

## WATER

## Plumbing Fixture Plan Review

**System Development Charge Calculation Sheet Based on Fixture Unit Weight (FUW)**  
**All water systems shall have water hammer arrestors and shall be accessible - Sec: 609.10 UPC**

Appliances, Appurtenances or Fixtures	No Change to Existing Fixture	Existing Fixture Relocated or Replaced	Existing Fixture Removed Not Replaced	New Fixture Added Not a Replacement	FUW Count For Each Item	Total FUWs City to complete
Bathtub or combination bath/shower	1				4	4
Bidet - Private					1	
Clothes washer	1				4	4
Dental unit, cuspidor					1	
Dishwasher, domestic	1				1.5	1.5
Drinking fountain or water cooler - Private/Public					0.5	
Drinking fountain or water cooler - Assembly					0.75	
Hose bib					2.5	
Hose bib, each additional					1	
Lavatory (bathroom sink)	2				1	2
Pedicure basin					1	
Shower, per head					2	
<b>SINKS</b>						
Bar sink - Private					1	
Bar sink - Public					2	
Clinic Faucet - Public					3	
Clinic flushometer valve with/without faucet - Public					8	
Kitchen, domestic	1				1.5	1.5
Laundry					1.5	
Service or mop basin - Private					1.5	
Service or mop basin - Public					3	
Wash-up, each set of faucets - Public					2	
Wash fountain, circular spray - Public					4	
<b>URINALS</b>						
Urinal, 1.0 GPF Flushometer valve - Public					4	
Urinal, 1.0 GPF Flushometer valve - Assembly					5	
Urinal, <b>greater</b> than 1.0 GPF Flushometer valve - Public					5	
Urinal, <b>greater</b> than 1.0 GPF Flushometer valve - Assembly					6	
Urinal, flush tank – Private or Public					2	
Urinal, flush tank - Assembly					3	
<b>WATER CLOSETS</b>						
Water closet, 1.6 GPF Gravity tank/Flushometer tank – Private/Public	2				2.5	5
Water closet, 1.6 GPF Gravity tank/Flushometer tank – Assembly					3.5	
Water closet, 1.6 GPF Flushometer valve – Private/Public					2.5	
Water closet, 1.6 GPF Flushometer valve – Assembly					3.5	
Water closet, <b>greater</b> than 1.6 GPF Gravity tank – Private					3	
Water closet, <b>greater</b> than 1.6 GPF Gravity tank – Public					5.5	
Water closet, <b>greater</b> than 1.6 GPF Gravity tank – Assembly					7	
Water closet, <b>greater</b> than 1.6 GPF - Flushometer valve - Private					7	
Water closet, <b>greater</b> than 1.6 GPF - Flushometer valve - Public					8	
Water closet, <b>greater</b> than 1.6 GPF - Flushometer valve - Assembly					10	
<b>TOTALS</b>	8					18.0

**Contact Engineering Services for current System Development fee information**

FORM PREPARED BY: JMJ Team

DATE: 10-29-25

TEL: (206) 596-2020

EMAIL: derek@jmjteam.com

**SANITARY SEWER**  
**Plumbing Fixture Plan Review**  
**System Development Charge Calculation Sheet Based on Fixture Unit Weight (FUW)**

