

<b>MAINTENANCE PLANNING GUIDELINES</b>		2006																																																
<b>ACTIVITY:</b> Pipe Culvert Repairs (R319)  <p style="text-align: center;"><b>MAJOR &amp; MINOR</b></p>	<b>ACTION:</b> Clean & Repair Pipe & Box Culverts <i>A. Pipe Culverts</i>																																																	
<b>DEFINITION:</b> The time and expenses incurred from removing and replacing pipe culverts. Includes time and expenses incurred for installing a new lining in an existing culvert.																																																		
<b>PURPOSE:</b> To clean, align, and repair pipe culverts and related structures.																																																		
<b>SCHEDULING:</b> As needed.	<table border="1" style="margin: 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 style="background-color: black;"> <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												
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																																							
<b>RECOMMENDED EQUIPMENT:</b> <ul style="list-style-type: none"> <li>• Trucks</li> <li>• Water Tank w/Trash Pump</li> <li>• Concrete Mixer</li> <li>• Jack</li> <li>• Loader</li> <li>• Skid Steer Loader</li> <li>• Chainsaws</li> <li>• Tube Flusher</li> <li>• Traffic Control Equipment, Reference (See EPG <a href="#">616.23 Traffic Control for Field Operations</a>)</li> </ul>	<b>RECOMMENDED PROCEDURE:</b> <ol style="list-style-type: none"> <li>1. Call Dig Rite and MoDOT to check for utilities.</li> <li>2. Place traffic control devices as needed.</li> <li>3. Fill open joints with joint compound</li> <li>4. If headwall, flared end section, or pipe end section is settled, align section with jack or loader and compact material under section for support.</li> <li>5. If ends of corrugated metal pipe are bent and restricted, open with jack.</li> <li>6. Clean excess compound and debris from work area.</li> <li>7. Remove traffic control devices.</li> </ol>																																																	
<b>RECOMMENDED MATERIAL:</b> <ul style="list-style-type: none"> <li>• Concrete</li> <li>• Plastic Joint Compound</li> <li>• Form Material</li> <li>• Water</li> <li>• Curing Compound</li> </ul>																																																		
<b>SAFETY:</b> Call before you dig to locate utilities (1-800-DIG-RITE). Watch those “pinch points.” Wear all appropriate PPE. Refer to the <a href="#">Safety Policies, Rules &amp; Regulations – Employee Handbook</a> .																																																		
<b>OTHER CONSIDERATIONS:</b> Check if Corps of Engineers permit is needed.																																																		
<b>REFERENCES:</b> N/A																																																		