STORM SEWER SYSTEM

PID : 18156 **Date :** 11/27/2018 **Project :** KFC **Location :** Liberty Township

Description : Proposed storm sewer connecting to existing 60" storm sewer **Designer :** Evans Engineering

Rainfall Area: C **Just Full Capacity Frequency (yrs.) :** 10 **Hydraulic Gradient Frequency (yrs.) :** 25

Minimum Pipe Size : 12.00 **Tailwater Elevation (ft.):** 737.00

JUNCTION From	To	STATION From To	ΔAREA ΣAREA (acres)	ΔCA ΣCA	BEGIN TIME (min.)	RAINFALL INTENSITY (10 yrs.)	(25 yrs.)	DISCHARGE (cfs.) (10 yrs.)	(25 yrs.)	PIPE DIAM. (in.)	LENGTH (ft.)	SLOPE (ft./ft.)	F/L PIPE IN / OUT (ft.)	MEAN VEL (fps.)	JUST FULL CAPACITY (cfs.)	FRICT SLOPE (ft./ft.)	HYGR EL. IN / OUT (ft.)	COVER IN / OUT (ft.)	COVER MINUS HY GR	COVER MINUS CROWN	INLET TYPE MANNING'S 'n'
PR1	PR2		0.75 0.75	0.62 0.62	10.00	5.30	6.41	3.3	4.0	18	107.1	0.0117	743.75 742.50	5.89	13.23	0.0012	744.34 743.63	747.50 746.50	3.16	2.25	0.012
PR2	EXC		0.22 0.98	0.20 0.82	10.30	5.23	6.33	4.3	5.2	18	101.4	0.0099	742.50 741.50	5.97	12.16	0.0021	743.21 742.69	746.50 744.37	3.29	2.50	0.012
EXD	EXE		0.57 1.55	0.38 1.21	10.00	5.30	6.29	2.0	2.4	12	101.5	0.0099	737.10 736.10	4.95	4.12	0.0039	737.97 737.57	741.00 740.92	3.03	2.90	0.012
EXE	EXC		1.07 2.62	0.54 1.75	10.34	5.23	6.29	4.8	5.8	18	139.4	0.0139	736.10 734.16	5.92	11.55	0.0041	737.57 737.00	740.92 744.37	3.35	3.32	0.015
8TOP	8BOT		0.14 2.76	0.10 1.85	10.00	5.30	6.47	0.5	0.7	8	20.4	0.0123	747.50 747.25	3.86	1.56	0.0026	747.83 747.78	749.00 749.00	1.17	0.83	0.012
8BOT	EXA		0.00 2.76	0.00 1.85	10.09	5.28	6.43	0.5	0.7	14	25.0	0.0100	747.25 747.00	3.41	6.26	0.0001	747.75 747.75	749.00 749.00	1.25	0.58	0.012
EXA	EXB		0.26 3.02	0.16 2.01	10.21	5.25	6.29	1.4	1.7	60	74.3	0.0362	735.97 733.28	4.98	461.97	0.0000	737.00 737.00	748.05 746.26	11.05	7.08	0.015
EXB	EXC		0.15 3.17	0.05 2.07	10.46	5.20	6.29	1.7	2.0	60	69.4	0.0330	733.28 730.99	5.09	441.12	0.0000	737.00 737.00	746.26 744.37	9.26	7.98	0.015

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EXC	OUT		0.18 3.34	0.07 2.14	10.73	5.15	6.29	11.0	13.4	60	3.3	0.0300	730.99 730.89	8.74	420.76	0.0000	737.00 737.00	744.37 744.27	7.37	8.38	0.015