



POLICY DOCUMENT

FOR SIZING AND INSTALLATION

OF PRETREATMENT

FACILITIES/GREASE TRAPS

June 2009

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1. GENERAL SPECIFICATIONS FOR GREASE TRAP SIZING

The requirements outlined in these guidelines shall be considered minimum requirements only. It shall be the responsibility of each user to have a grease trap/interceptor Pretreatment facility/devices (grit, mud, sand, lint traps, oil separator, holding tank designed; installed and maintained that will produce an effluent in compliance with the requirements of the City of McAllen Code of Ordinances.

In accordance with City of McAllen, Code of Ordinance, Division 3, Sewer Use, Section 106-183, all facilities, with the exception of single family residential units, will be evaluated for the need for a Grease Trap and/or other Pre-treatment System designed to isolate oil, grease, sand, lint and other foreign substances that may adversely impact the wastewater collection and treatment system. Design of a Pre-treatment system shall comply with the latest McAllen Public Utility Policy Guideline Document.

- 1.01 Pretreatment facilities/Grease traps shall meet or exceed the more stringent of specifications and requirements set forth in the City of McAllen Code of Ordinances and other applicable local, state or federal requirements.**
- 1.02 An existing Pretreatment facility/grease trap which is upgraded or replaced shall meet or exceed the specifications set forth in the City of McAllen Code of Ordinances and other applicable Local, State, or Federal requirements.**
- 1.03 Where a user required under this Ordinance to have a Pretreatment facility/grease trap will occupy an existing building, user shall meet or exceed the requirements in the City of McAllen Code of Ordinances and other applicable Local, State, or Federal requirements.**

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- 1.04 Pretreatment facilities/Grease traps shall consist of a one (1) tank two compartments constructed of impervious materials capable of withstanding abrupt and extreme changes in temperature and capable of withstanding the traffic load where installed. Concrete used to build Pretreatment devices or parts of it shall have a minimum of 4000 psi.**
- 1.05 Grease traps shall be installed outside the building wherever possible. Where it is impossible to locate a grease trap outside the building, the trap shall be located in a mechanical room or other separate area where no food is stored or processed.**
- 1.06 Pretreatment facilities/Grease traps shall be located so as to be readily and easily accessible for cleaning and inspection of the pretreatment device and shall be equipped with easily removable covers.**
 - A. Manhole rings and covers (metal) shall not be less than twenty-four (24) inches in diameter, shall be installed for each compartment to facilitate**

easy access for cleaning and inspection. The manholes lids shall be placed so that all internal piping is accessible for maintenance and inspection. The cover shall be at or near, but not below the finished grade, unless grease trap/pretreatment devices design criteria, qualifies/calculates for the need of an alternative size (reference page 2-5, Sec. 2.06).

- 1.07 Grease trap/pretreatment devices shall have a total liquid capacity of not less than seven hundred fifty (750) gallons. Grease traps shall be constructed with a minimum of two compartments. Unless grease trap design criteria qualifies/calculates for the need of an alternative size (reference page 2-3, Sec. 2.06).**
- 1.08 Plans for new Pretreatment facilities/Grease traps or modifications to existing shall be submitted to the Pretreatment Department and Building Inspection Department, prior to the purchase and installation of such devices.**
- 1.09 The Pretreatment Department and Building Inspections Department for review, prior to committing and installation of facilities.**
- A. A description of and number of plumbing fixtures draining to the trap, seating capacity, days & hours of operation, along with a menu shall be included in the submittal.**
- B. The Pretreatment Department and City of McAllen Building Inspections Department shall be in agreement for approval of the final plans prior to the issuance of any required plumbing or construction permits and subsequent construction.**
- 1.10 Pretreatment devices (grease trap, grit trap, lint trap, mud trap or any other equipment to pretreated process wastewater from commercial or industrial businesses shall be design and sealed by a USA certified engineer. Pretreatment design shall meet all requirements as set in this policy and/or Federal or state regulations if more stringent or required.**
- 1.11 Pretreatment facilities/Grease traps can be installed by a contractor, however all plumbing work must be performed by a licensed plumber. Completed Pretreatment facility/grease trap must be inspected by the Pretreatment Program Supervisor and the City of McAllen Building Inspections Department prior to connecting to the sanitary sewer.**

2. GUIDANCE FOR GREASE TRAP SIZING AND DESIGN CRITERIA

Information contained within this Section is based on standard industry practices and guidance found in the 1997 International Plumbing Code (IPC) Commentary and the Uniform Plumbing Code (UPC), Appendix H. Size, type, and location of grease traps shall be in accordance with the manufacturer's instructions, the requirements of City of McAllen Sewer Use Ordinance and Plumbing Ordinance.

- 2.01 All liquid waste lines in food preparation areas such as dishwashing, garbage disposal, soft drink, bar area sinks, mop sink, dispenser drain lines must discharge through the grease trap, except lines from restroom facilities, cooling unit condensate, and ice maker.**
- 2.02 The minimum size of grease traps shall be determined according to the type of the operating facility, but shall, not have a total liquid capacity of less than seven hundred fifty (750) gallons. Unless grease trap design criteria qualifies/calculates for the need of an alternative size (reference page 2-3, Sec. 2.06).**
- 2.03 These requirements are applicable to all commercial food service establishments, including those that are undergoing:**
- A. New construction**
 - B. Interior remodeling to accommodate expansion or operational modifications**
 - C. Changes of ownership/occupancy**
 - D. Facilities which may be experiencing difficulty in achieving compliance with maintenance and/or wastewater discharge limitations**
- 2.04 Sizing methods described herein are provided to determine grease trap/Pretreatment facility sizes that will afford the City's sanitary sewer system a minimum degree of protection against grease and other obstructing materials. Sizing determinations are based on operational data provided by business owners or their contractors. In approving a customer's plumbing or grease trap design, the City does not accept liability for the failure of a system to adequately treat wastewater to achieve effluent quality requirements specified under the sewer use ordinance. It is the responsibility of the generator and/or contractors to insure the appropriate level of treatment necessary for compliance with the City of McAllen Code of Ordinance and other applicable local, state or federal requirements. Minimum acceptable grease trap sizing shall be accomplished as follows:**
- A. Sizing according to formulas found in Section 2.05 below.**
- 2.05 Grease Trap Sizing Formulas:** It is the responsibility of the generator and his/her contractors to ensure that the wastewater discharged from their facility is in compliance with the City's discharge limitations. For the

