Cretex Inflow Dishes

## SPECIFICATIONS FOR CRETEX INFLOW DISH

### 1. SCOPE

1.1 Contractor shall furnish CRETEX MANHOLE INFLOW DISH as called for in the specification.

1.2 The CRETEX INFLOW DISH shall effectively reduce or prevent surface water inflow through manhole covers. The insert shall also prove effective in keeping dirt, sand, salt, chemical spills, foreign objects, road oils, etc. from entering the manhole and collection system lines.

1.3 CRETEX INFLOW DISH shall be manufactured specifically for use in collection system manholes.

### 2. MATERIAL & DESIGN

2.1 The CRETEX INFLOW DISH shall be manufactured from a durable High Density Polyethylene Copolymer material that meets ASTM D-1248 Class A, Category 5, Type III Specification. This material shall have superior stress crack resistance, combined with a high impact strength and shall have a minimum impact brittleness temperature of 105 0 F in accordance with ASTM D 746-70. The dish shall have a tensile strength of 3700 psi and an elongation factor of 800% meeting all requirements of ASTM D 638-71A. Cretex Inflow Dish or pre-approved equal.

2.2 The thickness of the CRETEX INFLOW DISH shall be a uniform 1/8".

2.3 The CRETEX INFLOW DISH shall be manufactured to meet the dimensions provided by the Contractor to allow easy installation within the manhole frame.

2.4 To enhance performance, the CRETEX INFLOW DISH shall have one of the following systems for relieving gas and/or vacuum pressure from the manhole; two 3/26" holes installed 180 0 apart, approximately 1" from the top of the insert, to allow for constant ventilation. This "no valve" method of ventilation should not be affected by grit accumulation, nor have any moving parts subject to corrosion. The venting system shall not allow water to completely fill the insert, which during cold weather could freeze and lift the manhole cover.

### 3. INSTALLATION

3.1 The manhole rim shall be cleaned of all dirt and debris before placing the CRETEX INFLOW DISH upon the rim.

3.2 The DISH shall be fully seated around the manhole frame rim.

3.3 The manhole cover is replaced as before, and the installation is complete.

### 4. REMOVAL

4.1 The INFLOW DISH shall have a corrosion resistant nylon strap installed into the dish for easy removal and re-installation into the manhole frame.

### 5. GASKET

5.1 If an Optional gasket is required it shall made of either a "Black" closed cell neoprene gasket or a "White" cross-linked polyethylene, installed upon the CRETEX INFLOW DISH rim prior to inserting the INFLOW DISH.

### 6. VENTING

6.1 If a relief valve is required to vent sewer gases, the CRETEX INFLOW DISH shall be supplied with an alternative ventilation valve or valves.

6.2 The valve or valves shall be manufactured of a Polypropylene Ethylene compound that are corrosion and wear resistant.

6.3 The INFLOW DISH valve or valves should be designed to release gas pressure at approximately 1 psi, and vacuum pressure at approximately 2 psi.

6.4 The INFLOW DISH valve(s) material shall be unaffected by temperatures within a range of –700 F or 3500.

**7. MEASUREMENT**

7.1 The INFLOW DISH shall be manufactured to fit the manhole frame rim upon which the manhole cover rests. Exact measurements shall be required from the Contractor.

7.2 To insure a proper fit of DISH within the manhole frame, the following measurements shall be taken by the Contractor:

To insure proper fit, the Cretex Inflow Dish shall be manufactured to dimensions provided by the purchaser to allow easy installation within the manhole frame. Exact measurements shall be required from the purchaser to accurately manufacture the Inflow Dish.

## MEASUREMENTS

***COVER —*** Measure the inside diameter of the manhole cover at its base **"A"**. Measure the distance of the cover thickness **"B"**.

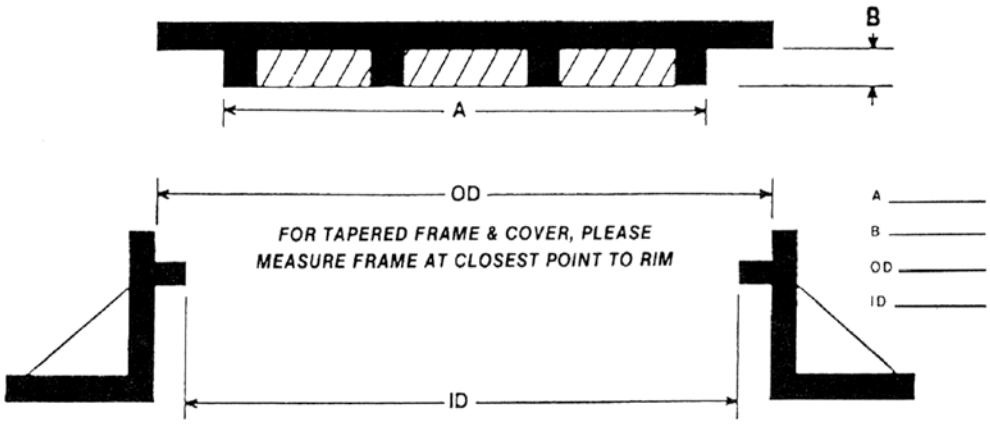
***FRAME —*** Measure the outside diameter of the frame where the cover sits **"OD"**. Measure the inside diameter of the frame's lip **"ID"**.

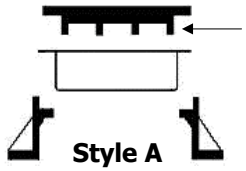
NOTE: For tapered frame and cover, please measure frame at closest point to rim.

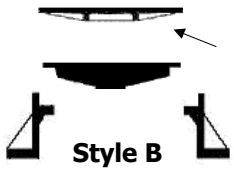
## SIZING REQUIREMENTS

To ensure proper fit and performance of the Cretex Inflow Dish, please provide the requested measurements as described. Note: It is important to identify which style of counter weight to ensure proper fit. Style **"A"** is designed with vertical or straight counterweight. Style **"B"** is tapered to the center from the outside edge of the lid.

***(Please enclose a copy of this drawing with your order)***




**STANDARD MODEL** Includes 2 vent holes and 1 lift strap.

**OPTIONAL GASKET** An optional "Black" neoprene gasket can be supplied.

**OPTIONAL DIFFUSER VALVE** An optional alternative ventilation valve or valves can be supplied that are manufactured of a Polypropylene Ethylene compound, are corrosion and wear resistant, and designed to release gas pressure at approximately 1 psi, and vacuum pressure at approximately 2 psi. The valve(s) material is unaffected by temperatures within a range of –70°F to 350°F.