

MAINTENANCE PLANNING GUIDELINES

2006

ACTIVITY: Drainage (R316)

ACTION: Repair Paved Ditches & Slopes

MAJOR & MINOR

DEFINITION: The time and expenses incurred for the installation, repair and maintenance of roadway drainage ditches, structures, and all slide repairs. This includes installing and maintaining pavement drainage systems.

PURPOSE: To maintain drainage by the repair of broken or settled sections of paved ditches, slopes and related drain basins.

SCHEDULING: Schedule when sections cannot be repaired by mudjacking or backfilling, when temperature is above freezing.

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:

- Compressor/Breakers
- Loader or Backhoe
- Backhoe Mounted Stinger
- Trucks
- Traffic Control Equipment;
(See EPG 616.23 [Traffic Control for Field Operations](#)).

RECOMMENDED PROCEDURE:

1. Call Dig Rite and check for MoDOT utilities, if digging or earthwork is involved.
2. Place traffic control devices as needed.
3. Break settled or damaged sections, and fill and shape damaged sections with clean shotrock.
4. Pour grout mix into shotrock and shape surface.
5. Drain basins should be repaired by removing damaged sections, forming and pouring new concrete to match existing grades.
6. Remove traffic control devices.

RECOMMENDED MATERIAL:

- Ready-Mix Concrete
- Shotrock
- Seed
- Mulch
- Silt Fence, Straw Bales, Rock (for Berms), Triangular Silt Dyke, Coir Fiber Logs
- Sod
- Erosion Control Blankets

NOTE: Other alternative methods for repairing paved ditches and slopes are becoming available, please see attached pictures.

SAFETY: Call before you dig to locate utilities (**1- 800-DIG-RITE**). Watch for traffic when operating equipment on the roadway. Wear all appropriate PPE. Refer to the [Safety Policies, Rules & Regulations – Employee Handbook](#).

OTHER CONSIDERATIONS: N/A

REFERENCES: Missouri Standard Specifications for Highway Construction Section; [609.10](#), [802](#), [803](#), [805](#), [806](#). Missouri Standard Plans, [806.10](#).