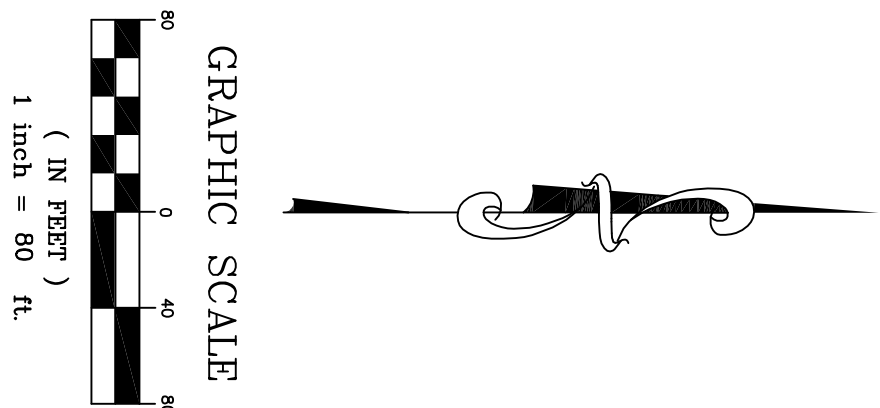




DRAINAGE CALCULATIONS - DEVELOPED - ONSITE													
Area Name	Area (acres)	C	T _c	Design Storm (yr)	"C"	I ₁₀ (in/hr)	Q ₁₀ (cfs)	Design Storm (yr)	"C"	I ₁₀₀ (in/hr)	Q ₁₀₀ (cfs)	Inlet Number	
A-1	0.48	0.75	100	10	1.00	7.25	2.61	100	1.00	9.80	3.53	A-1	
A-2	0.43	0.75	100	10	1.00	7.25	2.34	100	1.00	9.80	3.16	A-2	
A-3	1.06	0.75	100	10	1.00	7.25	5.76	100	1.00	9.80	7.79	A-3	
A-4	0.52	0.75	100	10	1.00	7.25	2.83	100	1.00	9.80	3.82	A-2	
	2.49						13.54				18.30		
B-1	0.35	0.75	100	10	1.00	7.25	2.57	100	1.00	9.80	2.57	B-1	
B-2	0.20	0.75	100	10	1.00	7.25	1.09	100	1.00	9.80	1.47	B-2	
C-1	0.55	0.75	100	10	1.00	7.25	2.99	100	1.00	9.80	4.04	C-1	
C-2	0.23	0.75	100	10	1.00	7.25	1.25	100	1.00	9.80	1.69	C-2	
	1.19						6.47				8.75		
D-1	0.77	0.75	100	10	1.00	7.25	4.19	100	1.00	9.80	5.66	D-1	
D-2	0.21	0.75	100	10	1.00	7.25	1.14	100	1.00	9.80	1.54	D-3	
	0.98						5.33				7.20		
E-1	1.16	0.75	100	10	1.00	7.25	6.31	100	1.00	9.80	8.53	E-1	
E-2	0.49	0.75	100	10	1.00	7.25	2.66	100	1.00	9.80	3.60	E-2	
E-3	2.51	0.75	100	10	1.00	7.25	13.65	100	1.00	9.80	18.45	E-3	
E-4	0.62	0.75	100	10	1.00	7.25	3.37	100	1.00	9.80	4.56	E-4	
E-5	0.39	0.75	100	10	1.00	7.25	2.12	100	1.00	9.80	2.87	E-5	
E-6	0.16	0.75	100	10	1.00	7.25	0.87	100	1.00	9.80	1.18	E-6	
E-7	0.47	0.75	100	10	1.00	7.25	2.56	100	1.00	9.80	3.45	E-7	
E-8	0.83	0.75	100	10	1.00	7.25	4.51	100	1.00	9.80	6.10	E-8	
E-9	0.20	0.75	100	10	1.00	7.25	1.09	100	1.00	9.80	1.47	Roof Drains	
	6.83						37.44				50.21		
F	1.33	0.75	100	10	1.00	7.25	7.23	100	1.00	9.80	9.78	F	
	1.33						7.23				9.78		
G-1	0.27	0.75	100	10	1.00	7.25	2.58	100	1.00	9.80	3.45	G-1	
G-2	0.27	0.75	100	10	1.00	7.25	1.42	100	1.00	9.80	1.92	G-2	
	0.54						4.02				5.44		
H-1	0.62	0.75	100	10	1.00	7.25	3.37	100	1.00	9.80	4.56	H-1	
H-2	0.40	0.75	100	10	1.00	7.25	2.18	100	1.00	9.80	2.94	H-2	
H-3	0.67	0.75	100	10	1.00	7.25	3.64	100	1.00	9.80	4.92	H-3	
H-4	0.63	0.75	100	10	1.00	7.25	3.53	100	1.00	9.80	4.73	H-4	
