

MAINTENANCE PLANNING GUIDELINES												2/2014																																					
ACTIVITY: Pipe Culvert Repairs (R319)						ACTION: Clean & Repair Box Culverts																																											
MAJOR & MINOR																																																	
DEFINITION: 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 and cleaning and repairing culverts.																																																	
PURPOSE: To clean, repair, and fill voids of box culverts and restore roadway drainage.																																																	
SCHEDULING: As needed.						<table><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></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">• Trucks• Loader, Backhoe, or Excavator• Concrete Mixer• Compressor/Breakers• Water Tank w/Trash Pump• Traffic Control Equipment, Reference (See EPG 616.23 Traffic Control for Field Operations).						RECOMMENDED PROCEDURE: <ol style="list-style-type: none">1. Contact Dig Rite and others to mark utilities2. Place traffic control devices as needed. <u>CLEAN OUT</u> <ol style="list-style-type: none">1. Remove drift and debris as needed. <u>REPAIR</u> <ol style="list-style-type: none">1. Remove bad concrete, form, and pour concrete. <u>FILL VOIDS</u> <ol style="list-style-type: none">1. Fill large voids and eroded outlet areas with quarry run rock and if needed grout with concrete.2. Internal voids along the barrel sides and bottom should be mudjacked.3. Remove traffic control devices.																																											
RECOMMENDED MATERIAL: <ul style="list-style-type: none">• Concrete• Water• Quarry Run Rock• Form Material• Cement• Agricultural Lime																																																	
SAFETY: Refer to the Comprehensive Safety Program sharepoint portal . Wear all appropriate PPE. Refer to the Risk Based Assessment for additional information																																																	
OTHER CONSIDERATIONS: Check if Corps of Engineers permit is needed.																																																	
REFERENCES: N/A																																																	