



January 19, 2010

**City of Sierra Vista  
Department of Public Works  
Environmental Services**

**Standards for Grease, Oil and Sand Interceptors**

**P1003.3.1 Grease interceptors and automatic grease removal devices required.**

A grease interceptor shall be required to receive the drainage from fixtures and equipment with grease-laden waste located in food preparation areas, such as in restaurants, hotel kitchens, hospitals, school kitchens, bars, factory cafeterias and clubs. Fixtures and equipment shall include pot sinks, prerinse sinks, soup kettles or similar devices, wok stations; floor drains or sinks into which kettles are drained, automatic hoodwash units and dishwashers without prerinse sinks. Grease interceptors shall receive waste only from fixtures and equipment that allow fats, oils or grease to be discharged.

A grease interceptor shall be provided for uses intended for the serving and/or preparation of food, but not limited to:

- Coffee shops
- Cafés
- Donut shops
- Delis
- Ice cream parlors
- Meat shops/markets
- Satellite food shops
- Restaurants
- Sandwich shops
- Bars / Night Clubs

**Grease interceptors shall:** 1) Be designed for size in accordance with the City of Sierra Vista's interceptor sizing formula, but shall be a minimum capacity of 1,500 gallons. 2) Be 3-compartment and provided with a minimum of a 24" x 24" effluent sampling box with an approved metal manhole lid immediately downstream. 3) Have a 50 square foot concrete wash down area with curb and 3 inch drain installed and connected to the interceptor. 4) Have a backwater valve with one-way cleanouts installed on each side of the backwater valve after the sample box. 5) Have all kitchen plumbing fixtures other than the hand sink connected to the interceptor line.

An oil/sand interceptor shall be provided for uses intended for, but not limited to:

- Repair garages
- Gasoline stations
- Grease pits/work racks
- Car washing facilities with engine or undercarriage cleaning
- Facilities that produce oily liquids
- Facilities that produce flammable liquids

**Oil/Sand interceptors shall:** 1) Be designed for size in accordance with the Arizona Administrative Code, but shall be a minimum capacity of 1,500 gallons. 2) Be 3-compartment and provided with a minimum of a 24" x 24" effluent sampling box with an approved metal manhole lid immediately downstream. 3) Have a backwater valve with one-way cleanout installed after the sample box.

## **Specific Inspection and Testing Standards**

1. The City of Sierra Vista's limit for fats, oils, and grease (FOG) is 100mg/1.
2. Manufacturer's Certificate of Conformance Document shall be provided for each interceptor prior to installation.
3. The tops of all interceptors and sample boxes shall have an approved concrete base securing manhole lids.
4. All interceptors that are to be installed in an area with vehicular traffic shall be provided with a traffic rated concrete cover designed by an engineer. Rated concrete covers shall extend a minimum of 12 inches beyond the interceptor on all sides and ends. Minimum thickness 6 inches with #4 bar centered.
5. Inspect interceptor prior to installing riser sections or backfilling.
6. Inspect baffle walls for cracks, holes and make sure walls are sealed (water tight).

7. Inspect invert in and invert out ensuring weep ring and seal are installed with non-shrink grout or hydraulic cement.
8. Inspect outlet pipes in each compartment ensuring distance from the floor is correct.
9. Test tanks by completely filling with clean water. Tanks shall hold for a minimum of 24 hours. Tanks 2,000 gallons or larger may use the 3 step water leak test method.
10. Any visible flowing leak is considered a failure. A damp or wet spot that is not flowing is not considered a failure.
11. If the tank fails the test, repair or replace tank. Any repairs proposed to leaking tanks shall first be authorized by the inspector prior to commencing with repairs.
12. Inspector shall approve and sign off on each water leak test before proceeding.

**Note:** All above inspections shall be performed and approved by a City of Sierra Vista inspector. **See also the 2006 International Plumbing Code for additional requirements.**