purpose of plans review, a general assessment of grease trap design and size will be performed using the following formulas. (These formulas have been demonstrated as industry standards capable of achieving the City’s discharge criteria when systems are maintained in proper working condition.)

A. Method 1: Uniform Plumbing Code, Appendix H

Number of meals x total waste flow x retention x storage = Size Requirement
Per peak hour (1) rate (2) time (3) factor (4) (liquid capacity)

Factors:

Number of meals served at peak operating hour (Seating Capacity) x Peak Factor

a. Where Peak Factor for Fast Food Restaurant is.....1.33

b. And, Peak Factor for all other food service types is.....1.00

Waste Flow Rate:

c. With Dishwasher.....6 gallon flow

d. Without Dishwasher.....5 gallon flow

e. Single Service kitchen*.....2 gallon flow

f. Food waste disposer (Garbage Grinder).....1 gallon flow

Retention Times

g. Commercial kitchen waste/dishwasher.....2.5 hours

h. Single service kitchen/single serving*.....1.5 hours

Storage Factors

i. Fully equipped commercial kitchen8 hr...operation....1

j.16 hr operation....2

k.24 hr operation....3

l. Single Service Kitchen*.....1.5

* Single Service Kitchen. A food service establishment where no food prepared, they only heat and serve food using paper service items.

B. Method 2: Five (5) Hour Detention/Peak Flow

Gallons of water used per hour of operation

A x 0.75 = average “gray water” flow per hour

B x 1.9 peak flow factor

C x 5 hours detention = volume of trap

Required volume of trap = A x B x C x D

2.06 Alternate Sizing Formula / Proposal: Food service establishments that propose the use of alternate sizing techniques and/or procedures that result in calculations of less than the minimum specification requirements (or are less than the MINIMUM 750 gallon sized requirement, i.e. food service establishments such as sandwich shops) must submit formulas and other bases to support proposed grease trap size/ installation. Submission should also provide documentation of ability to meet effluent quality requirements. This proposal must be signed by a licensed plumbing contractor (master plumber) or professional engineer and must include calculations and justification for non-standard installation, shall be approved on an individual basis. In no cases will an alternate sized Pretreatment facilities/Grease traps be accepted that is less than 100 gallon capacity.

2.07 Construction/Installation of Grease Traps must meet the following installation conditions:

- A. The primary chamber shall contain three-fourths ($\frac{3}{4}$) of the total liquid capacity of the trap. Pretreatment devices shall have a complete separate ventilation system, (not to be combined with building ventilation) see figure 4.
- B. The dividing wall between each chamber shall completely divide the chambers (shall extend top to bottom). Each compartment on a Pretreatment device shall have a vent (refer to figure 2 and 3)
- C. The effluent leaving the grease trap shall not have total oil, grease, BOD, TSS concentration, as determined by proper laboratory analytical methods, in excess of the discharge limit specified in the City of McAllen Wastewater Sewer Use Ordinance.
- D. Pretreatment Devices shall be equipped with cleanouts on the outside of the trap in both the influent (prior to the trap) and effluent (after the trap) pipes and cleanout on service line at the property line. *Inlet and Outlet lines must **NOT** hold any water once flow to the Pretreatment facilities/Grease trap has ceased. Also cleanouts shall be installed at floor level in a way as to prevent infiltration into the sanitary sewer or into the Pretreatment facilities/Grease traps. Pretreatment Facilities/Grease trap Compartment vents shall have cleanouts installed for ease of maintenance, refer to figure 4.
- E. Outlet cleanout/sample port on effluent line of pretreatment device/grease trap interceptor, grit trap, lint trap and oil separator shall be no less than 3'(feet) and no more than 5'(feet) apart from pretreatment device/grease trap. (Sample port on effluent line must be a straight "T" and shall not hold water after flow to the pretreatment device/grease trap has ceased).
- F. The influent shall enter each chamber below the static water level in accordance with the specifications outlined in this paragraph. The effluent shall discharge from below the static water level of the chamber in accordance with the specifications outlined in this paragraph.

1. All plumbing inside the pretreatment device shall be schedule 40 PVC

2. The influent line into all chambers shall terminate no greater than twenty four (24) inches from the bottom of the chamber.
 3. The effluent from all chambers shall discharge from the lower eighteen (18) inches of the chamber.
 4. The influent and effluent inter plumbing shall consist of a T. Inter connection between primary and secondary tanks and additional tanks (when placed in series) will consist of PVC pipe installed at a 45° degree angle.
 - A. When installing several tanks in series, Pretreatment Department needs to review plans and authorize prior to installation. Pretreatment facilities/Grease traps must to be installed wall to wall interconnecting with a PVC pipe, installed at a 45° degree angle, please refer to figure(s) 2 and 3 for typical Pretreatment Device/Grease Trap (layout or design).
 5. The static water level shall be maintained throughout the entire trap.
- G. All permitting, construction, and inspection activities must be completed in accordance with the City of McAllen code of ordinances. Additionally, the following specifications must be incorporated into grease trap design.**
- H. The grease trap shall be constructed with a minimum of one baffle.**
- I. Grease traps are to be installed at a minimum distance of 10 ft. from sinks and dishwashers to allow for adequate cooling of the wastewater. Water temperatures must be less than 120 degrees prior to entering grease trap.**
- J. All grease bearing waste streams must be routed through an appropriate grease trap, including: three-compartment sinks, pot/pan sinks, soup kettles, hand-washing sinks, dishwashers, mop sinks, bar areas and floor drains. *Notable Exceptions:* Drains that receive “clear waste” only, such as from ice machines, condensate from coils, may be plumbed to the sanitary system without passing through the grease trap with the condition that the receiving drain is a “hub” type that is a minimum of two inches above the finished floor.**
- K. Upon the completion of construction and installation of pretreatment device/grease trap all such facilities shall be clean of debris prior to inspection by the City of McAllen Building Inspections Department and or the Wastewater Pretreatment Department.**

