

MAINTENANCE PLANNING GUIDELINES

2/2014

ACTIVITY: Pipe Culvert Repairs (R319)

ACTION: Install Pipe Liners (LF)

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 install new pipe liners in existing pipe culverts.

SCHEDULING: As needed.

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:

- Trucks
- Backhoe
- Loader
- Mudjack or Concrete Mixer
- Traffic Control Equipment; reference the (See EPG [616.23 Traffic Control for Field Operations](#))

RECOMMENDED PROCEDURE:

1. Consult district Design on size and placement of pipe liner.
2. Contact Dig Rite and others to mark utilities.
3. Place traffic control devices as needed.
4. Clean out ditch, if necessary, to make room for liner.
5. Insert liner.
6. Form upstream and downstream ends and mudjack between liner and existing pipe.
7. Grade and reshape shoulder, as necessary.
8. Seed, mulch and place erosion control items as necessary
9. Clean work area.
10. Remove traffic control devices.

RECOMMENDED MATERIAL:

- Pipe Liner
- Slurry Mix
- Portland Cement
- Agricultural Lime
- Water

SAFETY: Refer to the [Comprehensive Safety Program sharepoint portal](#). Wear all appropriate PPE. Refer to the [Risk Based Assessment](#) for additional information.

OTHER CONSIDERATIONS: Use appropriate size liner for application. Follow manufacturer’s instructions on installation.

REFERENCES: Missouri Standard Specifications for Highway Construction Section [735](#).