

<b>MAINTENANCE PLANNING GUIDELINES</b>		2006																																																
<b>ACTIVITY:</b> Bridge Preventative Maintenance (R322) <b>MAJOR &amp; MINOR</b>	<b>ACTION:</b> Bridge Seal Coats (SY)																																																	
<b>DEFINITION:</b> The time and expenses incurred for the application of preventative maintenance treatments to bridges. Examples include bridge seal coats and linseed oil and in-deck seals.																																																		
<b>PURPOSE:</b> To seal bridge decks with excessive cracking to prevent intrusion of water and chlorides into the bridge deck.																																																		
<b>SCHEDULING:</b> Seals should be scheduled after surface repairs are completed. Work should be performed in July and August	<table border="1" style="margin-left: auto; margin-right: auto;"> <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 style="background-color: black;"></td><td style="background-color: black;"></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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<b>RECOMMENDED EQUIPMENT:</b> <ul style="list-style-type: none"> <li>• Dump Trucks</li> <li>• Truck Distributor</li> <li>• Power Roller/Pneumatic Roller</li> <li>• Aggregate Spreader</li> <li>• Broom</li> <li>• Traffic Control Equipment; (See EPG 616.23 Traffic Control for Field Operations)</li> </ul>	<b>RECOMMENDED PROCEDURE:</b> <ol style="list-style-type: none"> <li>1. Deck should be cleaned, flushed, and allowed to dry prior to sealing.</li> <li>2. Place traffic control devices as needed.</li> <li>3. Cover expansion devices and other features that are not to be sealed over with felt paper.</li> <li>4. Chip seals are to extend a minimum of 30 feet beyond each bridge end.</li> <li>5. Apply liquid asphalt at a rate of 0.3 to 0.5 gal./SY, depending on size of cover aggregate and slope of bridge deck.</li> <li>6. Spread cover aggregate, at a rate of 25 to 30 lbs./SY, immediately following application of liquid asphalt. Adequate cover aggregate must be applied to prevent tracking. Do not place cover aggregate within 2 ft. of curb.</li> <li>7. Roll immediately after placing cover aggregate.</li> <li>8. Lightly broom excess chips after seal is properly cured (when chips are securely held).</li> <li>9. Repeat for adjacent lanes.</li> <li>10. Remove traffic control devices. Leave "Loose Gravel" signs in place as needed.</li> <li>11. Return the next day or two to again thoroughly sweep bridge deck to remove loose aggregate. Remove aggregate on lower chords and substructure caps.</li> </ol>																																																	
<b>RECOMMENDED MATERIAL:</b> <ul style="list-style-type: none"> <li>• Liquid Asphalt (EA90P, CRS-2P)</li> <li>• Cover Aggregate (Iron Mountain trap rock, Joplin chat, or other approved material)</li> </ul>																																																		
<b>SAFETY:</b> Watch for flying rocks and traffic in adjacent lanes. Wear all appropriate PPE. Refer to the Safety Policies, Rules & Regulations – Employee Handbook.																																																		
<b>OTHER CONSIDERATIONS:</b> May install "Loose Gravel" signs until the loose aggregate is removed from the bridge deck.																																																		
<b>REFERENCES:</b> EPG 771.15 Chip Seal to Entire Deck.																																																		