000-Notes to designer: Use when existing manholes are in wheel paths or Maintenance requests installation. Typically used in RABs. Can be modified for Inlets. (DELETE FROM CONTRACT)

1. Adjusting Manhole Covers with Rubber Rings, Item SPV.0060.###.

A Description

This special provision describes providing rubber rings to adjust manhole covers. Follow Standard Spec 611 and as follows.

B Materials

Furnish rubber grade rings from the department’s approved product list. The rubber rings will have a flat, tapered or flat and tapered configuration of a size that closely matches the inner and outer dimensions of the structure; which could be circular or rectangular.

Joint sealant must conform to the rubber ring’s manufacturer’s recommendations. If there are no recommendations a cold applied joint sealant conforming to ASTM-D-1850 Polyurethane Door, Window and Siding Sealant or PL Premium Polyurethane Concrete and Masonry Sealant or equivalent can be used.

All other materials conform to Standard Spec 611.2.

C Construction

Conform to standard spec 611 and add to 611.3 the following:

Adjust existing covers with rubber rings not exceeding 4-inches in height. If adjustment is greater than 4 inches use combination of 1 concrete ring and at least 1 rubber ring to the required elevation. The rubber ring will be installed immediately below the casting in either installations.

Taper the rubber rings to match the cross slope and profile of the roadway.

Shimming or mortaring the concrete ring to meet the desired elevation, crown or both and slope of the proposed roadway is not allowed when a 4-inch concrete ring or greater is needed.

*Bonding the adjustment rings:*

All surfaces receiving sealing compound shall be clean, dry and free of grease or oils.

Lay a continuous bead, 5/16-inch-thick, 1 inch smaller than the rubber ring diameter, joint sealant on the top of the surface that the rubber ring will be bonded to. This can be concrete or additional rubber rings.

Set the casting firmly in place taking care to properly center it over the structure opening and ensuring a firm contact between the casting and the grade ring placing the sealant as described above.

Sealant must be fully cured before backfilling around grade rings and castings.

Compact around each manhole.

D Measurement

The department will measure Adjusting Manhole Covers with Rubber Rings as each individual unit, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER DESCRIPTION UNIT

SPV.####.### Bid Item Name UNIT

Payment is full compensation for providing rings, sealant, adjusting manholes and backfilling.

ner-611-010 (20190719)