## MAINTENANCE PLANNING GUIDELINES

01/2014

ACTIVITY: Roadway & Bridge Safety Features (R227)

**ACTION:** Traffic Barriers (Concrete)

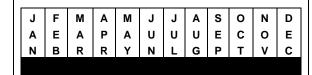
B. Repair

**MAJOR & MINOR** 

**DEFINITION**: The time and expenses incurred for installing and maintaining concrete traffic barriers along the roadway.

**PURPOSE:** The repair of cast-in-place concrete traffic barrier.

**SCHEDULING:** Minor damaged areas may be scheduled in groups. Extensively damaged sections should be repaired the first normal working day with temperatures above 40°F.



## **RECOMMENDED EQUIPMENT:**

- Boom Truck and/or Loader
- Dump Truck
- Air Compressor/Drill
- Concrete Mobile
- Concrete Mixer
- Concrete Saw
- Chop Saw
- Cutting Torch
- Traffic Control Equipment; (See EPG 616.23 Traffic Control for Field Operations)

## **RECOMMENDED MATERIAL:**

- Paraffin Oil (paraffin base)
- Bonding Compound
- Cement, Sand, Rock, Water
- Curing Compound
- Concrete Accelerator
- Ready-Mix Concrete

## **RECOMMENDED PROCEDURE:**

- 1. Contact Dig Rite and others to mark utilities.
- 2. Place traffic control devices as needed.
- 3. Clean broken concrete surface or use concrete saw to square up the broken area.
- 4. Replace damaged rebar.
- 5. Oil and set forms.
- 6. Apply bonding compound to existing surface of old concrete.
- 7. Mix and place 7 sack mix of concrete (DO NOT USE DURACAL).
- 8. Finish and apply curing compound.
- 9. Clean work area.
- 10. Remove traffic control devices.
- 11. Remove forms after 4 days or when desired strength is reached.

**SAFETY:** Watch for traffic in adjacent lanes. Refer to the <u>Comprehensive Safety Program sharepoint portal</u>. Wear all appropriate PPE. Refer to the <u>Risk Based Assessment</u> for additional information.

OTHER CONSIDERATIONS: Replace any damaged or missing traffic control devices.

**REFERENCES:** Missouri Standard Specifications for Highway Construction; Section 617