A-1.4 BUILDING SEWER: EXTERNAL FOG INTERCEPTOR REQUIREMENTS

Exterior FOG interceptors are deemed ”sources of pollution” under the Connecticut Public Health Code and shall be located not less than 75 feet from any water supply wells with a yield of 10 gallons or less per minute. For water supply wells with a greater yield, minimum separating distances shall be determined in accordance with the requirements of Section 19-13-B51d of the Connecticut Public Health Code.

All external FOG Interceptors shall be of a type and capacity approved by the Authority or its designated agent and shall be easily accessible for cleaning and inspection. FOG Interceptors shall be constructed of impervious, non-corrosive materials capable of withstanding abrupt and extreme changes in temperature, and capable of sustaining H-20 vehicle loading. FOG Interceptors shall be of substantial construction, watertight and equipped with manhole frames and easily removable covers. Each unit shall provide for access at each end of the chamber, so that maintenance can be done at the inlet and outlet. FOG Interceptors shall be designed in accordance with the Brookfield WPCA standard detail(s).

FOG Interceptors shall have a minimum capacity of 1,000 gallons. Subject to such minimum sizing, the Authority will establish sizing as follows:

a) Flow rate shall be based on fixture drainage in a 1 minute period or flow capacity of the drainage line into the FOG Interceptor;

b) Additional allowance shall be made for dishwashers or other grease discharging equipment;

c) The FOG Interceptor shall have a minimum hydraulic retention time of 30 minutes. The total flow rates found in (a) and (b) above shall be multiplied by 30 minutes to obtain the base capacity of the FOG Interceptor.

d) The FOG Interceptor base capacity calculated in (c) above shall be used, plus a factor of 50% to allow for reserve capacity;

e) Where higher grease or oil concentrations are expected, a factor of up to 100% may be required by the Authority for reserve capacity;

f) The chamber shall have a 1.25 safety factor against uplift (with the chamber empty and ground water level at the surface) and shall have an approved bottom slope. Each unit shall provide for access at each end of the chamber.

g) for restaurants over 100 seats, or for oriental and fast food restaurants, the Authority will determine required FOG Interceptor sizes based on anticipated flows and estimated grease/oil capacities.

The FOG Interceptor shall be installed on a separate building sewer servicing only flows from the kitchen or food preparation areas. ***Except as otherwise authorized by the Authority, the inlet shall be PVC ASTM D 1785 Schedule 40 with rubber compression gaskets or solvent weld couplings. The joints must meet ASTM 3212 specifications. A tee pipe fitting shall be utilized on the Interceptor's inlet and outlet pipes.*** The tee-pipe of the inlet ~~and outlet~~ shall extend to within twelve inches of the bottom and at least five inches above the liquid level of the tank. An effluent filter shall be installed on the outlet with the top of the filter at least five inches above the liquid level of the tank.

All building plumbing facilities shall be constructed, operated and maintained in a manner to ensure that the discharge of food preparation wastewater is directed solely to the FOG Interceptor. No valve or piping bypass equipment that could permit the discharge of food preparation wastewater to bypass the FOG Interceptor shall be permitted. Exterior FOG interceptors shall be a minimum of 10-ft from the building face. No chemical and/or biological additives shall be used in the building's plumbing or sanitary sewer lines or in the FOG Interceptor to control or dissolve fats, oils and grease.

FOG Interceptor location, flow control, venting and other installation details shall otherwise conform to the Standard Details, International Plumbing Code (State Building Code), and to the recommendations of the Plumbing and Drainage Institute. The BWPCA will not accept any influent into their system of excessive temperatures (over 150º F).

Grease interceptor tanks shall comply with horizontal separation distances to stormwater infiltration systems, as listed in Appendix Table 1. The BWPCA shall have the authority to reduce this requirement on a case-by-case basis if no other alternative exists.