	2.34						12.72				17.20		
I	0.28	0.75	100	10	1.00	7.25	1.41	100	1.00	9.80	1.91	I	
	1.18						6.42				8.67		
J	1.18	0.75	100	10	1.00	7.25	6.42	100	1.00	9.80	8.67	J	
	1.18						6.42				8.67		
UD-1	0.38	0.75	100	10	1.00	7.25	2.07	100	1.00	9.80	2.79	Buffalo Creek	
UD-3	0.28	0.75	100	10	1.00	7.25	3.10	100	1.00	9.80	4.19	Buffalo Creek	
UD-4	0.06	0.75	100	10	1.00	7.25	0.33	100	1.00	9.80	0.44	Buffalo Creek	
UD-5	1.69	0.75	100	10	1.00	7.25	9.19	100	1.00	9.80	12.42	Buffalo Creek	
	0.43	0.75	100	10	1.00	7.25	2.34	100	1.00	9.80	3.16	EX HW	
	3.41						18.34				25.06		
OS-1	6.37	0.35	20.0	10	1.00	6.60	14.71	100	1.00	3.30	11.82	Sim Line M HW	
OS-2	1.38	0.90	100	10	1.00	7.25	9.00	100	1.00	3.30	12.17	Sim Line M HW	
OS-3	1.34	0.90	100	10	1.00	7.25	8.74	100	1.00	3.30	11.82	UD Accord for in Pond	
OS-4	0.03	0.90	100	10	1.00	7.25	0.20	100	1.00	3.30	0.26		
	9.12						32.66				42.76		
POND	7.05	0.75	100	10	1.00	7.25	38.33	100	1.00	9.80	51.82	N/A	
	7.05						38.33				51.82		
FP-1	0.25	0.35	100	10	1.00	6.60	0.58	100	1.00	3.30	0.73	Buffalo Creek	
FP-2	2.55	0.35	100	10	1.00	6.60	6.91	100	1.00	3.30	8.57	Buffalo Creek	
FP-3	1.12	0.35	100	10	1.00	6.60	2.99	100	1.00	3.30	3.25	Buffalo Creek	
	4.32						9.88				12.55		
To Pond	23.76						129.20				174.55		
Other Space	4.32						21.98				29.65		
Undeveloped	32.70						161.32				221.30		
Total	41.79						196.73				263.89		

RECORD DRAWING
RECORD INFORMATION PROVIDED BY
CONASTER CONSTRUCTION, FORT WORTH, TEXAS
ELEVATION VERIFICATION PERFORMED BY
SURVEY CONSULTANTS, INC., PLANO, TEXAS

LEGEND

- 536 --- EXISTING MINOR CONTOUR
- 535 --- EXISTING MAJOR CONTOUR
- 536 --- PROPOSED MINOR CONTOUR
- 535 --- PROPOSED MAJOR CONTOUR
- AREA BOUNDARY
- DRAINAGE AREA NUMBER
- DRAINAGE AREA IN ACRES

0.52 AC
2.30



REV	DATE	REMARKS	BY

DRAINAGE AREA MAP

MANSIONS FAMILY

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CHECKED	DESIGN	DRAWN	JOB	DATE	SCALE	SHEET
RKM	JRY	JRY	1026-005	05/27/09	1"=80'	9 OF 33