

Activity 107 Inlay Repair

Description

Activity 107 involves removing localized areas of defective bituminous surfacing and inlay paving with replacement surfacing material. The defective surfacing includes defective utility repair areas, potholes, shoved pavement, raveled pavement, rutted pavement, and similar irregularities. This activity includes placement of temporary pavement markers or markings as needed.

General Instructions

Perform this activity to restore the structural integrity of the surfacing and to restore smoothness, rideability, and drainage.

Also refer to discussion in the General Instructions section, preceding Activity 100 in this section of this Guide, about when Activity 107 may be needed.

Refer to Activity 102 if unstable base or subgrade material must also be repaired or replaced.

If manholes, other surface structures, traffic signal detection devices, or other facilities will be affected by this work, assure that the affected facilities are properly adjusted, repaired, or replaced.

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*.

Also implement appropriate practices to control or contain waste material from the removal operation, from the tack operation, from cleanup of tools or equipment, or other operations. Use only approved release agents in truck beds, on tires, and on tools. Do not use diesel for this purpose.

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:

- Cold planer (pavement miller) with water supply (may use pavement saw and jackhammer or backhoe for smaller areas).
- Truck.
- Sweeper.
- Device to haul, heat if needed, and apply tack coat.
- Placement device for replacement surfacing unless placed by hand methods.
- Roller, wacker, or appropriate compaction device.

Materials

Materials may include:

- Asphalt concrete mixture.
- Liquid asphalt cement for tack.
- Temporary pavement markers or other appropriate marking material.

Work Method

1. Identify areas to be repaired.
2. Implement appropriate traffic control.
3. Implement appropriate methods to control or contain removed material and to prevent erosion and sedimentation.
4. Use cold planer (pavement miller) or other appropriate method to remove defective surfacing.
5. Refer to Activity 102 if base material or subgrade material is unstable or if subsurface water is present.
6. Apply tack coat and allow to properly cure or break before placing asphalt concrete mixture.
7. Place the asphalt concrete mixture in lifts of 2 inches (50 mm) or less and compact properly. Assure that the finished surface is acceptably smooth for good rideability.
8. If the surface joint between new and existing material is not well sealed, apply tack to that joint and apply sand or other material on the tack to prevent vehicles from damaging it.
9. If structures in the roadway surface, traffic signal detector devices, or other facilities were affected by or damaged by this work, assure that the impacted facilities are properly adjusted, repaired, or replaced.
10. If pavement markers or markings were removed by the repair, place temporary pavement markers or markings as appropriate.
11. Remove traffic control.
12. Clean tools and equipment to prevent environmental damage.
13. Dispose of removed or waste material in an appropriate location.

Measurement of Accomplishment, Expenditure Account, and Charge Activity

Measurement is tons (megagrams) of asphalt concrete mixture placed. Expenditure account type is Highway EA. Also record the milepoint locations of work performed, for use by the Pavement Management System.

- Charge all work to TEAMS Activity 107.