

TYPICAL GREASE TRAP CONNECTIONS

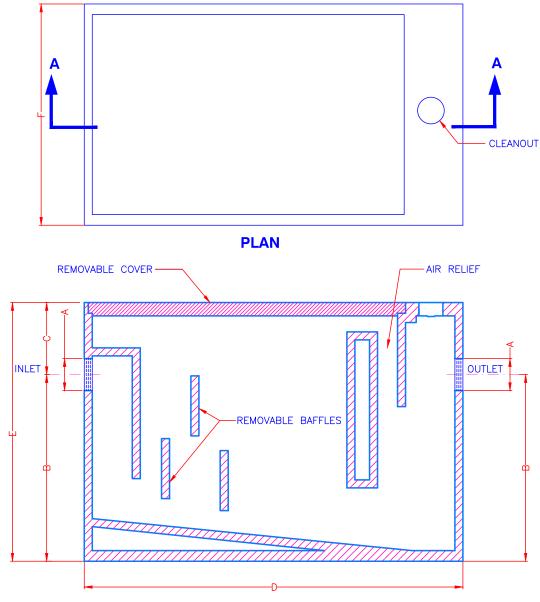


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Sept. 30, 2012



SECTION A-A

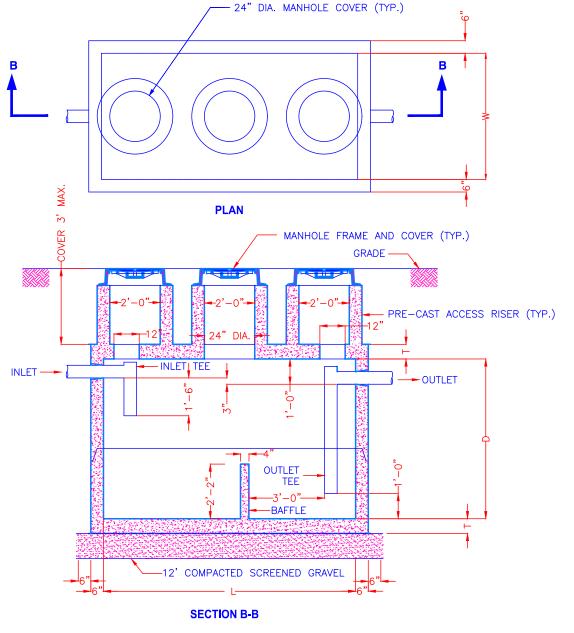
POT SINK GREASE TRAP SIZING CHART										
FLOW RATE IN GPM	GREASE CAPACITY IN POUNDS	INLET AND OUTLET SIZE IN INCHES A	TYPICAL DIMENSIONS IN INCHES							
			В	С	D	E	F			
4	8	2	7¾"	31/4"	16¾"	11"	10"			
7	14	2	8½"	3½"	19"	12"	10¾"			
10	20	2	9½"	33/4"	21¼"	131/4"	13"			
15	30	2	12"	3½"	25"	15½"	14"			
20	40	3	13"	4"	28½"	17"	15¾"			
25	50	3	151/4"	4½"	30"	19¾"	16¾"			
35	70	3	16"	5"	32½"	21"	181/4"			
50	100	3	17½"	63/4"	35½"	241/4"	20¾"			



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NOTE:

COVER IN EXCESS OF 3'-0" WILL REQUIRE SUBMITTAL STAMPED, SIGNED, AND DATED BY A PROFESSIONAL ENGINEER REGISTERED IN MASSACHUSETTS WITH DESIGN THAT PREVENTS BUOYANCY FORCES FROM PUSHING EMPTY GREASE TRAP OUT OF THE GROUND.

