


CMGT 235 – Electrical and Mechanical Systems

Department of Construction Management  California State University, Chico

Homework #10 – Plumbing Material

Points: 20

Due: 9/27/2022

Name: **Solution**

1. For the house plan provided the owner has selected all plumbing fixture options shown. Using a yellow highlighter color and count all the plumbing fixtures listed in the table below.

Fixture	Total
Water Closet	5
LAV	7
Tub/Shower	3
Tub	1
Shower	1
Kitchen Sink	1
Dishwasher	2
Laundry Sink	1

2. If all the water closets are WaterSense and if they were to be flushed simultaneously, how much water would be used?

$$\text{Total Water Consumed WC} = 5 \times 1.28 \text{ GPF} = 6.4 \text{ gal}$$

3. What is the flow rate for a WaterSense LAV?

$$\text{Flow Rate LAV} = 1.5 \text{ GPM}$$

