



Carriage Hill Section 17															MSP No.	04476.06						
DESIGN FREQ = 10 YEAR															DATE	7/10/2017						
A = 170																						
B = 23																						
STRUCTURE	STA	Tc	INTEN	AREA	SUMAREA	C	A x C	SUM A x C	Q	D	S	n	CAP	VEL	LENGTH	Tp	INV IN	INV OUT	TOP EL	DEPTH	TYPE	
601	4+17	10.00	5.15	0.51	0.51	0.63	0.3213	0.3213	1.66	12	0.02	0.013	5.04	6.42	23	0.06	773.89	777.44	3.55		CB 3A	
602	4+17	10.00	5.15	0.89	1.40	0.61	0.5429	0.8642	4.45	12	0.024	0.013	5.52	7.03	123	0.29	773.43	773.43	777.44	4.01	CB 3A	
603	2+95	10.29	5.11	0.00	1.40	0.00	0.0000	0.8642	4.41	15	0.012	0.013	7.08	5.77	148	0.43	770.48	770.23	776.0	5.77	STM MH	
623																	768.45					
611	0+50	10.00	5.15	0.74	0.74	0.59	0.4366	0.4366	2.25	12	0.02	0.013	5.04	6.42	23	0.06		768.16	771.87	3.71	CB 3	
624																	767.70					
612	5+01	10.00	5.15	0.67	0.67	0.67	0.4489	0.4489	2.31	12	0.02	0.013	5.04	6.42	23	0.06		769.06	772.74	3.68	CB 3A	
613	5+01	10.06	5.14	0.68	1.35	0.68	0.4624	0.9113	4.69	12	0.026	0.013	5.74	7.31	60	0.14	768.60	768.60	772.74	4.14	CB 3A	
625																	767.04					
614	2+00	10.00	5.15	0.37	0.37	0.58	0.2146	0.2146	1.11	12	0.02	0.013	5.04	6.42	23	0.06		765.74	769.37	3.63	CB 3	
626																	765.28					
620		15.00	4.47	5.60	5.60	0.40	2.2400	2.2400	10.02	24	0.01	0.013	22.62	7.20	34	0.08		769.79	773.6	3.81	CB 2-3	
621		15.08	4.46	0.00	5.60	0.00	0.0000	2.2400	10.00	24	0.01	0.013	22.62	7.20	109	0.25	769.45	769.45	773.1	3.65	CB 2-3	
622		15.33	4.44	0.00	5.60	0.00	0.0000	2.2400	9.93	24	0.01	0.013	22.62	7.20	66	0.15	768.36	768.36	773.6	5.24	CB 2-3	
623	1+50	15.48	4.42	0.00	7.00	0.00	0.0000	3.1042	13.71	24	0.01	0.013	22.62	7.20	100	0.23	767.70	767.70	773.7	6.00	STM MH	
624	0+50	15.72	4.39	0.79	8.53	0.69	0.5451	4.0859	17.94	24	0.01	0.013	22.62	7.20	66	0.15	766.70	766.70	771.87	5.17	CB 3M	
625	4+35	15.87	4.37	0.00	9.88	0.00	0.0000	4.9972	21.86	24	0.014	0.013	26.77	8.52	233	0.46	766.04	766.04	772.8	6.76	STM MH	
626	2+00	16.32	4.32	0.61	10.86	0.66	0.4026	5.6144	24.27	24	0.02	0.013	31.99	10.18	60	0.10	762.78	762.78	769.37	6.59	CB 3M	
627																	761.58				HW	
631	20+36	10.00	5.15	0.46	0.46	0.58	0.2668	0.2668	1.37	12	0.02	0.013	5.04	6.42	23	0.06		781.14	785.19	4.05	CB 3A	
642																	780.68					
632	22+20	10.00	5.15	0.42	0.42	0.55	0.2310	0.2310	1.19	12	0.01	0.013	3.56	4.54	23	0.06		778.11	781.79	3.68	CB 3	
643																	777.88					
641		10.00	5.15	1.04	1.04	0.41	0.4264	0.4264	2.20	12	0.012	0.013	3.90	4.97	147	0.49		782.44	785.8	3.36	CB 2-2B	
642	20+36	10.49	5.08	0.60	2.10	0.69	0.4140	1.1072	5.62	15	0.022	0.013	9.58	7.81	184	0.39	780.68	780.43	785.19	4.76	CB 3A	
643	22+20	10.89	5.02	1.08	3.60	0.54	0.5832	1.9214	9.64	24	0.005	0.013	16.00	5.09	78	0.26	776.38	775.63	781.79	6.16	CB 3M	
644	7+12	11.14	4.98	0.40	4.00	0.60	0.2400	2.1614	10.76	24	0.012	0.013	24.78	7.89	180	0.38	775.24	773.24	783.4	10.16	STM MH	
645																	771.08				HW	
651		30.00	3.21	34.50	34.50	0.42	14.4900	14.4900	46.48	36	0.008	0.013	59.66	8.44	36	0.07		777.65	782.5			CB 2-4
652	10+00	30.07	3.20	0.25	34.75	0.60	0.1500	14.6400	46.90	36	0.008	0.013	59.66	8.44	23	0.05	777.36	777.36	783.40	6.04	CB 3	
653	10+00	30.12	3.20	0.53	35.28	0.66	0.3498	14.9898	47.98	36	0.008	0.013	59.66	8.44	135	0.27	777.18	777.18	783.40	6.22	CB 3	
654		30.38	3.18	0.15	35.43	0.66	0.0990	15.0888	48.05	36	0.008	0.013	59.66	8.44	65	0.13	776.10	771.60	780.1	8.50	CB 2-4	
655																	771.08				HW	



# WINDING CREEK SECTION SEVENTEEN AKA CARRIAGE HILL SECTION SEVENTEEN

SECTION 2, TOWN 2, RANGE 3  
LIBERTY TOWNSHIP  
BUTLER COUNTY, OHIO  
DRAINAGE MAP

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Drawn By	NAK	Date	07/11/17	Project No.	04476.06	Sheet No.	1/1
Project Mgr.	RA	Scale	T=100	Points In	04476		
CAD	04476046-MP-00-SECTION 17	X-Ref.	04476063-TOP-2014	File No.	04-476		

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