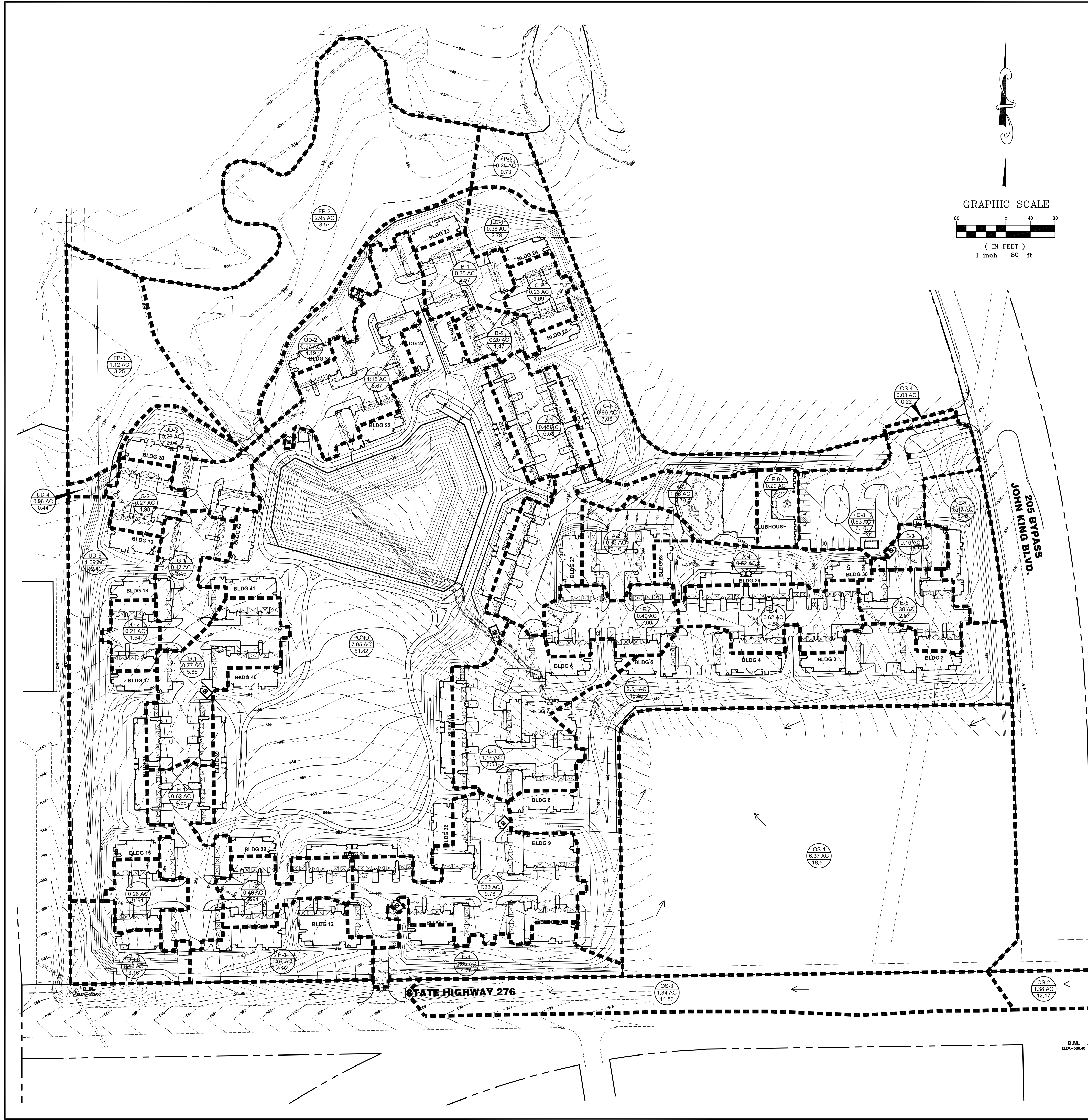




DRAINAGE CALCULATIONS - DEVELOPED - ONSITE												
Area Name	Area (acres)	C Dev.	T _c (min)	Design Storm (yr)	"K" (in/hr)	I10 (in/hr)	Q10 (cfs)	Design Storm (yr)	"K" (in/hr)	I100 (in/hr)	Q100 (cfs)	Inlet Number
A-1	0.48	0.75	10.0	10	1.00	7.25	2.61	100	1.00	9.80	3.53	A-1
A-2	0.43	0.75	10.0	10	1.00	7.25	2.34	100	1.00	9.80	3.16	A-2
A-3	1.06	0.75	10.0	10	1.00	7.25	5.76	100	1.00	9.80	7.79	A-3
A-4	0.52	0.75	10.0	10	1.00	7.25	2.83	100	1.00	9.80	3.82	A-2
	2.49						13.54				18.30	
B1	0.35	0.75	10.0	10	1.00	7.25	1.90	100	1.00	9.80	2.57	B-1
B2	0.20	0.75	10.0	10	1.00	7.25	1.09	100	1.00	9.80	1.47	B-2
	0.55						2.99				4.04	
C1	0.96	0.75	10.0	10	1.00	7.25	5.22	100	1.00	9.80	7.06	C-1
C2	0.23	0.75	10.0	10	1.00	7.25	1.25	100	1.00	9.80	1.69	C-2
	1.19						6.47				8.75	
D1	0.77	0.75	10.0	10	1.00	7.25	4.19	100	1.00	9.80	5.66	D-1
D2	0.21	0.75	10.0	10	1.00	7.25	1.14	100	1.00	9.80	1.54	D-3
	0.98						5.33				7.20	
E1	1.16	0.75	10.0	10	1.00	7.25	6.31	100	1.00	9.80	8.53	E-1
E2	0.49	0.75	10.0	10	1.00	7.25	2.66	100	1.00	9.80	3.60	E-2
E3	2.51	0.75	10.0	10	1.00	7.25	13.65	100	1.00	9.80	18.45	E-3
E4	0.62	0.75	10.0	10	1.00	7.25	3.37	100	1.00	9.80	4.56	E-4
E5	0.39	0.75	10.0	10	1.00	7.25	2.12	100	1.00	9.80	2.87	E-5
E6	0.16	0.75	10.0	10	1.00	7.25	0.87	100	1.00	9.80	1.18	E-6
E7	0.47	0.75	10.0	10	1.00	7.25	2.56	100	1.00	9.80	3.45	E-7
E8	0.83	0.75	10.0	10	1.00	7.25	4.51	100	1.00	9.80	6.10	E-8
E9	0.20	0.75	10.0	10	1.00	7.25	1.09	100	1.00	9.80	1.47	Roof Drains
	6.83						37.14				50.21	
F	1.33	0.75	10.0	10	1.00	7.25	7.23	100	1.00	9.80	9.78	F
	1.33						7.23				9.78	
G1	0.47	0.75	10.0	10	1.00	7.25	2.56	100	1.00	9.80	3.45	G-1
G2	0.27	0.75	10.0	10	1.00	7.25	1.47	100	1.00	9.80	1.98	G-2
	0.74						4.02				5.44	
H1	0.62	0.75	10.0	10	1.00	7.25	3.37	100	1.00	9.80	4.56	H-1
H2	0.40	0.75	10.0	10	1.00	7.25	2.18	100	1.00	9.80	2.94	H-2
H3	0.67	0.75	10.0	10	1.00	7.25	3.64	100	1.00	9.80	4.92	H-3
H4	0.65	0.75	10.0	10	1.00	7.25	3.53	100	1.00	9.80	4.78	H-4