2.08 Generator Responsibilities:

- A. It is the responsibility of the customer (waste generator) to insure compliance with the City of McAllen discharge limitations specified in the City’s Sewer Ordinance.
- B. Hazardous wastes, such as acids, strong cleaners, pesticides, herbicides, paint, solvents, or petroleum byproducts gasoline shall not be disposed of where they would go through their pretreatment device/grease trap/interceptor, grit trap, lint trap and oil separator. Commercial dishwashers are discharged through a grease trap, there for care must be taken when system design/pretreatment device size is calculated. Dishwashers use detergents and elevated water temperatures that will melt grease. If the grease trap is either too small or too close to the

commercial dishwasher, grease may pass through the grease trap and into the collection system.

- C. Generators are responsible for maintaining their pretreatment device/grease trap/interceptor, grit trap, lint trap and oil separator in continuous proper working condition. Further, generators are responsible for inspecting, repairing, replacing, or installing apparatus and equipment as necessary to ensure proper operation and function of grease traps and compliance with discharge limitations at all times.**
- D. The generator must have their pretreatment device/grease trap/interceptor, grit trap, lint trap and oil separator serviced (pumped, cleaned, and inspected) by a City of McAllen permitted waste hauler, at a minimum frequency of every 90 days or more often as necessary, to ensure proper function. Records of maintenance are required to be maintained on site for five (5) years. (90 day maintenance frequency assumes proper sizing and installation consistent with this guidance).**
- E. Enzymes, solvents, and emulsifiers are not permitted as they will only change the form of grease, allowing it to be carried out of the trap with the wastewater and deposited in the collection system. Biological treatment systems must be pre-approved (registered) by the Pretreatment Program Supervisor. These systems will not alleviate the necessity for inspection and proper maintenance.**
- F. It is the generator's responsibility when closing the food establishment to have the Pretreatment facility(ies)/Grease trap(s) vacuumed. It is the generator's responsibility to request an inspection from the Pretreatment Department to verify and have the establishment removed from the High Strength Sewer Surcharge Program.**
- G. If generator is abandoning a pretreatment facility(ies) for an uncertain time customer shall vacuum and disconnect/cap off from all connections (inlet, outlet and vents). As well it is customers responsibility to comply with the following requirements as set in 30 Texas administrative Code Part1 Chapter 285 Subchapter D RULE §285.36**

To properly abandon, the owner shall conduct the following actions, in the order listed.

- a. All pretreatment devices (grease trap/interceptor, grit trap, lint trap, oil separator, holding tank and septic tank) shall have the wastewater removed by a waste transporter, holding a current registration with The City of McAllen, McAllen Public Utility Pretreatment Department.**
- b. All pretreatment devices (grease trap/interceptor, grit trap, lint trap, oil separator, holding tank and septic tank) devices shall be filled to ground level with fill material (less than three inches in diameter) which is free of organic and construction debris.**

3. OTHER TYPES OF GREASE TRAPS AND SIZING REQUIREMENTS

Traps are required for oil, grease, sand and other substances harmful or hazardous to the collection system or sewage treatment plant. Design, size, and location of pretreatment devices must be submitted by a licensed plumbing contractor or professional engineer for review and approval.

Commercial businesses such as restaurants, daycares, hotels etc. discharging to a septic system/OSSF On Site Sewage Facility shall comply with 30 TAC Texas Administrative Code Part 1 Chapter 285 Subchapter D section (d).

(d) Grease interceptors. Grease interceptors shall be used on kitchen waste-lines from institutions, hotels, restaurants, schools with lunchrooms, and other buildings that may discharge large amounts of greases and oils to the OSSF. Grease interceptors shall be structurally equivalent to, and backfilled according to, the requirements established for septic tanks under §285.32(b)(1)(D) - (F) of this title. The interceptor shall be installed near the plumbing fixture that discharges greasy wastewater and shall be easily accessible for cleaning. Grease interceptors shall be cleaned out periodically to prevent the discharge of grease to the disposal system. Grease traps shall be properly sized and installed according to the requirements set in this policy and/or Federal or State regulations if more stringent.

3.01 Laundries: Commercial Laundries, Laundromats, and dry-cleaners shall be equipped with a pretreatment device in order to reduce the quantity of lint and silt that enter the collection system. The system must be of adequate size and design to allow for cool-down of wastewater so that separation can be more readily achieved. The trap must be installed with a wire basket or similar device, removable for cleaning, that prevents passage into the collection system of solids ½ inch (12.7 mm) or larger in size, string, rags, buttons or other materials detrimental to the public sewerage system.