IN-LINE GREASE TRAP SIZING CHART										
NUMBER OF MEALS SERVED PER DAY	REQUIRED CAPACITY IN GALLONS		THICKNESS OF TOP AND BOTTOM SLABS							
		D	L	W	l					
<500	1000	5'-0"	6'-0"	6'-0"	6"					
500-1000	2000	6'-4"	10'-0"	5'-0"	7"					



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NOTES

- THIS DRAWING TO BE USED IN CONJUNCTION WITH BWSC "GUIDELINES FOR DEVELOPERS FOR THE INSTALLATION, OPERATION AND MAINTENANCE OF GREASE TRAPS".
- 2. ALL PRECAST CONCRETE STRUCTURES TO MEET THE FOLLOWING REQUIREMENTS:
 - A. CONCRETE STRENGTH F'c 5000LBS PER SQ. IN. AT 28 DAYS WITH DENSITY 150LBS PER CU. FT.
 - B. CEMENT EITHER PORTLAND TYPE I OR II PER ASTM C150.
 - ADMIXTURES, AIR ENTRAINMENT AND PLASTICIZERS PER ASTM C233.
 - D. REINFORCEMENT, PER ASTM A615; GRADE 40 OR 60 REQUIRED.
 - CONTRUCTION JOINTS SEALED WITH ASPHALT CEMENT
 - DESIGN LOADING AASHTO HS20-44
 - G. TEES SUPPLIED BY CONTRACTOR AND SHALL MEET REQUIREMENTS OF MASSACHUSETTS PLUMBING CODE 248 CMR 2.09
- 3. ALL CAST-IN-PLACE CONCRETE TO HAVE A MINIMUM 28 DAY STRENGTH OF 3000LBS. PER SQ. IN. USING 3/4" MAXIMUM SIZE AGGREGATE.
- 4. IF CAST-IN-PLACE STRUCTURE SUBJECT TO TRAFFIC LOADS, THEN DESIGN LIVE LOAD TO CONFORM TO AASHTO HS20-44 (UNLESS SPECIAL CONDITIONS APPLY).
- 5. FOR DETAILS OF MANHOLE BASES AND RISERS SEE STANDARD BWSC DETAILS SECTION B.
- 6. FOR DETAILS OF MANHOLE FRAMES AND COVERS SEE STANDARD BWSC DETAILS SECTION F.
- 7. FOR RESTAURANTS SERVING MORE THAN 1000 MEALS PER DAY, DEVELOPER WILL BE REQUIRED TO HAVE GREASE TRAPS DESIGNED BY A MASSACHUSETTS PROFESSIONAL ENGINEER AND HAVE PLAN OF DESIGN SUBMITTED, SIGNED, STAMPED, AND DATED BY THE DESIGNER FOR REVIEW.

FORMULA FOR DETERMINING FLOW RATE

- STEP 1 DETERMINE CU. IN. CAPACITY OF FIXTURE EXAMPLE: A SINK 48" LONG BY 24" WIDE BY 12" DEEP IS 48"x24"x12" = 13,824 CU. IN.
- STEP 2 DETERMINE CAPACITY IN GALLONS (1 GALLON = 231 CU. IN.) EXAMPLE: 13,824 CU. IN. x 1 GALLON/231 CU. IN. = 59.8 GALLONS
- STEP 3 DETERMINE FLOW RATE AND DRAINAGE PERIOD IF ACTUAL DRAINAGE PERIOD IS LESS THAN 1 MIN., USE 1 MIN. FOR DRAINAGE PERIOD. IF ACTUAL DRAINAGE PERIOD GREATER THAN 2 MIN., USE 2 MIN. FOR DRAINAGE PERIOD. IF ACTUAL DRAINAGE PERIOD BETWEEN 1 MIN. AND 2 MIN., USE ACTUAL DRAINAGE PERIOD. ACTUAL DRAINAGE LOAD USED IN CALCULATION IS 75% OF CAPACITY IN GALLONS.

EXAMPLE: FLOW RATE = 0.75×59.8 GALLONS/1.5 MINUTES = 29.9 GPM

GREASE TRAPS NOTES

Scale: Not To Scale