	2.34						12.72				17.20	
I	0.25	0.75	10.0	10	1.00	7.25	1.41	100	1.00	9.80	1.91	I
	0.25						1.41				1.91	
J	1.18	0.75	10.0	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	10.0	10	1.00	7.25	2.07	100	1.00	9.80	2.79	Buffalo Creek
UD-2	0.57	0.75	10.0	10	1.00	7.25	3.10	100	1.00	9.80	4.19	Buffalo Creek
UD-3	0.28	0.75	10.0	10	1.00	7.25	1.52	100	1.00	9.80	2.06	Buffalo Creek
UD-4	0.06	0.75	10.0	10	1.00	7.25	0.33	100	1.00	9.80	0.44	Buffalo Creek
UD-5	1.69	0.75	10.0	10	1.00	7.25	9.19	100	1.00	9.80	12.42	Buffalo Creek
UD-6	0.43	0.75	10.0	10	1.00	7.25	2.34	100	1.00	9.80	3.16	EX. HW
	3.41						18.54				25.06	
OS-1	6.37	0.35	20.0	10	1.00	6.60	14.71	100	1.00	8.30	18.50	L
OS-2	1.38	0.90	10.0	10	1.00	7.25	9.00	100	1.00	9.80	12.17	Stm Line M HW
OS-3	1.34	0.90	10.0	10	1.00	7.25	8.74	100	1.00	9.80	11.82	Stm Line M HW
OS-4	0.03	0.90	10.0	10	1.00	7.25	0.20	100	1.00	9.80	0.26	UD Acontd for in Pond
	9.12						32.66				42.76	
POND	7.05	0.75	10.0	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	10.0	10	1.00	6.60	0.58	100	1.00	8.30	0.73	Buffalo Creek
FP-2	2.95	0.35	10.0	10	1.00	6.60	6.81	100	1.00	8.30	8.57	Buffalo Creek
FP-3	1.12	0.35	10.0	10	1.00	6.60	2.59	100	1.00	8.30	3.25	Buffalo Creek
	4.32						9.98				12.55	
To Pond	23.75						129.20				174.65	
Open Space	4.32						9.98				12.55	
Undertained	4.62						25.15				34.00	
Total	32.70						164.33				221.20	
Total w/OS	41.79						196.79				263.69	

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

PROPOSED DRAINAGE AREA BOUNDARY

UD-1

0.64 AC

2.20

DRAINAGE AREA NUMBER

DRAINAGE AREA IN ACRES

Q100 IN CFS

REV.

DATE

REMARKS

BY

DRAINAGE AREA MAP

MANSIONS FAMILY

CITY of ROCKWALL, TEXAS

RKM

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fax (214) 432-8069
Form No. E-7237

CHECKED

DESIGN

DRAWN

JOB

DATE

SCALE

SHEET

RKM

JRY

JRY

1026-005

05/27/09

1"=80'

9

OF 33

I:\PROJECTS\1026 - WESTERN RIM INVESTMENTS\1026-005 ROCKWALL\RECORD DRAWINGS\26-005 M DAM.dwg Plotted on: 12/17/2009 - 11:17 am