Sizing must be in accordance with guidance found in the Uniform Plumbing Code (UPC), Appendix H which uses the following formula:

$$(TGC) \times (CPH) \times (RT) \times (ST) = \text{Size of Lint Grease Trap (gallons)}$$

A. Laundries (continued)

Where:

TGC = Total Gallons per Cycle

CPH = Cycles per hour

RT = Retention time

2.5 For Institutional Laundry

2.0 For Standard Commercial Laundry

1.5 For Light Commercial Laundry

ST = Storage Factor, based on hours of operation;

1.0 For 8 hours of operation

1.5 For 12 or more hours

3.02 Car Washes

30 TAC Texas Administrative Code Part 1 Chapter 285 Subchapter (A), (65), (66) (A) and (B) defines septic tank as:

(65) Septic tank—is a watertight covered receptacle constructed to receive, store, and treat sewage by: separating solids from the liquid; digesting organic matter under anaerobic conditions; storing the digested solids through a period of detention; and allowing the clarified liquid to be disposed of by a method approved under this chapter.

(66) Sewage--Waste that:

(A) is primarily organic and biodegradable or decomposable; and

(B) Originates as human, animal, or plant waste from certain activities, including the use of toilet facilities, washing, bathing.

Car-washes water contains chemicals and sediment that, if released, can contaminate drinking water supplies and block sewer lines, damage pumps, and upset the proper treatment of wastewater. For such reason car-washes discharges to septic tanks are prohibited.

If sewer lines are not accessible, an alternative option must be authorized by the State TCEQ and City Sewer Use Control Authority. Control Authority contact information 956-681-1760.

- A. Where automobiles are washed (including detail shops utilizing hand-wash practices), discharging to City’s sanitary sewer grit traps shall have a minimum capacity of 1000 gallons for the first bay, and 500 gallons of capacity for every additional bay.**
- B. Each wash bay on a car wash should have a mud trap in place. Mud trap shall have a minimum capacity of 300 gallon and shall be connected to a grit trap.**
- C. An effluent sample port shall be provided for all traps (sample port must be a sanitary “T” and shall not hold water after flow to the pretreatment device/grease trap as ceased).**

3.03 Automotive Repair Facilities (Garages and Service Stations)

- A. Where automobiles are serviced, greased, or repaired or where gasoline is dispensed, *Chemical discharges*. No user shall discharge to the POTW any wastewater which may contain:**
 - (1) Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through.**
 - (2) Any liquids, solids or gases which create a fire or explosion hazard (such as gasoline or diesel fuel) in the POTW, including but not limited to wastes with a closed cup flashpoint of less than 140 degrees Fahrenheit, using the test methods specified in 40 CFR 262.21.**
- B. Note: Parking garages in which servicing, repairing, or washing is not conducted, and in which gasoline is not dispensed, shall not require a**

separator. Areas of commercial garages utilized only for storage of automobiles are not required to be drained through a separator.

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3.03 Automotive Repair Facilities (Garages and Service Stations)

- A. Work areas of machine shops or of any facility or part of a facility which manufactures, rebuilds, repairs, overhauls, or maintains motors, transmissions, hydraulic systems, or similar machinery and areas where fluids are changed shall not discharge wastewater other than domestic waste (restrooms) into the sanitary sewer.
- B. As set on the following Federal, State and local regulations no discharge of petroleum or petroleum byproducts shall be discharge into City's sanitary sewer.

40 CFR Code of Federal Regulations § 403.5 National pretreatment standards: Prohibited discharges,

(b) *Specific prohibitions.* In addition, the following pollutants shall not be introduced into a POTW:

(1) Pollutants which create a fire or explosion hazard in the POTW, including, but not limited to, waste streams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21;

TAC Texas Administrative Code, Title 30 Part I Subchapter A Rule 324.4 (prohibitions):

(2) A person commits an offense if the person:

(A) Intentionally discharges used oil into a sewer, drainage system, septic tank, surface water or groundwater, watercourse, or marine water.

City of McAllen Sanitary Sewer Ordinance Sec. 106-188. Prohibited discharges.

(a) *General discharge prohibitions.* No user shall discharge any wastewater or industrial waste which will interfere with the normal operation or performance of the POTW. The prohibitions in this section apply to all users of the POTW whether or not the user is subject to national categorical pretreatment standards or any other national, state or local pretreatment standards or requirements. No user may discharge wastewater to the POTW which by itself or interaction with other wastewaters may:

(3) Create a hazard in receiving waters of the wastewater treatment plant effluent;

- (b) **Chemical discharges.** No user shall discharge to the POTW any wastewater which may contain:
- (1) Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through.
 - (2) Any liquids, solids or gases which create a fire or explosion hazard (such as gasoline or diesel fuel) in the POTW, including but not limited to wastes with a closed cup flashpoint of less than 140 degrees Fahrenheit, using the test methods specified in 40 CFR 262.21.
- C. Businesses which propose floor drains or are required; such drains shall not discharge into City sanitary sewer. Customer must install either an UST (Underground Storage Tank) or a AST (Aboveground Storage Tank) to prevent for such waste to enter the City's sanitary sewer and to maintain and protect City's POTW's Public Owned Treatment Works as well as the US water sources.
- D. AST must comply with regulations set in TAC Texas Administrative Code, Title 30 Environmental Quality, Part I TCEQ Texas Commission on Environmental Quality, Chapter 334 UST (Underground Storage) Tank and AST (Aboveground Storage Tank), Subchapter F Aboveground Storage Tank.

