

**SECTION 03924**

**STRUCTURAL CONCRETE REPAIR**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Restore to sound condition:
  - 1. Column
  - 2. Pedestal
  - 3. Bent Cap
  - 4. Pier Cap
  - 5. Diaphragm
  - 6. Wingwall
  - 7. Abutment Backwall
  - 8. Beam End

**1.2 RELATED SECTIONS**

- A. Section 03922: Delamination Repair
- B. Section 03935: Epoxy Injection and Sealing

**PART 2 PRODUCTS**

**2.1 MATERIALS**

- A. Refer to Sections 03922 and 03935.

**2.2 BEAM END REPAIR SURFACE SEALING MATERIAL**

- A. Non-penetrating.
- B. Use an approved concrete epoxy sealer product from the Accepted Products Listing available at <http://www.dot.utah.gov/res>.

## **PART 3 EXECUTION**

### **3.1 CRACK REPAIR**

- A. Repair cracks from 1/64 inch to 1/4 inch wide by epoxy injection and sealing. See Section 03935.
- B. Repair cracks greater than 1/4 inch wide as "delaminated concrete."

### **3.2 DELAMINATION REPAIR**

- A. Repair delaminated concrete by delamination repair. Refer to Section 03922.
- B. Beam End Delamination Repair: Use a patching concrete.
- C. After concrete removal:
  - 1. Repair any crack found in a delaminated area according to Section 03935.
  - 2. After the injection operation, apply surface sealing after repairing the delaminated area.
- D. When surface sealing after crack injection and delamination repair operations:
  - 1. Use epoxy sealer for surface sealing exclusively.
  - 2. Apply sealer to a minimum beam length of 4 ft covering all surfaces in that beam segment.

END OF SECTION