	Grade 2	Grade 3	Grade 4

(1) **Grade 1 (Pavement Cut Restriction)**- Pavement cuts are not permitted with this Grade. The Agency may allow cuts on an emergency case by case basis. A written request must be submitted to the Engineer for approval. The Agency is in no way obligated to allow cutting of the pavement and any such decisions are at the Engineer's discretion. Pavement restoration may include full width (curb to curb) restoration.

(2) **Grade 2 (Full Standard)**- Pavement cuts must be full depth and extend twelve inches (12") beyond the nominal trench edge longitudinally and transversely and be a minimum of four feet (4') in width. Pavement cuts must be at lane or skip lines. Transverse trenches (perpendicular to the center line) that are less than 20' (inside edge to inside edge) apart shall be restored as one restoration. Restoration must extend from curb to fog/bike lane line (5-7' from curb); curb to centerline (in cut is past fog/bike lane line) and curb to curb (if past centerline).

**(3) Grade 3 (Modified Standard)-** Pavement cuts must be full depth and extend twelve inches (12") beyond the nominal trench edge longitudinally and transversely and be a minimum of four feet (4') in width. Pavement cuts must be at lane and skip lines or center of traveled lanes. Transverse trenches (perpendicular to the center line) that are less than 20' (inside edge to inside edge) apart must be restored as one restoration. Restoration must extend from:

- Curb to fog/bike lane line (5-7' from curb);
- Fog/bike lane line to center of traveled lane;
- Center of Traveled lane to center line;
- Fog/bike lane line to centerline; or
- Curb to curb (if past centerline).

**(4) Grade 4 (T-Cut Standard)-** Pavement cuts must be full depth and extend twelve inches (12") beyond the nominal trench edge longitudinally and transversely and be a minimum of four feet (4') in width.

Where new restorations abut or is within 4 feet of an existing restoration, the existing restoration will need to be replaced up to 20 feet from the edge of the new restoration. The extents will be determined by the Engineer.

Where 2 or more restorations on the same project are created within 20 feet of each other (inside edge of trench to inside edge of trench) they must be combined into one restoration. Where 3 or more restorations are within one block (300') every effort must be made to combine all three into one restoration. All restoration limits will be at the discretion of the Engineer.

Remove and dispose of Pavement lying within the limits of the cuts and from any adjoining areas damaged by the cutting and removal operations according to Section 00310.

The top lift of asphalt for all longitudinal repairs with a length that exceeds 30 feet must be placed using a paving machine with a screed or an asphalt spreader box