

Activity 107 Inlay Repair/Profiling

Description

Activity 107 involves removing and/or replacing, reshaping or texturing of bituminous pavement that has unraveled, settled, rutted, potholed, polished, shoved, flushed or is defective due to utility repair or other similar irregularities. It involves the use of a cold planer (pavement miller), diamond grinder, or other profiling and texturing devices to improve transverse and longitudinal profiles, friction, ride, and drainage. It includes:

- Adjusting manholes, valve boxes or covers, inlets, and other structures to accommodate the inlay, profiling or texturing.
- Removing bituminous material from bridge decks to reduce dead load.
- Applying a fog seal material as needed to seal the textured surface.

This activity includes the installation of temporary pavement markers or markings.

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.

Refer to Activity 100 if unstable base or subgrade material must also be repaired or replaced.

Refer to Activity 182 for significant or frequent repair of settlements and slides.

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

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.

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, whacker, 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 of erosion, sediment control, or pollutants and contaminants control.
4. Use cold planer (pavement miller) or other appropriate method to remove defective surfacing.
5. Refer to Activity 100 if base material or subgrade material is unstable or if subsurface water is present.
6. Perform profiling or texturing needed to correct uneven roadway surface.
7. Repair deficient surfacing resulting from or discovered during the profiling or texturing work.
8. Apply tack coat and allow to properly cure or break before placing asphalt concrete mixture.
9. Place the asphalt concrete mixture in lifts of 2 inches or less and compact properly. Ensure that the finished surface is acceptably smooth for good rideability.
10. 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.
11. If structures in the roadway surface, traffic signal detector devices, or other facilities were affected by or damaged by this work, ensure that the impacted facilities are properly adjusted, repaired, or replaced.
12. If pavement markers or markings were removed by the repair, place temporary pavement markers or markings as appropriate.
13. Remove traffic control.
14. To prevent environmental damage, clean tools and equipment using Best Management Practices.
15. Dispose of removed or waste material in an appropriate location.

Measurement of Accomplishment, Expenditure Account, and Charge Activity

Measurement is tons of asphalt concrete mixture placed. Expenditure account type is Highway EA; use a sub job appropriate for the crew performing the work.

Record the mile point locations of work performed, for use by the Pavement Management System.

If preparing a Betterment Order for this Activity, note as many details as possible on the form to help track costs, location, and other relevant details.

- Charge all work to Activity 107.