

Chapter 7 Pretreatment

7.1. DESIGN AND CONSTRUCTION STANDARDS

7.1.1 General

- A. Refer to the [Fats, Oil, and Grease \(FOG\) Policy Requirements¹](#), [Sand, Oil, and Grease \(SOG\) Policy Requirements²](#), and [Pretreatment Requirements for RV Dump Stations³](#) for applicability, responsibilities, BMPs, Maintenance Logs, and other applicable information.
- B. Waterproofing of all pretreatment related concrete structures shall match CK Standard Detail SA.3. All joints between sections, adjusting rings, top sections and pipes shall be watertight.

7.1.2 All Grease Interceptors

- A. Food preparation sinks, dishwashing sinks, dishwashers, floor drains, floor sinks, mop sinks and any other fixtures producing grease laden waste shall discharge to the interceptor.
- B. Dishwashers shall be commercial grade, low temperature, chemical sanitizing models. Water entering the interceptor shall not exceed 150°F.
- C. Food waste processors or grinders, garbage disposers, enzymes, and drain maintenance chemicals are prohibited.
- D. Installation, operation, and maintenance shall be in accordance with manufacturer's specifications.
- E. Cleaning frequency shall be determined by the City's Industrial Pretreatment Coordinator.
- F. Floor sinks shall be equipped with stainless steel flanged floor sink strainers.
- G. Install in accordance with the manufacturer's specifications.

7.1.3 Interior Grease Interceptor

- A. Sizing shall comply with the City's most current adopted version of the Uniform Plumbing Code and utilize the fixture capacity formula with a minimum size of 20 gpm.
- B. Shall comply with Typical Detail PT.2.
- C. All new grease installations shall be Schier Great Basin Series.
- D. Locate in an area which permits easy access for cleaning and inspection.

¹ <https://www.kalispell.com/DocumentCenter/View/4951/FOG-Policy-Requirements-and-BMPs-PDF>

² <https://www.kalispell.com/DocumentCenter/View/4952/SOG-Policy-Requirements-and-BMPs-PDF>

³ <https://www.kalispell.com/DocumentCenter/View/4955/Pretreatment-Requirements-for-RV-Dump-Stations-PDF>

7.1.4 Exterior Gravity Grease Interceptor and Sample Port

- A. Schier Great Basin High-Capacity grease interceptors are recommended.
 - I. If using a Schier GB Series interceptor, the sample port can be omitted.
- B. Precast concrete interceptor and sample port designs shall comply with Standard Details PT.1, PT.3, and PT.7.
- C. Sizing shall comply with the City's most current adopted version of the Uniform Plumbing Code. Use the table titled, "Gravity Grease Interceptor Sizing" which uses DFU's for determining sizing.
- D. Locate in an area which permits easy access for cleaning and maintenance.
 - I. Lids shall be installed to allow easy removal.
 - II. Concrete lids are prohibited.

7.1.5 Grease Interceptor Abandonment

- A. Remove entire contents of grease interceptor.
- B. Cap inlet and outlet pipes.
- C. Fill the empty grease interceptor with an appropriate fill material (e.g., sand).
- D. Permanently secure all openings to the interceptor (e.g., cement, weld).

7.1.6 Sand / Oil Separators

- A. Shall be commercially manufactured.
- B. Shall meet the requirements of Standard Detail PT.4.
- C. Shall be provided as required by the UPC and the CK Pretreatment Program Coordinator (758-7817). Any conflicts or differences between the UPC and the CK Pretreatment Program shall be resolved in favor of the CK Pretreatment Program.
- D. Shall be sized according to the Pretreatment Program requirements.

7.1.7 Sample Port

- A. Shall be provided on sewer services downstream of any grease trap, sand/oil separator, sewage pretreatment structure, or as otherwise required by the CK Pretreatment Program Coordinator (758-7817).
- B. Shall be commercially manufactured.
- C. Shall meet the requirements of Standard Detail PT.3.

7.1.8 RV Dump Stations

- A. Each RV dump station shall be equipped with signage that displays the following statements: “RV Dump Station-Only holding tanks from RV’s shall discharge here” and “Water is NOT SAFE for Drinking”.
- B. Shall be constructed per Standard Detail PT.5.
- C. RV dump stations shall discharge into a 2,500-gallon septic tank that is designed per CK Standard Details PT.6 and PT.7.
- D. A sample port designed per CK Standard Detail PT.3 shall be installed downstream of the septic tank.
- E. If placed in traffic areas, measures must be taken to meet HS-20 loadings for all applicable areas of the system.