

CMGT 235 – Electrical and Mechanical Systems

Department of Construction Management ☻ California State University, Chico

Homework #13 – Plumbing Systems

Points: 20

Due: 10/6/2022

Name: **Solution****Use the 2016 CPC – Table 702.1**

1. Calculate the Total DFUs for the home used in homework #10. The home uses the city's sewer line.

Fixture	Number of Fixtures	DFU	Total (DFU)
Water Closet	5	3.0	15.0
LAV	7	1.0	7.0
Tub/Shower	3	2.0	6.0
Tub	1	2.0	2.0
Shower	1	2.0	2.0
Kitchen Sink	1	2.0	2.0
Dishwasher	2	2.0	4.0
Laundry Machine	1	3.0	3.0
Laundry Sink	1	2.0	2.0
Total			43.0

2. Complete the Table shown:

Fixture	Minimum Size Trap and Trap Arm (Inches)
Water Closet	3
LAV	1 1/4
Tub/Shower	1 1/2
Tub	1 1/2
Shower	2
Kitchen Sink	1 1/2
Dishwasher	1 1/2
Laundry Machine	2
Laundry Sink	1 1/2

3. Using the isometric paper provided sketch the isometric drawing for the piping diagram shown from the south elevation.