Figure 1 Typical Plumbing Layout

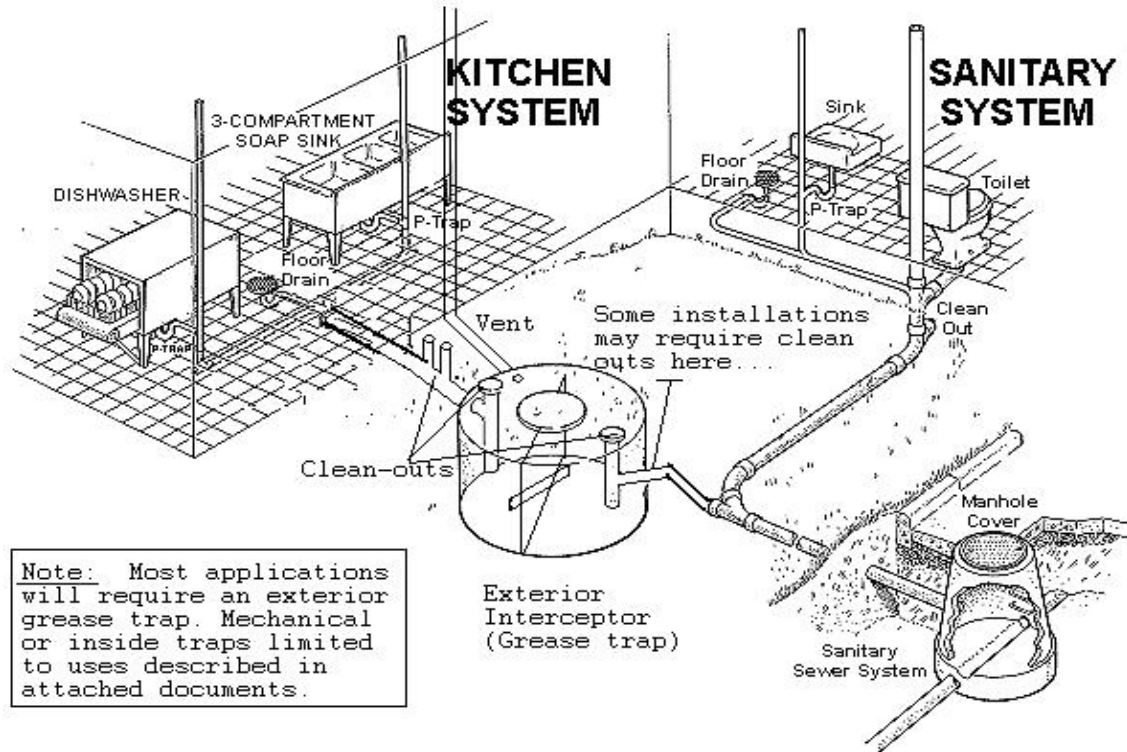
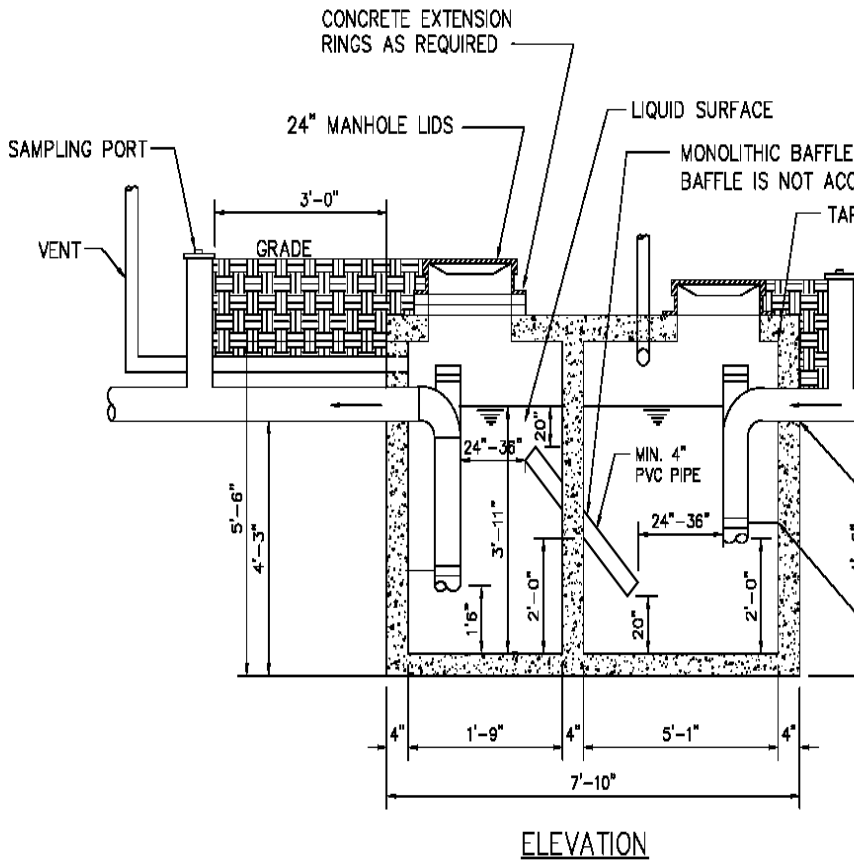
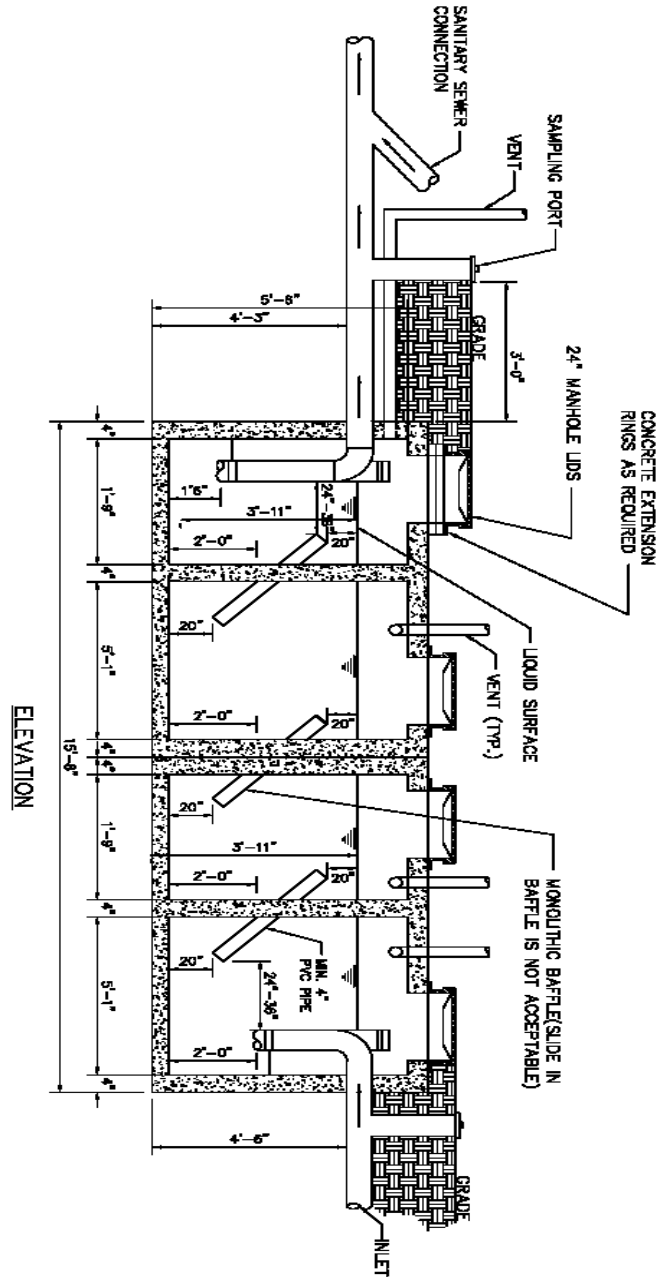