Appliances, Appurtenances or Fixtures	No Change to Existing Fixture	Existing Fixture Relocated or Replaced	Existing Fixture Removed Not Replaced	New Fixture Added Not a Replacement	FUW Count For Each Item	Total FUWs
Bathtub or combination bath/shower	1				2	2
Bidet – 1 1/4”					1	
Bidet – 1 1/2”					2	
Clothes washer, domestic, 2” standpipe	1				3	3
Dental unit, cuspidor					1	
Dishwasher, domestic with independent drain	1				2	2
Drinking fountain or water cooler – Private/Public					0.5	
Drinking fountain or water cooler – Assembly					1	
Floor drain					2	
Food waste grinder – commercial					3	
Lavatory, (bathroom sink)	2				1	2
Lavatory, (bathroom sink) sets of 2 or 3					2	
Pedicure basin					1	
Shower, single head					2	
Shower, multi-head each additional					1	
Wash fountain, 1 1/2”					2	
Wash fountain, 2”					3	
<b>SINKS</b>						
Bar sink - Private					1	
Bar sink – Public/Assembly					2	
Clinic, 3” Public/Assembly					6	
Commercial, 1 1/2” with food waste					3	
Kitchen, domestic 1 1/2” (with/without food waste grinder/dishwasher – Private/Public	1				2	2
Laundry, 1 1/2”					2	
Service sink /Mop basin, 2”/3”					3	
Service sink, flushing rim 3”					6	
Wash, each set of faucets – Public/Assembly					2	
<b>URINALS</b>						
Urinal, 2” integral trap 1.0 GPF – Private/Public					2	
Urinal, 2” integral trap 1.0 GPF – Assembly					5	
Urinal, 2” integral trap greater than 1.0 GPF – Private/Public					2	
Urinal, 2” integral trap greater than 1.0 GPF – Assembly					6	
Urinal, 1 1/2” exposed trap – Private/Public					2	
Urinal, 1 1/2” exposed trap – Assembly					5	
<b>WATER CLOSETS</b>						
Water closet, 1.6 GPF Gravity tank / flushometer tank / flushometer valve – Private	2				3	6
Water closet, 1.6 GPF Gravity tank / flushometer tank / flushometer valve – Public					4	
Water closet, 1.6 GPF Gravity tank / flushometer tank / flushometer valve – Assembly					6	
Water closet, <b>greater</b> than 1.6 GPF Gravity tank / flushometer valve – Private					4	
Water closet, <b>greater</b> than 1.6 GPF Gravity tank / flushometer valve – Public					6	
Water closet, <b>greater</b> than 1.6 GPF Gravity tank / flushometer valve – Assembly					8	
<b>TOTALS</b>	8					17.0

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**WATER****Plumbing Fixture Plan Review**

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**All water systems shall have water hammer arrestors and shall be accessible - Sec: 609.10 UPC**

Appliances, Appurtenances or Fixtures	No Change to Existing Fixture	Existing Fixture Relocated or Replaced	Existing Fixture Removed Not Replaced	New Fixture Added Not a Replacement	FUW Count For Each Item	Total FUWs City to complete
Bathtub or combination bath/shower	1				4	4
Bidet - Private					1	
Clothes washer	1				4	4
Dental unit, cuspidor					1	
Dishwasher, domestic	1				1.5	1.5
Drinking fountain or water cooler - Private/Public					0.5	
Drinking fountain or water cooler - Assembly					0.75	
Hose bib					2.5	
Hose bib, each additional					1	
Lavatory (bathroom sink)	2				1	2
Pedicure basin					1	
Shower, per head					2	
<b>SINKS</b>						
Bar sink - Private					1	
Bar sink - Public					2	
Clinic Faucet - Public					3	
Clinic flushometer valve with/without faucet - Public					8	
Kitchen, domestic	1				1.5	1.5
Laundry					1.5	
Service or mop basin - Private					1.5	
Service or mop basin - Public					3	
Wash-up, each set of faucets - Public					2	
Wash fountain, circular spray - Public					4	
<b>URINALS</b>						
Urinal, 1.0 GPF Flushometer valve - Public					4	
Urinal, 1.0 GPF Flushometer valve - Assembly					5	
Urinal, <b>greater</b> than 1.0 GPF Flushometer valve - Public					5	
Urinal, <b>greater</b> than 1.0 GPF Flushometer valve - Assembly					6	
Urinal, flush tank – Private or Public					2	
Urinal, flush tank - Assembly					3	
<b>WATER CLOSETS</b>						
Water closet, 1.6 GPF Gravity tank/Flushometer tank – Private/Public	1				2.5	2.5
Water closet, 1.6 GPF Gravity tank/Flushometer tank – Assembly					3.5	
Water closet, 1.6 GPF Flushometer valve – Private/Public					2.5	
Water closet, 1.6 GPF Flushometer valve – Assembly					3.5	
Water closet, <b>greater</b> than 1.6 GPF Gravity tank – Private					3	
Water closet, <b>greater</b> than 1.6 GPF Gravity tank – Public					5.5	
Water closet, <b>greater</b> than 1.6 GPF Gravity tank – Assembly					7	
Water closet, <b>greater</b> than 1.6 GPF - Flushometer valve - Private					7	
Water closet, <b>greater</b> than 1.6 GPF - Flushometer valve - Public					8	
Water closet, <b>greater</b> than 1.6 GPF - Flushometer valve - Assembly					10	
<b>TOTALS</b>	7					15.5

