

# CITY OF PORTLAND WASTEWATER CAPACITY APPLICATION

Department of Public Services,  
55 Portland Street,  
Portland, Maine 04101-2991



Mr. Frank J. Brancely,  
Senior Engineering Technician,  
Phone #: (207) 874-8832,  
Fax #: (207) 874-8852,  
E-mail: fjb@portlandmaine.gov

Date: January 4, 2016

**1. Please, Submit Utility, Site, and Locus Plans.**

Site Address: 1363 Washington Ave., Portland, ME. Chart Block Lot Number: 401 A002001

Proposed Use: Restaurant

Previous Use: Restaurant

Existing Sanitary Flows: 433 (water) GPD

Existing Process Flows: records) GPD

Description and location of City sewer that is to receive the proposed building sewer lateral.

Frontage - Washington Avenue

Site Category

- Commercial (see part 4 below)
- Industrial (complete part 5 below)
- Governmental
- Residential
- Other (specify)

<input checked="" type="checkbox"/>
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*(Clearly, indicate the proposed connections, on the submitted plans)*

**2. Please, Submit Contact Information.**

City Planner's Name: Barbara Barhydt Phone: 207-874-8699  
 Owner/Developer Name: Guggenheim Retail Real Estate Partners, Inc.  
 Owner/Developer Address: 3000 Internet Blvd., Suite # 570, Frisco, TX. 75034  
 Phone: 214-872-4046 Fax: 214-872-4001 E-mail: Angel.Robinson@guggenheimpartners.com  
 Engineering Consultant Name: Dave Fenstermacher  
 Engineering Consultant Address: 2 Bedford Farms Drive, Suite # 200, Bedford, NH. 03110-6532  
 Phone: 603-391-3929 Fax: 603-518-7495 E-mail: DFenstermacher@VHB.com

***(Note: Consultants and Developers should allow +/- 15 days, for capacity status, prior to Planning Board Review)***

**3. Please, Submit Domestic Wastewater Design Flow Calculations.**

Estimated Domestic Wastewater Flow Generated: 1200 GPD

Peaking Factor/ Peak Times: 26 GPM

Specify the source of design guidelines: (i.e. "Handbook of Subsurface Wastewater Disposal in Maine,"  
"Plumbers and Pipe Fitters Calculation Manual," Portland Water District Records, Other (specify)

***(Note: Please submit calculations showing the derivation of your design flows, either on the following page, in the space provided, or attached, as a separate sheet)***

**4. Please, Submit External Grease Interceptor Calculations.**

Total Drainage Fixture Unit (DFU) Values: 25  
Size of External Grease Interceptor: 1000  
Retention Time: 60 Minutes  
Peaking Factor/ Peak Times: \_\_\_\_\_

*(Note: In determining your restaurant process water flows, and the size of your external grease interceptor, please use The Uniform Plumbing Code. Note: In determining the retention time, sixty (60) minutes is the minimum retention time. Note: Please submit detailed calculations showing the derivation of your restaurant process water design flows, and please submit detailed calculations showing the derivation of the size of your external grease interceptor, either in the space provided below, or attached, as a separate sheet)*

**5. Please, Submit Industrial Process Wastewater Flow Calculations**

Estimated Industrial Process Wastewater Flows Generated: \_\_\_\_\_ GPD  
Do you currently hold Federal or State discharge permits? Yes \_\_\_\_\_ No \_\_\_\_\_  
Is the process wastewater termed categorical under CFR 40? Yes \_\_\_\_\_ No \_\_\_\_\_  
OSHA Standard Industrial Code (SIC): <http://www.osha.gov/oshstats/sicser.html>  
Peaking Factor/Peak Process Times: \_\_\_\_\_

*(Note: On the submitted plans, please show where the building's domestic sanitary sewer laterals, as well as the building's industrial-commercial process wastewater sewer laterals exits the facility. Also, show where these building sewer laterals enter the city's sewer. Finally, show the location of the wet wells, control manholes, or other access points; and, the locations of filters, strainers, or grease traps)*

*(Note: Please submit detailed calculations showing the derivation of your design flows, either in the space provided below, or attached, as a separate sheet)*

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Notes, Comments or Calculation

## GREASE INTERCEPTOR SIZING

FLOOR DRAIN	-	4	x	2.0	=	8.0 DFU
FLOOR SINK	-	4	x	3.0	=	12.0 DFU
MOP SINK	-	1	x	5.0	=	5.0 DFU
						25.0 DFU (TOTAL)

DFU'S	INTERCEPTOR VOLUME GALS.
8	500
21	750
→ 35	1000
90	1250
172	1500
216	2000
307	2500
342	3000
428	4000
576	5000

CONTRACTOR SHALL INSTALL A MINIMUM 1000 GALLON GREASE INTERCEPTOR. SIZE AND INSTALLATION BASED ON 2013 UNIFORM PLUMBING CODE, TABLES 7-3, 7-4 AND 10-3.

## WATER FIXTURE LOAD CALCULATIONS

MARK	FIXTURE/EQUIPMENT	QUANTITY	WATER			
			CW F.U. PER FIXTURE	HW F.U. PER FIXTURE	TOTAL WSFU PER TYPE	TOTAL F.U. PER FIXTURE
HWC-1	ADA WATER CLOSET	2	5.0	-	5.0	10.0
L-1	LAVATORY	2	1.5	1.5	2.0	4.0
S-1	HAND SINK	2	1.5	1.5	2.0	4.0
S-2	MOP SINK	1	3.0	3.0	4.0	4.0
S-3	3 COMP. SINK	1	3.0	3.0	4.0	4.0
S-4	PREP SINK	1	1.5	1.5	2.0	2.0
FPWH-1	F.P. WALL HYDRANT	2	3.0	-	3.0	6.0
RETH-1	RETHEMALIZER	1	-	1.0	1.0	1.0
P-450	HOT WATER FILTER	2	1.0	-	1.0	2.0
P-315	REVERSE OSMOSIS	1	1.0	-	1.0	1.0
S-286	WATER FILTER	1	5.0	-	5.0	5.0
TOTALS						39.0

MAXIMUM WATER DEMAND AT 39.0 F.U. = 26.3 GPM = 1¼" WATER MAIN SUPPLY