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| MAINTENANCE PLANNING GUIDELINES | 2006 |
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| ACTIVITY: Roadway & Bridge Safety Features (R227) MAJOR & MINOR | ACTION: Traffic Barriers (Concrete) <i>B. Repair</i> |
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DEFINITION: The time and expenses incurred for installing and maintaining fences along the roadway, guardrails and end treatments, guard cable, impact attenuator devices for roadside obstacles; and all cost to maintain concrete traffic barriers, sidewalks and bicycle paths and raised pavement markers.

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

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| 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. | <table border="1" style="margin: auto; border-collapse: collapse;"> <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> <tr style="background-color: black; height: 10px;"> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></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 | | | | | | | | | | | | |
| 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"> • 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 PROCEDURE: <ol style="list-style-type: none"> 1. Place traffic control devices as needed. 2. Clean broken concrete surface or use concrete saw to square up the broken area. 3. Replace damaged rebar. 4. Oil and set forms. 5. Apply bonding compound to existing surface of old concrete. 6. Mix and place 7 sack mix of concrete (DO NOT USE DURACAL). 7. Finish and apply curing compound. 8. Clean work area. 9. Remove traffic control devices. 10. Remove forms after 4 days or when desired strength is reached. |
| RECOMMENDED MATERIAL: <ul style="list-style-type: none"> • Paraffin Oil (paraffin base) • Bonding Compound • Cement, Sand, Rock, Water • Curing Compound • Concrete Accelerator • Ready-Mix Concrete | |

SAFETY: Watch for traffic in adjacent lanes. Wear all appropriate PPE. Refer to [Safety Policies, Rules & Regulations-Employee Handbook](#).

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

REFERENCES: Missouri Standard Specifications for Highway Construction; Section [617](#)