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Bathtub or combination bath/shower	1				2	2
Bidet – 1 1/4”					1	
Bidet – 1 1/2”					2	
Clothes washer, domestic, 2” standpipe	1				3	3
Dental unit, cuspidor					1	
Dishwasher, domestic with independent drain	1				2	2
Drinking fountain or water cooler – Private/Public					0.5	
Drinking fountain or water cooler – Assembly					1	
Floor drain					2	
Food waste grinder – commercial					3	
Lavatory, (bathroom sink)	2				1	2
Lavatory, (bathroom sink) sets of 2 or 3					2	
Pedicure basin					1	
Shower, single head					2	
Shower, multi-head each additional					1	
Wash fountain, 1 1/2”					2	
Wash fountain, 2”					3	
<b>SINKS</b>						
Bar sink - Private					1	
Bar sink – Public/Assembly					2	
Clinic, 3” Public/Assembly					6	
Commercial, 1 1/2” with food waste					3	
Kitchen, domestic 1 1/2” (with/without food waste grinder/dishwasher – Private/Public	1				2	2
Laundry, 1 1/2”					2	
Service sink /Mop basin, 2”/3”					3	
Service sink, flushing rim 3”					6	
Wash, each set of faucets – Public/Assembly					2	
<b>URINALS</b>						
Urinal, 2” integral trap 1.0 GPF – Private/Public					2	
Urinal, 2” integral trap 1.0 GPF – Assembly					5	
Urinal, 2” integral trap greater than 1.0 GPF – Private/Public					2	
Urinal, 2” integral trap greater than 1.0 GPF – Assembly					6	
Urinal, 1 1/2” exposed trap – Private/Public					2	
Urinal, 1 1/2” exposed trap – Assembly					5	
<b>WATER CLOSETS</b>						
Water closet, 1.6 GPF Gravity tank / flushometer tank / flushometer valve – Private	1				3	3
Water closet, 1.6 GPF Gravity tank / flushometer tank / flushometer valve – Public					4	
Water closet, 1.6 GPF Gravity tank / flushometer tank / flushometer valve – Assembly					6	
Water closet, <b>greater</b> than 1.6 GPF Gravity tank / flushometer valve – Private					4	
Water closet, <b>greater</b> than 1.6 GPF Gravity tank / flushometer valve – Public					6	
Water closet, <b>greater</b> than 1.6 GPF Gravity tank / flushometer valve – Assembly					8	
<b>TOTALS</b>	7					14.0

