

## **Activity 112 Shoulder Rebuilding**

### Description

Activity 112 involves restoring and reshaping unpaved shoulder sections by adding and compacting aggregate material to ensure adequate width, smoothness, and drainage. It includes removal of any excess material. The objectives of this work are similar to those of Activity 111.

### General Instructions

Adjacent roadside ditches may be cleaned as an incidental part of this Activity, unless the material disturbed beyond the outside edge of subgrade will introduce unwanted soil or other material into the shoulder aggregate.

Refer to discussion in the General Instructions section preceding Activity 100 in this section of this Guide.

Perform this activity to maintain shoulders at the level allowed by the performance budget and as described in the *Desired Conditions of Maintenance Features on State Highways*.

Coordinate this work with any chemical control of vegetation, in the unpaved shoulder area, that is included in the Integrated Vegetation Management Program for the District. Refer to discussion in Activity 131.

Refer to Activity 111 if additional aggregate will not be added to the shoulder area.

Either remove and replace delineators and other objects in the area to be maintained or take care to prevent damage to them. Also take care to not damage culverts, subgrade drain outflows, electrical junction boxes, and other objects in the work area.

### Controlling Erosion, Sedimentation, and Pollutants or Contaminants

Plan and implement methods to control erosion, sedimentation, and pollutants or contaminants, including those discussed in the Control of Erosion, Sedimentation, and Pollutants or Contaminants section of this Guide and the *ODOT Routine Road Maintenance Water Quality and Habitat Guide Best Management Practices*.

As appropriate, implement and maintain devices and processes including those described in the *Field Manual for Erosion and Sediment Control*.

### Temporary Protection and Direction of Traffic

Plan, implement, and maintain traffic control as addressed in the *Traffic Control on State Highways for Short Term Work Zones* handbook.

### Equipment

Equipment may include:

- Grader (use two graders, as appropriate, to speed the operation and lessen the impact to traffic).
- Truck.
- Roller.
- Water truck, if water is needed for compaction.
- Sweeper.

### Materials

Materials may include:

- Shoulder aggregate.
- Water for compaction.

### Work Method

1. Implement appropriate traffic control.
2. Implement appropriate methods to control erosion and sedimentation.
3. Blade unpaved shoulder material toward the roadway.
4. Add additional material to the bladed berm or shoulder area.
5. Blade the material back onto the unpaved shoulder area and smooth to appropriate gradeline and slope.
6. Compact the unpaved shoulder material. Add water for compaction if needed.
7. Remove remaining material from the roadway surface by sweeping or other means.
8. Remove traffic control.

### Measurement of Accomplishment, Expenditure Account, and Charge Activity

Measurement is shoulder miles (kilometers) rebuilt. Expenditure account type is Highway EA. Designate a subjob of 800 if the work involves bicycle path facilities.

- Charge all activity to TEAMS Activity 112.