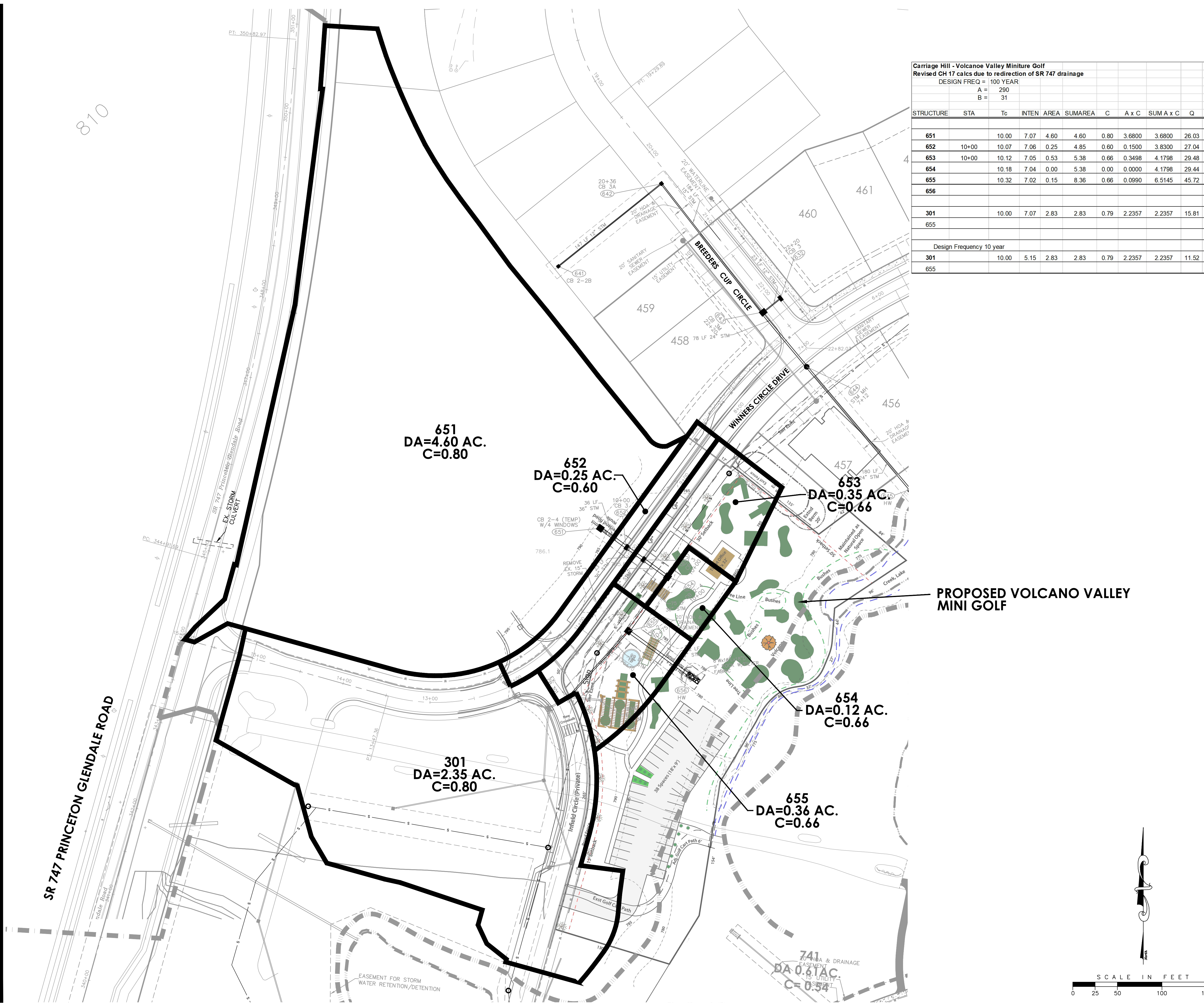




Carriage Hill - Volcanoe Valley Miniture Golf															MSP No.	04476.06											
Revised CH 17 calcs due to redirection of SR 747 drainage															DATE	7/31/2023											
DESIGN FREQ = 100 YEAR																											
A = 290																											
B = 31																											
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						
651		10.00	7.07	4.60	4.60	0.80	3.6800	3.6800	26.03	36	0.008	0.013	59.66	8.44	36	0.07		777.65	782.5		Ex CB 2-4						
652	10+00	10.07	7.06	0.25	4.85	0.60	0.1500	3.8300	27.04	36	0.008	0.013	59.66	8.44	23	0.05	777.36	777.36	783.40	6.04	Ex CB 3						
653	10+00	10.12	7.05	0.53	5.38	0.66	0.3498	4.1798	29.48	36	0.008	0.013	59.66	8.44	30	0.06	777.18	777.18	783.40	6.22	Ex CB 3						
654		10.18	7.04	0.00	5.38	0.00	0.0000	4.1798	29.44	36	0.008	0.013	59.66	8.44	75	0.15	776.94	776.94	784.0	7.06	Ex CB 2-4						
655		10.32	7.02	0.15	8.36	0.66	0.0990	6.5145	45.72	36	0.008	0.013	59.66	8.44	82	0.16	776.34	776.34	784.0	7.66	Ex CB 2-4						
656																	775.68				Ex HW						
301		10.00	7.07	2.83	2.83	0.79	2.2357	2.2357	15.81	18	0.02	0.013	14.86	8.41	92	0.18	782.05	781.17	787.67	6.50	EX CB						
655																	779.33										
Design Frequency 10 year																											
301		10.00	5.15	2.83	2.83	0.79	2.2357	2.2357	11.52	18	0.02	0.013	14.86	8.41	92	0.18	782.05	781.17	787.67	6.50	EX CB						
655																	779.33										

**WINDING CREEK
AKA CARRIAGE HILL
EXISTING STORM SEWER
301, 651-655**

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

**McGill Smith Punshon, Inc.**

3700 Park 42 Drive • Suite 1908
Cincinnati, Ohio 45241-2097
Tel 513.759.0004 • Fax 513.563.7099
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Drawn By	NAK	Date	07/31/17	Project No.	04476.23	Sheet No.	1/1
Project Mgr.	RA	Scale	1"=50'	Points D.B.	04476		
CAD	04476234-IMP-00-SECTION 17	X-Ref.	04476063-TOP-2014 MAY 14	File No.	04-476		

N:\land projects\04000\04476.dwg (04476234-IMP-00-SECTION 17.dwg, EX-STM-Sect 17, 8/1/2023 8:54:49 AM, bernard