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Bathtub or combination bath/shower	2				4	8
Bidet - Private					1	
Clothes washer	1				4	4
Dental unit, cuspidor					1	
Dishwasher, domestic	1				1.5	1.5
Drinking fountain or water cooler - Private/Public					0.5	
Drinking fountain or water cooler - Assembly					0.75	
Hose bib	2				2.5	5
Hose bib, each additional					1	
Lavatory (bathroom sink)	2				1	2
Pedicure basin					1	
Shower, per head					2	
<b>SINKS</b>						
Bar sink - Private					1	
Bar sink - Public					2	
Clinic Faucet - Public					3	
Clinic flushometer valve with/without faucet - Public					8	
Kitchen, domestic	1				1.5	1.5
Laundry					1.5	
Service or mop basin - Private					1.5	
Service or mop basin - Public					3	
Wash-up, each set of faucets - Public					2	
Wash fountain, circular spray - Public					4	
<b>URINALS</b>						
Urinal, 1.0 GPF Flushometer valve - Public					4	
Urinal, 1.0 GPF Flushometer valve - Assembly					5	
Urinal, <b>greater</b> than 1.0 GPF Flushometer valve - Public					5	
Urinal, <b>greater</b> than 1.0 GPF Flushometer valve - Assembly					6	
Urinal, flush tank – Private or Public					2	
Urinal, flush tank - Assembly					3	
<b>WATER CLOSETS</b>						
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Water closet, 1.6 GPF Flushometer valve – Private/Public					2.5	
Water closet, 1.6 GPF Flushometer valve – Assembly					3.5	
Water closet, <b>greater</b> than 1.6 GPF Gravity tank – Private					3	
Water closet, <b>greater</b> than 1.6 GPF Gravity tank – Public					5.5	
Water closet, <b>greater</b> than 1.6 GPF Gravity tank – Assembly					7	
Water closet, <b>greater</b> than 1.6 GPF - Flushometer valve - Private					7	
Water closet, <b>greater</b> than 1.6 GPF - Flushometer valve - Public					8	
Water closet, <b>greater</b> than 1.6 GPF - Flushometer valve - Assembly					10	
<b>TOTALS</b>		11				27.0

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Bidet – 1 1/4”					1	
Bidet – 1 1/2”					2	
Clothes washer, domestic, 2” standpipe	1				3	3
Dental unit, cuspidor					1	
Dishwasher, domestic with independent drain	1				2	2
Drinking fountain or water cooler – Private/Public					0.5	
Drinking fountain or water cooler – Assembly					1	
Floor drain					2	
Food waste grinder – commercial					3	
Lavatory, (bathroom sink)	2				1	2
Lavatory, (bathroom sink) sets of 2 or 3					2	
Pedicure basin					1	
Shower, single head					2	
Shower, multi-head each additional					1	
Wash fountain, 1 1/2”					2	
Wash fountain, 2”					3	
<b>SINKS</b>						
Bar sink - Private					1	
Bar sink – Public/Assembly					2	
Clinic, 3” Public/Assembly					6	
Commercial, 1 1/2” with food waste					3	
Kitchen, domestic 1 1/2” (with/without food waste grinder/dishwasher – Private/Public	1				2	2
Laundry, 1 1/2”					2	
Service sink /Mop basin, 2”/3”					3	
Service sink, flushing rim 3”					6	
Wash, each set of faucets – Public/Assembly					2	
<b>URINALS</b>						
Urinal, 2” integral trap 1.0 GPF – Private/Public					2	
Urinal, 2” integral trap 1.0 GPF – Assembly					5	
Urinal, 2” integral trap greater than 1.0 GPF – Private/Public					2	
Urinal, 2” integral trap greater than 1.0 GPF – Assembly					6	
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Water closet, 1.6 GPF Gravity tank / flushometer tank / flushometer valve – Private	2				3	6
Water closet, 1.6 GPF Gravity tank / flushometer tank / flushometer valve – Public					4	
Water closet, 1.6 GPF Gravity tank / flushometer tank / flushometer valve – Assembly					6	
Water closet, <b>greater</b> than 1.6 GPF Gravity tank / flushometer valve – Private					4	
Water closet, <b>greater</b> than 1.6 GPF Gravity tank / flushometer valve – Public					6	
Water closet, <b>greater</b> than 1.6 GPF Gravity tank / flushometer valve – Assembly					8	
<b>TOTALS</b>	9					19

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