Figure 2 Typical Grease Trap Schematic



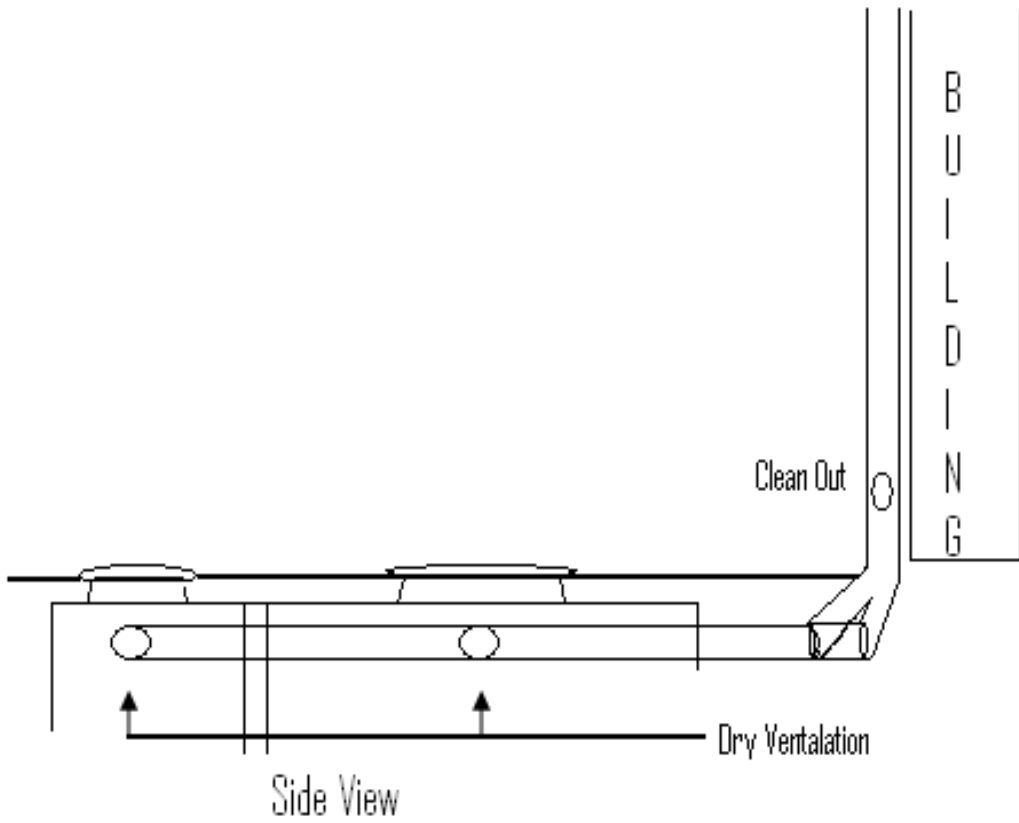
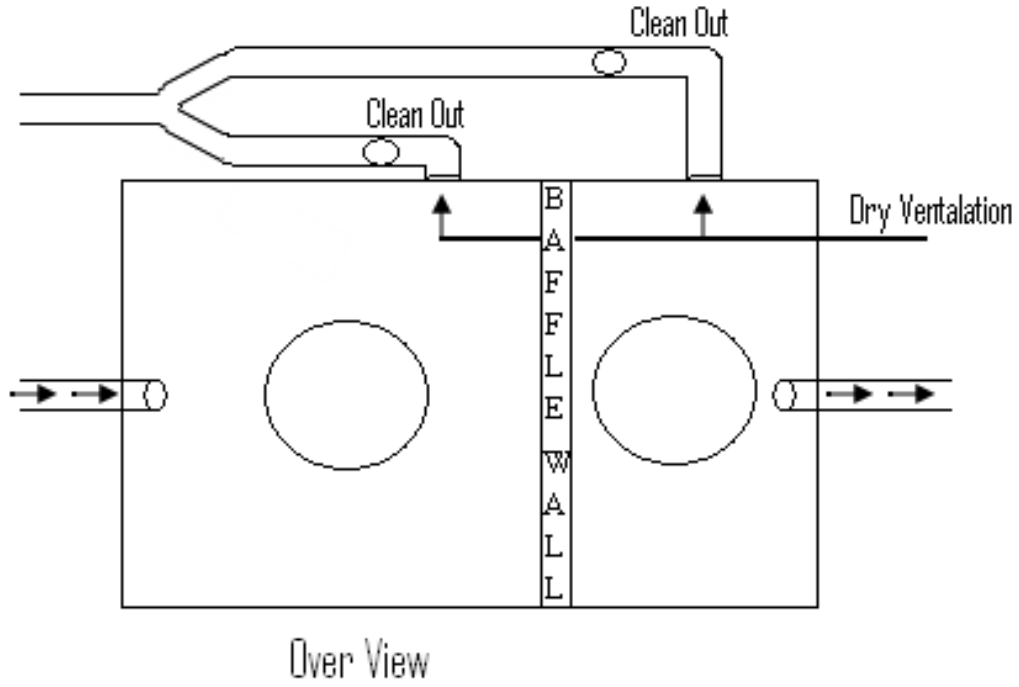
NOTE: Second compartment length shown is less than 24" inches. Baffle pipe was offset to achieve the required 24" inch to 36 inch separation between baffle pipe and outlet line. If necessary the baffle pipe, outlet line or both may be offset to achieve the required 24" to 36" separation.

