SANITARY SEWER COMPUTATIONS

Project: Tom's Creek Wastewater System

Date: 9/18/2003 **J.N.:** 17027

	Reference Descriptors		Total Accumulated Flow from PER			Invert Elevations		Length of Pipe	Diameter of Pipe	Slope	Manning's Pipe Capacity	Manning's Pipe Capacity	Manning's Pipe Capacity	Percent Capacity	Comments	
	From Point	To Point	(gpm)	(gpd)	(cfs)	Upper (feet)	Lower (feet)	(feet)	(inches)	(ft/ft)	(cfs)	(mgd)	(gpm)			
1a	W-8	W-7	6,468.00	9,313,920	14.41	1922.90	1921.10	359.40	30	0.0050	29.11	18.8116	13,063.6	50%	Wall's Branch Critical Section	Existing Design
1b	W-8	W-7	6,468.00	9,313,920	14.41	1922.90	1921.10	359.40	24	0.0050	16.05	10.3753	7,205.0	90%	Wall's Branch Critical Section	Dowsized
1c	W-8	W-7	5,468.00	7,873,920	12.18	1922.90	1921.10	359.40	24	0.0050	16.05	10.3753	7,205.0	76%	Wall's Branch Critical Section	Potential Based on Recent Events
2a	T-2	T-1	4,546.00	6,546,240	10.13	1865.66	1864.60	407.16	30	0.0026	20.98	13.5628	9,418.6	48%	Interceptor/Pump Station	Existing Design
2b	T-2	T-1	4,546.00	6,546,240	10.13	1865.66	1864.60	407.16	24	0.0026	11.57	7.4804	5,194.7	88%	Interceptor/Pump Station	Dowsized
2c	T-2	T-1	4,026.33	5,797,917	8.97	1865.66	1864.60	407.16	24	0.0026	11.57	7.4804	5,194.7	78%	Interceptor/Pump Station	Potential Based on Recent Events (89% Flow)
3a	T-10	T-9	4,271.00	6,150,240	9.52	1873.94	1873.42	199.67	30	0.0026	20.99	13.5651	9,420.2	45%	Interceptor/Karr Heights	Existing Design
3b	T-10	T-9	4,271.00	6,150,240	9.52	1873.94	1873.42	199.67	24	0.0026	11.58	7.4816	5,195.6	82%	Interceptor/Karr Heights	Dowsized
3c	T-10	T-9	3,782.77	5,447,185	8.43	1873.94	1873.42	199.67	24	0.0026	11.58	7.4816	5,195.6	73%	Interceptor/Karr Heights	Potential Based on Recent Events (89% Flow)
4a	T-30	T-29	3,580.00	5,155,200	7.98	1892.59	1891.61	363.89	27	0.0027	16.12	10.4157	7,233.1	49%	Interceptor/Brown Westover	Existing Design
4b	T-30	T-29	3,580.00	5,155,200	7.98	1892.59	1891.61	363.89	24	0.0027	11.77	7.6082	5,283.4	68%	Interceptor/Brown Westover	Dowsized
4c	T-30	T-29	3,170.76	4,565,892	7.06	1892.59	1891.61	363.89	24	0.0027	11.77	7.6082	5,283.4	60%	Interceptor/Brown Westover	Potential Based on Recent Events (89% Flow)
5a	T-33	T-32	3,468.00	4,993,920	7.73	1896.87	1895.91	208.99	24	0.0046	15.37	9.9363	6,900.2	50%	Interceptor/Shawnee	Existing Design
5b	T-33	T-32	3,468.00	4,993,920	7.73	1896.87	1895.91	208.99	18	0.0046	7.14	4.6138	3,204.0	108%	Interceptor/Shawnee	Dowsized
5c	T-33	T-32	3,160.75	4,551,479	7.04	1896.87	1895.91	208.99	18	0.0046	7.14	4.6138	3,204.0	99%	Interceptor/Shawnee	Potential Based on Recent Events (91% Flow)
6a	TC-17	TC-16.2	2,828.00	4,072,320	6.30	1934.00	1933.70	100.00	24	0.0030	12.42	8.0299	5,576.3	51%	Interceptor/Cricket's Court	Existing Design
6b	TC-17	TC-16.2	2,828.00	4,072,320	6.30	1934.00	1933.70	100.00	18	0.0030	5.77	3.7286	2,589.3	109%	Interceptor/Cricket's Court	Dowsized
6c	TC-17	TC-16.2	2,577.45	3,711,529	5.74	1934.00	1933.70	100.00	18	0.0030	5.77	3.7286	2,589.3	100%	Interceptor/Cricket's Court	Potential Based on Recent Events (91% Flow)