

SPECIAL SPECIFICATION**5584****Concrete Rail and Concrete Barrier Repair**

- 1. Description.** Prepare and repair sections of concrete rail, concrete traffic barrier, parapet walls and wingwalls, in accordance with the details on the plans and this Item.
- 2. Materials.** Furnish materials in accordance with the following:
 - Item 429, "Concrete Structure Repair"
- 3. Types of Repair.**
 - A. Type I.** Type I repair is defined as spalled or chipped surface areas of the sections with depths of 0 to 2 in. as measured from the original surface.
 - B. Type II.** Type II repair is defined as damaged sections with depths greater than 2 in. and less than or equal to 9 in., as measured from the top of the original structure.
 - C. Type III.** Type III repair is defined as damaged sections with depths greater than 9 in. and less than or equal to 1 ft. 7 in. as measured from the top of the original structure.
 - D. Type IV.** Type IV repair is defined as damaged sections with depths greater than 1 ft. 7 in., as measured from the top of the original structure.

Measurement of the depths for the Type of repair will be as shown on the plans or as directed by the Engineer.
- 4. Construction.** Repair damaged concrete sections shown on the plans or as directed by the Engineer in accordance with Item 429, "Concrete Structure Repair".
- 5. Measurement.** For each repair location, measurement and payment will be established by the greatest depth of repair. This Item will be measured as follows:
 - A. Type I.** "Concrete Rail and Concrete Barrier Repair (Type I)" will be measured by the square foot, in place, as measured on the surface of the repair. When a repair involves multiple surfaces, such as a corner, measurement will be made of all surfaces repaired. The minimum area for payment of each damage repair is as specified in the plans or specifications.
 - B. Type II, Type III, Type IV.** "Concrete Rail and Concrete Barrier Repair (Type II)", "Concrete Rail and Concrete Barrier Repair (Type III)", and "Concrete Rail and Concrete Barrier Rail (Type IV)" will be measured by the foot, complete in place, as measured along the top of the structure. The minimum quantity for payment of each damage repair is as specified in the plans or specifications.

6. **Payment.** The work performed and materials furnished in accordance with this Item and measured as provided under “Measurement”, will be paid for at the unit price bid for “Concrete Rail and Concrete Barrier Repair” of the type specified.

This price shall be full compensation for furnishing and placing all materials, removing all loose or defective concrete, breaking back concrete as required, loading, hauling, and disposal of the broken concrete, cleaning reinforcing steel, for furnishing and placing new reinforcing steel, drive pins, studs, expansion bolts, dowels, and for all labor, equipment, tools and incidentals.