

# JCAA CONSULTING ENGINEERS

Job Title Parker Retail

Job No. 20.033

By Patrick Leonard - PE

Checked

Proposed							
Fixture	Qty.	CW FU	CW FU 100%	HW FU 100%	Total FU for Domestic Water Tap/Meter Sizing	Waste or Sewer FU	Total Waste or Sewer FU
WC Tank 1.6 GPF	10	5	50	-	50	4	40
WC Flush Valve 1.6 GPF		10	0	-	0	4	0
WC Flushometer 1.6 GPF		2	0	-	0	4	0
Urinal 3/4" Flush Valve, < 1.0 GPF		5	0	-	0	2	0
Urinal 1" Flush Valve, < 1.0 GPF		10	0	-	0	2	0
Urinal Flush Tank, > 1.0 GPF		3	0	-	0	4	0
Lavatory (public)	10	2	15	15	20	1	10
Lavatory (private)		0.7	0	0	0	1	0
Bar Sink		2	0	0	0	1	0
Kitchen Sink (hotel, restaurant)	2	4	6	6	8	2	4
Kitchen Sink (apartment)		1.4	0	0	0	2	0
Sink General 1½" trap		4	0	0	0	2	0
Laundry Tub		3	0	0	0	2	0
Sink Washup each set of faucets		3	0	0	0	2	0
Bedpan Washer Flush Valve w/sink		10	0	-	0	4	0
Service, Mop Sink	5	3	11.25	11.25	15	2	10
Shower (public)		4	0	0	0	2	0
Shower (private)		1.4	0	0	0	2	0
Bathtub (public)		4	0	0	0	2	0
Bathtub (private)		1.4	0	0	0	2	0
EWC or DF	5	0.25	1.25	-	1.25	0.5	2.5
Hose Bibb	1	2.5	2.5	-	2.5	—	—
Hose Bibb (additional)	1	1	1	-	1	—	—
Clotheswasher (commercial)		4	0	0	0	3	0
Clotheswasher (residential)		1.4	0	0	0	2	0
Hand Sink	5	2	7.5	7.5	10	1	5
Hand Sink Indirect	2	2	3	3	4	—	—
3-Compartment Sink	2	4	6	6	8	—	—
Prep Sink	2	3	4.5	4.5	6	—	—
Dishwasher (hotel, restaurant)	2	6	—	12	12	—	—
Dishwasher (private)		1.4	—	0	0	2	
Glasswasher (hotel, restaurant)		6	—	0	0	—	—
Coffee Brewer		0.25	0	-	0	—	—
Tea Brewer		0.25	0	-	0	—	—
Carbonator		0.25	0	-	0	—	—
Ice Machine	2	0.25	0.5	-	0.5	—	—
Bathroom Group, ≤ 1.6 GPF (hotel, apartment)		3.6	0	0	0	5	0
Bathroom Group, > 1.6 GPF (hotel, apartment)		8	0	0	0	6	0
2" Floor Sink		—	—	—	—	2	0
3" Floor Sink		—	—	—	—	6	0
4" Floor sink		—	—	—	—	8	0
2" Floor Drain		—	—	—	—	2	0
Floor Drain-Emergency		—	—	—	—	—	—
Totals			108.5	65.25	138.25		71.5
					52	GPM	