Figure 3 Multiple Grease Traps Connected in Series Schematic



NOTE: Second compartment length shown is less than 24" inches. Baffle pipe was offset to achieve the required 24" inch to 36 inch separation between baffle pipe and outlet line. If necessary the baffle pipe, outlet line or both may be offset to achieve the required 24" to 36" separation.

Figure 4 Pretreatment Device Ventilation System Schematic



Added January 13, 2012
Figure 4

4. OPERATION AND MAINTENANCE

- 4.01 Pretreatment devices (grease trap/interceptor, grit trap, lint trap, oil separator, and holding tank) shall be operated in a safe and secure manner at all times.**
- 4.02 Areas surrounding pretreatment devices shall be maintained to facilitate immediate access to the unit for cleaning and for inspection by the Pretreatment department or authorized agent at all times.**
- 4.03 Pretreatment devices (grease trap/interceptor, grit trap, lint trap, oil separator, and holding tank) shall be maintained in continuously efficient operation by the owner or operator at his expense and shall produce an effluent in compliance with this or other applicable ordinance.**
- 4.04 A user shall not remove any downpipes or otherwise alter a grease trap in any way which may allow oil and grease, grit, lint or other objectionable materials, to pass through the device into the sanitary sewer.**
- 4.05 Where the city must clean associated public sewers caused by inappropriate operation or maintenance, inadequate design or installation, or inappropriate alteration of a pretreatment device. Pretreatment Department may inspect and pin point and require the establishment found to be negligent of the for mentioned, may be required to up size and or repair there pretreatment facility/grease trap**
- 4.06 A User shall not increase the use of water or in any other way attempt to dilute the wastestream in lieu of adequate treatment.**
- 4.07 The addition of hot water or the use of emulsifiers, chemicals, or other agents or devices that may cause oil or grease to pass through a treatment facility or into the sanitary sewer collection system is strictly prohibited.**
- 4.08 Areas surrounding a pretreatment device or holding tank shall be kept clean and free of grease and odors and other materials at all times.**
- A. Materials shall not be splashed, spilled, allowed to overflow, or otherwise placed on the area surrounding a pretreatment device or holding tank.**
- B. In the event materials are spilled, splashed, overflowed, or otherwise placed on the surrounding area, the generator or owner shall assure the materials are cleaned from the area and properly disposed.**
- 4.09 Pretreatment devices (grease trap/interceptor, grit trap and pretreatment facilities installed in series shall be fully evacuated of all contents during cleaning as set in 30 Texas Administrative Code Part I, Chapter 312, Subchapter G, Rule §312.143. Each grit trap and grease trap pumped shall be fully evacuated unless the trap volume is greater than the tank capacity on the vacuum truck in which case the transporter shall arrange for additional transportation capacity so that the trap is fully evacuated within a 24-hour**

period. If a transporter cannot fully evacuate a grit trap or grease trap because the trap volume is greater than the tank capacity on the truck, the transporter shall arrange for additional transportation capacity to ensure the trap is fully evacuated within the 24-hour period following the transporter's inability to fully evacuate the trap.

A. No liquid waste shall be returned to the pretreatment device or holding tank after or during cleaning, either from the same or other pretreatment device or holding tank.

B. During pretreatment device cleaning, all residue shall be removed from floor, piping and walls. The pretreatment device floor, wall and piping shall be inspected to assure the integrity of the device is maintained.

C. Outlet line of the Pretreatment facilities/Grease traps shall be hydro jetted to remove any settled FOG (fats, oil and grease) from the service line to prevent blockages.

4.10 Materials removed from traps shall be utilized by industry, recycled, or disposed at a facility designated by or acceptable to the generator where the owner or operator agrees to receive the wastes and the disposal facility has documentation showing the facility meets all requirements of the State for the proper operation of the disposal facility. All wastes shall be disposed in a suitable manner in accordance with applicable federal, state, and local laws.

4.11 Users with a Pretreatment facilities/grease trap, grit trap, lint trap, oil separator or holding tanks shall establish a system of training designed to provide employees with appropriate instruction on the proper use of such facilities.

A. Such training system shall provide employees at all levels of responsibility with a complete understanding of the following:

Importance and methods of good housekeeping practices such as BMPs (Best Management Practices);

Acceptable waste disposal practices including proper disposal of different types of wastes;

Procedures for preventing prohibited discharges; and proper response to and notifications in case of spills or other accidental discharges.

