

Customer Name: GMC Projects
 Address: 900 Carlton Terr.

 PID Number: _____
 Project Number: 5311-002
 Building Permit Number: _____

 Type of Occupancy: **Multi-Family**

Number of Unit: 272 Res. 6 Comm.

 Phased Development? **Yes**

 Calculations Presented below are for: **Buildout**

 Phase Number: **n/a**

Step 1: Calculate Total Fixture Value

Fixture	Fixture Value	No. of Fixtures	Fixture Value
Bathroom Group Includes bathtub, shower, toilet, and lavatory sink.	12	x 345	= 4140.0
Bathtub	8	x 1	= 8.0
Bedpan Washer	10	x 0	=
Bidet	2	x 0	=
Dental Unit	2	x 0	=
Dishwasher	2	x 258	= 516.0
Drinking Fountain	2	x 0	=
Kitchen Sink	2.2	x 258	= 567.6
Lavatory	1.5	x 0	=
Showerhead (Shower Only)	2.5	x 45	= 112.5
Service Sink	4	x 3	= 12.0
Toilet:			
Flush Valve (non-residential only)	35	x 0	=
Tank Type	4	x 0	=
Urinal:			
Pedestal Flush Valve (non-residential only)	35	x 0	=
Wall Flush Valve	16	x 2	= 32.0
Wash Sink (Each Set of Faucets)	4	x 0	=
Washing Machine	6	x 258	= 1548.0
Hose bibs (c/w 50 ft Wash Down)			
- 1/2 inch	5	x 10	= 50.0
- 5/8 inch	9	x 0	=
- 3/4 inch	12	x 0	=
Other:			
	x		=
			(A)
		Total Fixture Value	= 6986.1

Step 2: Calculate Probable Peak Demand

Refer to Figure 4-2 or 4-3

 Probable Peak Demand = 105 GPM (B)

Step 3: Apply Pressure Adjustment Factor

 Water System Pressure (Hydraulic Grade Line - Elevation) - max. 80psi = 80 psi
 Pressure Factor from Table 4-3 = 1 (C)

 Adjusted Peak Demand (B x C) = 105 GPM (D)

email arch for this

Step 4: Identify Irrigation Demand

I asked landscape arch on may 26th 2023

 Total Irrigation Demand = 50 GPM (E)

Larger irrigation areas should be divided into zones, with a maximum irrigation demand of 50 GPM. If the irrigation demand is greater than 50 GPM, the Consultant shall provide a detailed irrigation plan with appropriately designed zone

Step 5: Confirm Design Demand

 Design Demand (D + E) = 155 GPM (F)

Step 6: Size and Select Water Meter

 Water Meter Make / Model: =
 Water Meter Size = 75 mm

Professional Certification


Seal

 Name: Tim Lutic, P. Eng.
 Company: Herold Engineering Limited
 Date: 23-Jun-23
 Revision: Rev. 1.
 Comments: