

326 MOISTUREPROOFING – PCC VALVE/VENTURI VAULTS

326.01 DESCRIPTION

[Refer to DC WASA Section 7100]

Work consists of furnishing and applying all materials required to provide a protective coating and moisture barrier for cast-in-place and precast PCC vaults as indicated on the Drawings and as specified herein.

Related Work specified elsewhere may include but is not limited to:

[320](#): Sewer/Water PCC Construction.

[321](#): PCC Valve/Venturi Vaults.

Quality Assurance:

Moisture proofing work shall be performed by a contractor who is regularly engaged in work of the character required and in the application of materials specified herein.

Applicators of the materials specified shall be certified by the manufacturer.

326.02 SUBMITTALS

The following shall be submitted:

Manufacturer's literature describing product and detailed instructions for use.

Manufacturer's certification of compliance.

Certification of applicators.

326.03 MATERIALS

Emulsified Asphalt – [802.08](#)

326.04 CONSTRUCTION REQUIREMENTS

(A) **DELIVERY/STORAGE.** Materials shall be delivered to the work site (either precast vault manufacturer's site or job site) in the original unbroken packages or containers bearing the manufacturer's brand or label. The kind of material and the purpose for which it is to be used shall be indicated on the label.

Materials shall be handled and stored at the site in a place and in a manner so as to protect adequately the contents from damage, deterioration and contamination.

Storage space shall be kept clean at all times and every precaution shall be taken to avoid fire hazards.

All materials shall be stored at the temperatures recommended by the manufacturer.

(B) **INSPECTION.** Prior to the application of any moisture proofing materials, the Contractor shall inspect surfaces to receive the moisture proofing specified and notify the

Engineer in writing of any serious defects or conditions that will interfere with or prevent a satisfactory installation.

Moisture proofing shall not be applied until all concrete work to receive moisture proofing has cured.

- (C) SURFACE PREPARATION.** All PCC vault exterior surfaces shall be smooth and free from projections or holes.

All PCC surfaces to be moisture proofed shall be thoroughly cleaned by water jet, light sand-blast, or combination thereof.

(1)All surfaces shall be free from frost, dust, sand, laitance, mud, mortar and other loose particles.

(2)All grease spots or marks of oil shall be removed.

All voids, form tie holes, cracks, honeycomb or other imperfections in surfaces which, in the opinion of the Engineer and/or the material manufacturer's representative may cause leaks shall be routed out and patched prior to the installation of the moisture proofing system. Patching materials shall be as recommended by the vault manufacturer.

All joints in the PCC shall be prepared as recommended by the vault manufacturer.

- (D) APPLICATION.** All materials shall be installed in strict accordance with the printed instructions of the manufacturer.

For cast-in-place vaults, apply to all exterior PCC surfaces of vault walls and top slab. For precast vaults, apply to all exterior surfaces.

Apply by brush or spray to give an even coat at rate of 2.5 gallons per 100 square feet, without rundown. Each joint area shall receive a second coat for a distance of nine inches each side of joint.

- (E) CURING AND BACKFILLING.** Moisture proofing shall cure properly before precast vaults are placed in the ground.

All areas that have been moisture proofed shall have cured properly before backfilling starts.

Backfill shall be placed in a manner that avoids damage to the moisture proofing system.

326.05 MEASURE AND PAYMENT

Moisture proofing will not be measured separately for payment. The cost thereof shall be included in payment for PCC Valve/Venturi Vaults.