1. Frame and Chimney Seals, Item SPV.0060.##

A Description

This special provision describes providing a manufactured external frame and chimney seal that is pre-made on existing and new sanitary sewer manholes. The sanitary manhole frame and chimney joint will consist of a mortar joint and an approved manufactured external chimney seal.

B Materials

B.1 Material Requirements

The flexible portion of the seal will be made from natural or synthetic rubber conforming to the applicable requirements of ASTM C-877. Metal parts such as bands used to compress the seal against the manhole or any screws, bolts, nuts or any other metal parts shall be Type 304 stainless steel.

B.2 Performance Requirements

Manhole frame-chimney seals shall be designed to prevent the leakage of water into the manhole at the area of the joint between the manhole frame and chimney or corbel continuously throughout a 20-year design life. The seal shall remain flexible, allowing repeated vertical movements of the frame due to frost lift, ground movement, or other causes of up to two inches and/or repeated horizontal movements of the frame due to thermal movement of the pavement or other causes of up to ½-inch, both rates of movement occurring at rates not less than 0.10 inch per minute.

C Construction

Install the seal conforming to the manufacturer’s recommended installation procedures.

D Measurement

The department will measure Frame and Chimney Seals 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.0060.## Frame and Chimney Seal EACH

Payment is full compensation for providing the frame/chimney seal joint including the manufactured frame/chimney seal, bands, screws, bolts, nuts, mortar, and adhesive; and anything required to complete the installation according to the manufacturer's recommended installation procedures.

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