

Plumbing Load Calculation Based on the 2015 International Plumbing Code

Project Name: 4201 Garrison St NW										
Project No:							Calculated By: SSA			
Type of Fixture	Quantity	Sanitary DFU	Total DFU	Water Demand			Totals			
				CW	HW	Total	Total CW	Total HW	Total	GPM
Group (Tank)	176	5	880	2.7	1.5	3.6	475.2	264	633.6	147
WC Tank (Private)		3		2.2		2.2				
WC Tank (Public)		4		5		5				
Group (FV)		5		6	3	8				
WC FV (Private)		3		6		6				
WC FV (Public)	3	4	12	10		10	30		30	42
Public UR (FV)		4		5		5				
Public Lavatory	3	1	3	1.5	1.5	2	4.5	4.5	6	10.7
Private Lavatory		1		0.5	0.5	0.7				
Public Bathtub		2		3	3	4				
Private Bathtub		2		1	1	1.4				
Public Shower		3		3	3	4				
Private Shower		2		1	1	1.4				
Mop basin	2	3	6	2.25	2.25	3	4.5	4.5	6	10.7
Service Sink		2		2.25	2.25	3				
Public Kitchen Sink		2		3	3	4				
Private Kitchen Sink W/ DW	127	2	254	1	2.4	2.8	127	304.8	355.6	95
Drinking Fountain	2	0.5	1	0.25		0.25	0.5		0.5	
Washing Machine (Public)	127	3	381	3	3	4	381	381	508	124
Washing Machine (Private)		2		1	1	1.4				
3" Floor Drain		5								
4" Floor Drain		6								
Bar sink		1		1.5	1.5	2				
Ice Machine				0.25		0.25				
Wall Hydrants and Hose Bibbs				3		3				
Three Compartment sink		6	18	6	6	8				
Two Compartment Sink		6		3	3	6				
							Totals	1022.7	958.8	1539.7
			Total DFU	1555			GPM	208	189	269
Additional Demands		GPM								
Pool Equipment										
Hose Bibs		10							10	
Irrigation		20							20	
							Totals GPM With Additional Demand			299

Notes:

1. Supply fixture unit value based on the 2015 International Plumbing Code table E103.3(2)
2. Drainage fixture unit value based on the 2015 Standard Plumbing Code table 709.1
3. Add an additional 5 gpm for each hose bibb up to 10 hose bibs

Domestic Water Service Size	4"
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