

**CMGT 235 – Electrical and Mechanical Systems**

Department of Construction Management ☻ California State University, Chico

Bathroom Groups Example:

- Determine the total DFU for the two-story house plan shown on the next page using (a) As individual fixtures using Table 702.1 and (b) as bathroom groups using Appendix C. List bathroom fixtures as groups.

Fixture	# of Fix.	Minimum Trap Size and Trap Arm (inches)	DFU		
			EACH	THIS JOB	
WC	1		3.0	3.0	BG #1
LAV	2		1.0	2.0	
BT	1		2.0	2.0	
SHW	1		2.0	2.0	
WC	1		3.0	3.0	BG #2
LAV	2		1.0	2.0	
SHW	1		2.0	2.0	
WC	1		3.0	3.0	BG #3
LAV	1		1.0	1.0	
SHW	1		2.0	2.0	
WC	1		3.0	3.0	½ BG
LAV	1		1.0	1.0	
KS	1		2.0	2.0	
DW	1		2.0	2.0	
LS	1		2.0	2.0	
CW	1		3.0	3.0	
BS	1		1.0	1.0	
<b>TOTALS</b>				<b>36.0</b>	

**Appendix C**

**3 BG = 9.0**

**½ BG = 0.5**

**1 SHW = 2.0**

**TOTAL = 11.5**

**+ 10.0**

**TOTAL DFU = 21.5**

- Size the Building Drain and Sewer

Code	Size of Building Drain and Sewer	Slope
Table 703.2	4"	¼ inch per foot
Table C 304.2	4"	1/8 inch per foot
Table C 304.2	4"	¼ inch per foot

