

Determining Water Pipe and Meters Sizes

Project Address: _____

General Information

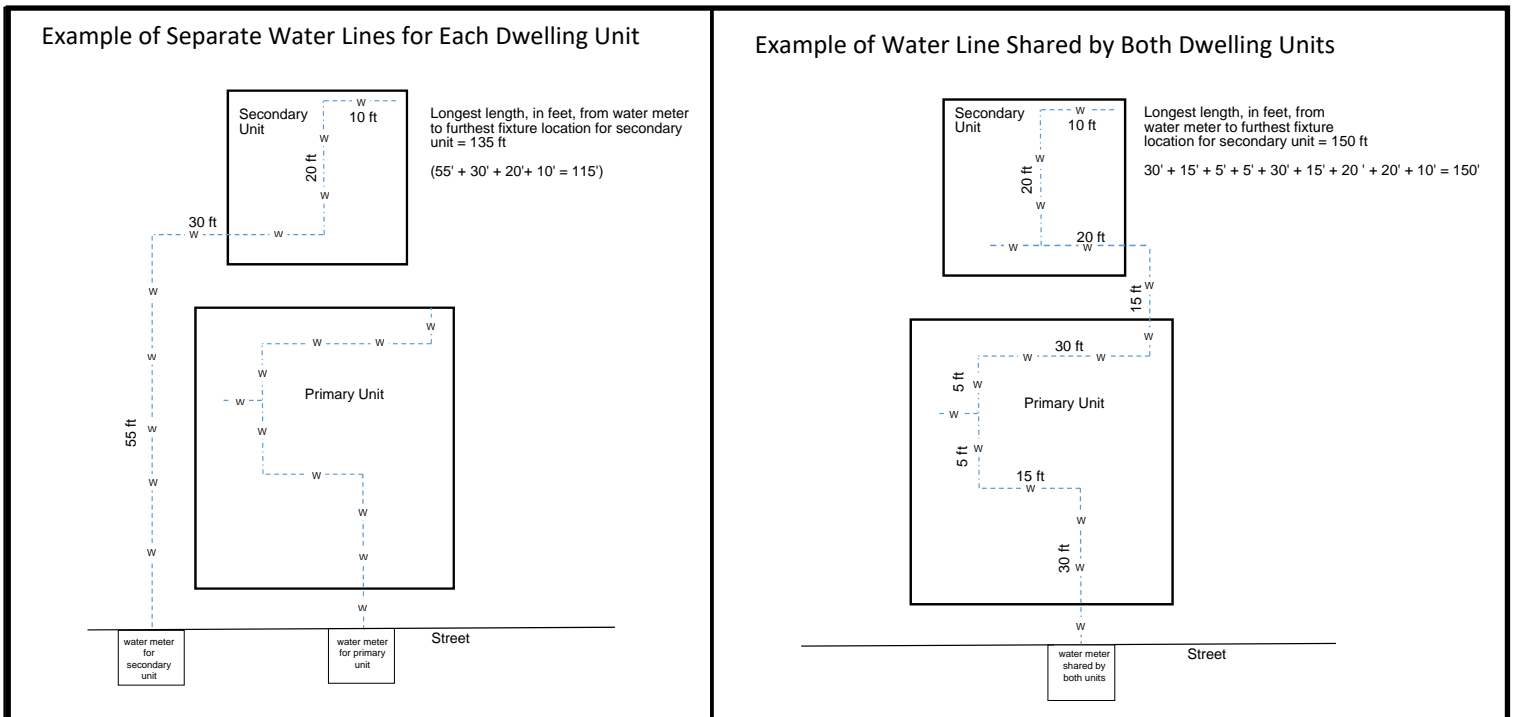
Water piping systems shall be designed and installed to meet the minimum standards set forth in Chapter 6 of the current California Plumbing Code.

*The length shall be the distance from the water meter (usually located at the street) to the furthest fixtures.

*The size of the water Meter and street service as well as the building supply and branches are calculated per CPC Table 610.4.

*Subtract, from the available water pressure provided, one-half (1/2) pound per square inch pressure for each foot of difference in elevation between such source of supply and highest water supply outlet in the building or on the premises.

