

Activity 112 Shoulder Blading/Rebuilding

Description

Activity 112 involves restoring and reshaping shoulder sections or gravel surfaces by hand or mechanical means, to ensure adequate width, smoothness and drainage. Additional aggregate or suitable material may or may not be added. It includes:

- Correct rutted shoulders.
- Correct drop-off's adjacent to the roadway surface.
- Restore the proper cross section shape.
- Remove build up debris or unwanted vegetation.
- Restore proper drainage on the shoulders.
- Repair erosion.
- Repairing truck escape ramps.

General Information

Refer to discussion in the General Instructions section preceding Activity 100 in this section of the *Maintenance Guide* for additional information including environmental and traffic control recommendations and other important considerations.

Adjacent roadside ditches may be cleaned as an incidental part of this activity.

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

Either remove delineators and other objects in the area to be maintained or take care to prevent damage to them. Most delineators removed from the shoulder can be re-used. Also take care to not damage culverts, subgrade drain outflows, electrical junction boxes, and other objects in the work area.

Use care when working around signs. Do not cover break away sign bases with material. If adding material around sign posts, sign elevation may need to be adjusted to maintain correct breakaway height so it may be necessary to consult with the Sign Crew.

Remove any material that fills in around culverts or drainage facilities.

NOTE: The *ODOT Routine Road Maintenance Water Quality and Habitat Guide Best Management Practices* book lists Shoulder Blading (Activity 111) and Shoulder Rebuilding (Activity 112) separately. Activities 111 and 112 are no longer separate; the work performed under these is combined and now designated a single Activity number of 112. When referencing the guidebook, use appropriate Best Management Practices for activity.

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.
- Loader.

Materials

Materials may include:

- Shoulder aggregate.
- Water for compaction.
- Delineator posts, paddles and rivets if any are damaged during removal and replacement.

Work Method

1. Identify project area.
2. Implement appropriate traffic control.
3. Implement appropriate methods of erosion, sediment control, or pollutants and contaminants control.
4. Blade unpaved shoulder material toward the roadway.
5. Add additional material to the bladed berm or shoulder area if appropriate.
6. Blade the material back onto the unpaved shoulder area and smooth to appropriate gradeline and slope.
7. Compact the unpaved shoulder material. Add water for compaction if needed.
8. Remove remaining material from the roadway surface by sweeping or other means.
9. Replace any delineation that has been removed.
10. To prevent environmental damage, clean tools and equipment using Best Management Practices.
11. Remove traffic control.

Measurement of Accomplishment, Expenditure Account, and Charge Activity

Measurement is shoulder miles rebuilt. Expenditure account type is Highway EA; use a sub job appropriate for the crew performing the work.

Use a sub job within the 800 series if the work involves bicycle path facilities. These sub jobs are assigned by the Maintenance Management System (MMS) Unit based on the type of work performed.

- Charge all activity to Activity 112.