

Residences At Blackwell With Fire Flow At Maximum Day Demand

		ID	Base Demand (gpm)	Base Pressure (psi)	Fire Demand (gpm)	Combined Demand (gpm)	Residual Pressure (psi)
1	☐	8300	0.00	73.70	0.00	0.00	67.72
2	☐	8302	0.00	75.85	0.00	0.00	69.19
3	☐	8304	50.40	74.55	0.00	50.40	67.00
4	☐	8306	0.00	77.14	0.00	0.00	68.77
5	☐	8308	0.00	78.44	0.00	0.00	69.26
6	☐	8310	50.40	81.47	0.00	50.40	71.73
7	☐	8324	33.95	73.64	0.00	33.95	62.46
8	☐	8326	33.95	76.24	0.00	33.95	63.76
9	☐	8330	33.95	74.52	0.00	33.95	65.10
10	☐	8332	33.95	77.11	833.30	867.25	63.45
11	☐	8334	0.00	73.26	0.00	0.00	67.27
12	☐	8336	0.00	73.26	0.00	0.00	67.24
13	☐	9548	0.00	77.99	833.30	833.30	64.36
14	☐	9549	0.00	74.97	0.00	0.00	66.69
15	☐	9550	0.00	72.83	0.00	0.00	66.61
16	☐	9551	0.00	79.74	833.30	833.30	70.10
17	☐	9552	0.00	75.41	0.00	0.00	67.30
18	☐	9553	0.00	82.33	0.00	0.00	72.18
19	☐	9601	0.00	81.49	0.00	0.00	75.48
20	☐	9602	0.00	83.20	0.00	0.00	73.05
21	☐	9603	0.00	74.97	0.00	0.00	66.69



Residences At Blackwell With No Fire Flow At Peak Hour Demand

		ID	Base Demand (gpm)	Base Pressure (psi)	Fire Demand (gpm)	Combined Demand (gpm)	Residual Pressure (psi)
1	☐	8300	0.00	61.74	0.00	0.00	61.74
2	☐	8302	0.00	63.85	0.00	0.00	63.85
3	☐	8304	100.80	62.52	0.00	100.80	62.52
4	☐	8306	0.00	65.10	0.00	0.00	65.10
5	☐	8308	0.00	66.39	0.00	0.00	66.39
6	☐	8310	100.80	69.41	0.00	100.80	69.41
7	☐	8324	67.90	61.53	0.00	67.90	61.53
8	☐	8326	67.90	64.13	0.00	67.90	64.13
9	☐	8330	67.90	62.44	0.00	67.90	62.44
10	☐	8332	67.90	65.00	0.00	67.90	65.00
11	☐	8334	0.00	61.31	0.00	0.00	61.31
12	☐	8336	0.00	61.30	0.00	0.00	61.30
13	☐	9548	0.00	65.90	0.00	0.00	65.90
14	☐	9549	0.00	62.93	0.00	0.00	62.93
15	☐	9550	0.00	60.85	0.00	0.00	60.85
16	☐	9551	0.00	67.68	0.00	0.00	67.68
17	☐	9552	0.00	63.37	0.00	0.00	63.37
18	☐	9553	0.00	70.27	0.00	0.00	70.27
19	☐	9601	0.00	69.48	0.00	0.00	69.48
20	☐	9602	0.00	71.14	0.00	0.00	71.14
21	☐	9603	0.00	62.93	0.00	0.00	62.93

Water Demand and Fire Flow Requirements										
Nodes										
8324		Each node will supply the demand for one apartment building each with 67 units								
8326	33.95	gpm max day demand for each node								
8330	67.9	gpm peak hour demand for each node								
8332		Fire flow is 2500 gpm for each building divided between three hydrants or 833.3 gpm per hydrant								
		Nodes 9332, 9548 and 9551 will be used to calculate fire flow residual pressures at max day demand								
Nodes										
8304		Each node will supply half of the future demand including 77 houses and 122 multi-family units								
8310	50.4	gpm max day demand for each node								
	108.8	gpm peak hour demand for each node								