- 1) Length in feet (L) from water meter to furthest fixture location: _____
- 2) Elevation difference between water meter and highest water supply outlet: _____
- 3) Total number of fixtures units as computed from CPC table 610.3 (see page 2 of this form): _____
- 4) Size of existing meter (3/4" or 1", etc.) : _____
- 5) Required size of meter (3/4", 1', etc.) from CPC table 610.4 (see page 2 of this form) : _____



Project Address: _____

TABLE 610.3 INSTRUCTIONS:

If second unit and primary unit will share the same water meter, please complete Column A, Column B, and Column C.
 If the second unit will have a dedicated water line and a separate water meter, please complete only Column B and Column C.

**CALIFORNIA PLUMBING CODE, TABLE 610.3
 WATER SUPPLY FIXTURE UNITS (WSFU) AND MINIMUM FIXTURE BRANCH PIPE SIZES**

APPLIANCES, APPURTENANCES OR FIXTURES ²	MINIMUM FIXTURE BRANCH PIPE SIZE (Inches)	COLUMN A QUANTITY OF EACH FIXTURE IN PRIMARY DWELLING UNIT	COLUMN B QUANTITY OF EACH FIXTURE IN SECONDARY DWELLING UNIT	COLUMN C UNITS PER FIXTURE	TOTAL OF BOTH PRIMARY AND SECONDARY FIXTURES COMBINED, MULTIPLIED BY UNITS PER FIXTURE <small>[COLUMN A + COLUMN B] X COLUMN C</small>
Bathtub or Combination Bath/Shower (fill)	½			4.0	
¾ inch Bathtub Fill Valve	¾			10.0	
Bidet	½			1.0	
Clothes Washer	½			4.0	
Dishwasher, domestic	½			1.5	
Hose Bibb	½			2.5	
Hose Bibb, each additional	½			1.0	
Lavatory	½			1.0	
Lawn Sprinkler, each head	-----			1.0	
Mobile Home or Manufactured Homes, each (minimum)	-----			6.0	
Sinks	-----	-----	-----	-----	-----
Bar	½			1.0	
Kitchen, domestic with or without dishwasher	½			1.5	
Laundry	½			1.5	
Shower, per head	½			2.0	
Water Closet, 1.6 GPF Gravity Tank	½			2.5	
Water Closet, greater than 1.6 GPF Gravity Tank	½			3.0	
Other: _____					
Other: _____					
Primary Dwelling Unit Fixture Unit Subtotal:		Second Dwelling Unit Fixture Unit Subtotal:		TOTAL COMBINED WATER FIXTURE UNITS:	

TABLE 610.4 INSTRUCTIONS:

Using the total calculated water fixture units from the table above and the length in feet from the water meter to the furthest fixture location, please highlight the below table to indicate the required Meter and Street Service size and the required Building Supply and Branches size.

METER AND STREET SERVICE (Inches)	BUILDING SUPPLY AND BRANCHES (Inches)	MAXIMUM ALLOWABLE LENGTH (feet)													
		40	60	80	100	150	200	250	300	400	500	600	700	800	900
PRESSURE RANGE - 46 to 60 psi															
¾"	½"	7	7	6	5	4	3	2	2	1	1	1	0	0	0
¾"	¾"	20	20	19	17	14	11	9	8	6	5	4	4	3	3
¾"	1"	39	39	36	33	28	23	21	19	17	14	12	10	9	8
1"	1"	39	39	39	36	30	25	23	20	18	15	12	10	9	8
¾"	1 ¼"	39	39	39	39	39	39	34	32	27	25	22	19	19	17
1"	1 ¼"	78	78	76	67	52	44	39	36	30	27	24	20	19	17
1 ½"	1 ¼"	78	78	78	78	66	52	44	39	33	29	24	20	19	17
1"	1 ½"	85	85	85	85	85	85	80	67	55	49	41	37	34	30
1 ½"	1 ½"	151	151	151	151	128	105	90	78	62	52	42	38	35	32
2"	1 ½"	151	151	151	151	150	117	98	84	67	55	42	38	35	32
1"	2"	85	85	85	85	85	85	85	85	85	85	85	85	85	83
1 ½"	2"	370	370	340	318	272	240	220	198	170	150	135	123	110	102
2"	2"	370	370	370	370	368	318	280	250	205	165	142	123	110	102
2"	2 ½"	654	640	610	580	535	500	470	440	400	365	335	315	285	267

Total Fixture Units
(rounded up to the nearest figure in the table)

Print Name _____

Signature _____

Date _____