MAINTENANCE PLANNING GUIDELINES

2006

ACTIVITY: Roadway Shoulders (R225)

ACTION: Repair Concrete Shoulders &

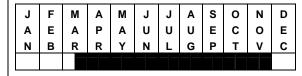
Approaches

MAJOR & MINOR

DEFINITION: The time and expenses incurred to expand installation and maintenance of asphalt concrete and aggregate roadway shoulder, approaches and clear zones.

PURPOSE: Eliminate potholes and shoulder drop-off to adjacent shoulder or pavement.

SCHEDULING: As needed, or 50°F and above.



RECOMMENDED EQUIPMENT:

- Trucks
- Dowell Drill
- Concrete Saw
- Wheel Saw
- Backhoe or Loader
- Traffic Control Equipment; (See EPG 616.23 Traffic Control for Field Operations)

RECOMMENDED MATERIAL:

- 8-½ Bag Ready Mix
- Calcium Chloride
- 1" Epoxy Coated Dowel Bars Spaced5 Per Wheel Path on 12" ctrs
- Liquid Emulsified Asphalt
- Curing Compound

RECOMMENDED PROCEDURE:

- 1. Place traffic control devices as needed.
- 2. Use wheel saw in middle of repair to relieve stress or make the piece smaller to aid removal.
- 3. Saw patch perimeter with diamond blade concrete saw.
- 4. Remove concrete.
- 5. Prepare subgrade.
- 6. Place forms.
- 7. Align, drill, and install greased dowels.
- 8. Dampen subgrade and forms.
- 9. Place and vibrate concrete.
- 10. Screed and finish surface.
- 11. Edge, texture and date patch.
- 12. Spray with curing compound.
- 13. Cure to strength.
- 14. Remove forms and repair inslope.
- 15. Remove loose material.
- 16. Pour liquid asphalt around edges.
- 17. Remove traffic control devices.

SAFETY: Extreme care should be exercised when working adjacent to traffic. Wear all appropriate PPE. Refer to Safety Policies, Rules & Regulations – Employee Handbook.

OTHER CONSIDERATIONS: Concrete should be from a calibrated ready-mix plant.

REFERENCES: Missouri Standard Specifications for Highway Construction; Section 613.10. Missouri Standard Plan 613.00.