

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.

J	F	M	A	M	J	J	A	S	O	N	D
A	E	A	P	A	U	U	U	E	C	O	E
N	B	R	R	Y	N	L	G	P	T	V	C

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](#))

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](#).

R225 – Roadway Shoulders (Shoulder Pothole Patching - Asphalt)



(1) Priming Shoulder with Tack



(2) Box Spreading Hot Mix Asphalt



(3) Box Spreading Continued



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