MAINTENANCE PLANNING GUIDELINES

2006

ACTIVITY: Roadway Shoulders (R225)

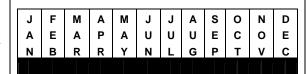
MAJOR & MINOR

ACTION: Pothole Patching Asphalt & Partial Depth Concrete

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

PURPOSE: To restore shoulder shape, stability, and appearance by the repair of asphalt or concrete.

SCHEDULING: As needed when pavement surfaces are 50°F or above. Reference the Incident Response Plan for priorities.



RECOMMENDED EQUIPMENT:

- Asphalt Distributor
- Vibratory Compactor or Hand Tamper, Small Roller
- Injection Patcher
- Pavement Saw
- Rotomill
- Dump Trucks or Thermolay Truck
- Traffic Control Equipment;
 (See EPG 616.23 Traffic Control for Field Operations)

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RECOMMENDED PROCEDURE:

- 1. Place traffic control devices as required.
- 2. Square up area as necessary.
- 3. Remove fractured/temporary material.
- 4. Prime with appropriate material.
- 5. Fill hole with material and compact in 2 inch layers. (Asphalt)
- 6. Level patch with rake to ½ inch above pavement surface. (Asphalt)
- 7. Finish patch to existing surface. (Concrete)
- 8. Seal edges.
- 9. Remove traffic control devices.

RECOMMENDED MATERIAL:

- Liquid Asphalt Tack Grades
- Cold Mix
- Hot Mix
- Concrete

SAFETY: Care should be taken to remove excess asphaltic material. Wear all appropriate PPE. Refer to Safety Policies, Rules & Regulations – Employee Handbook.

OTHER CONSIDERATIONS: Care should be taken to maintain proper drainage.

REFERENCES: Missouri Standard Specifications for Highway Construction; 401, 1004, 1015, 613.2.

<u>R225 – Roadway Shoulders (Shoulder Pothole Patching - Asphalt)</u>



(1) Priming Shoulder with Tack



(2) Box Spreading Hot Mix Asphalt



(3) Box Spreading Continued



(4) Rolling Hot Mix Asphaltic Shoulder --Finished Product