

MAINTENANCE PLANNING GUIDELINES		2006																																																
ACTIVITY: Patching Roads (R311) MAJOR & MINOR	ACTION: Pothole Patching (Permanent partial depth repair on asphaltic or concrete pavements)																																																	
DEFINITION: The time and expenses incurred for permanent repairs of potholes by hand or machine.																																																		
PURPOSE: To restore the safety, rideability, appearance and durability through the repair of roadway or bridge surfaces.																																																		
SCHEDULING: Repairs should be made as soon as priorities allow. Major Routes will take priority over Minor Routes. Reference the Incident Response Plan for priorities.	<table border="1" style="width: 100%; text-align: center;"> <tr> <td>J</td><td>F</td><td>M</td><td>A</td><td>M</td><td>J</td><td>J</td><td>A</td><td>S</td><td>O</td><td>N</td><td>D</td> </tr> <tr> <td>A</td><td>E</td><td>A</td><td>P</td><td>A</td><td>U</td><td>U</td><td>U</td><td>E</td><td>C</td><td>O</td><td>E</td> </tr> <tr> <td>N</td><td>B</td><td>R</td><td>R</td><td>Y</td><td>N</td><td>L</td><td>G</td><td>P</td><td>T</td><td>V</td><td>C</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>		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												
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RECOMMENDED EQUIPMENT: <ul style="list-style-type: none"> • Dump Trucks or Thermolay Truck • Air Compressor w/Jack Hammers or Roto-mill • Pavement Saw • Compaction device; Vibratory Compactor or Small Power Roller • Asphalt Distributor • Traffic Control Equipment Reference the (See EPG 616.23 Traffic Control for Field Operations)	RECOMMENDED PROCEDURE: <ol style="list-style-type: none"> 1. Place traffic control devices as required. 2. Square up area. 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: <ul style="list-style-type: none"> • Priming Material • Hot Mix • Concrete 																																																		
SAFETY: Clean up and remove excess material. Wear all appropriate PPE. Refer to Refer to Safety Policies, Rules & Regulations – Employee Handbook.																																																		
OTHER CONSIDERATIONS: Recommend the use of Skid-steer w/milling attachment for removal of area. Recommend the use of air compressor to blow out and clean repair just prior to placing material.																																																		
REFERENCES: Missouri Standard Specifications for Highway Construction Section 613.20 and 613.30 for permanent repairs.																																																		

R311 – Patching Roads (Pothole Patching Permanent Partial Depth)



(1) Permanent Partial Depth Patch



(2) Permanent Partial Depth Patch



(3) Sweeping a section of partial depth milled asphalt



(4) Laying Asphalt on prepped area



(5) Finishing Partial Depth Asphalt Patch



(6) Finished Product



(7) Deteriorated Concrete Joint/Spall



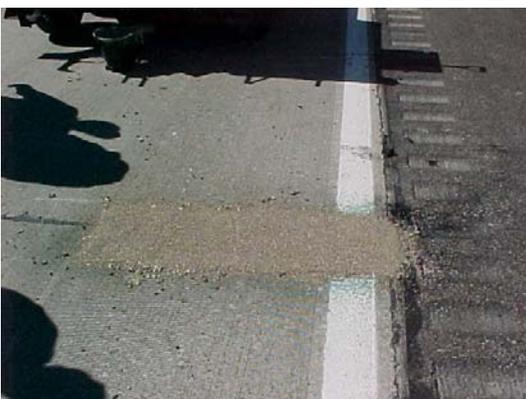
(8) Preping Pothole with Milling Attachment



(9) Prepped Pothole Prior to Patching



(10) Newly Poured Pothole with High Type Patching Material



(11) Finished Product



(12) Milling Pothole with Attachment

*Missouri Department of Transportation
Maintenance Activity Planning Guidelines*



(13) Milled Concrete Pavement Pothole



(14) Sweeping Concrete Pavement Pothole



(15) Prepped Pothole



(16) Raking Hot-Mix into Pothole



(17) Compacting Hot Mix Patch



(18) Finished Product