

Stone Crest Subdivision - Stoughton 21531000

ASSUMPTIONS	
Population in Single Family	2.8
Population in Duplex	2.1
Population in Multifamily	1.7
GPD/Ac Commercial Land	1500
Residential Peaking Factor	4
Commercial Peaking Factor	2.5
GPD/Person	100
Units in MR-10	10
Units in MR-24	18

	AREA (ac)	NO. OF UNITS	POPULATION	GPD	GPM	GPM Peak	CFS	CFS PEAK	
Existing									REU at 250 GPD/REU
Single Family (Existing)		28	78.4	7840	5.444	21.778	0.012	0.049	Equates to 100 GPD/Capita
Duplex (TR-6)		2	4.2	420	0.292	1.167	0.001	0.003	2.8 Population in Single Family
Multifamily (MR-10)		0	0	0	0.000	0.000	0.000	0.000	2.1 Population in Two Family
Multifamily (MR-24)		0	0	0	0.000	0.000	0.000	0.000	
Total Residential			83	8300	5.764	23.056	0.013	0.051	
Commercial				0	0.000	0.000	0.000	0.000	
Total			83	8300	6	23	0.013	0.051	PF 4.0

	AREA (ac)	NO. OF UNITS	POPULATION	GPD	GPM	GPM Peak	CFS	CFS PEAK	
South of Autumn Crest - Fall Haven Sewer Line									REU at 250 GPD/REU
Single Family (SR-4)		33	92.4	9240	6.417	25.667	0.014	0.057	Equates to 100 GPD/Capita
Duplex (TR-6)		12	25.2	2520	1.750	7.000	0.004	0.016	2.8 Population in Single Family
Multifamily (MR-10)	3.07	31	52.2	5219	3.624	14.497	0.008	0.032	2.1 Population in Two Family
Multifamily (MR-24)	9.04	163	276.6	27662	19.210	76.840	0.043	0.171	1.7 Population in Multifamily
Total Residential			447	44700	31.042	124.167	0.069	0.277	
Commercial				0	0.000	0.000	0.000	0.000	Commercial at 1500 GPD/Acre
Total			447	44700	31	124	0.069	0.277	PF 4.0 Peaking Factor of 4 - Residential Peaking Factor of 2.5 - Commercial

	AREA (ac)	NO. OF UNITS	POPULATION	GPD	GPM	GPM Peak	CFS	CFS PEAK	
Along Autumn Crest Sewer Line									REU at 250 GPD/REU
Single Family (SR-4)			0.0	0	0.000	0.000	0.000	0.000	Equates to 100 GPD/Capita
Duplex (TR-6)			0.0	0	0.000	0.000	0.000	0.000	2.8 Population in Single Family
Multifamily (MR-10)	5.68	57	96.6	9656	6.706	26.822	0.015	0.060	2.1 Population in Two Family
Multifamily (MR-24)		0	0.0	0	0.000	0.000	0.000	0.000	1.7 Population in Multifamily
Total Residential			97	9700	6.736	26.944	0.015	0.060	
Commercial				0	0.000	0.000	0.000	0.000	Commercial at 1500 GPD/Acre
Total			97	9700	7	27	0.015	0.060	PF 4.0 Peaking Factor of 4 - Residential Peaking Factor of 2.5 - Commercial

	AREA (ac)	NO. OF UNITS	POPULATION	GPD	GPM	GPM Peak	CFS	CFS PEAK	
Along Stone Crest Sewer Line									REU at 250 GPD/REU
Single Family (SR-4)		49	137.2	13720	9.528	38.111	0.021	0.085	Equates to 100 GPD/Capita
Duplex (TR-6)		0	0.0	0	0.000	0.000	0.000	0.000	2.8 Population in Single Family
Multifamily (MR-10)		0	0.0	0	0.000	0.000	0.000	0.000	2.1 Population in Two Family
Multifamily (MR-24)		0	0.0	0	0.000	0.000	0.000	0.000	1.7 Population in Multifamily
Total Residential			138	13800	9.583	38.333	0.021	0.085	
Commercial				0	0.000	0.000	0.000	0.000	Commercial at 1500 GPD/Acre
Total			138	13800	10	38	0.021	0.085	PF 4.0 Peaking Factor of 4 - Residential Peaking Factor of 2.5 - Commercial

	AREA (ac)	NO. OF UNITS	POPULATION	GPD	GPM	GPM Peak	CFS	CFS PEAK	
North area from Vernon Sewer Line									REU at 250 GPD/REU
Single Family (SR-4)		6	17	1680	1.167	4.667	0.003	0.010	Equates to 100 GPD/Capita
Duplex (TR-6)		26	55	5460	3.792	15.167	0.008	0.034	2.8 Population in Single Family
Multifamily (MR-10)	2.02	20	34	3434	2.385	9.539	0.005	0.021	2.1 Population in Two Family
Multifamily (MR-24)	4.07	98	166	16606	11.532	46.127	0.026	0.103	1.7 Population in Multifamily
Total Residential			272	27200	18.889	75.556	0.042	0.168	
Commercial	3.02			4530	3.146	7.865	0.007	0.018	Commercial at 1500 GPD/Acre
Total			272	31730	22	83	0.049	0.186	PF 3.8 Peaking Factor of 4 - Residential Peaking Factor of 2.5 - Commercial

Added Flow Totals

Total Added to Lift Station (minus Existing)
Total to Vernon Street

	GPD	GPM	GPM Peak	CFS	CFS Peak
682	99930	69.4	0.15	0.61	
	68200	47.4	0.422		
	31730	22.0	0.19		

Total to Lift Station w Existing

53.1 213