5. GREASE TRAP TREATMENT PRODUCTS

- 5.01 Use of grease trap treatment products, including bacteria, designed to digest the grease, is specifically prohibited without prior written consent of the Pretreatment Supervisor or authorized agent.**
- A. Acceptance of such products for use may be considered only where a valid on site screening test, showing the product's ability to treat the waste and to produce an effluent in compliance with this Policy and City of McAllen Ordinances, has been performed in accordance with the methods outlined by the Director or authorized agent.**
 - B. The Director or authorized agent may revoke permission to use such products where the effluent from the trap or basin in which the product is used fails to meet the requirements of this Ordinance.**
- 5.02 Use of accepted grease trap treatment products shall not relieve the User of minimum cleaning requirements set forth in this Ordinance.**
- 5.03 Use of accepted grease trap treatment products may subject the User to monthly surcharge fees where such usage causes the effluent concentrations to exceed the definition of normal domestic wastewater. Surcharge fees will be levied for biochemical oxygen demand, chemical oxygen demand, and total suspended solids.**

6. INSPECTION AND CLEANING SCHEDULES

- 6.01 Inspection, cleaning, and other necessary maintenance of such facilities shall be conducted as often as needed to assure the discharge is in compliance with the provisions of this or other applicable Ordinance, but not less than once per ninety (90) days.**
- A. The grease trap and the holding tank shall be cleaned as often as necessary, up to and including daily, to assure compliance with this or other applicable Ordinance.**
 - B. In no case shall the accumulated oil or grease be allowed to occupy more than twenty-five percent (25%) total design grease trap capacity.**
- 6.02 The physical condition of the trap shall be inspected by the User each time the facility is cleaned. Repairs, if needed, shall be made prior to further use.**
- A. Repairs or modifications shall be approved by the City of McAllen Building Inspections Department and the Wastewater Pretreatment Supervisor or authorized agent and shall not be made without the appropriate city permits.**
 - B. Inspection shall be conducted by the City of McAllen Building Inspections Department and or Pretreatment department after repair and prior to refilling or use.**
 - C. Documentation of repairs shall be submitted to the Pretreatment department or authorized agent within thirty (30) days of the date of repair or earlier if specified.**
- 6.03 Grease traps shall produce an effluent in compliance with this Ordinance at the User's pumping schedule. No User shall discharge wastewater containing oil and grease concentration in excess of the discharge limit specified in the City's Local Limits for industrial waste discharges. Schedules inadequate to produce such effluent shall be upgraded to as often as necessary. Upgraded traps shall meet all requirements set forth in this or other applicable Ordinance.**
- 6.04 A User shall have any trap cleaned when ordered to do so by the Director or authorized agent.**

7. CLEANING SCHEDULE EXTENSIONS

- 7.01** The User may apply to the Director or authorized agent for an extension of the required cleaning frequency set forth in this Ordinance. A User who wishes to apply for a cleaning schedule extension shall notify the Director or authorized agent, in writing, of the intent to apply for an extension.
- 7.02** The Director or authorized agent may grant an extension on a required cleaning frequency on a case-by-case basis where the User has demonstrated, with defensible analytical results, the specific trap will produce an effluent in consistent compliance with this Ordinance if such an extension is granted.
- 7.03** The notification of intent to apply for an extension shall include:
- A. Facility information:**
 - The name and address of the facility;
 - Name and telephone number of the facility contact;
 - Normal business hours; and
 - The type of business.
 - B. Treatment unit information:**
 - The type of treatment unit and the capacity, in gallons;
 - A brief description of the treatment unit;
 - The time(s) of day the greatest hydraulic and organic loadings to the treatment unit normally occur;
 - The date of the most recent cleaning and inspection of the unit;
 - A statement of the physical condition of the unit; and
 - Where applicable, the name of any treatment products used and a copy of the Director or authorized agent approval letter for the use of the product.
 - C. Other information as may be requested by the Director or authorized agent.**
- 7.04** The Director or authorized agent may grant extensions to the cleaning schedule as follows:
- 7.05** Extensions granted shall begin on the date the samples for which results were submitted were collected as documented on the chain of custody.
- 7.06** Where an extension has been granted, the unit shall consistently produce an effluent in compliance with the terms of this or other applicable Ordinance. The Director or authorized agent shall reserve the right to collect and analyze samples of any User's discharge and may revoke, without notice, any extension where the Director or authorized agent believes it is in the best interest of the proper operation of the POTW.
- A.** Where an extension has been granted and any sample analysis indicates an exceedance of effluent limitation as set in City of McAllen Ordinances, by twenty-five (25%) percent or more, the User shall immediately clean and inspect the trap and shall return to the original cleaning schedule.

Where the User has been required to return to an original cleaning frequency, the User shall be required to submit a new request for extension if desired.

- B. Where an extension has been granted and any sample analysis indicates an exceedance of the oil and grease limitation by any magnitude but less than 25%, the User shall immediately clean and inspect the trap and shall increase the established cleaning frequency by at least thirty (30) days.**
- C. Where an extension has been granted and the City must clean associated public sewer lines and the stoppage is traceable to or known or suspected to be caused by the User's facility, the User shall immediately clean and inspect the trap and shall return to the original cleaning schedule. The User will be required to submit a new request for extension if desired.**

Revised on September 16, 2011

Revised September 16, 2011 Page 1-1 Section 1.04 and 1.06 (A), Page 1-2 1.07 and 1.10, Page 2-2 Section 2.06 (A) (f) * Single Service Kitchen (definition), Page 2-3 Section 2.07 (C) (E) (F) (I), Page 2-4 Section (F) (4) (A), Page 3-1 Section 3.00 and (d),Page 3-2 Section 3.02 (A) and (B).

Revised on January 13, 2012

Revised January 13, 2012 Page 1-1 Section 1.04, Revised January 13, 2012 Page 2-1 Section 2.01, Revised January 13, 2012 Page 2-3 Section 2.07 (A, B, & D), Added January 13, 2012 Page 3-8 Figure 4