MAINTENANCE PLANNING GUIDELINES

2006

ACTIVITY: Drainage (R316)

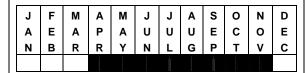
ACTION: Repair Paved Ditches & Slopes

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.



RECOMMENDED EQUIPMENT:

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

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

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.

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.