GENERAL

This standard covers the details of reinforced concrete footings and reinforced concrete slabs to be used with precast concrete vaults as shown on drawings or as directed by the Field Engineer.

Vault base sections shall be set on undisturbed or well compacted soil. If the stability of the ground below the base section is such that it cannot be reasonably compacted as determined by the Field Engineer, a reinforced concrete slab and/or footings shall be used under the base section. Note: It is recommended that the Field Engineer contact Engineering Design to modify the proposed combination of footings and/or slab and vault to be used before proceeding.

REINFORCED CONCRETE VAULT FOOTINGS

Reinforced concrete vault footings shall be cast-in-place in such a manner to support the base section of the vault. If possible the base section should not bear on the pipe line at any point. See Fig 1 for footing detail.

Typical installations showing vaults supported by reinforced concrete footings are shown in Fig 2 and Fig 3.
REINFORCED CONCRETE SLAB

Reinforced concrete slabs shall be designed according to Fig 4 below.

**Note:** When a concrete slab is used with a precast base section, there shall be a mortar joint between the slab and base section. The slab shall be cleaned before placing the mortar joint.
Reinforced concrete slabs shall be cast-in-place in such a manner that the vault will be centered on the slab as shown in Fig 5.

**Note:** If the depth and/or location of the base section of a vault is such that construction of a reinforced concrete slab is unfeasible as determined by the Engineer, reinforced concrete footings shall be installed in place of a slab.

In some cases for 24" and larger valves, a combination of footings and slab may be required as shown in Fig 6.