



International Erosion Control Systems

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Precast Concrete Headwall Specifications

A. DESCRIPTION

Precast Concrete Headwalls for sewer and culvert pipe are an alternative to cast in place. Conforming to OPSD 804.04 units consist of 4 piece footing slabs and 5 wall panels, with an interior floor slab poured by others following installation of the headwall. 4 piece sectional units are also available. The straight headwall which conforms to the former OPSD 804.02 consists of a keyway footing and a single wall panel. Standard diameter or horizontal elliptical pipe openings are determined by specified pipe I.D. Modified sizes including twin pipe openings and box culverts can be made for either type of headwall. OPSD 3940.150 warning is included. An ashler stone finish front is also available.

System	I.D.Pipe (Diameter, Horizontal Elliptical)
Conforms to OPSD 804.04	300mm - 2400mm
Conforms to OPSD 804.02	900mm - 3000mm
Box Culverts up to	3600mm x 1800mm

B. CONCRETE

The minimum required concrete strength shall be 30 MPA @ 28 days. The concrete mix used shall be an approved mix design with 5-8% air entrainment.

C. REINFORCING BARS

The CSA approved rebar shall be of 15mm diameter with minimum 75mm coverage.

D. HARDWARE

A high tensile coil rod is inserted through panel holes into a four strut coil precast tension lifting insert, tightly securing the rod with a steel plate washer and coil hex nuts.

E. INSTALLATION

Refer to assembly and installation guidelines.

F. PAYMENT

Payment shall be by the unit price.

Modifications, chute blocks and grates shall be considered additional costs.