### MAINTENANCE PLANNING GUIDELINES

2/2014

**ACTIVITY:** Bridge Deck Repair

(R323)

**MAJOR & MINOR** 

**ACTION:** Deck Repair (SY)

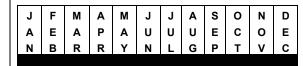
B. Asphalt

**DEFINITION:** The time and expenses incurred for permanent repairs to bridge deck, including the repair or replacement of timber decks.

**PURPOSE:** Replacement of deteriorated asphaltic overlay with hot mix asphalt to restore rideability and prevent further damage to the structure.

**SCHEDULING:** Repair as needed when

conditions permit.



# **RECOMMENDED EQUIPMENT:**

- Dump Trucks
- Flatbed or Van
- Concrete Saw
- Air Compressor
- Roller or Pan Vibrator
- Roto Mill (optional)
- Traffic Control Equipment; reference (See EPG 616.23 Traffic Control for Field Operations)

#### **RECOMMENDED MATERIAL:**

- Hot Mix Asphalt
- Liquid Asphalt Tack
- Sand

## **RECOMMENDED PROCEDURE:**

- 1. Place traffic control devices as needed.
- 2. Mark limits of patch areas by visual and sounding methods.
- 3. Saw all patch edges.
- 4. Remove old asphalt or patching material and any loose concrete below patch area. If loose concrete is removed below the reinforcing steel, then repair should be made using guidelines for Function R323A for Concrete.
- 5. Remove fines from patch area.
- 6. Cover patch bottom and sides with liquid asphalt tack.
- 7. Place hot mix and strike off ½-in. higher than adjacent surfaces for each inch deep.
- 8. Compact with roller or vibrator.
- 9. Pour patch edges and any other cracks within the work zone.
- 10. Remove traffic control devices.

**SAFETY:** Clean up and remove excess material. Do not blow debris into adjacent traffic lanes, or travel lanes and waterways beneath the structure. Refer to the <u>Comprehensive Safety Program</u> <u>sharepoint portal</u>. Wear all appropriate PPE. Refer to the <u>Risk Based Assessment</u> for additional information.

## **OTHER CONSIDERATIONS:**

**REFERENCES:** Missouri Standard Specifications for Highway Construction Section 216. 30; **EPG** 771.9 Temporary Bridge Deck Repair.